

TECHNIQUE FOR ESTIMATING FLOOD-PEAK DISCHARGES  
AND FREQUENCIES ON RURAL STREAMS  
IN ILLINOIS

By G. W. Curtis

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## GLOSSARY

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

Cubic foot per second (ft<sup>3</sup>/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 or 448.8 gallons per minute.

Discharge (Q). The rate of flow of water in a stream at a given place and within a given period of time, in cubic feet per second.

Drainage area (A). Contributing area from which surface runoff is carried away by a single drainage system, in square miles.

Equivalent years of record. A measure of the accuracy with which the regression model can estimate the  $Q_T$  at a site, expressed in years.

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 highest value of the stage or discharge attained by a flood; thus, peak stage or peak discharge.

Flood frequency. The average interval of time within which a given flood peak will be exceeded once (see recurrence interval).

Gaging station. A particular site on a stream where systematic observations of gage height and discharge are obtained.

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. The annual peak discharge will be exceeded once every T-number of years on the average.

Rainfall intensity (I). The maximum 24-hour rainfall, in inches, that has a recurrence interval of 2 years.

Recurrence interval. The average interval of time (T-years) within which a given hydrologic phenomenon will be exceeded once. Also called return period.

Regional factor (Rf). A factor used to remove geographic bias in an estimating equation, dimensionless.

Regression equation. A mathematical relation 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.

Rural stream. A stream in which the drainage area is predominantly rural. In general, the drainage area contains not more than about 5 percent urbanization.

Slope (S). The main channel slope, in feet per mile. It is based on the difference of elevations divided by distance between points 10 percent and 85 percent of the total distances measured along the low-water channel of the stream from the site to the basin divide.

Standard error of prediction. A measure of the accuracy with which a regression model estimates the  $Q_T$  flood at a site, expressed in percent. The true value of the  $Q_T$  will occur within the standard error of prediction percent of the predicated value about two times out of three.

T-year flood. The average interval of time (T) that a flood-peak discharge will be exceeded, in years. See  $Q_T$ .

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

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#### CONVERSION FACTORS

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For the convenience of readers who may want to use metric (International System) units, the inch-pound values in this report may be converted by using the following factors:

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain metric unit</u>
foot (ft)	0.3048	meter (m)
foot per mile (ft/mi)	0.1894	meter per kilometer (m/km)
cubic foot (ft <sup>3</sup> )	0.02832	cubic meter (m <sup>3</sup> )
cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second (m <sup>3</sup> /s)
inch (in.)	25.4	millimeter (mm)
mile (mi)	1.609	kilometer (km)
square mile (mi <sup>2</sup> )	2.590	square kilometer (km <sup>2</sup> )

# TECHNIQUE FOR ESTIMATING FLOOD-PEAK DISCHARGES AND FREQUENCIES ON RURAL STREAMS IN ILLINOIS

By G. W. Curtis

## ABSTRACT

Flood-peak discharges and frequencies are presented for 394 gaged sites in Illinois, Indiana, and Wisconsin for recurrence intervals ranging from 2 to 100 years. A technique is presented for estimating flood-peak discharges at recurrence intervals ranging from 2 to 500 years for nonregulated streams in Illinois with drainage areas ranging from 0.02 to 10,000 squares miles. Multiple-regression analyses, using basin characteristics and peak streamflow data from 268 of the 394 gaged sites, were used to define the flood-frequency relation. The most significant independent variables for estimating flood-peak discharges are drainage area, slope, rainfall intensity, and a regional factor. Examples are given to show a step-by-step procedure in calculating a 50-year flood for a site on an ungaged stream, a site at a gaged location, and a site near a gaged location.

## INTRODUCTION

The purpose of this report is to provide updated station flood-peak discharges and frequencies and to provide improvement to the previous techniques for estimating flood-peak discharges and frequencies of floods for sites on most streams where flood discharges are not significantly affected by regulation or urbanization. Flood-peak discharges and frequencies are presented for 394 gaging stations in Illinois, Indiana, and Wisconsin for recurrence intervals of 2, 5, 10, 25, 50, and 100 years. A technique using drainage area (A), slope (S), rainfall intensity (I), and regional factor (Rf) was developed for estimating flood-peak discharges at ungaged sites in Illinois. Equations using these variables are applicable for estimating flood-peak discharges for recurrence intervals of 2 to 500 years for drainage areas ranging from 0.02 to 10,000 square miles (mi<sup>2</sup>) on nonregulated rural streams. Estimates of future floods are necessary for the proper design of engineering projects such as bridges, culverts, highways, and flood-control structures; for establishment of actuarial flood-insurance rates; and for proper flood-plain management by State and local agencies.

Previous techniques for estimating flood-peak discharges and frequencies in Illinois have been provided by Mitchell (1954), Speer and Gamble (1965), Wiitala (1965), Patterson and Gamble (1968), Ellis (1968), Carns (1973), Curtis (1977a), and Allen and Bejcek (1979). Techniques were developed by Carns (1973), Curtis (1977a), and Allen and Bejcek (1979) using ordinary least

squares multiple-regression analyses as recommended by Thomas and Benson (1970). Additional data and improved analytical methods used in this report increase the confidence in estimating techniques over those published in earlier reports.

This report was prepared under a cooperative agreement between the State of Illinois, Department of Transportation, Division of Water Resources, and the U.S. Geological Survey (Survey). Streamflow data were collected in cooperation with the U.S. Army Corps of Engineers and State and local agencies.

#### TECHNIQUE FOR ESTIMATING FLOOD-PEAK DISCHARGES

Annual peak discharges from gaging stations having a minimum of 10 years of record through the 1985 water year were used to define station flood-frequency relations. Locations of these stations are shown in figures 1 and 2. The map number, identification number, name, geographic location, and station flood-peak discharges for the stations are listed in table 1. All figures and tables are grouped in the back of the report for easy reference.

Station flood-frequency relations were defined using the Hydrology Subcommittee of Interagency Advisory Committee on Water Data (1982), formerly U.S. Water Resources Council, guidelines. These guidelines outline procedures to fit the logarithms of observed annual peak discharges to the Pearson Type III frequency distribution.

Peak discharges of various recurrence intervals and basin characteristics for gaging stations were used in multiple-regression analyses to develop estimating equations for flood-peak discharges and frequencies on nonregulated rural streams in Illinois. Data from stations affected by either urbanization or by regulation were not included in the regression analyses. Relations were developed for estimating flood-peak discharges 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 variables--drainage area ( $A$ ), slope ( $S$ ), rainfall intensity ( $I$ ), and regional factor ( $R_f$ )--are the most significant variables to use in estimating flood-peak discharges for Illinois streams. One estimating equation for each recurrence interval provides a straightforward technique to compute flood-peak discharges for both small and large Illinois streams. Flood-peak discharges and frequencies, basin characteristics and other pertinent data, and regional factors are tabulated in tables 1, 2, and 3. In table 1, two sets of station flood-peak discharges are presented for two stations (Nos. 385 and 389) on the Big Muddy River. The first set of discharges are for periods of nonregulated flow and were used in the regression analyses. The second set of discharges are for periods of regulated flow and were not used in the regression analyses.

The reliability of flood-frequency estimates is uncertain for very large recurrence intervals. 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 estimating technique, are defined in detail in the data-analyses section.

Flood-peak discharge equations, applicable statewide, for estimating  $Q_T$  on nonregulated rural streams are as follows:

$$Q_2 = 40.3 A^{0.790} S^{0.481} (I-2.5)^{0.677} R_f \quad (1)$$

$$Q_5 = 66.4 A^{0.786} S^{0.513} (I-2.5)^{0.719} R_f \quad (2)$$

$$Q_{10} = 83.0 A^{0.785} S^{0.532} (I-2.5)^{0.742} R_f \quad (3)$$

$$Q_{25} = 103 A^{0.786} S^{0.552} (I-2.5)^{0.768} R_f \quad (4)$$

$$Q_{50} = 118 A^{0.786} S^{0.566} (I-2.5)^{0.786} R_f \quad (5)$$

$$Q_{100} = 132 A^{0.787} S^{0.578} (I-2.5)^{0.803} R_f \quad (6)$$

$$Q_{500} = 162 A^{0.789} S^{0.601} (I-2.5)^{0.838} R_f \quad (7)$$

The four variables required to solve the equations are drainage area (A), slope (S), rainfall intensity (I), and regional factor (Rf). Drainage area and slope are determined from topographic maps. Drainage area is the area contributing to surface runoff. Slope 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 determined from figure 3. The regional factor is determined by first selecting the region number from figure 4 and then the appropriate regional factor from table 3.

Flood-peak discharge equations for recurrence intervals between 2 and 100 years, other than those in equations 1 to 7, may be developed by interpolating the regression constant and coefficients from the graphs in figure 5.

#### APPLICATION OF ESTIMATING TECHNIQUE

The technique for estimating flood-peak discharges and frequencies is applicable to either ungaged or gaged nonregulated rural streams. Figure 6 shows the sequence to follow for estimating a flood-peak discharge at a site. Step-by-step procedures for applying the estimating technique are given in the examples that follow.

##### Site on Ungaged Stream

Flood frequency estimates at sites on ungaged streams are calculated using equations 1 to 7.

Example 1: Computation of the 50-year recurrence interval flood at a site on an ungaged stream:



1. Determine the size of contributing drainage area (A), in square miles. The area can be planimeted on topographic, county, or other maps suitable for delineating the basin boundary. For this example, assume A = 625 mi<sup>2</sup>.
2. Determine the slope (S), in feet per mile (ft/mi). 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 basin divide. For this example, assume S = 2.5 ft/mi.
3. Determine the rainfall intensity (I), in inches, from figure 3. The value of I should be an average for the basin. For this example, assume I = 3.1 inches.
4. Determine the region (R) and the regional factor (Rf) from figure 4 and table 3, respectively. For this example, R is III and Rf is 0.862.
5. Select equation 5 from page 3 and compute the flood magnitude.

$$\begin{aligned}
 Q_{50} &= 118 A^{0.786} S^{0.566} (I-2.5)^{0.786} Rf \\
 &= (118)(625)^{0.786}(2.5)^{0.566}(3.1-2.5)^{0.786}(0.862) \\
 &= (118)(157.6)(1.68)(0.669)(0.862) \\
 &= 18,000 \text{ ft}^3/\text{s}.
 \end{aligned}$$

#### Site at Gaged Location

Flood frequency estimates at gaged sites are combinations of the gaging station frequency curve and the equation estimates. The equivalent years of record concept (Hardison, 1971) was used to obtain weighted estimates of peak flow at gaged sites using estimates obtained from station records and from equations 1 to 7. This procedure was described by the Hydrologic Subcommittee (1982) and is expressed in the equation

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

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 3 or obtained from the second line of discharge values in table 1 and then transformed into logs. The station equivalent years of record (Eq yrs record) for the equation are also given in table 2. The antilog of the result from equation 8 is the weighted estimate of the station flood discharge.

Example 2: Computation of the weighted 50-year recurrence interval flood at the gaging station 05572000 Sangamon River at Monticello, Illinois (map No. 307):

$$\begin{aligned}
 \text{Log } Q_{50} &= \frac{\text{Yrs of record (log sta. } Q_{50}) + \text{Eq yrs record (log equation } Q_{50})}{\text{Yrs of record} + \text{Eq yrs record}} \\
 &= \frac{76(4.23553) + 5.5(4.15229)}{76 + 5.5} \\
 &= \frac{344.73788}{81.5} \\
 &= 4.22991 \\
 Q_{50} &= 17,000 \text{ ft}^3/\text{s}.
 \end{aligned}$$

For convenience, the weighted estimates for a station have been tabulated in the third line of values in table 1. Equation 8 may be used to update the values of line 3 in table 1 as additional years of record are obtained.

#### Site near Gaged Location

Flood frequency estimates at a site near a gaging station on the same stream can be calculated by a combined use of the estimating equations 1 to 7 and the nearby station data. The following procedure is suggested for use if the site has a drainage area within 50 percent of the drainage area of the gaging station. Define the ratio,  $r$ :

$$r = \frac{Q_T(\text{gage, weighted})}{Q_T(\text{gage, eq. 1-7})} \quad (9)$$

This ratio represents the correction needed to adjust the estimating equation value to the gage weighted value. The following equation, derived by Sauer (1974), gives the adjustment factor,  $r'$ , for a site that is near a gaged site on the same stream:

$$r' = r - \frac{\Delta A}{0.5A_G} (r-1.00). \quad (10)$$

In equation 10,  $\Delta A$  is the difference between the drainage areas of the site and the gaged site, and  $A_G$  is the drainage area at the gaged site. The adjusted  $Q_T$  for a site is computed using the equation:

$$Q_T (\text{adjusted}) = Q_T (\text{eq. 1-7}) r'. \quad (11)$$

If the drainage area of the site differs by more than 50 percent of the gaged site, that is,  $\Delta A/A_G$  is greater than 0.5, equation 11 should not be used, and the results of estimating equations 1 to 7 should be used without adjustment.

Example 3: For this example, assume the site in example 1 is located on the Sangamon River downstream from gaging station 05572000 Sangamon River at Monticello, Illinois (map No. 307). The drainage area, from table 2, is 550 mi<sup>2</sup> for the gaging station. The procedure is as follows:

First computation:

1-5. Same as example 1, site  $Q_{50} = 18,000 \text{ ft}^3/\text{s}$ .

Second computation:

6. Same as example 2, gage weighted  $Q_{50} = 17,000 \text{ ft}^3/\text{s}$ ; or, the weighted  $Q_{50}$  may be selected from table 1, line 3 for station 05572000.

Third computation:

7. From table 1, select the  $Q_{50}$  that was computed using equation 5 for the station (second line).  $Q_{50} = 14,200 \text{ ft}^3/\text{s}$ .

8.  $\frac{\Delta A}{A_G} = \frac{625-550}{550} = 0.14$ . [This is less than 0.5, therefore,  $r'$  should be computed and used to adjust  $Q_{50}$  (eq. 5).]

9. Compute the adjustment ratio,  $r$ , using equation 9.

$$r = \frac{Q_{50}(\text{gage, weighted})}{Q_{50}(\text{gage, eq. 5})} = \frac{17,000 \text{ ft}^3/\text{s}}{14,200 \text{ ft}^3/\text{s}} = 1.20.$$

10. Compute the adjustment factor,  $r'$ , using equation 10.

$$\begin{aligned} r' &= r - \frac{\Delta A}{0.5A_G} (r-1.00) \\ &= 1.20 - \frac{75}{0.5(550)} (1.20-1.00) = 1.15. \end{aligned}$$

11. Compute the adjusted  $Q_{50}$  at the site using equation 11.

$$\begin{aligned} Q_{50} (\text{adjusted}) &= Q_{50} (\text{eq. 5}) r' \\ &= 18,000 \text{ ft}^3/\text{s} (1.15) \\ &= 20,700 \text{ ft}^3/\text{s}. \end{aligned}$$

This is the best estimate for the ungaged site on the Sangamon River.

The site for which flood-frequency calculations are desired may sometimes be between two gaged sites on the same stream. The 50-percent rule should be applied to determine which gaged site, if any, should be used to make the adjustment. If the ungaged site is within 50 percent of both gaged sites, the frequency calculations for the ungaged site can be made by interpolation of the weighted station values  $Q_T$  for each gaged site. Again, interpolation should be on the basis of drainage area.

### Regulated and Urban Streams

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

Big Muddy River  
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 interbasin flow. For the Big Muddy, Fox, and Illinois Rivers, flood frequencies may be estimated for ungaged sites by interpolation between gaged sites on the basis of drainage area. This interpolation is facilitated by the graphs shown in figures 7 through 9.

Many of the flood discharges recorded for Saline River near Junction include interbasin flow from the Wabash River through Cypress Ditch just upstream from the gaging station. The magnitude of the interbasin flow depends on the stages of the Wabash River that, in turn, are dependent on the stages of the Ohio River. Frequently the stages of 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.

Allen and Bejcek (1979) presented a technique for estimating flood-peak discharges and frequencies on urban streams in northeastern Illinois. A suggested transferability-of-urban-effect technique was also presented. It was assumed that the effects of urbanization on flood peaks in northeastern Illinois may be similar to urban effects in other parts of Illinois. Based on this assumption, the equations for rural streams on page 3, along with procedures in the report by Allen and Bejcek (1979), may be used to estimate flood frequencies on urban streams in other parts of Illinois. These estimates should be checked by any other available methods.

### ACCURACY AND LIMITATION OF ESTIMATING TECHNIQUE

The accuracy of equations 1 to 7 is expressed by the standard error of prediction, in percent and in equivalent years of record. The standard error of prediction (Stedinger and Tasker, 1986b) is a measure of the accuracy with which the regression model can estimate the T-year flood at an ungaged site. The true value of the T-year flood in log units will be within plus or minus one standard error of prediction from the predicted value about two times out of three. The standard error of prediction was determined in log units and converted to percent and equivalent years of record by techniques given in Hardison (1971). Equivalent years of record indicates the number of years of streamflow record that provides an estimate equal in accuracy to the standard error of prediction.

The accuracy of equations 1 to 7 is summarized in table 4. The equivalent years of record in table 4 represents an average equivalent year of record for the estimating equations. Individual station equivalent years of record from table 2 should be used in equation 8 for weighting the independent estimates.

The flood-frequency equations in this report may be used to estimate flood-peak discharges and frequencies on most Illinois nonregulated rural streams for drainage areas ranging from 0.02 to 10,000 mi<sup>2</sup>, slopes ranging from 0.7 to 230 ft/mi, and 24-hour 2-year rainfall intensity from 2.6 to 3.6 inches. 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 transverse the bluff and adjacent flood plain of major rivers); or other unaccounted for conditions that affect floodflow.

## DATA ANALYSES

Discharge data used in the station flood-frequency and regional analyses were obtained from the surface-water gaging-station network maintained by the Survey. Annual peak discharges from 394 continuous-record and crest-stage partial-record stations having 10 years or more of record were used in the flood-frequency analyses. Of these stations, 383 are located in Illinois, 4 in Indiana, and 7 in Wisconsin (figs. 1 and 2). Peak flows from 268 of the 394 stations represent nonregulated rural sites, and these data were used in the regional analyses. Annual peak-flow records collected through September 30, 1985, were used in this report.

Drainage area (A) and slope (S) were determined from either topographic maps, field surveys, aerial photographs, or as published in Survey reports. The rainfall intensity (I) represents the 24-hour 2-year rainfall-duration frequency and was determined from Hershfield (1961).

The map number, station number, and station name and location for the 394 stations are shown in table 1.

### Station Flood-Frequency Analyses

Flood-frequency analyses define the relation of flood-peak discharges to exceedance probabilities or recurrence intervals. Exceedance probability is the chance that a given discharge 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 occurrences of a flood-peak discharge of a given or greater magnitude. For example, a flood having an exceedance probability of 0.01 has a recurrence interval of 100 years; or, a 100-year flood may be exceeded on the average of 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.

Flood-frequency relations for 394 gaging stations were defined using the Hydrology Subcommittee of Interagency Advisory Committee on Water Data (1982) guidelines. These guidelines outline procedures to fit logarithms of observed annual-peak data to the Pearson Type III distribution.

A computer was used to perform frequency computations and plots for 394 gaging stations. The computer calculated the following:

An array of N annual flood-peak discharges (Q) at a station were transformed into an array of corresponding base 10 logarithmic values ( $X_i$ )

$$X_1, X_2, \dots, X_N$$

and the means of the logarithms were computed by

$$\bar{X} = \frac{\sum X}{N} . \quad (12)$$

Next the standard deviation (SD) and skew coefficient (G) were computed by

$$SD = \left[ \frac{(\sum X^2) - (\sum X)^2 / N}{(N-1)} \right]^{0.5} \quad (13)$$

and

$$G = \frac{N \sum (X - \bar{X})^3}{(N-1)(N-2)(SD)^3} , \text{ respectively.} \quad (14)$$

The technique for fitting log-Pearson Type III distributions to observed annual peaks is to compute the base 10 logarithms of the discharge (Q) at selected exceedance probability (P) by the equation

$$\text{Log } Q = \bar{X} + K(SD) \quad (15)$$

where  $\bar{X}$  is the mean of the logs of the annual peaks at a gaging station, and

K is a factor from tables in Hydrology Subcommittee (1982) that is a function of the skew coefficient (G) and selected exceedance probability.

The skew coefficient of peak flows at a station is sensitive to extreme events. Therefore, accurate estimates of skew require a long period of record. A generalized estimate of skew is recommended (Hydrology Subcommittee, 1982) for stations with short periods of record.

For this study, logarithms of annual-peak discharges were fitted to the Pearson Type III distribution giving weight to historical peaks and high outliers, omitting low outliers, and using the generalized skew map of the Hydrology Subcommittee (1982). For stations having less than 25 years of record, the generalized skew was used for computing the frequency relation. For those stations with record lengths longer than 25 years, the station skew was weighted with the generalized skew. A weighted skew is calculated by combining the station and generalized skew coefficients using the equation:

$$G_W = \frac{MSE_{\bar{G}}(G) + MSE_G(\bar{G})}{MSE_{\bar{G}} + MSE_G} , \quad (16)$$

where  $G_W$  = weighted skew coefficient,  
 $G$  = station skew,  
 $\bar{G}$  = generalized skew,  
 $MSE_{\bar{G}}$  = mean-square error of generalized skew, and  
 $MSE_G$  = mean-square error of station skew

The flood-frequency curves for the individual stations were computed using equation 14. The discharge values from the individual station curve for recurrence intervals of 2, 5, 10, 25, 50, and 100 years are given in table 1. Log-Pearson Type III statistics used to develop the frequency relations for each station are shown in table 5.

### Regional Analyses

Most sites where streamflow information is needed will not have streamflow records available. Flood-peak discharges from individual stations have limited transferability; therefore, estimates of flood-peak discharges at ungaged sites should be based on regional analyses. The advantages of regional analyses are that (1) the flood-frequency relation is applicable to all ungaged sites in an entire region, and (2) the relation can improve the flood-frequency estimates at a gaged site.

Traditionally, regression models have used ordinary least squares (OLS) to estimate relations between streamflow characteristics and relevant physiographic variables such as drainage area and channel slope. Several investigators (Matalas and Benson, 1961; Matalas and Gilroy, 1968; Hardison, 1971; Moss and Karlinger, 1974; Tasker and Moss, 1979; and Moss, 1976, 1979) have examined the statistical precision and properties of OLS procedures with hydrologic data sets. The OLS approach can provide distorted estimates of the model's predictive capability and the precision with which the regression model's parameters are estimated. Weighted (WLS) and generalized least squares (GLS) techniques were developed to deal with situations like those encountered in hydrology where a regression model's residuals are heteroscedastic and perhaps cross-correlated (Draper and Smith, 1981; Johnston, 1972). Stedinger and Tasker (1985, 1986a) compared the statistical performance of OLS, WLS, and GLS in situations where streamflow records at gaged sites can be of different and widely varying lengths and concurrent flows at different sites are cross-correlated. They found that the GLS procedure was superior and provided (1) more accurate parameter estimates, (2) better estimates of the accuracy with which the regression model's parameters were estimated, and (3) almost unbiased estimates of the model error.

A new improved statistical model (G. D. Tasker, A. M. Lumb, W. O. Thomas, and K. M. Flynn, U.S. Geological Survey, written commun., 1987) for analyzing hydrologic data was used in this study. This model, which uses GLS in a multiple regression analysis, was used to define the flood-frequency relations in equations 1 to 7.

Multiple-regression analyses were used to relate peak flows as dependent variables to the basin characteristics and a climatic factor as independent variables. Variables were transformed to a log of base 10 before analyses for

the principal reasons to (1) linearize the regression equation, (2) stabilize the variance of the residuals about the regression equation, and (3) normalize the distribution of the residuals about the regression equation. After analyses, the log equations were transformed by taking the antilog into the final equation format as shown in equation 17. Discharges corresponding to the 2-, 5-, 10-, 25-, 50-, 100-, and 500-year recurrence-interval flood were defined at 268 nonregulated rural gaging stations by using the log-Pearson Type III distribution and were regressed against the basin and climatic variables using the multiple regression model:

$$Q_T = aA^bB^c \dots N^n \quad (17)$$

where  $Q_T$  = flood-peak discharge, in cubic feet per second, having  
a T-year recurrence interval,

A, B, ... N = drainage basin and climatic variables,

b, c, ... n = regression coefficients, and

a = regression constant.

Combinations of independent variables such as drainage area, main channel length, slope, storage (lakes and ponds), forest cover, soil index factor, and rainfall intensity index were evaluated in a preliminary ordinary multiple regression analyses for computing the dependent variable T-year recurrence interval flood. Only the significant independent variables were used in the GLS analysis, and they are drainage area (A), slope (S), and rainfall intensity (I).

Curtis (1977b) showed that significant differences in flood peaks could be related to geographic regions of the State as well as to drainage area, slope, and rainfall intensity. The boundaries for the geographic regions were delineated based on physiographic divisions, drainage-basin boundaries, and residual patterns. To account for geographic variation, a regional factor (Rf) was included in the regression analyses. A technique by Tasker (G. D. Tasker, U.S. Geological Survey, Reston, Virginia, written commun., 1986) was used to compute the regional factors. The factors were computed using "dummy" variables in the regression analyses. Detailed explanations of dummy variables in regressions can be found in Draper and Smith (1981) and Montgomery and Peck (1982).

Equations 1 to 7 are applicable statewide. Data for 268 nonregulated rural stations having drainage areas ranging from 0.02 to 9,500 mi<sup>2</sup> and slopes from 0.74 to 229 ft/mi were used to develop the equations. The variables required to solve the equations are drainage area (A), slope (S), rainfall intensity (I) and regional factor (Rf).

Drainage area represents the area that contributes to direct surface runoff, in square miles. Slope, in feet per mile, 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. Drainage area and slope are determined from topographic maps.

The rainfall intensity is the maximum 24-hour rainfall, in inches, expected to be equaled or exceeded on an average of once every 2 years.



Rainfall intensity (fig. 3) was obtained from Hershfield (1961). A constant of 2.5 was subtracted from the rainfall intensity to obtain the best fit to the linear regression equation.

The regional factor (table 3) removes regional bias and is dimensionless. The State is divided into four regions (fig. 4). The regions are the same as the areas defined in a previous study by Curtis (1977b).

Equations 1 to 7 may be used to improve the flood estimates at a gaged site. A procedure for weighting the flood estimates from the regional equations with the flood estimates from station data is provided in the Hydrology Subcommittee (1982) guidelines and in Curtis (1977a). This procedure is shown on page 6 and is based upon the assumption that the estimates are independent, which for practical purposes is true in most situations.

In table 1, the independent estimates of flood discharges were weighted using equation 8 to calculate the "best" flood estimates for the 268 stations used in the regional analysis.

Flood estimates for an ungaged site on a gaged stream may be improved by adjusting the ungaged site flood estimates with the flood estimates at the gaged site. Equation 11 provides a procedure for adjusting the site estimates.

#### SUMMARY

Equations, maps, tables, and graphs are presented to provide a means for estimating flood-peak discharges having recurrence intervals of 2, 5, 10, 25, 50, 100, and 500 years for nonregulated rural streams in Illinois. The flood-frequency equations may be used to estimate discharges on most streams ranging from 0.02 to 10,000 mi<sup>2</sup> with slopes ranging from 0.7 to 230 ft/mi. A procedure is provided for weighting independent estimates of discharge at a gaging station.

Graphical relations of station flood-peak discharges versus drainage area are presented for the regulated Big Muddy, Fox, and Illinois Rivers. For these streams, flood-peak discharges may be estimated for ungaged sites by interpolation between stations on the basis of drainage area. Suggested procedures for estimating flood discharges on urban streams in northeastern Illinois and for transferring urban effect on stream estimates to other parts of Illinois are discussed.

Flood-frequency relations were defined for 394 gaged sites using the log-Pearson Type III frequency distribution and guidelines outlined by the Hydrology Subcommittee (1982). Two hundred sixty-eight (268) of the 394 stations were used in multiple regression analyses using a new improved procedure (G. D. Tasker, A. M. Lumb, W. O. Thomas, and K. M. Flynn, U.S. Geological Survey, written commun., 1987) to develop statewide estimating equations.

The regression analyses indicated that the independent variables drainage area (A), slope (S), rainfall intensity (I), and a regional factor (Rf) are the most significant for estimating flood peaks on Illinois streams. These

variables result in estimating flood-peak values with a standard error of model ranging from 34.9 to 50.3 percent. One estimating equation for each recurrence interval provides a straightforward technique for describing flood-peak discharges on both small and large streams in Illinois.

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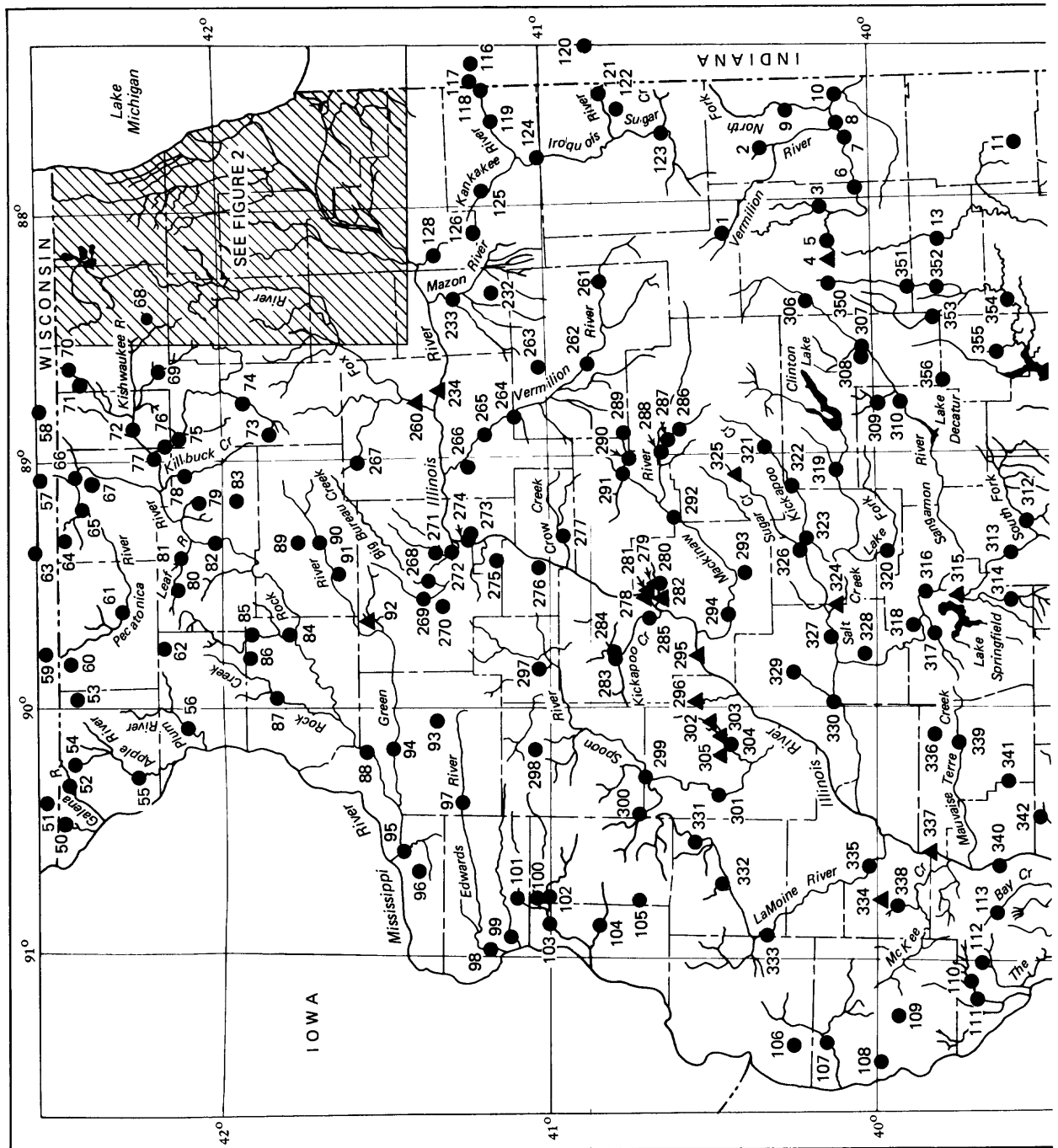
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Figures 1 to 9; Tables 1 to 5

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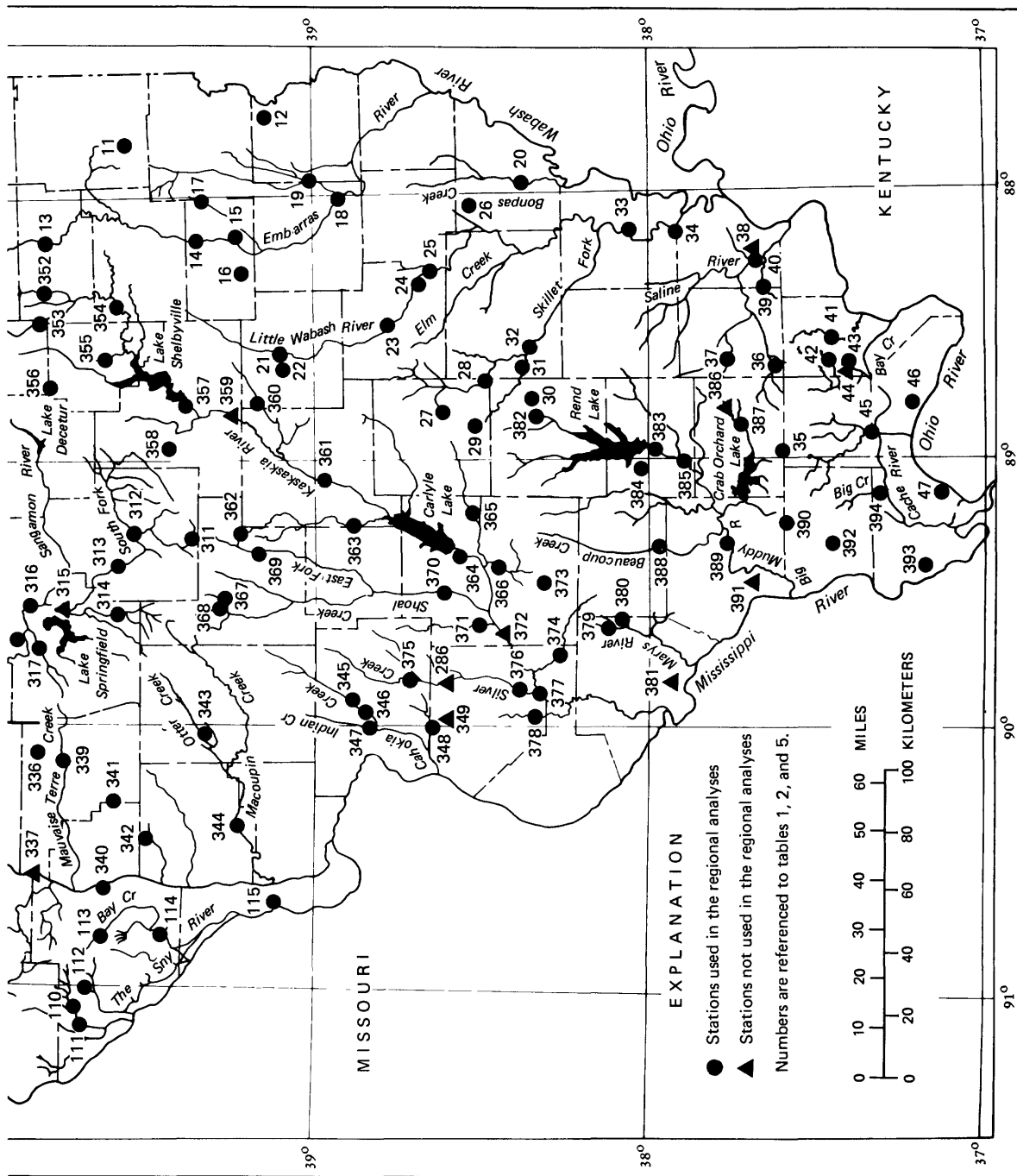


Figure 1.--Streamflow data-collection sites in Illinois, Indiana, and Wisconsin.



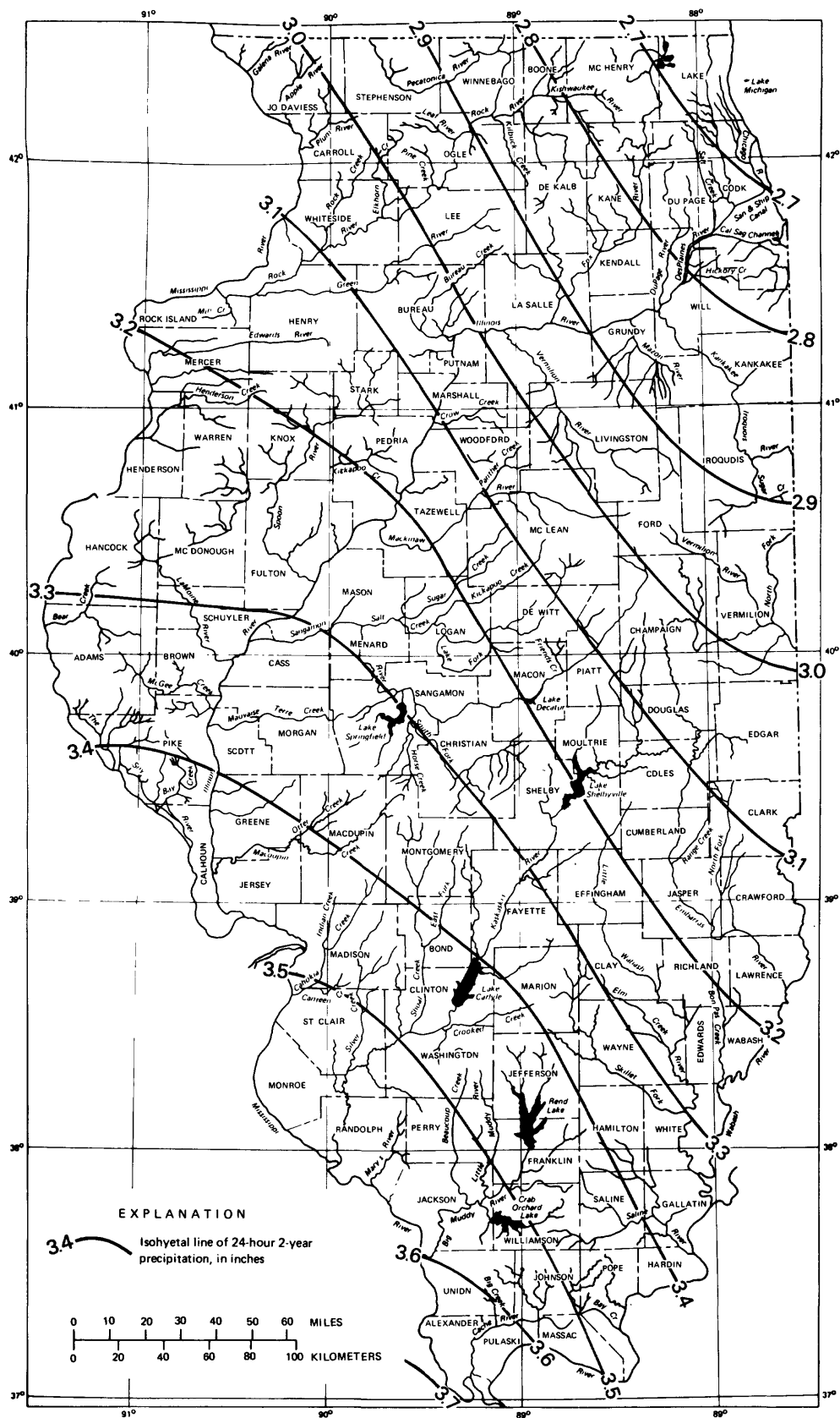


Figure 3.--Distribution of rainfall intensity (24-hour 2-year) I, in inches, in Illinois (modified from Hershfield, 1961).



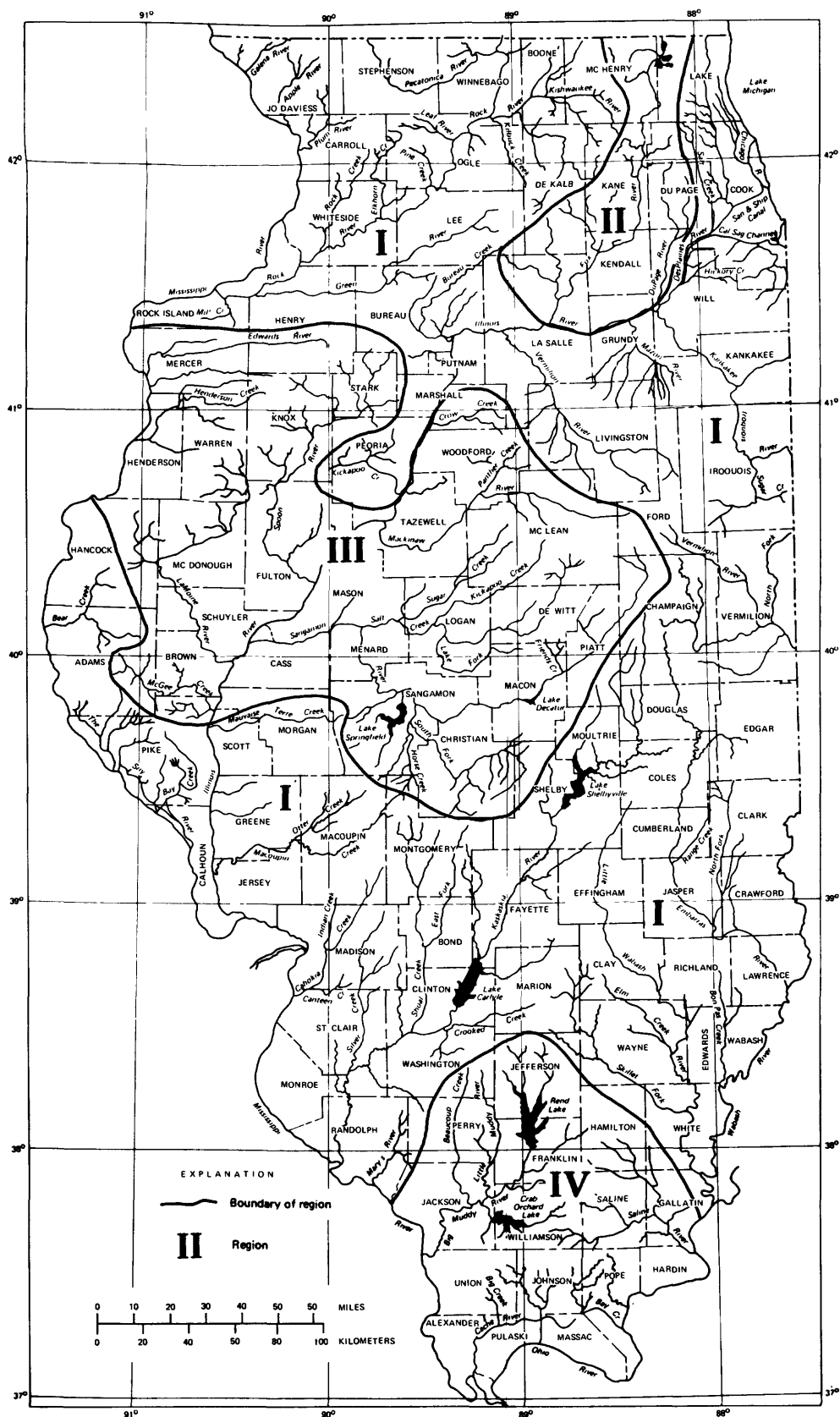


Figure 4.--Geographic regions, R, in Illinois.

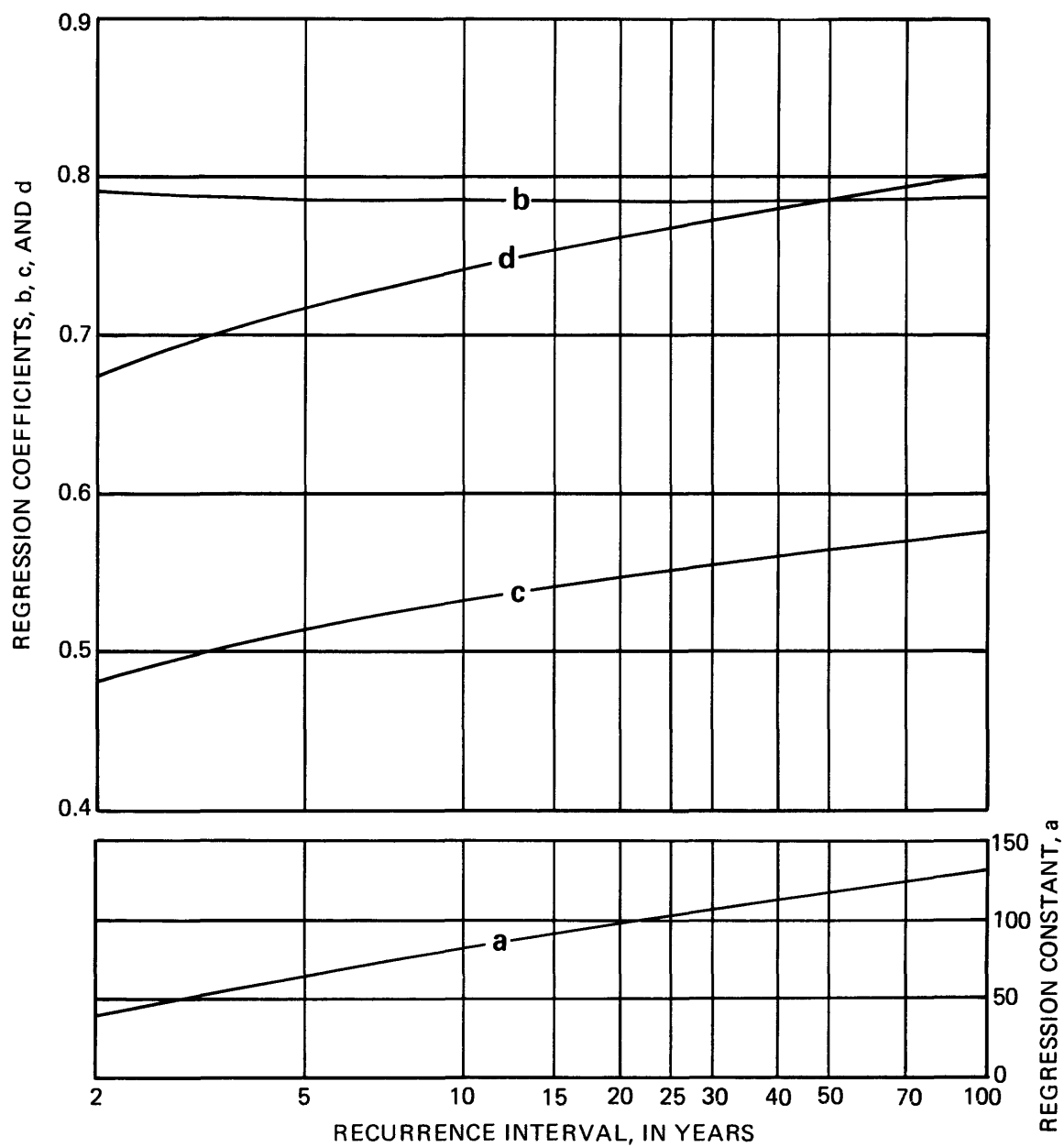


Figure 5.--Regression constant and coefficients for estimating equations,  $Q_T = a A^b S^c (I - 2.5)^d R_f$ .

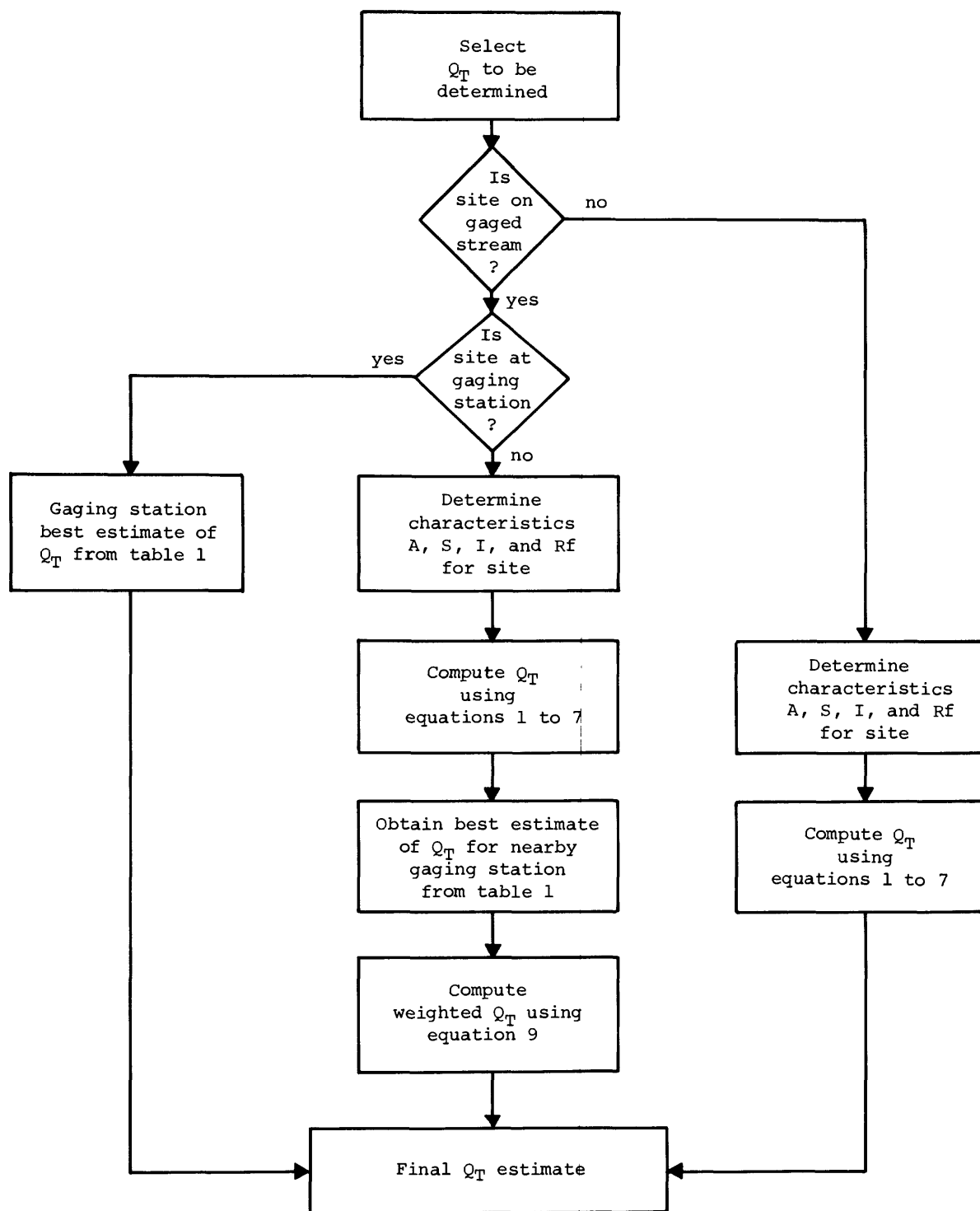


Figure 6.--Flow diagram for determining flood-peak discharge.

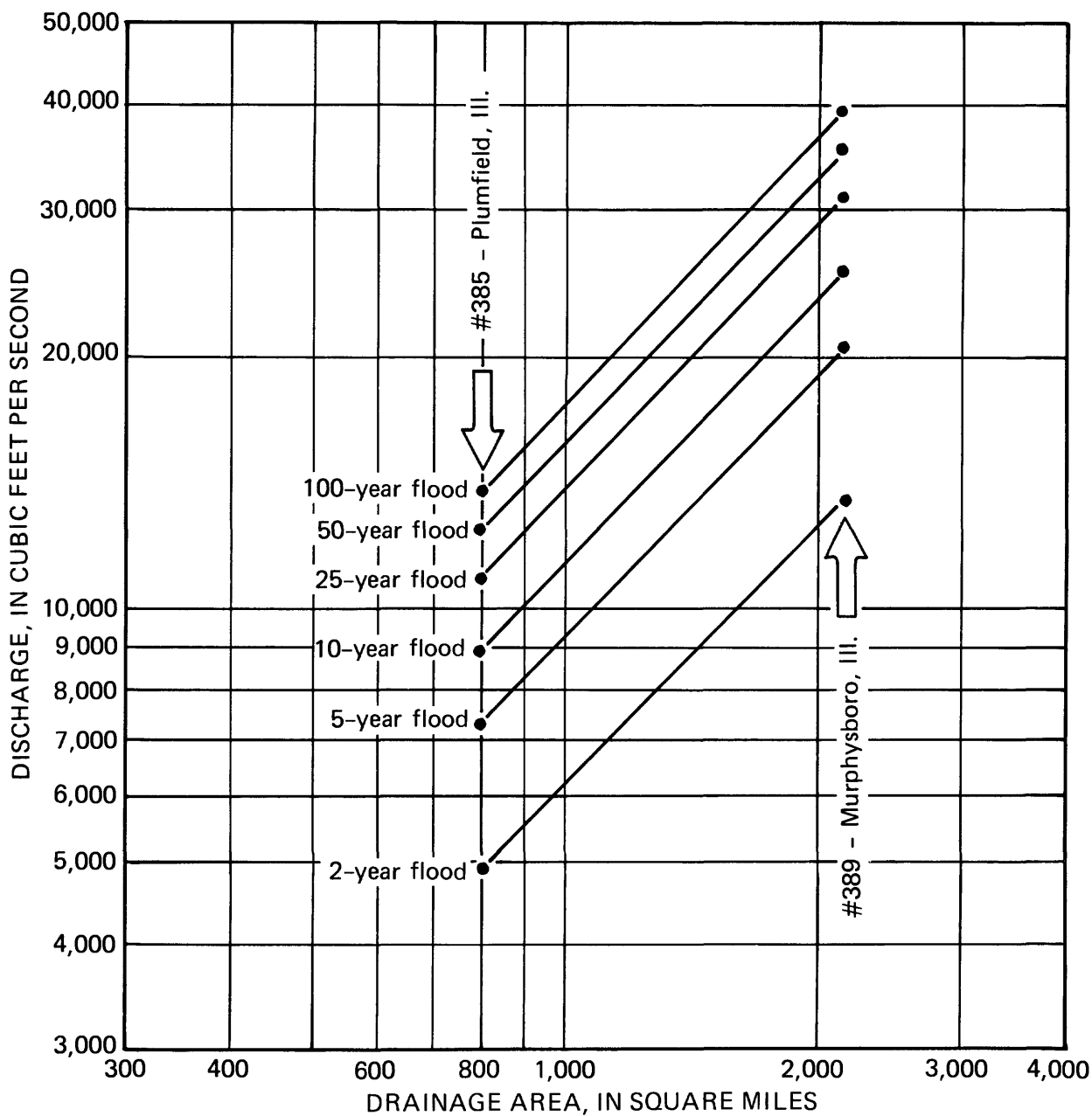


Figure 7.--Relation of flood-peak discharges for selected recurrence intervals to drainage area, Big Muddy River, since 1970.

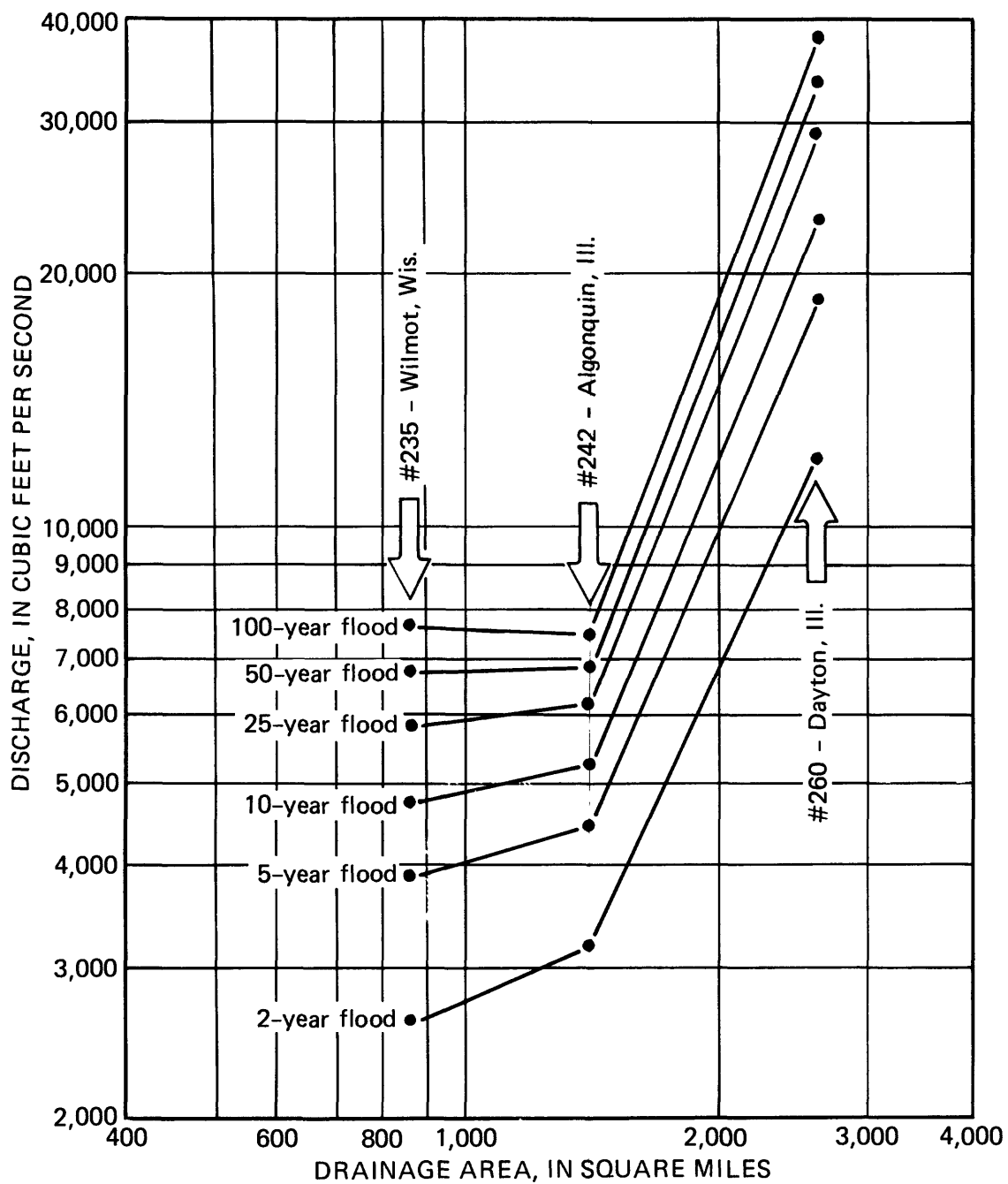


Figure 8.--Relation of flood-peak discharges for selected recurrence intervals to drainage area, Fox River.

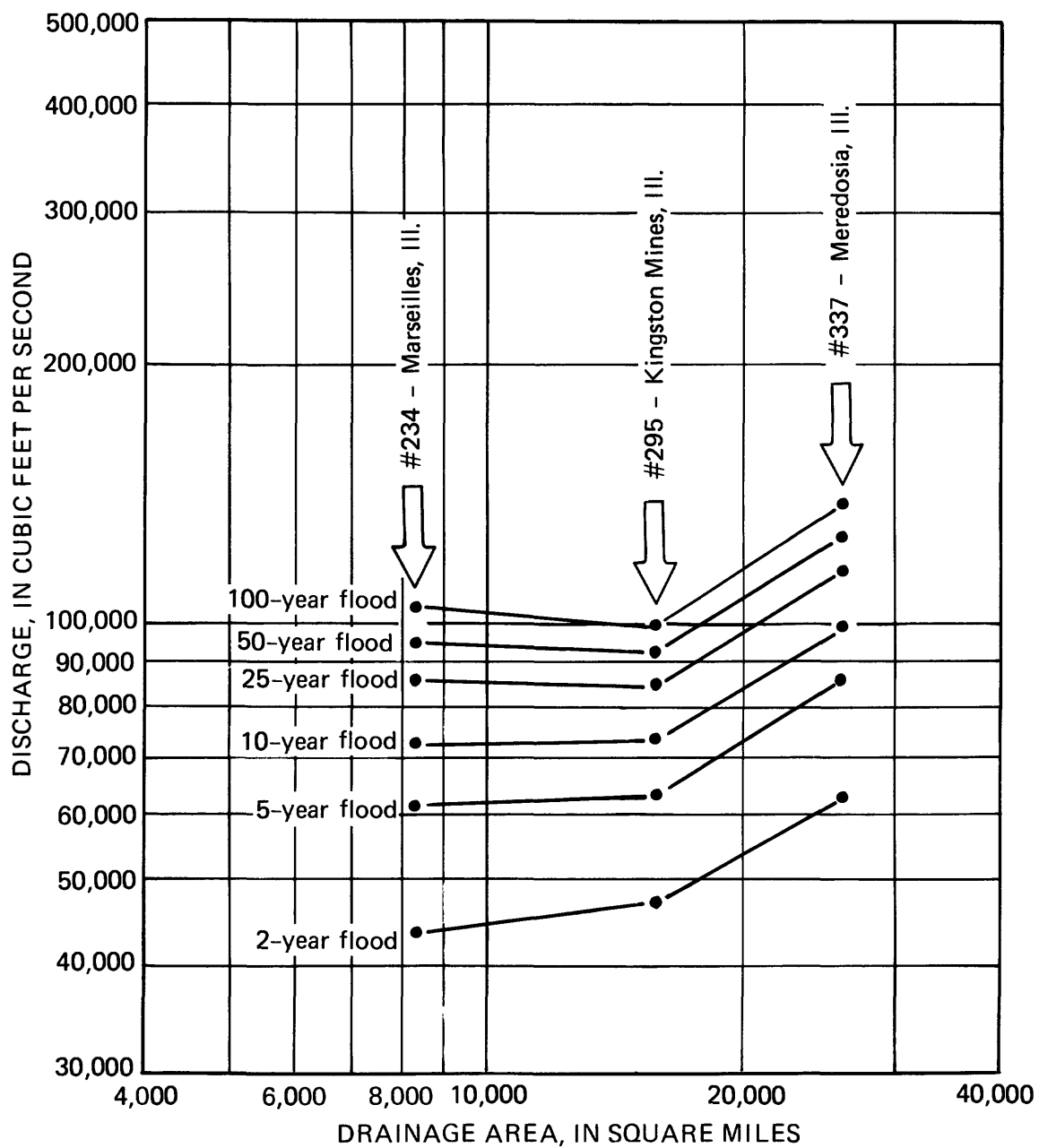


Figure 9.--Relation of flood-peak discharges for selected recurrence intervals to drainage area, Illinois River.

Table 1.--T-year peak discharges at gaging stations

[T, recurrence interval in years;  $Q_T$ , discharge in cubic feet per second for a given recurrence interval of 2-, 5-, 10-, 25-, 50-, or 100-year flood. The upper numbers are values of  $Q_T$  from 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 regression equation curves.

Stations noted by an asterisk (\*) have anomalous characteristics and were omitted from the regional analyses. Dashes indicate that the frequency value is not computed.]

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
1	03336100	Big Four Ditch tributary near Paxton, Ill. Lat 40°27'15", long 88°09'10", in NW 1/4 NW 1/4 sec. 14, T. 23 N., R. 9 E., Ford County.	117 105 115	183 185 183	225 241 228	275 312 281	310 366 320	343 418 356
2	03336500	Bluegrass Creek at Potomac, Ill. Lat 40°19'19", long 87°48'02", in SE 1/4 NE 1/4 sec. 34, T. 22 N., R. 13 W., Vermillion County.	1,850 1,060 1,750	2,870 1,780 2,720	3,560 2,260 3,360	4,450 2,880 4,170	5,110 3,330 4,780	5,750 3,780 5,370
3	03336900	Salt Fork near St. Joseph, Ill. Lat 40°08'55", long 88°02'00", in NW 1/4 SE 1/4 sec. 35, T. 20 N., R. 10 E., Champaign County.	2,490 2,740 2,520	3,710 4,530 3,830	4,570 5,750 4,760	5,710 7,280 6,010	6,620 8,410 6,980	7,530 9,530 7,960
4	*03337000	Boneyard Creek at Urbana, Ill. Lat 40°06'40", long 88°13'35", in NW 1/4 NE 1/4 sec. 18, T. 19 N., R. 9 E., Champaign County.	469 --- ---	580 --- ---	647 --- ---	726 --- ---	780 --- ---	833 --- ---
5	03337500	Saline Branch at Urbana, Ill. Lat 40°07'12", long 88°11'41", in NE 1/4 SW 1/4 sec. 9, T. 19 N., R. 9 E., Champaign County.	1,280 1,120 1,270	2,020 1,810 2,000	2,500 2,260 2,480	3,090 2,820 3,060	3,510 3,230 3,480	3,910 3,620 3,870
6	03338000	Salt Fork near Homer, Ill. Lat 40°03'20", long 87°57'30", in SW 1/4 SW 1/4 sec. 33, T. 19 N., R. 14 W., Champaign County.	3,760 4,290 3,790	5,660 6,920 5,750	6,890 8,670 7,050	8,380 10,900 8,630	9,440 12,400 9,770	10,500 14,000 10,900
7	03338100	Salt Fork tributary near Catlin, Ill. Lat 40°03'55", long 87°46'05", in SE 1/4 NE 1/4 sec. 36, T. 19 N., R. 13 W., Vermillion County.	195 177 193	376 309 366	501 401 483	655 518 628	764 604 731	865 690 828
8	03338500	Vermillion River near Catlin, Ill. Lat 40°06'09", long 87°42'58", in SE 1/4 SE 1/4 sec. 16, T. 19 N., R. 12 W., Vermillion County.	8,470 9,860 8,650	14,500 15,900 14,700	19,000 20,000 19,200	25,300 25,000 25,200	30,400 28,700 30,000	35,800 32,400 34,800
9	03338800	North Fork Vermillion River tributary near Danville, Ill. Lat 40°14'23", long 87°38'40", in NE 1/4 NE 1/4 sec. 36, T. 21 N., R. 12 W., Vermillion County.	290 168 266	537 301 472	740 395 632	1,040 519 859	1,290 612 1,040	1,570 705 1,250

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
10	03339000	Vermilion River near Danville, Ill. Lat 40°06'03", long 87°35'52", in NW¼NW¼ sec.22, T.19 N., R.11 W., Vermilion County.	13,600 12,700 13,600	21,000 20,400 21,000	26,000 25,600 25,900	32,200 32,100 32,200	36,800 36,900 36,800	41,400 41,600 41,400
11	03341700	Big Creek tributary near Dudley, Ill. Lat 39°33'55", long 87°47'25", in SW¼NW¼ sec.19, T.13 N., R.12 W., Edgar County.	182 188 183	292 342 307	376 454 401	492 601 531	587 714 634	689 828 740
12	03341900	Raccoon Creek tributary near Annapolis, Ill. Lat 39°08'36", long 87°41'10", in NE¼NE¼ sec.13, T.8 N., R.12 W., Crawford County.	18 17 18	32 31 32	41 42 41	53 56 54	62 67 63	71 77 72
13	03343400	Embarras River near Camargo, Ill. Lat 39°47'30", long 88°11'10", in NE¼NW¼ sec.3, T.15 N., R.9 E., Douglas County.	3,160 2,990 3,130	4,650 4,880 4,670	5,520 6,140 5,580	6,490 7,710 6,650	7,130 8,870 7,360	7,690 10,000 8,020
14	03344000	Embarras River near Diona, Ill. Lat 39°20'40", long 88°10'15", in NE¼NW¼ sec.2, T.10 N., R.9 E., Cumberland County.	8,990 7,670 8,830	13,600 12,200 13,400	16,800 15,100 16,500	21,000 18,800 20,500	24,200 21,400 23,500	27,400 24,000 26,500
15	03344250	Embarras River tributary near Greenup, Ill. Lat 39°14'00", long 88°09'20", in NW¼SW¼ sec.12, T.9 N., R.9 E., Cumberland County.	23 13 22	38 24 35	49 31 45	63 40 58	75 46 68	87 53 78
16	03344425	Muddy Creek tributary at Woodbury, Ill. Lat 39°11'58", long 88°17'38", in NE¼NW¼ sec.27, T.9 N., R.8 E., Cumberland County.	24 35 26	49 67 54	72 90 77	107 122 112	137 146 140	172 171 172
17	03344500	Range Creek near Casey, Ill. Lat 39°19'36", long 88°01'46", in NE¼SE¼ sec.12, T.10 N., R.10 E., Cumberland County.	902 592 867	1,630 1,040 1,530	2,220 1,360 2,050	3,090 1,770 2,790	3,830 2,080 3,400	4,630 2,400 4,070
18	03345500	Embarras River at Ste. Marie, Ill. Lat 38°56'10", long 88°01'10", in NW¼NW¼ sec.30, T.6 N., R.14 W., Jasper County.	14,000 12,900 13,900	23,400 20,500 23,200	30,300 25,600 30,000	39,400 31,900 38,900	46,700 36,600 45,800	54,100 41,000 53,000
19	03346000	North Fork Embarras River near Oblong, Ill. Lat 39°00'37", long 87°56'47", in NW¼NW¼ sec.35, T.7 N., R.14 W., Crawford County.	7,360 6,070 7,280	12,900 10,100 12,700	16,900 12,800 16,600	22,200 16,300 21,500	26,100 18,900 25,200	30,100 21,500 28,900
20	03378000	Bonpas Creek at Browns, Ill. Lat 38°23'11", long 87°58'32", in NW¼SE¼ sec.33, T.1 S., R.14 W., Wabash County.	2,910 4,180 2,980	4,030 6,890 4,240	4,760 8,730 5,110	5,700 11,000 6,220	6,410 12,800 7,060	7,130 14,500 7,890



Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
21	03378635	Little Wabash River near Effingham, Ill. Lat 39°06'13", long 88°35'33", in NW1/4NW1/4 sec.36, T.8 N., R.5 E., Effingham County.	5,410 5,380 5,400	7,330 8,990 7,620	8,530 11,500 9,100	10,000 14,700 11,000	11,000 17,100 12,400	12,100 19,500 13,700
22	03378650	Second Creek tributary at Keptown, Ill. Lat 39°04'50", long 88°39'55", in NE1/4SW1/4 sec.5, T.7 N., R.5 E., Effingham County.	230 212 226	386 380 385	505 500 504	671 658 667	807 776 796	951 895 931
23	03378900	Little Wabash River at Louisville, Ill. Lat 38°46'23", long 88°29'50", in NW1/4SE1/4 sec.23, T.4 N., R.6 E., Clay County.	11,500 10,300 11,300	17,400 16,900 17,300	21,300 21,300 21,300	26,200 27,000 26,400	29,600 31,200 30,000	33,100 35,300 33,600
24	03378980	Little Wabash River tributary at Clay City, Ill. Lat 38°40'46", long 88°20'53", in NW1/4SW1/4 sec.20, T.3 N., R.8 E., Clay County.	131 129 131	242 240 242	321 324 322	425 435 427	502 521 506	578 608 586
25	03379500	Little Wabash River below Clay City, Ill. Lat 38°38'05", long 88°17'50", in NE1/4SE1/4 sec.3, T.2 N., R.8 E., Clay County.	13,000 12,500 12,900	22,800 20,300 22,600	30,300 25,500 29,900	40,700 32,100 40,000	49,100 36,900 48,000	57,800 41,700 56,200
26	03379650	Madden Creek near West Salem, Ill. Lat 38°32'15", long 88°03'25", in SW1/4NW1/4 sec.12, T.1 N., R.10 E., Edwards County.	413 284 388	664 520 625	855 692 805	1,130 920 1,060	1,350 1,100 1,260	1,580 1,270 1,480
27	03380300	Dums Creek tributary near Iuka, Ill. Lat 38°37'35", long 88°49'20", in NE1/4SW1/4 sec.12, T.2 N., R.3 E., Marion County.	42 46 43	66 89 70	82 122 90	104 165 116	119 200 135	136 235 155
28	03380350	Skillnet Fork near Iuka, Ill. Lat 38°31'10", long 88°43'39", in SE1/4SW1/4 sec.14, T.1 N., R.4 E., Marion County.	5,000 3,850 4,810	9,020 6,340 8,470	12,000 8,020 11,100	16,000 10,100 14,400	19,100 11,700 17,000	22,300 13,300 19,600
29	03380400	Horse Creek tributary near Cartter, Ill. Lat 38°31'10", long 88°51'50", in SW1/4SW1/4 sec.15, T.1 N., R.3 E., Marion County.	222 232 225	366 427 385	472 569 506	615 759 668	729 906 796	847 1,050 927
30	03380450	White Feather Creek near Marlow, Ill. Lat 38°20'40", long 88°46'50", in NW1/4NE1/4 sec.20, T.2 S., R.4 E., Jefferson County.	135 166 140	206 316 224	252 428 282	310 581 357	352 700 413	394 824 469
31	03380475	Horse Creek near Keenes, Ill. Lat 38°22'34", long 88°39'44", in NW1/4SW1/4 sec.4, T.2 S., R.5 E., Wayne County.	3,720 2,740 3,600	5,520 4,610 5,370	6,710 5,900 6,560	8,220 7,530 8,090	9,350 8,770 9,230	10,500 9,980 10,400

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
32	03380500	Skillet Fork at Wayne City, Ill. Lat 38°21'25", long 88°35'00", in SW1/4SW1/4 sec.7, T.2 S., R.6 E., Wayne County.	8,260 6,530 8,180	14,300 10,600 14,000	18,700 13,400 18,300	24,900 16,900 24,200	29,700 19,500 28,700	34,700 22,000 33,300
33	03381500	Little Wabash River at Carmi, Ill. Lat 38°03'40", long 88°09'35", in NW1/4SE1/4 sec.25, T.5 S., R.9 E., White County.	14,500 21,300 14,800	21,700 33,800 22,500	26,900 42,100 28,100	33,800 52,200 35,600	39,200 59,800 41,400	44,800 67,100 47,300
34	03381600	Little Wabash River tributary near New Haven, Ill. Lat 37°55'50", long 88°09'55", in NE1/4SW1/4 sec.12, T.7 S., R.9 E., White County.	89 71 85	157 135 150	211 182 201	289 247 274	353 297 333	423 349 395
35	03382025	Little Saline Creek tributary near Goreville, Ill. Lat 37°36'28", long 88°58'44", in SW1/4NW1/4 sec.34, T.10 S., R.2 E., Williamson County.	273 179 254	356 310 345	408 405 407	471 528 486	516 624 545	561 719 601
36	03382100	South Fork Saline River near Carrier Mills, Ill. Lat 37°38'16", long 88°40'40", in SW1/4NE1/4 sec.20, T.10 S., R.5 E., Saline County.	2,870 3,880 2,990	3,900 5,980 4,200	4,550 7,380 5,000	5,310 9,120 5,980	5,860 10,400 6,680	6,380 11,600 7,360
37	03382170	Brushy Creek near Harco, Ill. Lat 37°46'30", long 88°39'08", in NW1/4NW1/4 sec.3, T.9 S., R.5 E., Saline County.	1,130 895 1,080	1,550 1,440 1,520	1,840 1,810 1,830	2,210 2,270 2,230	2,500 2,620 2,540	2,790 2,960 2,850
38	*03382500	Saline River near Junction, Ill. Lat 37°41'52", long 88°16'00", in NE1/4 sec.36, T.9 S., R.8 E., Gallatin County.	10,900 --- ---	17,300 --- ---	22,200 --- ---	28,900 --- ---	34,200 --- ---	39,900 --- ---
39	03382510	Eagle Creek near Equality, Ill. Lat 37°39'03", long 88°23'28", in NE1/4SE1/4 sec.14, T.10 S., R.7 E., Saline County.	525 899 585	600 1,480 731	638 1,880 828	679 2,400 944	705 2,800 1,020	728 3,190 1,090
40	03382520	Black Branch tributary near Junction, Ill. Lat 37°41'13", long 88°16'55", in NE1/4 sec.2, T.10 S., R.8 E., Gallatin County.	156 187 163	305 313 308	431 399 420	615 511 575	773 593 701	946 676 836
41	03384450	Lusk Creek near Eddyville, Ill. Lat 37°28'20", long 88°32'50", in NW1/4SE1/4 sec.16, T.12 S., R.6 E., Pope County.	5,610 2,790 4,990	8,530 4,520 7,290	10,700 5,710 8,950	13,500 7,240 11,200	15,800 8,410 12,900	18,200 9,550 14,800
42	03385000	Hayes Creek at Glendale, Ill. Lat 37°27'25", long 88°40'05", in SW1/4SW1/4 sec.21, T.12 S., R.5 E., Pope County.	2,240 1,680 2,180	3,720 2,760 3,570	4,860 3,510 4,610	6,470 4,480 6,050	7,780 5,200 7,230	9,200 5,930 8,470

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
43	03385500	Lake Glendale Inlet near Dixon Springs, Ill. Lat 37°24'55", long 88°39'00", in NE 1/4 SW 1/4 sec. 3, T.13 S., R.5 E., Pope County.	582 427 553	935 755 899	1,170 995 1,140	1,470 1,320 1,440	1,690 1,570 1,670	1,910 1,830 1,890
44	*03386500	Sugar Creek near Dixon Springs, Ill. Lat 37°24'56", long 88°40'25", in NW 1/4 SW 1/4 sec. 4, T.13 S., R.5 E., Pope County.	1,440 --- ---	1,890 --- ---	2,200 --- ---	2,600 --- ---	2,910 --- ---	3,220 --- ---
45	03612000	Cache River at Forman, Ill. Lat 37°20'11", long 88°55'26", in NE 1/4 NW 1/4 sec. 6, T.14 S., R.3 E., Johnson County.	3,820 4,630 3,850	6,250 7,050 6,300	7,940 8,590 7,980	10,100 10,500 10,100	11,700 11,900 11,700	13,400 13,300 13,400
46	03612200	Q ditch tributary near Choat, Ill. Lat 37°13'10", long 88°48'00", in NW 1/4 NW 1/4 sec. 17, T.15 S., R.4 E., Massac County.	137 144 138	225 256 233	292 337 304	385 446 402	459 531 480	538 617 560
47	03614000	Hess Bayou tributary near Mound City, Ill. Lat 37°08'11", long 89°08'31", in NE 1/4 SE 1/4 sec. 7, T.16 S., R.1 E., Pulaski County.	454 312 418	597 520 573	690 665 681	804 851 820	887 991 925	968 1,130 1,030
48	04087300	Lake Michigan tributary at Winthrop Harbor, Ill. Lat 42°29'10", long 87°49'20", in SW 1/4 SW 1/4 sec. 3, T.46 N., R.12 E., Lake County.	80 102 83	147 176 153	202 227 208	284 290 286	356 337 350	437 383 419
49	04087400	Kellogg Ravine at Zion, Ill. Lat 42°28'02", long 87°49'29", in SW 1/4 NW 1/4 sec. 15, T.46 N., R.12 E., Lake County.	233 134 216	409 219 361	552 275 467	762 343 611	940 391 726	1,140 437 849
50	05414820	Sinsinawa River near Menominee, Ill. Lat 42°28'44", long 90°29'10", in SE 1/4 SE 1/4 sec. 28, T.29 N., R.1 W., Jo Daviess County.	2,990 1,900 2,770	5,700 3,280 5,010	8,000 4,270 6,750	11,500 5,530 9,230	14,500 6,500 11,300	17,800 7,450 13,500
51	05415000	Galena River at Buncombe, Wis. Lat 42°30'49", long 90°22'40", in SW 1/4 sec. 33, T.1 N., R.1 E., Lafayette County.	4,730 3,670 4,660	7,710 6,220 7,500	10,200 8,000 9,770	13,800 10,300 13,100	17,000 12,000 15,900	20,700 13,700 19,100
52	05415500	East Fork Galena River at Council Hill, Ill. Lat 42°28'05", long 90°20'20", in SW 1/4 NW 1/4 sec. 31, T.29 N., R.2 E., Jo Daviess County.	1,980 1,540 1,920	4,170 2,730 3,880	6,180 3,590 5,560	9,440 4,730 8,130	12,400 5,600 10,400	16,000 6,470 13,000
53	05418750	South Fork Apple River near Nora, Ill. Lat 42°25'35", long 89°57'50", in NW 1/4 NW 1/4 sec. 17, T.28 N., R.5 E., Jo Daviess County.	208 235 213	362 421 372	469 553 485	604 726 630	701 857 736	798 989 839

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
54	05418800	Mill Creek tributary near Scales Mound, Ill. Lat 42°27'10", long 90°15'10", near center of sec.2, T.28 N., R.2 E., Jo Daviess County.	255 255 255	434 482 445	564 652 585	736 881 773	869 1,060 916	1,000 1,240 1,060
55	05419000	Apple River near Hanover, Ill. Lat 42°15'05", long 90°17'10", in NE1/4NW1/4 sec.16, T.26 N., R.2 E., Jo Daviess County.	5,260 6,180 5,310	7,780 10,400 7,980	9,530 13,400 9,860	11,700 17,200 12,300	13,500 20,100 14,100	15,100 23,000 16,000
56	05420000	Plum River below Carroll Creek near Savanna, Ill. Lat 42°06'50", long 90°05'35", in NW1/4SW1/4 sec.31, T.25 N., R.4 E., Carroll County.	3,530 4,570 3,610	5,930 7,590 6,100	7,710 9,660 7,930	10,100 12,300 10,400	12,000 14,200 12,300	13,900 16,100 14,300
57	05430500	Rock River at Afton, Wis. Lat 42°36'33", long 89°04'14", in NE1/4 sec.28, T.2 N., R.12 E., Rock County.	6,410 9,380 6,490	8,970 14,000 9,120	10,500 16,900 10,800	12,400 20,400 12,700	13,600 22,800 14,100	14,900 24,900 15,300
58	05431500	Turtle Creek near Clinton, Wis. Lat 42°35'47", long 88°51'50", in SE1/4 sec.29, T.2 N., R.14 E., Rock County.	2,070 1,900 2,060	4,110 3,000 4,020	5,780 3,710 5,560	8,180 4,570 7,710	10,200 5,190 9,420	12,300 5,770 11,200
59	05434500	Pecatonica River at Martintown, Wis. Lat 42°30'34", long 89°47'58", in SE1/4 sec.32, T.1 N., R.6 E., Green County.	5,700 7,740 5,790	9,080 12,200 9,290	11,500 15,200 11,800	14,700 18,700 15,100	17,200 21,400 17,600	19,700 23,900 20,200
60	05435000	Cedar Creek near Winslow, Ill. Lat 42°28'00", long 89°50'02", in SE1/4NE1/4 sec.32, T.29 N., R.6 E., Stephenson County.	105 186 114	293 335 299	478 442 471	773 582 731	1,040 689 953	1,330 794 1,190
61	05435500	Pecatonica River at Freeport, Ill. Lat 42°18'13", long 89°36'57", in SE1/4 sec.30, T.27 N., R.8 E., Stephenson County.	5,730 9,290 5,820	9,250 14,600 9,460	11,900 18,100 12,200	15,400 22,400 15,800	18,200 25,500 18,700	21,200 28,500 21,800
62	05435650	Lost Creek tributary near Shannon, Ill. Lat 42°10'10", long 89°44'45", in SE1/4SE1/4 sec.12, T.25 N., R.6 E., Carroll County.	285 217 270	402 386 398	478 506 485	571 662 597	638 780 681	705 897 762
63	05436500	Sugar River near Brodhead, Wis. Lat 42°36'42", long 89°23'53", in SW1/4 sec.26, T.2 N., R.9 E., Rock County.	3,520 5,310 3,580	6,440 8,510 6,530	8,670 10,600 8,770	11,800 13,200 11,900	14,200 15,100 14,300	16,800 17,000 16,800
64	05436900	Otter Creek tributary near Durand, Ill. Lat 42°28'10", long 89°19'25", in SE1/4NE1/4 sec.34, T.29 N., R.10 E., Winnebago County.	51 122 60	97 225 119	136 300 168	193 400 238	243 476 296	296 553 358

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
65	05437000	Pecatonica River at Shirland, Ill. Lat 42°26'10", long 89°11'50", in SW1/4 sec.11, T.28 N., R.11 E., Winnebago County.	8,410 10,200 8,510	12,300 15,600 12,500	14,800 19,100 15,100	17,700 23,200 18,300	19,900 26,100 20,500	21,900 28,800 22,600
66	05437500	Rock River at Rockton, Ill. Lat 42°26'55", long 89°04'11", in SW1/4NE1/4 sec.24, T.46 N., R.1 E., Winnebago County.	14,700 12,600 14,600	21,200 18,600 21,000	25,200 22,200 25,100	30,200 26,500 29,900	33,700 29,400 33,300	37,000 32,200 36,600
67	05437600	Rock River tributary near Rockton, Ill. Lat 42°23'00", long 89°05'50", in SE1/4SE1/4 sec.10, T.45 N., R.1 E., Winnebago County.	146 197 154	259 347 274	337 452 359	433 587 466	502 689 543	568 789 619
68	05437950	Kishwaukee River near Huntley, Ill. Lat 42°13'47", long 88°25'21", in SE1/4SW1/4 sec.4, T.43 N., R.7 E., McHenry County.	128 292 146	158 473 193	175 592 224	193 735 263	205 838 290	215 935 314
69	05438250	Coon Creek at Riley, Ill. Lat 42°10'58", long 88°38'28", in SE1/4SW1/4 sec.22, T.43 N., R.5 E., McHenry County.	1,260 1,380 1,270	2,260 2,240 2,260	2,940 2,820 2,920	3,780 3,520 3,740	4,390 4,040 4,330	4,950 4,530 4,880
70	05438300	Lawrence Creek tributary near Harvard, Ill. Lat 42°27'30", long 88°36'10", in SE1/4SW1/4 sec.13, T.46 N., R.5 E., McHenry County.	78 133 85	130 242 148	167 319 195	216 422 256	254 499 303	292 577 350
71	05438390	Piscasaw Creek below Mokeler Creek near Capron, Ill. Lat 42°23'08", long 88°41'49", in NE1/4NW1/4 sec.18, T.45 N., R.5 E., McHenry County.	1,790 1,690 1,770	2,540 2,790 2,610	3,030 3,520 3,190	3,660 4,440 3,940	4,140 5,110 4,510	4,610 5,750 5,060
72	05438500	Kishwaukee River at Belvidere, Ill. Lat 42°15'22", long 88°51'50", in SE1/4SE1/4 sec.27, T.44 N., R.3 E., Boone County.	3,720 5,330 3,780	6,530 8,530 6,650	8,570 10,700 8,730	11,300 13,300 11,500	13,400 15,200 13,600	15,500 17,000 15,600
73	05438850	Middle Branch of South Branch Kishwaukee River near Malta, Ill. Lat 41°51'20", long 88°53'10", in NE1/4SE1/4 sec.16, T.39 N., R.3 E., De Kalb County.	146 163 148	232 288 241	292 376 305	366 488 388	422 573 450	476 656 511
74	05439000	South Branch Kishwaukee River at De Kalb, Ill. Lat 41°55'53", long 88°45'35", in SW1/4NE1/4 sec.22, T.40 N., R.4 E., De Kalb County.	794 1,080 834	1,320 1,730 1,410	1,730 2,160 1,850	2,330 2,670 2,440	2,840 3,050 2,910	3,400 3,400 3,400
75	05439500	South Branch Kishwaukee River near Fairdale, Ill. Lat 42°06'40", long 88°54'00", in SW1/4SW1/4 sec.16, T.42 N., R.3 E., De Kalb County.	3,930 2,930 3,870	6,070 4,590 5,980	7,350 5,660 7,230	8,790 6,950 8,650	9,730 7,870 9,570	10,600 8,750 10,400

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
76	05439550	South Branch Kishwaukee River tributary near Irene, Ill. Lat 42°10'38", long 88°56'50", in SW1/4NE1/4 sec.25, T.43 N., R.2 E., Winnebago County.	81 185 93	191 329 213	289 432 317	441 564 469	570 662 593	714 762 726
77	05440000	Kishwaukee River near Perryville, Ill. Lat 42°11'45", long 88°59'55", in NE1/4NE1/4 sec.21, T.43 N., R.2 E., Winnebago County.	7,190 8,850 7,280	11,900 14,100 12,100	15,100 17,500 15,200	18,900 21,800 19,100	21,600 24,900 21,900	24,200 27,900 24,500
78	05440500	Killbuck Creek near Monroe Center, Ill. Lat 42°05'55", long 89°03'10", in NW1/4SW1/4 sec.19, T.42 N., R.2 E., Ogle County.	2,420 2,270 2,400	4,320 3,740 4,270	5,560 4,730 5,480	7,030 5,970 6,920	8,040 6,890 7,910	8,950 7,780 8,830
79	05440650	Stillman Creek tributary near Holcomb, Ill. Lat 42°03'48", long 89°08'36", in NE1/4NW1/4 sec.5, T.41 N., R.1 E., Ogle County.	81 117 86	143 207 155	191 271 208	256 353 280	309 415 336	363 476 393
80	05440900	Leaf River tributary near Forreston, Ill. Lat 42°07'40", long 89°31'20", in NE1/4NW1/4 sec.36, T.25 N., R.8 E., Ogle County.	55 62 56	104 116 106	145 157 148	207 213 208	262 255 260	324 299 316
81	05441000	Leaf River at Leaf River, Ill. Lat 42°07'40", long 89°23'25", in NW1/4 sec.31, T.25 N., R.10 E., Ogle County.	2,810 2,610 2,790	5,210 4,370 5,140	6,950 5,580 6,820	9,200 7,130 8,970	10,900 8,260 10,600	12,500 9,400 12,100
82	05441500	Rock River at Oregon, Ill. Lat 42°01'00", long 89°19'44", in SE1/4NW1/4 sec.3, T.23 N., R.10 E., Ogle County.	21,500 21,500 21,500	33,000 32,400 32,800	40,900 39,200 40,500	51,400 47,300 50,100	59,300 53,100 57,300	67,500 58,500 64,300
83	05442000	Kyte River near Flagg Center, Ill. Lat 41°56'15", long 89°09'22", in NW1/4SE1/4 sec.18, T.40 N., R.1 E., Ogle County.	1,260 2,040 1,370	1,740 3,340 2,050	2,050 4,220 2,520	2,440 5,300 3,130	2,730 6,100 3,580	3,010 6,870 4,020
84	05443500	Rock River at Como, Ill. Lat 41°47'00", long 89°44'58", in NE1/4NE1/4 sec.25, T.21 N., R.6 E., Whiteside County.	24,700 23,200 24,600	35,600 34,900 35,600	42,200 42,400 42,200	49,500 51,300 49,500	54,300 57,500 54,600	58,700 63,400 59,000
85	05444000	Elkhorn Creek near Penrose, Ill. Lat 41°54'10", long 89°41'40", in SW1/4SE1/4 sec.9, T.22 N., R.7 E., Whiteside County.	3,050 2,600 3,020	4,540 4,270 4,520	5,450 5,380 5,450	6,500 6,790 6,520	7,210 7,820 7,260	7,850 8,830 7,960
86	05444100	Spring Creek tributary near Coleta, Ill. Lat 41°50'40", long 89°47'39", in SE1/4SW1/4 sec.34, T.22 N., R.6 E., Whiteside County.	274 239 265	481 436 468	630 578 614	822 767 805	968 912 951	1,110 1,060 1,100

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
87	05446000	Rock Creek at Morrison, Ill. Lat 41°47'50", long 89°58'20", in NE1/4NW1/4 sec.19, T.21 N., R.5 E., Whiteside County.	2,050 2,580 2,080	2,900 4,210 3,010	3,480 5,280 3,670	4,240 6,640 4,530	4,810 7,620 5,180	5,400 8,590 5,820
88	05446500	Rock River near Joslin, Ill. Lat 41°33'35", long 90°10'55", in NE1/4 sec.18, T.18 N., R.3 E., Rock Island County.	22,900 31,800 23,300	33,400 48,500 34,100	39,900 59,300 41,000	47,600 72,400 49,200	53,000 81,800 55,100	58,100 91,000 60,500
89	05446950	Green River tributary near Amboy, Ill. Lat 41°45'30", long 89°20'10", in SE1/4SW1/4 sec.34, T.21 N., R.10 E., Lee County.	88 130 95	200 242 211	308 323 313	488 432 467	658 515 603	861 600 755
90	05447000	Green River at Amboy, Ill. Lat 41°42'35", long 89°19'28", in SE1/4NE1/4 sec.22, T.20 N., R.10 E., Lee County.	2,860 2,740 2,850	4,340 4,430 4,350	5,220 5,550 5,250	6,210 6,930 6,270	6,850 7,940 6,950	7,450 8,930 7,590
91	05447050	Green River tributary No. 2 near Ohio, Ill. Lat 41°39'13", long 89°27'21", in NW1/4 sec.10, T.19 N., R.9 E., Lee County.	146 385 178	233 675 314	297 879 419	384 1,140 560	452 1,340 667	524 1,540 776
92	*05447200	Normandy Ditch at Normandy, Ill. Lat 41°33'50", long 89°39'20", in SW1/4NE1/4 sec.11, T.18 N., R.7 E., Bureau County.	47 --- ---	72 --- ---	89 --- ---	109 --- ---	123 --- ---	136 --- ---
93	05447350	Mud Creek tributary near Atkinson, Ill. Lat 41°20'42", long 90°02'38", in NE1/4SW1/4 sec.28, T.16 N., R.4 E., Henry County.	190 178 187	329 321 326	442 424 436	611 557 590	755 659 716	918 762 851
94	05447500	Green River near Geneseo, Ill. Lat 41°29'20", long 90°09'30", in NE1/4SW1/4 sec.4, T.17 N., R.3 E., Henry County.	5,890 9,250 6,040	8,240 14,800 8,510	9,570 18,500 10,000	11,100 23,100 11,700	12,000 26,400 12,800	12,900 29,700 13,900
95	05448000	Mill Creek at Milan, Ill. Lat 41°26'32", long 90°33'21", in NW1/4NE1/4 sec.25, T.17 N., R.2 W., Rock Island County.	2,780 2,180 2,740	5,040 3,710 4,910	6,670 4,760 6,470	8,790 6,120 8,470	10,400 7,140 9,980	12,000 8,150 11,500
96	05448050	Sand Creek near Milan, Ill. Lat 41°24'05", long 90°36'20", in SE1/4SE1/4 sec.4, T.16 N., R.2 W., Rock Island County.	36 72 40	79 136 89	120 182 132	186 244 199	247 292 258	317 340 323
97	05466000	Edwards River near Orion, Ill. Lat 41°16'20", long 90°22'40", in NE1/4SE1/4 sec.21, T.15 N., R.1 E., Henry County.	3,370 2,830 3,330	4,760 4,850 4,780	5,560 6,310 5,610	6,430 8,200 6,560	6,980 9,660 7,190	7,480 11,100 7,780

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
98	05466500	Edwards River near New Boston, Ill. Lat 41°11'15", long 90°58'05", at quarter corner between secs.21 and 28, T.14 N., R.5 W., Mercer County.	4,060 4,800 4,090	6,370 8,040 6,460	7,910 10,300 8,070	9,820 13,200 10,100	11,200 15,500 11,600	12,600 17,700 13,000
99	05467000	Pope Creek near Keithsburg, Ill. Lat 41°07'42", long 90°55'10", in SE1/4SE1/4 sec.11, T.13 N., R.5 W., Mercer County.	2,310 2,620 2,320	3,680 4,460 3,740	4,670 5,750 4,750	5,940 7,430 6,080	6,930 8,690 7,110	7,940 9,950 8,150
100	05467500	Henderson Creek near Little York, Ill. Lat 41°02'35", long 90°44'45", between secs.8 and 9, T.12 N., R.3 W., Warren County.	2,290 2,540 2,310	4,100 4,330 4,130	5,690 5,610 5,680	8,170 7,260 8,000	10,400 8,530 10,000	13,000 9,770 12,300
101	05468000	North Henderson Creek near Seaton, Ill. Lat 41°05'25", long 90°46'25", near center of sec.30, T.13 N., R.3 W., Mercer County.	1,100 1,450 1,170	1,440 2,500 1,630	1,620 3,250 1,940	1,820 4,230 2,320	1,950 4,970 2,590	2,070 5,710 2,840
102	05468500	Cedar Creek at Little York, Ill. Lat 41°00'50", long 90°44'45", between secs.20 and 21, T.12 N., R.3 W., Warren County.	2,290 2,320 2,300	4,540 3,970 4,490	6,380 5,150 6,250	9,080 6,680 8,770	11,300 7,850 10,800	13,700 9,020 13,000
103	05469000	Henderson Creek near Oquawka, Ill. Lat 41°00'05", long 90°51'15", in NE1/4SW1/4 sec.28, T.12 N., R.4 W., Henderson County.	4,840 5,650 4,880	8,200 9,570 8,320	10,900 12,400 11,100	15,000 16,000 15,100	18,400 18,800 18,500	22,300 21,600 22,200
104	05469500	South Henderson Creek at Biggsville, Ill. Lat 40°51'25", long 90°51'50", between secs.16 and 17, T.10 N., R.4 W., Henderson County.	1,770 1,890 1,780	3,220 3,270 3,230	4,520 4,270 4,480	6,580 5,570 6,380	8,470 6,560 8,050	10,700 7,570 10,000
105	05469750	Ellison Creek tributary near Roseville, Ill. Lat 40°44'00", long 90°45'35", near quarter section corner between secs.29 and 32, T.9 N., R.3 W., Warren County.	54 42 52	93 78 90	119 105 117	152 141 150	177 169 175	200 198 200
106	05495200	Little Creek near Breckenridge, Ill. Lat 40°15'00", long 91°19'15", in E1/2 sec.16, T.3 N., R.8 W., Hancock County.	395 255 370	743 466 684	1,010 619 916	1,360 822 1,220	1,640 979 1,460	1,920 1,140 1,710
107	05495500	Bear Creek near Marcelline, Ill. Lat 40°08'34", long 91°20'14", between secs.20 and 21, T.2 N., R.8 W., Adams County.	8,970 6,640 8,790	14,700 11,000 14,400	18,700 14,000 18,200	23,700 17,800 23,000	27,400 20,700 26,500	31,000 23,500 30,000
108	05496900	Homan Creek tributary near Quincy, Ill. Lat 39°58'45", long 91°22'40", in SW1/4 sec.18, T.1 S., R.8 W., Adams County.	251 188 238	465 359 441	619 488 587	820 662 780	971 798 925	1,120 940 1,070



Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
109	05501500	Burton Creek tributary near Burton, Ill. Lat 39°56'00", long 91°13'15", in SW1/4SW1/4 sec.33, T.1 S., R.7 W., Adams County.	163 115 151	344 217 304	495 293 426	716 395 596	897 475 733	1,090 557 879
110	05502020	Hadley Creek near Barry, Ill. Lat 39°42'48", long 91°03'56", in SW1/4SW1/4 sec.14, T.4 S., R.6 W., Pike County.	4,550 2,960 4,330	6,710 5,260 6,500	8,090 6,920 7,910	9,710 9,140 9,620	10,800 10,800 10,800	11,900 12,600 12,100
111	05502040	Hadley Creek at Kinderhook, Ill. Lat 39°41'35", long 91°08'55", in SE1/4NE1/4 sec.25, T.4 S., R.7 W., Pike County.	6,440 4,080 6,220	10,500 7,180 10,100	13,100 9,400 12,700	16,300 12,300 15,800	18,600 14,600 18,100	20,700 16,900 20,200
112	05502120	Kiser Creek tributary near Barry, Ill. Lat 39°41'05", long 91°00'00", in SW1/4SE1/4 sec.29, T.4 S., R.5 W., Pike County.	371 252 348	638 476 600	843 644 791	1,130 873 1,060	1,360 1,050 1,270	1,610 1,240 1,500
113	05512500	Bay Creek at Pittsfield, Ill. Lat 39°37'30", long 90°47'40", in NE1/4SW1/4 sec.18, T.5 S., R.3 W., Pike County.	4,820 2,190 4,540	8,410 3,820 7,870	10,900 4,980 10,100	14,100 6,500 13,000	16,400 7,660 15,100	18,700 8,810 17,200
114	05513000	Bay Creek at Nebo, Ill. Lat 39°26'35", long 90°45'45", in NW1/4NW1/4 sec.19, T.7 S., R.3 W., Pike County.	6,980 5,310 6,840	11,900 9,080 11,700	15,300 11,700 15,000	19,600 15,100 19,100	22,800 17,700 22,200	25,900 20,300 25,200
115	05513200	Salt Spring Creek near Gilead, Ill. Lat 39°07'00", long 90°39'50", in SW1/4 sec.8, T.11 S., R.2 W., Calhoun County.	275 470 303	511 904 592	706 1,240 828	998 1,690 1,170	1,250 2,060 1,450	1,520 2,440 1,760
116	05518000	Kankakee River at Shelby, Ind. Lat 41°10'58", long 87°20'33", in SW1/4NE1/4 sec.33, T.32 N., R.8 W., Lake County.	4,240 5,040 4,260	5,140 7,550 5,220	5,650 9,100 5,780	6,210 10,900 6,410	6,580 12,200 6,840	6,900 13,400 7,230
117	05519500	West Creek near Schneider, Ind. Lat 41°12'52", long 87°29'36", in NW1/4NE1/4 sec.19, T.32 N., R.9 W., Lake County.	957 628 918	1,380 993 1,320	1,640 1,220 1,570	1,940 1,500 1,870	2,150 1,700 2,070	2,360 1,890 2,260
118	05520000	Singleton Ditch at Illinois, Ill. Lat 41°11'20", long 87°31'35", in SW1/4NW1/4 sec.8, T.31 N., R.15 E., Kankakee County.	1,720 2,710 1,790	2,120 4,370 2,280	2,350 5,450 2,580	2,600 6,790 2,940	2,770 7,760 3,180	2,920 8,690 3,420
119	05520500	Kankakee River at Momence, Ill. Lat 41°09'36", long 87°40'07", in SW1/4NE1/4 sec.24, T.31 N., R.13 E., Kankakee County.	6,470 7,130 6,500	8,590 10,800 8,670	9,820 13,000 9,930	11,200 15,700 11,400	12,200 17,600 12,400	13,000 19,400 13,300

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
120	05524500	Iroquois River near Foresman, Ind. Lat 40°52'14", long 87°18'24", in NE¼/4SE¼/4 sec.15, T.28 N., R.8 W., Newton County.	2,770 3,440 2,810	3,680 5,400 3,810	4,250 6,670 4,460	4,920 8,200 5,250	5,400 9,290 5,810	5,860 10,400 6,350
121	05525000	Iroquois River at Iroquois, Ill. Lat 40°49'25", long 87°34'55", in NE¼/4SE¼/4 sec.15, T.27 N., R.11 W., Iroquois County.	3,720 3,960 3,730	5,280 6,140 5,350	6,310 7,500 6,400	7,570 9,160 7,730	8,490 10,300 8,690	9,420 11,400 9,640
122	05525050	Eastburn Hollow near Sheldon, Ill. Lat 40°46'30", long 87°38'40", in NE¼/4NW¼/4 sec.6, T.26 N., R.11 W., Iroquois County.	240 377 258	521 632 545	783 805 789	1,210 1,020 1,150	1,600 1,180 1,460	2,060 1,330 1,790
123	05525500	Sugar Creek at Milford, Ill. Lat 40°37'50", long 87°43'25", in NW¼/4NE¼/4 sec.16, T.25 N., R.12 W., Iroquois County.	6,550 5,740 6,490	11,000 9,330 10,800	14,300 11,700 14,000	18,700 14,800 18,100	22,100 17,000 21,300	25,700 19,100 24,600
124	05526000	Iroquois River near Chebanse, Ill. Lat 41°00'32", long 87°49'27", in SE¼/4SW¼/4 sec.10, T.29 N., R.13 W., Kankakee County.	12,800 7,600 12,600	18,500 11,500 18,100	22,200 14,000 21,700	26,800 16,900 26,000	30,100 19,000 29,100	33,300 20,900 32,100
125	05526150	Kankakee River tributary near Bourbonnais, Ill. Lat 41°11'35", long 87°57'00", in SW¼/4 sec.3, T.31 N., R.11 E., Kankakee County.	33 33 33	82 60 78	132 79 119	215 103 182	294 121 238	388 139 303
126	05526500	Terry Creek near Ouster Park, Ill. Lat 41°14'00", long 88°05'55", near southwest corner of SE¼/4 sec.20, T.32 N., R.10 E., Will County.	158 512 179	292 869 361	413 1,110 521	607 1,430 764	785 1,650 968	995 1,880 1,200
127	05527050	Prairie Creek near Frankfort, Ill. Lat 41°26'12", long 87°50'42", in NW¼/4 sec.15, T.34 N., R.12 E., Will County.	90 76 87	168 134 158	238 173 215	348 223 299	447 261 369	562 297 447
128	05527500	Kankakee River near Wilmington, Ill. Lat 41°20'48", long 88°11'11", in NW¼/4NW¼/4 sec.15, T.33 N., R.9 E., Will County.	23,300 17,100 23,100	35,400 26,100 35,000	43,700 31,700 43,000	54,200 38,500 53,100	62,100 43,400 60,700	70,000 48,000 68,100
129	05527800	Des Plaines River at Russell, Ill. Lat 42°29'22", long 87°55'32", in SE¼/4 sec.3, T.46 N., R.11 E., Lake County.	658 796 668	1,270 1,220 1,260	1,720 1,490 1,690	2,310 1,790 2,240	2,750 2,010 2,640	3,200 2,210 3,030
130	05527840	Des Plaines River at Wadsworth, Ill. Lat 42°25'45", long 87°55'49", in NW¼/4NE¼/4 sec.34, T.46 N., R.11 E., Lake County.	802 818 804	1,510 1,250 1,480	2,010 1,510 1,930	2,630 1,820 2,470	3,070 2,030 2,840	3,490 2,220 3,190

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
131	*05527870	Mill Creek at Wedges Corner, Ill. Lat 42°23'00", long 88°00'15", in NW¼NW¼ sec.18, T.45 N., R.11 E., Lake County.	83	139	180	237	282	329
132	05527900	North Mill Creek at Hickory Corners, Ill. Lat 42°27'58", long 88°00'32", in SW¼NE¼ sec.13, T.46 N., R.10 E., Lake County.	208 202 207	306 313 307	372 381 374	457 460 457	520 515 519	583 565 578
133	*05527950	Mill Creek at Old Mill Creek, Ill. Lat 42°24'55", long 87°58'08", in SW¼SE¼ sec.32, T.46 N., R.11 E., Lake County.	486	812	1,020	1,260	1,420	1,570
134	05528000	Des Plaines River near Gurnee, Ill. Lat 42°20'39", long 87°56'18", in SE¼SW¼ sec.27, T.45 N., R.11 E., Lake County.	1,330 1,120 1,320	1,950 1,700 1,930	2,340 2,060 2,310	2,820 2,470 2,780	3,160 2,750 3,120	3,490 3,020 3,440
135	*05528150	Indian Creek at Diamond Lake, Ill. Lat 42°13'27", long 88°00'17", in NW¼NW¼ sec.7, T.43 N., R.11 E., Lake County.	283	522	697	930	1,110	1,290
136	*05528170	Diamond Lake Drain at Mundelein, Ill. Lat 42°14'56", long 87°59'37", in SW¼NE¼ sec.31, T.44 N., R.11 E., Lake County.	54	76	90	108	120	133
137	*05528200	Hawthorn Drainage Ditch near Mundelein, Ill. Lat 42°14'25", long 87°57'42", in NW¼NW¼ sec.4, T.43 N., R.11 E., Lake County.	209	318	394	497	576	659
138	*05528230	Indian Creek at Prairie View, Ill. Lat 42°12'34", long 87°57'18", in NW¼NE¼ sec.16, T.43 N., R.11 E., Lake County.	494	802	1,020	1,290	1,500	1,710
139	05528360	Aptakisic Creek at Aptakisic, Ill. Lat 42°10'05", long 87°56'58", in SE¼SE¼ sec.28, T.43 N., R.11 E., Lake County.	110 100 108	192 165 187	254 208 243	340 261 318	407 299 375	479 335 434
140	*05528400	Des Plaines River at Wheeling, Ill. Lat 42°08'21", long 87°54'14", in SW¼SW¼ sec.1, T.42 N., R.11 E., Cook County.	1,760	2,640	3,170	3,770	4,180	4,540
141	*05528440	Buffalo Creek near Lake Zurich, Ill. Lat 42°10'58", long 88°03'02", in NW¼NE¼ sec.27, T.43 N., R.10 E., Lake County.	81	130	166	213	250	287

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
142	*05528470	Buffalo Creek at Long Grove, Ill. Lat 42°10'38", long 87°59'57", in SE1/4NW1/4 sec.30, T.43 N., R.11 E., Lake County.	229	367	457	566	643	717
143	*05528500	Buffalo Creek near Wheeling, Ill. Lat 42°09'15", long 87°57'25", in NE1/4NW1/4 sec.4, T.42 N., R.11 E., Cook County.	364	569	692	832	924	1,010
144	05529000	Des Plaines River near Des Plaines, Ill. Lat 42°04'55", long 87°53'25", in SE1/4SE1/4 sec.25, T.42 N., R.11 E., Cook County.	2,180 1,490 2,140	3,160 2,240 3,100	3,760 2,700 3,690	4,450 3,240 4,350	4,910 3,610 4,800	5,350 3,940 5,220
145	*05529300	McDonald Creek near Wheeling, Ill. Lat 42°07'14", long 87°56'47", in NW1/4NW1/4 sec.15, T.42 N., R.11 E., Cook County.	186	334	442	585	695	806
146	*05529500	McDonald Creek near Mount Prospect, Ill. Lat 42°05'43", long 87°54'46", in SW1/4SE1/4 sec.23, T.42 N., R.11 E., Cook County.	193	368	497	669	800	930
147	*05529900	Weller Creek at Mount Prospect, Ill. Lat 42°03'32", long 87°57'23", in NE1/4SW1/4 sec.11, T.41 N., R.11 E., Cook County.	482	778	991	1,270	1,490	1,720
148	*05530000	Weller Creek at Des Plaines, Ill. Lat 42°02'58", long 87°55'05", in NW1/4NW1/4 sec.18, T.41 N., R.12 E., Cook County.	677	1,030	1,260	1,530	1,720	1,900
149	*05530400	Higgins Creek near Mount Prospect, Ill. Lat 42°02'04", long 87°57'35", in NW1/4NW1/4 sec.23, T.41 N., R.11 E., Cook County.	137	247	330	445	536	631
150	*05530480	Willow Creek at Orchard Place, Ill. Lat 41°59'49", long 87°52'47", in SE1/4SW1/4 sec.33, T.41 N., R.12 E., Cook County.	586	1,070	1,430	1,920	2,310	2,710
151	*05530600	Des Plaines River at River Grove, Ill. Lat 41°55'46", long 87°50'40", in NW1/4SW1/4 sec.26, T.40 N., R.12 E., Cook County.	2,580	3,380	3,830	4,310	4,620	4,890
152	*05530700	Silver Creek at Melrose Park, Ill. Lat 41°54'18", long 87°50'40", in NW1/4NW1/4 sec.2, T.39 N., R.12 E., Cook County.	446	557	622	696	746	793

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
153	*05530800	Des Plaines River at Forest Park, Ill. Lat 41°52'05", long 87°49'39", in SE1/4SE1/4 sec.14, T.39 N., R.12 E., Cook County.	2,770	3,680	4,180	4,710	5,050	5,350
154	*05530940	Salt Creek at Palatine, Ill. Lat 42°06'38", long 88°03'47", in SW1/4SW1/4 sec.15, T.42 N., R.10 E., Cook County.	201	288	351	436	503	573
155	*05530960	Salt Creek near Palatine, Ill. Lat 42°04'26", long 88°02'38", in NW1/4SW1/4 sec.35, T.42 N., R.10 E., Cook County.	300	466	583	735	851	969
156	*05530990	Salt Creek at Rolling Meadows, Ill. Lat 42°03'37", long 88°00'59", in SW1/4NW1/4 sec.8, T.41 N., R.11 E., Cook County.	650	816	915	1,030	1,110	1,180
157	*05531000	Salt Creek near Arlington Heights, Ill. Lat 42°03'02", long 88°00'31", in NE1/4NW1/4 sec.17, T.41 N., R.11 E., Cook County.	453	700	864	1,070	1,220	1,360
158	*05531050	Salt Creek near Wood Dale, Ill. Lat 41°59'34", long 87°59'44", in NW1/4NW1/4 sec.4, T.40 N., R.11 E., Du Page County.	659	997	1,240	1,560	1,810	2,070
159	*05531080	Spring Brook at Bloomingdale, Ill. Lat 41°57'31", long 88°04'14", in NW1/4NW1/4 sec.14, T.40 N., R.10 E., Du Page County.	177	262	324	409	477	549
160	*05531100	Meacham Creek at Medinah, Ill. Lat 41°58'39", long 88°02'52", in SW1/4 sec.1, T.40 N., R.10 E., Du Page County.	61	96	122	161	192	227
161	*05531130	Spring Brook at Walnut Avenue at Itasca, Ill. Lat 41°58'16", long 88°00'47", in SE1/4NW1/4 sec.8, T.40 N., R.11 E., Du Page County.	245	359	439	545	627	711
162	*05531200	Salt Creek at Addison, Ill. Lat 41°55'44", long 87°58'40", in SW1/4NW1/4 sec.27, T.40 N., R.11 E., Du Page County.	838	1,130	1,330	1,570	1,760	1,950
163	*05531300	Salt Creek at Elmhurst, Ill. Lat 41°53'20", long 87°57'41", in NE1/4NE1/4 sec.10, T.39 N., R.11 E., Du Page County.	961	1,270	1,480	1,740	1,940	2,140

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
164	*05531380	Salt Creek at Oak Brook, Ill. Lat 41°51'39", long 87°56'52", in SW1/4SE1/4 sec.23, T.39 N., R.11 E., Du Page County.	1,030	1,340	1,510	1,710	1,850	1,970
165	*05531500	Salt Creek at Western Springs, Ill. Lat 41°49'35", long 87°54'00", in NE1/4SE1/4 sec.31, T.39 N., R.12 E., Cook County.	1,160	1,530	1,740	1,980	2,150	2,300
166	*05531800	Addison Creek at Northlake, Ill. Lat 41°54'37", long 87°54'10", in SW1/4SW1/4 sec.32, T.40 N., R.12 E., Cook County.	312	376	410	446	470	490
167	*05532000	Addison Creek at Bellwood, Ill. Lat 41°52'48", long 87°52'07", in SW1/4SE1/4 sec.9, T.39 N., R.12 E., Cook County.	454	605	690	784	846	902
168	*05532500	Des Plaines River at Riverside, Ill. Lat 41°49'20", long 87°49'15", in SW1/4SW1/4 sec.36, T.39 N., R.12 E., Cook County.	3,860	5,170	5,940	6,790	7,370	7,900
169	*05533000	Flag Creek near Willow Springs, Ill. Lat 41°44'20", long 87°53'48", in SE1/4NE1/4 sec.31, T.38 N., R.12 E., Cook County.	752	1,250	1,630	2,150	2,560	3,000
170	*05533200	Sawmill Creek tributary near Tiedtville, Ill. Lat 41°44'05", long 87°58'00", in NE1/4SW1/4 sec.34, T.38 N., R.11 E., Du Page County.	232	280	305	332	349	365
171	*05533300	Wards Creek near Woodridge, Ill. Lat 41°43'32", long 87°59'19", in SW1/4NW1/4 sec.4, T.37 N., R.11 E., Du Page County.	80	114	134	157	173	188
172	*05533400	Sawmill Creek near Lemont, Ill. Lat 41°42'28", long 87°57'45", in NE1/4SW1/4 sec.10, T.37 N., R.11 E., Du Page County.	576	909	1,110	1,340	1,500	1,630
173	*05533500	Des Plaines River at Lemont, Ill. Lat 41°40'54", long 88°00'09", in SE1/4NW1/4 sec.20, T.37 N., R.11 E., Cook County.	3,120	4,190	4,800	5,480	5,920	6,320
174	*05534300	North Branch Chicago River at Lake Forest, Ill. Lat 42°14'24", long 87°52'50", in NE1/4NW1/4 sec.6, T.43 N., R.12 E., Lake County.	192	262	303	349	380	409

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
175	*05534400	North Branch Chicago River at Bannockburn, Ill. Lat 42°12'00", long 87°51'10", in SW 1/4 SE 1/4 sec.17, T.43 N., R.12 E., Lake County.	247	320	360	404	432	456
176	*05534500	North Branch Chicago River at Deerfield, Ill. Lat 42°09'10", long 87°49'07", in SW 1/4 SE 1/4 sec.34, T.42 N., R.12 E., Lake County.	298	437	526	633	709	783
177	*05534600	North Branch Chicago River at Northfield, Ill. Lat 42°06'05", long 87°46'26", in NE 1/4 SE 1/4 sec.24, T.42 N., R.12 E., Cook County.	346	434	482	536	571	603
178	*05534900	Skokie River at Lake Bluff, Ill. Lat 42°16'46", long 87°51'46", in NW 1/4 sec.20, T.44 N., R.12 E., Lake County.	205	314	385	471	532	591
179	*05535000	Skokie River at Lake Forest, Ill. Lat 42°13'57", long 87°50'41", in NW 1/4 SW 1/4 sec.4, T.43 N., R.12 E., Lake County.	214	301	352	410	448	483
180	*05535070	Skokie River near Highland Park, Ill. Lat 42°09'34", long 87°47'52", in NW 1/4 SE 1/4 sec.35, T.43 N., R.12 E., Lake County.	421	531	600	684	744	803
181	*05535150	Skokie River at Northfield, Ill. Lat 42°06'05", long 87°45'33", in NW 1/4 SE 1/4 sec.19, T.42 N., R.13 E., Cook County.	377	448	489	536	567	597
182	*05535200	North Branch Chicago River at Glenview, Ill. Lat 42°04'08", long 87°46'28", in SE 1/4 SE 1/4 sec.36, T.42 N., R.12 E., Cook County.	691	872	983	1,120	1,210	1,310
183	*05535300	West Fork of North Branch Chicago River at Bannockburn, Ill. Lat 42°12'00", long 87°53'24", in NE 1/4 SE 1/4 sec.13, T.43 N., R.11 E., Lake County.	209	285	332	388	427	464
184	*05535400	West Fork of North Branch Chicago River at Deerfield, Ill. Lat 42°10'02", long 87°51'24", in NW 1/4 NE 1/4 sec.32, T.43 N., R.12 E., Lake County.	364	453	504	562	601	638

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
185	*05535500	West Fork of North Branch Chicago River at Northbrook, Ill. Lat 42°08'18", long 87°50'04", in SW1/4SE1/4 sec.4, T.42 N., R.12 E., Cook County.	474	679	801	939	1,030	1,120
186	*05535700	West Fork of North Branch Chicago River at Glenview, Ill. Lat 42°05'13", long 87°48'08", in NE1/4SW1/4 sec.26, T.42 N., R.12 E., Cook County.	633	846	974	1,120	1,220	1,320
187	*05535800	North Branch Chicago River at Morton Grove, Ill. Lat 42°03'00", long 87°46'50", in SE1/4NW1/4 sec.17, T.41 N., R.13 E., Cook County.	1,030	1,340	1,530	1,770	1,950	2,110
188	*05536000	North Branch Chicago River at Niles, Ill. Lat 42°00'44", long 87°47'45", in SW1/4SE1/4 sec.30, T.41 N., R.13 E., Cook County.	1,120	1,440	1,630	1,860	2,020	2,170
189	05536178	Plum Creek near Dyer, Ind. Lat 41°28'12", long 87°31'57", in SE1/4SW1/4 sec.32, T.35 N., R.15 E., Cook County.	1,170 690 1,070	1,720 1,120 1,590	2,050 1,410 1,890	2,430 1,770 2,240	2,690 2,020 2,490	2,920 2,270 2,720
190	05536190	Hart Ditch at Munster, Ind. Lat 41°33'40", long 87°28'50", in SE1/4NW1/4 sec.20, T.36 N., R.9 W., Lake County.	1,330 1,350 1,330	1,870 2,210 1,890	2,210 2,790 2,260	2,620 3,510 2,720	2,920 4,040 3,040	3,210 4,540 3,360
191	*05536201	Thorn Creek at Park Forest, Ill. Lat 41°28'19", long 87°40'26", in SW1/4SW1/4 sec.31, T.35 N., R.14 E., Cook County.	317	593	826	1,180	1,480	1,830
192	*05536207	Thorn Creek tributary at Chicago Heights, Ill. Lat 41°30'22", long 87°39'36", in SW1/4NE1/4 sec.19, T.35 N., R.14 E., Cook County.	253	410	534	715	868	1,040
193	*05536210	Thorn Creek near Chicago Heights, Ill. Lat 41°30'50", long 87°38'07", in SE1/4SE1/4 sec.17, T.35 N., R.14 E., Cook County.	993	1,430	1,730	2,100	2,380	2,660
194	*05536215	Thorn Creek at Glenwood, Ill. Lat 41°31'50", long 87°36'20", in SW1/4SE1/4 sec.9, T.35 N., R.14 E., Cook County.	1,080	1,590	1,950	2,440	2,820	3,210
195	*05536235	Deer Creek near Chicago Heights, Ill. Lat 41°31'15", long 87°35'25", in SE1/4NW1/4 sec.14, T.35 N., R.14 E., Cook County.	528	717	841	998	1,120	1,230



Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
196	*05536238	Butterfield Creek near Lincoln Estates, Ill. Lat 41°30'22", long 87°46'34", in NE1/4SE1/4 sec.19, T.35 N., R.13 E., Cook County.	142	265	361	494	600	711
197	*05536255	Butterfield Creek at Flossmoor, Ill. Lat 41°32'25", long 87°38'55", in NE1/4NW1/4 sec.8, T.35 N., R.14 E., Cook County.	654	1,120	1,480	2,000	2,430	2,900
198	*05536265	Lansing Ditch near Lansing, Ill. Lat 41°31'40", long 87°31'45", at north boundary of sec.17, T.35 N., R.15 E., Cook County.	197	295	355	425	473	517
199	*05536270	North Creek near Lansing, Ill. Lat 41°32'45", long 87°33'30", in SE1/4SE1/4 sec.1, T.35 N., R.14 E., Cook County.	356	513	612	732	817	899
200	*05536275	Thorn Creek at Thornton, Ill. Lat 41°34'05", long 87°36'30", in SE1/4NW1/4 sec.34, T.36 N., R.14 E., Cook County.	2,050	2,970	3,570	4,310	4,850	5,380
201	*05536290	Little Calumet River at South Holland, Ill. Lat 41°36'25", long 87°35'52", in NE1/4SE1/4 sec.15, T.36 N., R.14 E., Cook County.	2,520	3,360	3,860	4,430	4,820	5,180
202	*05536310	Calumet Union Drainage Canal near Markham, Ill. Lat 41°35'48", long 87°39'59", in SE1/4NW1/4 sec.19, T.36 N., R.14 E., Cook County.	305	397	449	507	546	581
203	*05536325	Little Calumet River at Harvey, Ill. Lat 41°37'35", long 87°38'05", in SE1/4NW1/4 sec.9, T.36 N., R.14 E., Cook County.	1,990	2,970	3,590	4,330	4,860	5,350
204	*05536335	Midlothian Creek near Tinley Park, Ill. Lat 41°35'18", long 87°44'52", in NE1/4NW1/4 sec.28, T.36 N., R.13 E., Cook County.	221	294	344	410	460	512
205	*05536340	Midlothian Creek at Oak Forest, Ill. Lat 41°36'51", long 87°43'46", in SE1/4NW1/4 sec.15, T.36 N., R.13 E., Cook County.	249	347	415	507	578	652
206	*05536460	Tinley Creek near Oak Forest, Ill. Lat 41°37'49", long 87°47'05", in NW1/4NE1/4 sec.7, T.36 N., R.13 E., Cook County.	420	635	782	969	1,110	1,250

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
207	*05536500	Tinley Creek near Palos Park, Ill. Lat 41°38'48", long 87°45'59", in SW1/4SE1/4 sec.32, T.37 N., R.13 E., Cook County.	547	923	1,210	1,600	1,910	2,240
208	*05536510	Navajo Creek at Palos Heights, Ill. Lat 41°39'39", long 87°47'38", in SW1/4SW1/4 sec.30, T.37 N., R.13 E., Cook County.	235	313	364	427	474	520
209	*05536560	Melvina Ditch near Oak Lawn, Ill. Lat 41°43'09", long 87°47'07", in NW1/4NE1/4 sec.7, T.37 N., R.13 E., Cook County.	140	234	301	387	453	519
210	*05536570	Stony Creek (West) at Worth, Ill. Lat 41°42'00", long 87°47'52", in SE1/4NE1/4 sec.13, T.37 N., R.12 E., Cook County.	415	710	923	1,200	1,420	1,630
211	*05536620	Mill Creek near Palos Park, Ill. Lat 41°39'09", long 87°50'23", in NW1/4SE1/4 sec.34, T.37 N., R.12 E., Cook County.	121	185	227	279	317	354
212	*05536630	Mill Creek at Palos Park, Ill. Lat 41°40'27", long 87°50'35", in SW1/4SE1/4 sec.22, T.37 N., R.12 E., Cook County.	209	445	669	1,040	1,400	1,830
213	05537500	Long Run near Lemont, Ill. Lat 41°38'33", long 87°59'57", in SW1/4SE1/4 sec.32, T.37 N., R.11 E., Cook County.	585	1,060	1,460	2,030	2,520	3,070
214	*05538000	Des Plaines River at Joliet, Ill. Lat 41°31'54", long 88°05'05", in SE1/4NE1/4 sec.9, T.35 N., R.10 E., Will County.	15,400	18,100	19,600	21,300	22,400	23,400
215	*05538440	Spring Creek near Orland Park, Ill. Lat 41°36'02", long 87°54'02", in NW1/4NE1/4 sec.19, T.36 N., R.12 E., Cook County.	41	60	73	89	100	112
216	*05539000	Hickory Creek at Joliet, Ill. Lat 41°31'10", long 88°04'10", in SE1/4NE1/4 sec.15, T.35 N., R.10 E., Will County.	2,830	5,060	7,000	10,100	12,900	16,100
217	*05539870	West Branch Du Page River at Ontarioville, Ill. Lat 41°58'42", long 88°07'59", in NW1/4SE1/4 sec.6, T.40 N., R.10 E., Du Page County.	313	498	616	756	853	944

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
218	*05539890	West Branch Du Page River near Wayne, Ill. Lat 41°56'37", long 88°10'51", in NW1/4NW1/4 sec.23, T.40 N., R.9 E., Du Page County.	488	788	1,010	1,300	1,540	1,780
219	*05539900	West Branch Du Page River near West Chicago, Ill. Lat 41°54'39", long 88°10'44", in SE1/4NW1/4 sec.35, T.40 N., R.9 E., Du Page County.	462	660	780	919	1,010	1,100
220	*05539950	Klein Creek at Carol Stream, Ill. Lat 41°54'24", long 88°08'32", in NE1/4SW1/4 sec.31, T.40 N., R.10 E., Du Page County.	187	303	395	529	642	768
221	*05540030	West Branch Du Page River at West Chicago, Ill. Lat 41°51'41", long 88°11'33", in NW1/4SE1/4 sec.15, T.39 N., R.9 E., Du Page County.	731	1,030	1,220	1,450	1,610	1,760
222	*05540060	Kress Creek at West Chicago, Ill. Lat 41°51'23", long 88°12'15", in NW1/4NW1/4 sec.22, T.39 N., R.9 E., Du Page County.	264	375	450	545	616	687
223	*05540080	Spring Brook at Wheaton, Ill. Lat 41°51'02", long 88°06'53", in NE1/4SE1/4 sec.20, T.39 N., R.10 E., Du Page County.	152	220	270	338	392	449
224	*05540095	West Branch Du Page River near Warrenville, Ill. Lat 41°49'22", long 88°10'23", in SW1/4NE1/4 sec.35, T.39 N., R.9 E., Du Page County.	1,140	1,570	1,830	2,150	2,370	2,590
225	05540110	Ferry Creek at Warrenville, Ill. Lat 41°49'13", long 88°11'35", in SW1/4NE1/4 sec.34, T.39 N., R.9 E., Du Page County.	86	128	158	197	228	259
226	05540140	East Branch Du Page River near Bloomingdale, Ill. Lat 41°56'06", long 88°03'29", in SW1/4SE1/4 sec.23, T.40 N., R.10 E., Du Page County.	59	102	133	175	206	238
227	*05540150	East Branch Du Page River at Glen Ellyn, Ill. Lat 41°53'24", long 88°03'01", in SW1/4SW1/4 sec.1, T.39 N., R.10 E., Du Page County.	242	398	508	649	755	861
228	*05540160	East Branch Du Page River near Downers Grove, Ill. Lat 41°49'54", long 88°02'51", in SE1/4SW1/4 sec.25, T.39 N., R.10 E., Du Page County.	597	961	1,220	1,570	1,850	2,130

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
229	*05540190	St. Joseph Creek at Belmont, Ill. Lat 41°47'31", long 88°02'15", in NW1/4SE1/4 sec.12, T.38 N., R.10 E., Du Page County.	344	517	628	761	855	945
230	*05540240	Prentiss Creek near Lisle, Ill. Lat 41°46'17", long 88°04'11", in SW1/4SW1/4 sec.14, T.38 N., R.10 E., Du Page County.	191	303	388	509	609	716
231	*05540500	Du Page River at Shorewood, Ill. Lat 41°31'20", long 88°11'35", in SE1/4SW1/4 sec.10, T.35 N., R.9 E., Will County.	3,670	5,790	7,290	9,280	10,800	12,400
232	05541750	Mazon River tributary near Gardner, Ill. Lat 41°09'36", long 88°20'35", in SE1/4 sec.18, T.31 N., R.8 E., Grundy County.	107	145	166	188	202	215
			176	295	374	472	542	612
			114	158	186	218	240	260
233	05542000	Mazon River near Coal City, Ill. Lat 41°17'10", long 88°21'35", in SW1/4SW1/4 sec.31, T.33 N., R.8 E., Grundy County.	8,630	13,800	17,000	20,600	23,000	25,100
			5,520	8,930	11,200	14,100	16,100	18,200
			8,410	13,500	16,600	20,000	22,300	24,400
234	*05543500	Illinois River at Marseilles, Ill. Lat 41°19'40", long 88°43'10", in SE1/4SW1/4 sec.13, T.33 N., R.4 E., La Salle County.	43,600	61,400	72,600	86,000	95,500	105,000
235	05546500	Fox River at Wilmot, Wis. Lat 42°30'40", long 88°10'45", in SW1/4 sec.30, T.1 N., R.20 E., Kenosha County.	2,620	3,880	4,750	5,890	6,760	7,660
			1,630	2,450	2,940	3,510	3,890	4,240
			2,580	3,780	4,590	5,620	6,410	7,190
236	05548150	North Branch Nippersink Creek tributary near near Genoa City, Wis. Lat 42°30'15", long 88°23'01", in E1/2 sec.32, T.1 N., R.18 E., Walworth County.	175	238	277	321	352	380
			237	396	502	632	724	815
			182	258	308	368	410	450
237	*05548280	Nippersink Creek near Spring Grove, Ill. Lat 42°26'37", long 88°14'51", in NE1/4NW1/4 sec.25, T.46 N., R.8 E., McHenry County.	1,270	1,920	2,320	2,770	3,070	3,340
238	*05549000	Boone Creek near McHenry, Ill. Lat 42°19'15", long 88°18'45", in NW1/4SW1/4 sec.4, T.44 N., R.8 E., McHenry County.	130	201	246	300	337	372
239	05549700	Mutton Creek at Island Lake, Ill. Lat 42°17'05", long 88°10'47", in NE1/4NE1/4 sec.21, T.44 N., R.9 E., Lake County.	79	159	229	335	428	531
			134	219	274	339	385	428
			84	169	238	336	416	501

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
240	*05549850	Flint Creek near Fox River Grove, Ill. Lat 42°12'40", long 88°10'23", in NW¼ sec.15, T.43 N., R.9 E., Lake County.	247	308	347	396	432	467
241	05549900	Fox River tributary near Cary, Ill. Lat 42°11'48", long 88°15'54", in NW¼NE¼ sec.23, T.43 N., R.8 E., McHenry County.	12	26	38	57	72	88
			12	22	29	38	45	51
			12	25	36	52	64	78
242	*05550000	Fox River at Algonquin, Ill. Lat 42°09'59", long 88°17'25", in NE¼NW¼ sec.34, T.43 N., R.8 E., McHenry County.	3,190	4,450	5,240	6,160	6,810	7,430
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243	05550300	Tyler Creek at Elgin, Ill. Lat 42°03'31", long 88°18'14", in SE¼SE¼ sec.3, T.41 N., R.8 E., Kane County.	334	404	442	483	511	536
			516	855	1,080	1,360	1,550	1,750
			356	456	521	600	653	703
244	*05550430	East Branch Poplar Creek near Palatine, Ill. Lat 42°04'02", long 88°06'41", in SW¼SE¼ sec.31, T.42 N., R.10 E., Cook County.	85	124	153	192	223	255
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245	05550450	Poplar Creek near Ontarioville, Ill. Lat 42°02'48", long 88°09'20", in NE¼NW¼ sec.13, T.41 N., R.9 E., Cook County.	210	290	342	404	449	493
			297	498	632	798	916	1,030
			221	321	389	475	537	597
246	*05550470	Poplar Creek tributary near Bartlett, Ill. Lat 42°01'28", long 88°12'10", in SE¼NE¼ sec.21, T.41 N., R.9 E., Cook County.	163	251	315	403	472	546
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247	*05550500	Poplar Creek at Elgin, Ill. Lat 42°01'35", long 88°15'20", in SE¼NW¼ sec.19, T.41 N., R.9 E., Cook County.	374	550	668	815	924	1,030
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248	05551030	Brewster Creek at Valley View, Ill. Lat 41°58'22", long 88°16'50", in SW¼SW¼ sec.1, T.40 N., R.8 E., Kane County.	234	410	538	706	836	966
			248	414	525	661	759	853
			236	411	536	697	817	938
249	05551050	Norton Creek near Wayne, Ill. Lat 41°56'54", long 88°16'17", in NW¼SE¼ sec.13, T.40 N., R.8 E., Kane County.	95	206	314	499	678	899
			138	231	292	366	419	470
			100	211	308	458	589	740
250	05551060	Norton Creek near St. Charles, Ill. Lat 41°56'42", long 88°18'22", in SW¼SE¼ sec.15, T.40 N., R.8 E., Kane County.	123	222	308	439	556	690
			209	350	443	557	640	719
			132	244	337	470	579	700

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
251	05551200	Ferson Creek near St. Charles, Ill. Lat 41°56'00", long 88°20'30", in NE 1/4 SE 1/4 sec. 20, T. 40 N., R. 8 E., Kane County.	931 766 910	1,470 1,280 1,450	1,810 1,630 1,780	2,190 2,060 2,170	2,450 2,370 2,440	2,700 2,670 2,700
252	05551520	Indian Creek near North Aurora, Ill. Lat 41°48'50", long 88°16'26", in SE 1/4 SW 1/4 sec. 36, T. 39 N., R. 8 E., Kane County.	132 119 131	217 200 214	277 254 272	356 320 348	416 367 405	478 413 461
253	*05551530	Indian Creek at Aurora, Ill. Lat 41°45'59", long 88°18'24", in NW 1/4 NE 1/4 sec. 22, T. 38 N., R. 8 E., Kane County.	527 --- ---	659 --- ---	732 --- ---	810 --- ---	860 --- ---	905 --- ---
254	05551620	Blackberry Creek near Kaneville, Ill. Lat 41°48'17", long 88°27'34", in SW 1/4 NE 1/4 sec. 5, T. 38 N., R. 7 E., Kane County.	428 366 418	530 612 543	589 776 622	655 982 718	700 1,130 785	741 1,270 849
255	05551650	Lake Run tributary near Batavia, Ill. Lat 41°50'45", long 88°24'20", near center of sec. 23, T. 39 N., R. 7 E., Kane County.	50 89 55	116 154 124	181 199 186	292 255 280	400 296 362	531 337 455
256	05551700	Blackberry Creek near Yorkville, Ill. Lat 41°40'18", long 88°26'29", in SE 1/4 NW 1/4 sec. 21, T. 37 N., R. 7 E., Kendall County.	687 643 682	1,130 1,040 1,120	1,420 1,310 1,410	1,780 1,620 1,760	2,040 1,850 2,010	2,280 2,070 2,240
257	05551800	Fox River tributary No. 2 near Fox, Ill. Lat 41°36'28", long 88°28'43", in NE 1/4 SW 1/4 sec. 7, T. 36 N., R. 7 E., Kendall County.	66 54 64	164 99 148	257 132 220	407 174 329	542 206 422	697 238 525
258	05551900	East Branch Big Rock Creek near Big Rock, Ill. Lat 41°46'04", long 88°34'11", in NE 1/4 SE 1/4 sec. 17, T. 38 N., R. 6 E., Kane County.	635 436 600	948 719 895	1,160 908 1,100	1,440 1,140 1,350	1,640 1,310 1,540	1,850 1,470 1,730
259	05551930	Welch Creek near Big Rock, Ill. Lat 41°45'36", long 88°30'38", in SE 1/4 NE 1/4 sec. 23, T. 38 N., R. 6 E., Kane County.	319 329 321	459 548 474	548 692 575	658 871 701	735 1,000 793	811 1,120 881
260	*05552500	Fox River at Dayton, Ill. Lat 41°23'12", long 88°47'26", in SW 1/4 SE 1/4 sec. 29, T. 34 N., R. 4 E., La Salle County.	12,200 --- ---	18,800 --- ---	23,400 --- ---	29,300 --- ---	33,800 --- ---	38,300 --- ---
261	05554000	North Fork Vermillion River near Charlotte, Ill. Lat 40°50'08", long 88°17'58", in SE 1/4 SE 1/4 sec. 4, T. 27 N., R. 8 E., Livingston County.	2,290 3,030 2,330	3,560 4,940 3,650	4,370 6,240 4,500	5,310 7,850 5,520	5,960 9,040 6,240	6,560 10,200 6,900

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
262	05554500	Vermilion River at Pontiac, Ill. Lat 40°52'40", long 88°38'10", in SW1/4 sec.22, T.28 N., R.5 E., Livingston County.	5,310 4,040 5,220	8,240 6,300 8,090	10,200 7,740 9,980	12,600 9,510 12,300	14,400 10,800 14,000	16,100 12,000 15,600
263	05554600	Mud Creek tributary near Odell, Ill. Lat 41°00'50", long 88°38'36", in NW1/4 sec.3, T.29 N., R.5 E., Livingston County.	49 43 48	90 79 88	120 105 116	158 139 153	186 165 180	213 191 207
264	05555000	Vermilion River at Streator, Ill. Lat 41°05'35", long 88°50'05", in SE1/4 sec.2, T.30 N., R.3 E., Livingston County.	7,820 7,060 7,710	12,400 11,000 12,100	15,400 13,600 15,000	19,200 16,800 18,600	21,900 19,000 21,200	24,600 21,200 23,700
265	05555300	Vermilion River near Leonore, Ill. Lat 41°12'30", long 88°55'52", in SW1/4SW1/4 sec.30, T.31 N., R.2 E., La Salle County.	11,700 8,200 11,500	19,400 12,900 18,900	24,500 15,900 23,900	31,200 19,600 30,100	36,100 22,200 34,700	40,800 24,800 39,100
266	05555400	Vermilion River tributary at Lowell, Ill. Lat 41°14'30", long 89°00'35", in SE1/4 sec.17, T.32 N., R.2 E., La Salle County.	25 35 27	68 64 67	115 85 105	202 113 168	292 133 226	406 154 296
267	05555775	Vermilion Creek tributary at Meriden, Ill. Lat 41°34'08", long 89°01'28", on line between secs. 20 and 29, T.36 N., R.2 E., La Salle County.	42 45 43	69 80 71	88 104 92	112 134 118	131 157 138	149 179 158
268	05556500	Big Bureau Creek at Princeton, Ill. Lat 41°21'55", long 89°29'55", in SW1/4SE1/4 sec.18, T.16 N., R.9 E., Bureau County.	4,250 3,880 4,220	7,330 6,440 7,260	9,290 8,180 9,200	11,600 10,400 11,500	13,100 12,000 13,000	14,500 13,600 14,400
269	05557000	West Bureau Creek at Wyanet, Ill. Lat 41°21'54", long 89°34'08", in NE1/4 sec.21, T.16 N., R.8 E., Bureau County.	2,770 2,470 2,750	5,000 4,160 4,920	6,730 5,320 6,560	9,140 6,810 8,850	11,100 7,930 10,700	13,200 9,020 12,600
270	05557100	West Bureau Creek tributary near Wyanet, Ill. Lat 41°18'40", long 89°35'20", in SE1/4 sec.5, T.15 N., R.8 E., Bureau County.	81 95 83	158 177 162	222 237 226	317 318 317	396 379 392	483 443 472
271	05557500	East Bureau Creek near Bureau, Ill. Lat 41°20'06", long 89°22'53", in NW1/4NE1/4 sec.31, T.16 N., R.10 E., Bureau County.	2,370 3,230 2,420	4,120 5,500 4,220	5,370 7,100 5,510	7,000 9,140 7,190	8,220 10,700 8,450	9,440 12,200 9,710
272	05558000	Big Bureau Creek at Bureau, Ill. Lat 41°16'40", long 89°23'00", in SE1/4SW1/4 sec.18, T.15 N., R.10 E., Bureau County.	8,040 8,070 8,050	11,700 13,300 12,100	14,100 16,900 14,900	17,000 21,600 18,400	19,100 24,900 21,000	21,200 28,300 23,500

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
273	05558050	Coffee Creek tributary near Florid, Ill. Lat 41°14'25", long 89°18'00", in SE1/4 sec.14, T.32 N., R.2 W., Putnam County.	19 22 19	41 42 41	61 57 59	89 77 86	114 94 107	140 110 130
274	05558075	Coffee Creek tributary near Hennepin, Ill. Lat 41°14'35", long 89°18'25", near center of sec.14, T.32 N., R.2 W., Putnam County.	60 82 63	116 155 124	166 209 177	245 282 255	316 339 323	400 396 399
275	05558500	Crow Creek (West) near Henry, Ill. Lat 41°09'00", long 89°25'00", in SW1/4SE1/4 sec.36, T.14 N., R.9 E., Putnam County.	1,510 1,860 1,540	2,680 3,160 2,740	3,610 4,050 3,680	4,990 5,190 5,020	6,140 6,040 6,120	7,410 6,890 7,310
276	05559000	Gimlet Creek at Sparland, Ill. Lat 41°01'35", long 89°26'20", in SE1/4NW1/4 sec.14, T.12 N., R.9 E., Marshall County.	849 764 839	1,320 1,390 1,330	1,630 1,850 1,650	1,990 2,460 2,050	2,240 2,930 2,330	2,480 3,410 2,600
277	05559500	Crow Creek near Washburn, Ill. Lat 40°57'15", long 89°18'30", in SW1/4 sec.23, T.29 N., R.2 W., Marshall County.	2,190 1,940 2,170	3,360 3,300 3,350	4,160 4,280 4,180	5,200 5,530 5,250	5,980 6,490 6,050	6,780 7,430 6,870
278	*05560000	Illinois River at Peoria, Ill. Lat 40°42'08", long 89°33'52", in SW1/4NW1/4 sec.2, T.8 N., R.8 E., Peoria County.	38,100 --- ---	48,600 --- ---	54,400 --- ---	60,700 --- ---	64,800 --- ---	68,500 --- ---
279	*05560500	Farm Creek at Farmdale, Ill. Lat 40°39'55", long 89°30'15", in NE1/4SE1/4 sec.36, T.26 N., R.4 W., Tazewell County.	570 --- ---	713 --- ---	803 --- ---	913 --- ---	993 --- ---	1,070 --- ---
280	05561000	Ackerman Creek at Farmdale, Ill. Lat 40°39'43", long 89°30'13", in SE1/4SE1/4 sec.36, T.26 N., R.4 W., Tazewell County.	656 957 690	1,390 1,770 1,440	2,000 2,400 2,070	2,910 3,250 2,970	3,660 3,930 3,720	4,490 4,610 4,510
281	*05561500	Fondulac Creek near East Peoria, Ill. Lat 40°40'38", long 89°31'52", on line between SW1/4 and SE1/4 sec.26, T.26 N., R.4 W., Tazewell County.	252 --- ---	363 --- ---	439 --- ---	538 --- ---	612 --- ---	688 --- ---
282	*05562000	Farm Creek at East Peoria, Ill. Lat 40°40'04", long 89°34'40", in SW1/4NW1/4 sec.33, T.26 N., R.4 W., Tazewell County.	3,490 --- ---	7,010 --- ---	10,100 --- ---	14,700 --- ---	18,800 --- ---	23,300 --- ---
283	05563000	Kickapoo Creek near Kickapoo, Ill. Lat 40°48'00", long 89°48'00", in SW1/4SE1/4 sec.34, T.10 N., R.6 E., Peoria County.	7,380 4,370 7,060	13,700 7,500 12,900	18,800 9,710 17,300	26,100 12,600 23,500	32,100 14,800 28,500	38,500 16,900 33,900



Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
284	05563100	Kickapoo Creek tributary near Kickapoo, Ill. Lat 40°47'40", long 89°46'30", in NW¼ sec.1, T.9 N., R.6 E., Peoria County.	27 31 28	64 59 63	99 79 94	155 106 141	207 127 182	267 149 229
285	05563500	Kickapoo Creek at Peoria, Ill. Lat 40°40'52", long 89°39'19", in NE¼NW¼ sec.13, T.8 N., R.7 E., Peoria County.	7,690 7,500 7,670	13,000 12,700 13,000	17,500 16,300 17,300	24,500 20,900 23,800	30,700 24,400 29,300	37,800 28,000 35,600
286	05564400	Money Creek near Towanda, Ill. Lat 40°36'19", long 88°53'56", in SW¼SW¼ sec.20, T.25 N., R.3 E., McLean County.	885 1,040 902	1,380 1,790 1,440	1,730 2,320 1,820	2,190 3,010 2,330	2,540 3,520 2,710	2,880 4,050 3,100
287	05564500	Money Creek above Lake Bloomington, Ill. Lat 40°37'13", long 88°54'59", in SE¼SW¼ sec.18, T.25 N., R.3 E., McLean County.	946 951 948	1,520 1,610 1,540	1,970 2,080 1,990	2,590 2,690 2,610	3,090 3,130 3,100	3,640 3,580 3,620
288	05565000	Hickory Creek above Lake Bloomington, Ill. Lat 40°38'15", long 88°57'00", in SW¼SE¼ sec.11, T.25 N., R.2 E., McLean County.	521 384 499	1,000 675 942	1,350 885 1,250	1,790 1,160 1,640	2,120 1,370 1,940	2,430 1,580 2,220
289	05566000	East Branch Panther Creek near Gridley, Ill. Lat 40°46'00", long 88°54'35", between secs.29 and 30, T.27 N., R.3 E., Livingston County.	152 262 162	284 461 314	402 604 446	592 791 643	764 931 811	971 1,070 1,000
290	05566500	East Branch Panther Creek at El Paso, Ill. Lat 40°45'15", long 89°00'20", on line between secs. 32 and 33, T.27 N., R.2 E., Woodford County.	571 592 573	1,100 1,000 1,080	1,580 1,290 1,530	2,390 1,660 2,210	3,150 1,940 2,820	4,060 2,210 3,520
291	05567000	Panther Creek near El Paso, Ill. Lat 40°46'05", long 89°04'30", in center of sec.26, T.27 N., R.1 E., Woodford County.	2,220 1,390 2,140	4,080 2,340 3,850	5,560 3,010 5,150	7,690 3,860 6,950	9,440 4,500 8,410	11,300 5,140 9,950
292	05567500	Mackinaw River near Congerville, Ill. Lat 40°37'25", long 89°14'30", in NE¼SW¼ sec.17, T.25 N., R.1 W., Woodford County.	8,510 5,410 8,280	14,800 8,850 14,100	20,100 11,200 18,700	28,100 14,300 25,300	35,000 16,500 31,000	42,900 18,700 37,200
293	05567800	Indian Creek tributary near Hopedale, Ill. Lat 40°24'35", long 89°27'45", in NW¼NE¼ sec.32, T.23 N., R.3 W., Tazewell County.	192 124 171	331 230 298	432 310 388	562 418 507	662 501 600	762 586 693
294	05568000	Mackinaw River near Green Valley, Ill. Lat 40°26'43", long 89°39'10", in SE¼NW¼ sec.15, T.23 N., R.5 W., Tazewell County.	8,070 8,430 8,090	14,900 13,900 14,800	21,000 17,800 20,700	31,000 22,800 29,800	40,200 26,400 38,000	51,200 30,100 47,500

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
295	*05568500	Illinois River at Kingston Mines, Ill. Lat 40°33'10", long 89°46'40", in SE1/4SE1/4 sec.26, T.7 N., R.6 E., Peoria County.	47,600 ---	63,800 ---	73,500 ---	84,700 ---	92,400 ---	99,600 ---
296	*05568650	Duck Creek near Canton, Ill. Lat 40°32'45", long 89°59'35", in E1/2 sec.36, T.7 N., R.4 E., Fulton County.	67 ---	103 ---	129 ---	163 ---	189 ---	216 ---
297	05568800	Indian Creek near Wyoming, Ill. Lat 41°01'06", long 89°50'07", in SE1/4SE1/4 sec.17, T.12 N., R.6 E., Stark County.	1,510 1,400 1,500	2,420 2,410 2,420	3,110 3,140 3,120	4,100 4,080 4,100	4,920 4,810 4,890	5,810 5,520 5,730
298	05568850	Forman Creek tributary near Victoria, Ill. Lat 41°02'30", long 90°09'20", in SW1/4NW1/4 sec.10, T.12 N., R.3 E., Knox County.	104 138 111	195 259 210	266 350 288	366 474 396	446 570 483	530 668 571
299	05569500	Spoon River at London Mills, Ill. Lat 40°42'32", long 90°16'53", in SW1/4NE1/4 sec.4, T.8 N., R.2 E., Fulton County.	9,930 8,850 9,860	15,500 14,700 15,300	19,700 18,800 19,600	25,800 24,100 25,500	30,900 28,100 30,400	36,500 32,000 35,600
300	05569825	Cedar Creek tributary at St. Augustine, Ill. Lat 40°43'20", long 90°24'40", in E1/2 sec.32, T.9 N., R.1 E., Knox County.	385 339 379	617 621 618	796 834 805	1,050 1,120 1,070	1,260 1,340 1,280	1,490 1,560 1,510
301	05570000	Spoon River at Seville, Ill. Lat 40°29'08", long 90°20'34", in NE1/4NW1/4 sec.24, T.6 N., R.1 E., Fulton County.	12,600 11,600 12,600	19,300 19,100 19,300	23,900 24,300 23,900	29,800 31,100 29,900	34,200 36,200 34,400	38,700 41,200 38,900
302	*05570350	Big Creek at St. David, Ill. Lat 40°29'51", long 90°03'12", in SE1/4SE1/4 sec.16, T.6 N., R.4 E., Fulton County.	872 ---	1,240 ---	1,500 ---	1,820 ---	2,070 ---	2,330 ---
303	*05570360	Evelyn Branch near Bryant, Ill. Lat 40°29'15", long 90°06'08", in NW1/4SW1/4 sec.19, T.6 N., R.4 E., Fulton County.	69 ---	116 ---	149 ---	189 ---	219 ---	247 ---
304	05570370	Big Creek near Bryant, Ill. Lat 40°27'32", long 90°08'00", in center of sec.35, T.6 N., R.3 E., Fulton County.	818 1,370 910	1,060 2,420 1,280	1,200 3,190 1,520	1,350 4,210 1,840	1,450 4,990 2,060	1,540 5,780 2,270
305	*05570380	Slug Run near Bryant, Ill. Lat 40°28'24", long 90°08'37", in SE1/4NE1/4 sec.27, T.6 N., R.3 E., Fulton County.	142 ---	239 ---	304 ---	382 ---	438 ---	491 ---

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
306	05571000	Sangamon River at Mahomet, Ill. Lat 40°11'30", long 88°24'00", in NE1/4SW1/4 sec.15, T.20 N., R.7 E., Champaign County.	4,130 3,730 4,090	7,060 6,210 6,970	9,250 7,960 9,060	12,200 10,200 11,900	14,600 11,900 14,100	17,000 13,500 16,400
307	05572000	Sangamon River at Monticello, Ill. Lat 40°01'51", long 88°35'20", in NE1/4SW1/4 sec.12, T.18 N., R.5 E., Piatt County.	5,420 4,560 5,400	8,950 7,530 8,890	11,500 9,590 11,400	14,700 12,200 14,600	17,200 14,200 17,000	19,700 16,100 19,500
308	05572100	Wildcat Creek tributary near Monticello, Ill. Lat 40°01'37", long 88°38'24", in SW1/4SE1/4 sec.9, T.18 N., R.5 E., Piatt County.	30 19 28	47 36 45	58 48 56	71 65 70	80 78 80	89 91 90
309	05572450	Friends Creek at Argenta, Ill. Lat 39°59'21", long 88°48'18", in SE1/4NE1/4 sec.25, T.18 N., R.3 E., Macon County.	1,630 1,950 1,680	2,770 3,330 2,890	3,660 4,320 3,840	4,970 5,580 5,150	6,040 6,550 6,210	7,230 7,500 7,330
310	05572500	Sangamon River near Oakley, Ill. Lat 39°55'09", long 88°48'09", in SE1/4NE1/4 sec.24, T.17 N., R.3 E., Macon County.	5,650 6,100 5,690	9,200 10,000 9,330	11,900 12,800 12,100	15,800 16,300 15,900	18,900 18,900 18,900	22,300 21,500 22,100
311	05574000	South Fork Sangamon River near Nokomis, Ill. Lat 39°21'12", long 89°15'05", in NE1/4SE1/4 sec.36, T.11 N., R.2 W., Christian County.	1,000 719 968	2,000 1,310 1,850	2,930 1,750 2,620	4,500 2,350 3,840	6,000 2,810 4,950	7,820 3,280 6,270
312	05574500	Flat Branch near Taylorville, Ill. Lat 39°33'14", long 89°15'12", in SE1/4SE1/4 sec.24, T.13 N., R.2 W., Christian County.	3,990 2,860 3,880	6,610 4,750 6,410	8,390 6,070 8,110	10,600 7,740 10,200	12,200 8,990 11,700	13,800 10,300 13,300
313	05575500	South Fork Sangamon River at Kincaid, Ill. Lat 39°34'44", long 89°23'31", in SW1/4NE1/4 sec.14, T.13 N., R.3 W., Christian County.	4,480 5,480 4,520	7,960 9,140 8,040	10,700 11,700 10,800	14,600 15,000 14,600	17,700 17,500 17,700	21,100 20,000 21,000
314	05575800	Horse Creek at Pawnee, Ill. Lat 39°34'56", long 89°34'20", in NE1/4NE1/4 sec.18, T.13 N., R.4 W., Sangamon County.	1,920 1,370 1,820	2,980 2,390 2,870	3,630 3,120 3,530	4,410 4,080 4,340	4,930 4,820 4,900	5,420 5,550 5,450
315	*05576000	South Fork Sangamon River near Rochester, Ill. Lat 39°44'32", long 89°34'02", in NE1/4NW1/4 sec.20, T.15 N., R.4 W., Sangamon County.	5,720 --- ---	9,750 --- ---	12,500 --- ---	15,800 --- ---	18,300 --- ---	20,600 --- ---
316	05576500	Sangamon River at River-ton, Ill. Lat 39°50'34", long 89°32'52", in NW1/4NE1/4 sec.16, T.16 N., R.4 W., Sangamon County.	15,800 12,600 15,700	25,200 20,500 25,000	31,200 26,000 30,900	38,200 33,000 37,900	43,100 38,300 42,800	47,600 43,600 47,300

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
317	05577500	Spring Creek at Springfield, Ill. Lat 39°48'57", long 89°41'57", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.16 N., R.5 W., Sangamon County.	1,810 2,380 1,850	3,690 4,120 3,730	5,220 5,380 5,240	7,410 7,030 7,360	9,200 8,300 9,080	11,100 9,570 10,900
318	05577700	Sangamon River tributary at Andrew, Ill. Lat 39°53'45", long 89°38'50", near center of sec. 27, T.17 N., R.5 W., Sangamon County.	217 215 217	388 404 392	514 548 521	681 746 695	809 899 830	940 1,060 966
319	05578500	Salt Creek near Rowell, Ill. Lat 40°06'54", long 89°02'57", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.19 N., R.1 E., De Witt County.	3,700 3,390 3,670	7,360 5,640 7,160	10,500 7,210 10,100	15,400 9,230 14,400	19,700 10,700 18,000	24,500 12,200 22,000
320	05579500	Lake Fork near Cornland, Ill. Lat 39°57'00", long 89°23'10", in SW $\frac{1}{4}$ sec.1, T.17 N., R.3 W., Logan County.	2,070 3,500 2,150	4,150 5,980 4,360	6,120 7,760 6,380	9,510 10,100 9,620	12,800 11,900 12,600	16,800 13,600 16,100
321	05579750	Kickapoo Creek tributary at Heyworth, Ill. Lat 40°19'05", long 88°58'55", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.22 N., R.2 E., McLean County.	409 231 372	745 420 644	1,030 560 861	1,450 746 1,170	1,810 889 1,440	2,220 1,040 1,720
322	05580000	Kickapoo Creek at Waynesville, Ill. Lat 40°15'20", long 89°07'40", on line between secs.19 and 20, T.21 N., R.1 E., De Witt County.	4,130 3,800 4,110	7,740 6,520 7,570	10,900 8,470 10,500	15,800 11,000 14,800	20,100 13,000 18,600	25,200 14,900 22,800
323	05580500	Kickapoo Creek near Lincoln, Ill. Lat 40°11'30", long 89°21'40", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.20 N., R.2 W., Logan County.	4,520 4,860 4,540	8,300 8,320 8,300	11,500 10,800 11,400	16,400 14,100 16,100	20,700 16,600 20,000	25,500 19,100 24,400
324	*05580700	Salt Creek tributary at Middletown, Ill. Lat 40°06'00", long 89°34'55", in E $\frac{1}{2}$ sec.18, T.19 N., R.4 W., Logan County.	122 --- ---	299 --- ---	456 --- ---	696 --- ---	899 --- ---	1,120 --- ---
325	*05580950	Sugar Creek near Bloomington, Ill. Lat 40°28'18", long 89°01'46", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.23 N., R.2 E., McLean County.	3,240 --- ---	4,130 --- ---	4,710 --- ---	5,430 --- ---	5,950 --- ---	6,480 --- ---
326	05581500	Sugar Creek near Hartsburg, Ill. Lat 40°13'20", long 89°24'12", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.21 N., R.3 W., Logan County.	5,690 5,510 5,680	11,200 9,440 11,000	16,300 12,300 15,600	24,500 16,100 22,800	32,100 18,900 29,200	41,200 21,800 36,600
327	05582000	Salt Creek near Greenville, Ill. Lat 40°08'01", long 89°44'08", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.19 N., R.6 W., Mason County.	12,900 8,830 12,600	21,700 14,700 21,000	28,100 18,700 27,000	36,400 24,000 34,800	42,900 27,900 40,800	49,400 31,800 46,900

Table 1.--7-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
328	05582200	Cabiness Creek tributary near Petersburg, Ill. Lat 40°02'00", long 89°46'35", in NE 1/4 sec. 9, T. 18 N., R. 6 W., Menard County.	126 115 124	313 214 289	497 288 438	800 386 667	1,080 463 867	1,420 542 1,100
329	05582500	Crane Creek near Easton, Ill. Lat 40°14'46", long 89°51'40", in NE 1/4 NW 1/4 sec. 26, T. 21 N., R. 7 W., Mason County.	224 509 239	401 861 431	526 1,100 568	684 1,420 746	800 1,650 879	914 1,880 1,010
330	05583000	Sangamon River near Oakford, Ill. Lat 40°07'25", long 89°59'05", in NW 1/4 SE 1/4 sec. 3, T. 19 N., R. 8 W., Mason County.	22,400 23,000 22,400	38,200 37,100 38,200	49,000 46,900 48,900	62,200 59,400 62,100	71,800 68,700 71,600	80,900 78,000 80,700
331	05584400	Drowning Fork at Bushnell, Ill. Lat 40°33'45", long 90°31'23", in NE 1/4 SE 1/4 sec. 29, T. 7 N., R. 1 W., McDonough County.	664 811 679	1,270 1,420 1,290	1,740 1,850 1,750	2,390 2,420 2,390	2,900 2,860 2,900	3,440 3,300 3,410
332	05584450	Wigwam Hollow Creek near Macomb, Ill. Lat 40°29'05", long 90°42'25", in SE 1/4 SW 1/4 sec. 23, T. 6 N., R. 3 W., McDonough County.	211 155 197	343 301 331	432 415 427	543 574 552	625 700 647	705 832 741
333	05584500	La Moine River at Colmar, Ill. Lat 40°19'45", long 90°53'55", in SE 1/4 SW 1/4 sec. 18, T. 4 N., R. 4 W., McDonough County.	8,470 8,300 8,450	15,200 14,100 15,100	20,400 18,300 20,200	27,600 23,700 27,100	33,300 27,900 32,500	39,300 32,100 38,200
334	*05584950	West Creek at Mount Sterling, Ill. Lat 39°59'45", long 90°46'05", near center of sec. 8, T. 1 S., R. 3 W., Brown County.	230 --- ---	369 --- ---	470 --- ---	605 --- ---	712 --- ---	822 --- ---
335	05585000	La Moine River at Ripley, Ill. Lat 40°01'28", long 90°37'55", in SW 1/4 NE 1/4 sec. 33, T. 1 N., R. 2 W., Brown County.	8,950 10,200 8,990	14,000 16,900 14,100	17,500 21,600 17,800	22,300 27,600 22,800	26,100 32,100 26,600	29,900 36,600 30,500
336	05585220	Indian Creek tributary near Sinclair, Ill. Lat 39°48'42", long 90°06'15", in NW 1/4 sec. 27, T. 16 N., R. 9 W., Morgan County.	392 354 385	724 656 713	971 883 955	1,300 1,190 1,270	1,550 1,430 1,520	1,790 1,680 1,770
337	*05585500	Illinois River at Meredosia, Ill. Lat 39°49'24", long 90°34'05", in SE 1/4 sec. 21, T. 16 N., R. 13 W., Morgan County.	62,700 --- ---	86,000 --- ---	99,800 --- ---	116,000 --- ---	126,000 --- ---	137,000 --- ---
338	05585700	Dry Fork tributary near Mount Sterling, Ill. Lat 39°57'46", long 90°45'35", in SW 1/4 sec. 21, T. 1 S., R. 3 W., Brown County.	32 38 33	51 73 55	64 100 70	80 136 91	92 164 106	104 193 122

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
339	05586000	North Fork Mauvaise Terre Creek near Jacksonville, Ill. Lat 39°45'38", long 90°08'07", in SE1/4NW1/4 sec.8, T.15 N., R.9 W., Morgan County.	942 1,430 977	1,900 2,470 1,950	2,590 3,200 2,650	3,480 4,140 3,550	4,110 4,850 4,200	4,720 5,570 4,830
340	05586200	Illinois River tributary at Florence, Ill. Lat 39°37'55", long 90°37'05", in NE1/4NW1/4 sec.15, T.5 S., R.2 W., Pike County.	324 223 304	561 430 536	718 587 692	906 805 885	1,040 975 1,020	1,160 1,150 1,160
341	05586350	Little Sandy Creek tributary near Murrayville, Ill. Lat 39°36'05", long 90°17'45", in NW1/4 sec.2, T.13 N., R.11 W., Morgan County.	408 410 409	791 762 783	1,080 1,030 1,060	1,460 1,380 1,430	1,750 1,650 1,720	2,050 1,940 2,010
342	05586500	Hurricane Creek near Roodhouse, Ill. Lat 39°29'20", long 90°25'00", in NE1/4 sec.15, T.12 N., R.12 W., Greene County.	208 336 219	397 610 423	553 805 589	783 1,070 830	979 1,270 1,030	1,190 1,470 1,240
343	05586850	Bear Creek tributary near Readers, Ill. Lat 39°17'40", long 90°01'05", in SE1/4 sec.19, T.10 N., R.8 W., Macoupin County.	12 13 12	21 24 22	29 32 29	39 44 40	48 52 49	57 61 58
344	05587000	Macoupin Creek near Kane, Ill. Lat 39°14'03", long 90°23'40", in SE1/4SE1/4 sec.11, T.9 N., R.12 W., Greene County.	9,790 11,800 9,890	17,800 19,300 17,900	23,600 24,400 23,600	31,000 30,800 31,000	36,600 35,600 36,600	42,300 40,500 42,100
345	05587850	Cahokia Creek tributary No. 2 near Carpenter, Ill. Lat 38°52'40", long 89°54'30", in SE1/4SE1/4 sec.18, T.5 N., R.7 W., Madison County.	156 121 150	299 225 284	407 301 385	557 404 521	675 482 627	796 562 736
346	05587900	Cahokia Creek at Edwardsville, Ill. Lat 38°49'28", long 89°58'29", in NW1/4SE1/4 sec.3, T.4 N., R.8 W., Madison County.	4,780 5,660 4,910	6,700 9,570 7,110	7,780 12,300 8,470	8,930 15,800 10,100	9,680 18,400 11,200	10,300 21,000 12,200
347	05588000	Indian Creek at Wanda, Ill. Lat 38°50'30", long 90°01'59", in SE1/4NW1/4 sec.31, T.5 N., R.8 W., Madison County.	1,860 1,880 1,860	3,470 3,260 3,440	4,790 4,230 4,720	6,730 5,500 6,550	8,380 6,440 8,070	10,200 7,410 9,730
348	05589500	Canteen Creek at Caseyville, Ill. Lat 38°38'35", long 90°01'00", in N1/2NW1/4 sec.8, T.2 N., R.8 W., St. Clair County.	1,810 1,510 1,790	3,250 2,640 3,180	4,380 3,460 4,260	5,970 4,520 5,750	7,260 5,330 6,950	8,670 6,150 8,240

Table 1.--7-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
349	*05589780	Little Canteen Creek tributary near Collinsville, Ill. Lat 38°37'38", long 89°59'04", in NW1/4NW1/4 sec.15, T.2 N., R.8 W., St. Clair County.	171 --- ---	378 --- ---	561 --- ---	844 --- ---	1,090 --- ---	1,360 --- ---
350	05590000	Kaskaskia Ditch at Bondville, Ill. Lat 40°06'47", long 88°20'55", in NW1/4NW1/4 sec.18, T.19 N., R.8 E., Champaign County.	362 723 383	640 1,250 695	865 1,630 948	1,200 2,110 1,320	1,480 2,470 1,620	1,790 2,820 1,950
351	05590400	Kaskaskia River near Pesotum, Ill. Lat 39°52'44", long 88°22'35", on north boundary of sec.2, T.16 N., R.7 E., Douglas County.	1,810 1,790 1,810	2,450 2,910 2,540	2,860 3,660 3,030	3,360 4,570 3,660	3,710 5,250 4,100	4,060 5,900 4,540
352	05590500	Kaskaskia River at Ficklin, Ill. Lat 39°48'00", long 88°21'55", in SW1/4NW1/4 sec.36, T.16 N., R.7 E., Douglas County.	1,950 1,910 1,940	3,220 3,100 3,180	4,110 3,870 4,050	5,270 4,840 5,130	6,150 5,550 5,940	7,030 6,220 6,750
353	05590800	Lake Fork at Atwood, Ill. Lat 39°48'30", long 88°28'34", in NE1/4NW1/4 sec.36, T.16 N., R.6 E., Piatt County.	2,370 2,380 2,380	3,070 3,880 3,250	3,500 4,880 3,840	4,010 6,110 4,570	4,370 7,010 5,110	4,710 7,910 5,610
354	05591200	Kaskaskia River at Cooks Mills, Ill. Lat 39°35'01", long 88°24'50", in NW1/4SW1/4 sec.10, T.13 N., R.7 E., Coles County.	5,090 4,530 5,000	7,400 7,190 7,360	8,830 8,950 8,850	10,500 11,100 10,700	11,700 12,700 12,000	12,900 14,200 13,200
355	05591500	Asa Creek at Sullivan, Ill. Lat 39°37'11", long 88°36'17", in NE1/4NE1/4 sec.35, T.14 N., R.5 E., Moultrie County.	338 365 340	658 618 653	904 791 889	1,250 1,010 1,210	1,520 1,170 1,460	1,790 1,330 1,710
356	05591750	Stringtown Branch tributary near Lake City, Ill. Lat 39°46'15", long 88°43'10", in SE1/4 sec.2, T.15 N., R.4 E., Moultrie County.	52 97 58	86 173 98	109 226 126	138 296 163	158 348 190	178 400 216
357	05592000	Kaskaskia River at Shelbyville, Ill. Lat 39°24'25", long 88°46'50", in SE1/4SW1/4 sec.8, T.11 N., R.4 E., Shelby County.	9,420 8,280 9,330	16,000 13,100 15,800	20,600 16,300 20,100	26,100 20,100 25,400	30,100 23,000 29,200	34,000 25,700 32,900
358	05592025	Mud Creek tributary near Tower Hill, Ill. Lat 39°25'55", long 88°57'20", in NE1/4 sec.3, T.11 N., R.2 E., Shelby County.	114 66 104	224 122 195	316 164 267	454 220 372	573 263 458	703 307 553
359	*05592100	Kaskaskia River near Cowden, Ill. Lat 39°13'50", long 88°50'33", in NW1/4NW1/4 sec.14, T.9 N., R.3 E., Shelby County.						

- Affected by upstream reservoir -

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
360	05592300	Wolf Creek near Beecher City, Ill. Lat 39°09'30", long 88°48'20", in NE1/4NE1/4 sec.12, T.8 N., R.3 E., Fayette County.	3,000 1,820 2,820	5,010 3,110 4,670	6,410 4,010 5,920	8,180 5,150 7,500	9,510 6,010 8,690	10,800 6,870 9,860
361	05592500	Kaskaskia River at Vandalia, Ill. Lat 38°57'35", long 89°05'20", in SE1/4 sec.16, T.6 N., R.1 E., Fayette County.	12,900 14,600 12,900	22,000 23,100 22,100	29,400 28,800 29,400	40,600 35,800 40,000	50,100 40,900 49,000	60,800 45,900 58,700
362	05592700	Hurricane Creek tributary near Witt, Ill. Lat 39°13'00", long 89°15'15", in SE1/4 sec.13, T.9 N., R.2 W., Montgomery County.	72 36 65	98 66 92	114 87 109	132 115 129	145 136 143	157 157 157
363	05592800	Hurricane Creek near Mulberry Grove, Ill. Lat 38°55'21", long 89°14'14", in NW1/4SE1/4 sec.31, T.6 N., R.1 W., Fayette County.	8,240 4,290 7,290	12,800 7,240 11,400	15,700 9,290 13,900	19,200 11,900 17,000	21,700 13,900 19,200	24,000 15,900 21,400
364	05593000	Kaskaskia River at Carlyle, Ill. Lat 38°36'42", long 89°21'22", in SE1/4 sec.18, T.2 N., R.2 W., Clinton County.	13,900 18,300 14,100	24,500 29,000 24,800	32,500 36,000 32,800	43,300 44,800 43,400	51,600 51,100 51,500	60,300 57,300 59,800
365	05593520	Crooked Creek near Hoffman, Ill. Lat 38°30'25", long 89°16'24", in NE1/4NE1/4 sec.26, T.1 N., R.2 W., Washington County.	5,070 4,830 5,020	8,040 7,980 8,020	9,890 10,100 9,930	12,000 12,900 12,300	13,500 14,900 13,900	14,900 16,900 15,500
366	05593575	Little Crooked Creek near New Minden, Ill. Lat 38°26'30", long 89°25'00", in SW1/4NE1/4 sec.15, T.1 S., R.3 W., Washington County.	3,730 2,550 3,520	6,310 4,310 5,900	8,090 5,510 7,500	10,400 7,050 9,510	12,000 8,200 11,000	13,600 9,350 12,400
367	05593600	Blue Grass Creek near Raymond, Ill. Lat 39°16'07", long 89°32'02", in NE1/4SE1/4 sec.33, T.10 N., R.4 W., Montgomery County.	1,000 662 955	1,460 1,120 1,410	1,740 1,430 1,690	2,060 1,820 2,020	2,290 2,110 2,250	2,490 2,400 2,470
368	05593700	Blue Grass Creek tributary near Raymond, Ill. Lat 39°16'46", long 89°33'24", in SE1/4 sec.29, T.10 N., R.4 W., Montgomery County.	147 81 127	213 148 191	258 197 235	313 262 293	355 311 338	396 361 383
369	05593900	East Fork Shoal Creek near Coffeen, Ill. Lat 39°08'56", long 89°21'08", in NW1/4SE1/4 sec.7, T.8 N., R.2 W., Montgomery County.	2,130 1,880 2,090	3,310 3,200 3,300	4,140 4,100 4,130	5,210 5,260 5,220	6,010 6,120 6,040	6,840 6,980 6,870
370	05594000	Shoal Creek near Breese, Ill. Lat 38°36'35", long 89°29'40", in SW1/4SW1/4 sec.13, T.2 N., R.4 W., Clinton County.	9,040 10,300 9,120	15,800 16,900 15,900	20,900 21,400 20,900	27,700 27,100 27,700	33,100 31,300 32,900	38,600 35,500 38,200



Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
371	05594090	Sugar Creek at Albers, Ill. Lat 38°32'29", long 89°37'36", in SW1/4SW1/4 sec.11, T.1 N., R.5 W., Clinton County.	3,720 3,010 3,520	6,530 5,020 6,080	8,570 6,400 7,830	11,200 8,150 10,000	13,200 9,440 11,700	15,200 10,700 13,400
372	*05594100	Kaskaskia River near Venedy Station, Ill. Lat 38°27'02", long 89°37'39", in NW1/4NW1/4 sec.14, T.1 S., R.5 W., Washington County.				- Affected by upstream reservoir -		
373	05594200	Williams Creek near Cordes, Ill. Lat 38°19'40", long 89°28'35", in NW1/4 sec.30, T.2 S., R.3 W., Washington County.	339 262 323	598 473 564	800 624 746	1,080 822 998	1,320 973 1,200	1,570 1,130 1,410
374	05594330	Mud Creek near Marissa, Ill. Lat 38°15'46", long 89°43'56", in NE1/4NW1/4 sec.23, T.3 S., R.6 W., St. Clair County.	1,870 2,750 2,040	3,240 4,700 3,620	4,310 6,070 4,840	5,820 7,820 6,520	7,080 9,160 7,830	8,430 10,500 9,200
375	05594450	Silver Creek near Troy, Ill. Lat 38°43'00", long 89°49'45", in SE1/4SW1/4 sec.12, T.3 N., R.7 W., Madison County.	3,840 4,200 3,880	6,870 7,080 6,900	8,910 9,060 8,950	11,400 11,600 11,500	13,200 13,500 13,300	14,900 15,500 15,000
376	05594800	Silver Creek near Freeburg, Ill. Lat 38°24'22", long 89°52'26", in NE1/4NE1/4 sec.33, T.1 S., R.7 W., St. Clair County.	4,590 7,740 5,010	8,300 12,800 8,950	10,800 16,200 11,700	13,900 20,600 15,200	16,100 23,800 17,700	18,200 27,000 20,000
377	05595000	Kaskaskia River at New Athens, Ill. Lat 38°19'45", long 89°52'45", in SW1/4NE1/4 sec.28, T.2 S., R.7 W., St. Clair County.	23,000 31,300 23,300	42,100 49,400 42,600	56,800 61,400 57,100	77,300 76,400 77,100	93,500 87,300 92,900	111,000 98,200 109,000
378	05595200	Richland Creek near Hecker, Ill. Lat 38°19'26", long 89°58'15", in SW1/4SE1/4 sec.27, projected, T.2 S., R.8 W., St. Clair County.	4,710 4,580 4,690	7,820 7,850 7,830	10,000 10,200 10,000	12,800 13,200 12,900	14,900 15,400 15,000	16,900 17,700 17,100
379	05595500	Marys River near Sparta, Ill. Lat 38°06'29", long 89°38'56", in NE1/4SE1/4 sec.9, T.5 S., R.5 W., Randolph County.	1,450 1,170 1,410	2,880 2,060 2,700	4,140 2,680 3,750	6,110 3,490 5,280	7,830 4,110 6,610	9,820 4,730 8,050
380	05595510	Lick Branch near Eden, Ill. Lat 38°05'55", long 89°37'22", in NW1/4 sec.14, T.5 S., R.5 W., Randolph County.	161 262 180	322 483 369	466 646 526	693 863 757	899 1,030 951	1,140 1,200 1,160
381	*05595550	Marys River tributary at Chester, Ill. Lat 37°55'27", long 89°48'26", in SE1/4NW1/4 sec.18, T.7 S., R.6 W., Randolph County.	267 --- ---	384 --- ---	461 --- ---	556 --- ---	627 --- ---	696 --- ---

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
382	05595800	Sevenmile Creek near Mt. Vernon, Ill. Lat 38°19'10", long 88°50'50", in NW1/4SW1/4 sec.26, T.2 S., R.3 E., Jefferson County.	1,030 1,410 1,070	1,560 2,260 1,670	1,930 2,850 2,090	2,400 3,600 2,630	2,750 4,160 3,030	3,110 4,710 3,440
383	05596000	Big Muddy River near Benton, Ill. Lat 37°59'40", long 88°58'30", in NE1/4NW1/4 sec.22, T.6 S., R.2 E., Franklin County.	7,460 6,300 7,350	14,200 9,350 13,300	19,800 11,300 17,900	28,200 13,700 24,500	35,500 15,400 29,900	43,600 17,100 35,600
384	05596100	Andy Creek tributary at Valier, Ill. Lat 38°01'15", long 89°02'40", in NW1/4NE1/4 sec.12, T.6 S., R.1 E., Franklin County.	254 223 247	455 378 436	604 488 571	802 628 750	955 735 887	1,110 841 1,030
385	05597000	Big Muddy River at Plumfield, Ill. Lat 37°54'05", long 89°00'50", in NW1/4 sec.20, T.7 S., R.2 E., Franklin County.	7,710 8,360 7,730	12,800 12,300 12,800	16,300 14,900 16,200	20,400 17,900 20,300	23,400 20,200 23,200	26,300 22,300 26,000
385	*05597000	Big Muddy River at Plumfield, Ill. Lat 37°54'05", long 89°00'50", in NW1/4 sec.20, T.7 S., R.2 E., Franklin County.	4,900 --- ---	7,320 --- ---	8,930 --- ---	10,900 --- ---	12,400 --- ---	13,900 --- ---
386	*05597450	Crab Orchard Creek tributary near Pittsburg, Ill. Lat 37°46'18", long 88°47'52", in SW1/4NW1/4 sec.5, T.9 S., R.4 E., Williamson County.	221 --- ---	285 --- ---	327 --- ---	379 --- ---	419 --- ---	458 --- ---
387	05597500	Crab Orchard Creek near Marion, Ill. Lat 37°43'52", long 88°53'21", in SW1/4SW1/4 sec.16, T.9 S., R.3 E., Williamson County.	1,540 1,570 1,550	2,520 2,490 2,520	3,180 3,110 3,170	4,000 3,890 3,980	4,590 4,470 4,580	5,180 5,040 5,150
388	05599000	Beaucoup Creek near Matthews, Ill. Lat 37°58'00", long 89°21'00", in SW1/4 sec.29, T.6 S., R.2 W., Perry County.	4,720 5,300 4,760	8,970 8,040 8,870	12,500 9,790 12,100	17,700 12,000 16,700	22,100 13,600 20,500	27,000 15,100 24,600
389	05599500	Big Muddy River at Murphysboro, Ill. Lat 37°44'55", long 89°20'45", in SE1/4 sec.8, T.9 S., R.2 W., Jackson County.	12,800 16,200 12,900	20,500 23,600 20,700	25,500 28,200 25,600	31,400 34,000 31,600	35,600 38,000 35,800	39,500 42,000 39,700
389	*05599500	Big Muddy River at Murphysboro, Ill. Lat 37°44'55", long 89°20'45", in SE1/4 sec.8, T.9 S., R.2 W., Jackson County.	13,500 --- ---	20,500 --- ---	25,200 --- ---	31,000 --- ---	35,200 --- ---	39,200 --- ---
390	05599560	Clay Lick Creek near Makanda, Ill. Lat 37°36'00", long 89°14'25", in SW1/4 sec.32, T.10 S., R.1 W., Jackson County.	736 465 671	1,300 798 1,130	1,770 1,040 1,480	2,460 1,350 1,990	3,050 1,590 2,420	3,720 1,830 2,880

Table 1.--T-year peak discharges at gaging stations--Continued

Map No.	Station No.	Station name and location	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
391	*05599580	Big Muddy River tributary near Gorham, Ill. Lat 37°40'21", long 89°28'49", in NW1/4NE1/4 sec.7, T.10 S., R.3 W., Jackson County.	38 --- ---	65 --- ---	86 --- ---	114 --- ---	137 --- ---	161 --- ---
392	05599640	Green Creek tributary near Jonesboro, Ill. Lat 37°27'55", long 89°18'40", in NE1/4NE1/4 sec.22, T.12 S., R.2 W., Union County.	266 199 254	418 351 405	516 461 506	638 610 632	724 723 724	809 839 815
393	05599800	Orchard Creek near Fayetteville, Ill. Lat 37°11'35", long 89°24'35", in SE1/4SW1/4 sec.23, T.15 S., R.3 W., Alexander County.	61 74 65	100 133 112	129 177 147	167 237 194	199 282 231	232 330 269
394	05600000	Big Creek near Wetaug, Ill. Lat 37°19'00", long 89°07'55", in SW1/4 sec.5, T.14 S. R.1 E., Pulaski County.	2,170 1,870 2,150	2,950 2,990 2,960	3,500 3,760 3,540	4,230 4,740 4,320	4,810 5,470 4,920	5,410 6,180 5,550

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations

[A, drainage area; S, slope; I, rainfall intensity, RI, recurrence interval; mi<sup>2</sup>, square miles; ft/mi, feet per mile; in., inches; ft<sup>3</sup>/s, cubic feet per second; yrs, years; equivalent years of record is associated with the regression estimating equations. Footnotes are at end of table.]

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood	
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s) (yrs)
1	03336100	25	1.05	21.01	2.9	I	3.7	4.1	4.6	5.3	5.7	5.9	6.2	1959	249
2	03336500	33	35.0	6.92	3.0	I	3.3	4.2	5.0	5.8	6.2	6.5	6.8	1968	5,160
3	03336900	27	134	5.49	3.0	I	3.1	4.9	6.1	7.2	7.7	8.0	8.3	1968	6,860
5	03337500	39	68.0	2.59	3.0	I	2.9	3.3	3.9	4.6	5.0	5.3	5.6	1964	4,080
6	03338000	37	340	3.01	3.0	I	2.9	3.5	4.2	4.9	5.3	5.6	6.0	1964	10,100
7	03338100	22	2.20	15.81	3.0	I	3.6	3.6	4.1	4.8	5.1	5.4	5.7	1980	640
8	03338500	19	958	3.12	3.0	I	2.9	4.2	5.1	6.0	6.5	6.9	7.2	1943	36,000
9	03338800	21	1.31	33.21	3.0	I	3.9	6.0	7.0	8.0	8.3	8.5	8.6	1974	1,600
10	03339000	63	1,290	3.22	3.0	I	2.9	3.7	4.4	5.2	5.6	6.0	6.3	1939	48,700
11	03341700	15	1.08	44.35	3.1	I	4.1	6.7	8.0	9.0	9.3	9.5	9.4	1961	511
12	03341900	25	.04	52.80	3.2	I	4.4	5.0	5.6	6.2	6.5	6.7	6.8	1974	48
13	03343400	25	186	2.96	3.1	I	3.0	3.1	3.6	4.2	4.6	4.9	5.2	1979	6,240
14	03344000	21	919	1.53	3.1	I	2.7	3.9	4.8	5.7	6.2	6.6	7.0	1985	20,400
15	03344250	25	.08	10.51	3.2	I	3.3	4.7	5.5	6.3	6.6	6.9	7.0	1974	68
16	03344425	18	.07	97.15	3.2	I	4.7	6.8	7.6	8.3	8.6	8.7	8.6	1974	112
17	03344500	35	7.61	15.73	3.2	I	3.7	5.8	6.9	7.9	8.4	8.6	8.6	1961	3,500
18	03345500	74	1,516	1.58	3.2	I	2.8	3.8	4.5	5.4	5.8	6.2	6.5	1950	44,800
19	03346000	45	318	4.33	3.2	I	3.2	3.8	4.5	5.2	5.6	5.9	6.2	1950	27,100
20	03378000	45	228	2.85	3.3	I	3.0	4.7	5.8	6.9	7.4	7.7	7.9	1961	7,500
21	03378635	19	240	5.34	3.2	I	3.3	4.5	5.4	6.2	6.7	7.0	7.2	1970	10,300
22	03378650	17	1.62	19.59	3.3	I	3.9	5.9	7.0	7.9	8.3	8.5	8.5	1970	930
23	03378900	20	745	2.66	3.3	I	3.1	3.8	4.4	5.2	5.6	5.9	6.2	1968	24,000
24	03378980	22	.43	73.61	3.2	I	4.7	5.2	5.7	6.4	6.7	6.9	7.0	1971	409
25	03379500	71	1,131	2.01	3.3	I	2.9	4.1	4.9	5.8	6.2	6.6	6.9	1950	47,000
26	03379650	21	1.62	36.06	3.3	I	4.2	7.0	8.3	9.3	9.6	9.8	9.6	1961	1,550
27	03380300	25	.08	98.74	3.4	I	5.0	6.5	7.2	7.8	8.0	8.1	8.1	1961	152
28	03380350	18	208	2.78	3.3	I	3.1	3.9	4.6	5.3	5.7	6.0	6.3	1968	19,000
29	03380400	12	1.13	36.06	3.4	I	4.4	6.2	7.1	7.8	8.1	8.3	8.3	1968	570
30	03380450	25	.43	87.65	3.4	I	4.9	6.1	6.7	7.3	7.6	7.7	7.7	1975	323
31	03380475	25	97.2	4.07	3.4	I	3.3	4.5	5.3	6.2	6.6	6.9	7.1	1961	17,100

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood	
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s)
							Equivalent years of record								
32	03380500	68	464	1.90	3.4	I	3.0	4.0	4.8	5.6	6.1	6.4	6.7	1961	51,000
33	03381500	46	3,102	1.16	3.3	I	2.7	4.2	5.3	6.3	6.9	7.3	7.6	1961	46,900
34	03381600	17	.16	89.76	3.3	I	4.7	7.1	8.1	8.9	9.1	9.2	9.0	1974	484
35	03382025	22	.52	75.50	3.5	IV	4.6	6.6	7.5	8.1	8.3	8.4	8.3	1969	563
36	03382100	20	147	4.26	3.5	IV	3.2	4.2	4.9	5.6	5.9	6.2	6.4	1982	5,160
37	03382170	14	13.3	12.16	3.4	IV	3.5	5.9	7.2	8.2	8.7	8.9	8.9	1977	2,590
39	03382510	16	8.51	25.49	3.4	IV	4.0	4.5	5.0	5.6	5.9	6.1	6.2	1973	668
40	03382520	13	1.10	28.25	3.4	IV	4.0	5.6	6.5	7.2	7.5	7.7	7.7	1969	695
41	03384450	18	42.9	16.23	3.5	IV	3.7	5.9	7.0	7.9	8.3	8.5	8.5	1985	16,100
42	03385000	36	19.1	21.44	3.5	IV	3.8	6.0	7.0	7.9	8.2	8.4	8.4	1985	9,450
43	03385500	26	1.05	145.20	3.5	IV	5.0	5.8	6.3	6.8	7.0	7.1	7.1	1958	1,500
45	03612000	63	244	2.69	3.5	IV	3.0	3.7	4.4	5.0	5.4	5.6	5.9	1935	9,630
46	03612200	21	.27	140.98	3.5	IV	4.9	7.2	8.1	8.7	8.9	8.9	8.7	1967	392
47	03614000	14	1.95	23.87	3.6	IV	4.0	6.1	7.1	7.9	8.2	8.4	8.4	1966	754
48	04087300	17	1.5	34.32	2.7	I	3.1	5.1	6.2	7.3	7.8	8.0	8.2	1969	355
49	04087400	15	5.04	21.67	2.6	I	2.4	3.8	4.8	5.7	6.2	6.5	6.9	1969	937
50	05414820	18	39.6	18.91	3.0	I	3.6	5.5	6.6	7.6	8.1	8.3	8.4	1969	11,600
51	05415000	45	125	11.32	3.0	I	3.1	6.4	8.4	10.0	10.7	11.1	11.1	1969	29,700
52	05415500	30	20.1	37.30	3.0	I	3.8	6.1	7.3	8.3	8.7	8.9	8.9	1947	16,600
53	05418750	20	1.93	35.20	3.0	I	4.1	4.5	5.1	5.8	6.1	6.4	6.6	1974	520
54	05418800	20	.86	157.87	3.0	I	4.7	5.9	6.6	7.2	7.5	7.6	7.6	1965	862
55	05419000	51	247	10.93	3.0	I	3.3	4.8	5.7	6.6	7.1	7.4	7.6	1946	12,000
56	05420000	37	230	6.55	3.0	I	3.2	4.4	5.2	6.1	6.6	6.9	7.1	1946	11,600
57	05430500	69	3,340	0.74	2.8	I	2.2	2.6	3.1	3.8	4.2	4.5	5.0	1929	13,000
58	05431500	42	202	2.68	2.8	I	2.6	3.4	4.1	4.9	5.4	5.7	6.1	1973	16,500
59	05434500	45	1,034	2.27	2.9	I	2.7	3.7	4.6	5.5	6.0	6.3	6.7	1969	15,100
60	05435000	25	1.31	40.90	3.0	I	4.1	4.8	5.4	6.1	6.4	6.6	6.8	1974	698
61	05435500	72	1,326	1.61	3.0	I	2.6	4.0	4.9	5.9	6.5	6.8	7.2	1929	18,400
62	05435650	16	1.95	29.36	3.0	I	3.9	5.3	6.1	6.9	7.3	7.5	7.7	1974	660
63	05436500	70	523	3.18	2.9	I	2.8	3.7	4.4	5.2	5.7	6.0	6.3	1915	14,800
64	05436900	20	.55	97.11	2.9	I	4.2	6.3	7.3	8.1	8.4	8.6	8.5	1969	187
65	05437000	32	2,550	0.92	2.9	I	2.4	2.9	3.5	4.2	4.6	5.0	5.4	1959	16,600
66	05437500	56	6,363	0.84	2.7	I	2.0	2.4	3.0	3.6	4.0	4.3	4.7	1916	32,500
67	05437600	16	2.21	40.26	2.8	I	3.7	3.9	4.4	5.0	5.4	5.6	5.9	1974	308
68	05437950	14	14.4	7.38	2.7	I	2.7	3.0	3.6	4.2	4.6	4.8	5.2	1972	192

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years						Maximum flood			
							2	5	10	25	50	100	500	Dis-charge (ft <sup>3</sup> /s)	RI (yrs)	
69	05438250	24	85.1	5.72	2.8	I	2.9	3.0	3.5	4.1	4.5	4.8	5.1	1978	5,090	>100
70	05438300	20	.84	87.34	2.8	I	4.0	5.1	5.8	6.4	6.8	7.0	7.1	1972	180	8
71	05438390	10	88.1	8.27	2.8	I	2.9	4.4	5.3	6.3	6.8	7.1	7.4	1973	4,000	25
72	05438500	46	538	4.59	2.8	I	2.7	3.4	4.0	4.8	5.2	5.5	5.8	1943	10,300	20
73	05438850	25	1.67	28.72	2.9	I	3.8	4.6	5.3	6.1	6.4	6.7	6.9	1959	393	25
74	05439000	14	77.7	2.65	2.9	I	2.6	4.6	5.8	7.1	7.7	8.2	8.5	1983	3,500	>100
75	05439500	46	387	2.27	2.8	I	2.5	2.5	3.0	3.6	4.0	4.2	4.6	1973	8,460	25
76	05439550	18	1.71	53.75	2.8	I	3.8	4.6	5.3	6.0	6.4	6.6	6.8	1971	452	25
77	05440000	46	1,099	4.07	2.8	I	2.7	3.0	3.5	4.1	4.5	4.8	5.1	1979	16,700	15
78	05440500	41	117	6.34	2.9	I	3.1	3.0	3.5	4.2	4.5	4.8	5.1	1955	6,100	15
79	05440650	18	1.00	33.16	2.9	I	3.8	5.1	5.9	6.7	7.1	7.3	7.4	1971	297	30
80	05440900	23	.15	144.14	3.0	I	4.5	7.4	8.6	9.4	9.7	9.7	9.5	1958	212	25
81	05441000	43	103	10.45	2.9	I	3.3	3.6	4.2	4.9	5.3	5.5	5.8	1972	7,950	15
82	05441500	10	8,205	0.95	2.8	I	2.2	3.1	3.9	4.8	5.3	5.6	6.1	1946	45,500	15
83	05442000	12	116	5.17	2.9	I	3.0	4.3	5.2	6.2	6.7	7.0	7.3	1951	2,630	10
84	05443500	70	8,753	1.00	2.8	I	2.2	2.4	2.8	3.4	3.7	4.0	4.4	1973	59,700	>100
85	05444000	46	146	4.28	3.0	I	3.1	3.3	3.9	4.6	4.9	5.2	5.6	1974	6,770	35
86	05444100	14	1.42	60.19	3.0	I	4.3	5.1	5.7	6.4	6.7	6.9	7.1	1965	832	30
87	05446000	40	164	3.48	3.0	I	2.9	4.6	5.7	6.8	7.4	7.7	8.0	1946	5,770	100
88	05446500	46	9,549	1.11	2.9	I	2.4	2.8	3.3	4.0	4.4	4.7	5.1	1948	46,200	20
89	05446950	16	.53	86.23	3.0	I	4.3	6.8	7.9	8.8	9.1	9.2	9.1	1967	493	30
90	05447000	42	201	3.85	2.9	I	2.9	2.9	3.4	4.1	4.4	4.7	5.0	1981	7,600	>100
91	05447050	14	4.95	20.91	3.0	I	3.7	5.5	6.5	7.4	7.8	8.0	8.2	1969	431	10
93	05447350	16	1.22	32.52	3.1	I	3.9	6.8	8.3	9.4	9.9	10.0	19.9	1967	890	>100
94	05447500	50	1,003	2.53	3.0	I	2.8	3.0	3.5	4.1	4.5	4.8	5.1	1974	12,100	35
95	05448000	46	62.4	7.44	3.2	I	3.5	4.0	4.7	5.4	5.8	6.0	6.3	1973	9,300	40
96	05448050	25	.22	67.06	3.2	I	4.5	6.7	7.7	8.4	8.7	8.8	8.8	1980	168	20
97	05466000	45	155	5.07	3.2	III	3.2	3.3	3.8	4.4	4.7	5.0	5.3	1951	8,910	>100
98	05466500	51	445	2.69	3.2	III	3.0	3.6	4.2	5.0	5.4	5.6	6.0	1973	18,000	>100
99	05467000	51	174	3.59	3.2	III	3.1	4.2	5.0	5.9	6.3	6.6	6.9	1973	8,900	>100
100	05467500	41	151	4.22	3.2	III	2.9	5.7	7.5	9.0	9.7	10.1	10.2	1982	23,400	>100
101	05468000	11	67.1	5.02	3.2	III	3.3	3.6	4.1	4.8	5.1	5.4	5.7	1950	1,740	6
102	05468500	44	130	4.49	3.2	III	3.2	4.3	5.0	5.8	6.3	6.6	6.8	1982	12,600	90
103	05469000	51	432	3.96	3.2	III	3.0	5.3	6.7	8.0	8.6	8.9	9.1	1982	34,600	>100
104	05469500	42	82.9	6.12	3.2	III	3.1	6.1	8.0	9.6	10.3	10.6	10.7	1982	10,500	>100

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood		
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s)	RI (yrs)
105	05469750	25	.26	28.78	3.2	III	4.0	4.5	5.1	5.7	6.0	6.3	6.4	1958	182	60
106	05495200	24	1.45	34.48	3.3	I	4.4	5.2	5.8	6.5	6.8	7.0	7.2	1958	1,110	20
107	05495500	42	349	3.70	3.3	I	3.2	3.9	4.5	5.3	5.7	5.9	6.3	1985	29,500	90
108	05496900	21	.50	105.60	3.3	I	5.0	5.5	6.0	6.6	6.9	7.1	7.1	1960	616	10
109	05501500	15	.32	66.53	3.4	I	4.8	5.9	6.5	7.2	7.4	7.6	7.6	1962	796	70
110	05502020	30	40.9	19.75	3.4	I	4.1	4.7	5.3	6.0	6.3	6.5	6.7	1979	9,000	20
111	05502040	45	72.7	15.00	3.4	I	3.9	4.3	4.8	5.5	5.9	6.1	6.3	1944	15,000	20
112	05502120	25	.78	78.67	3.4	I	4.8	6.8	7.7	8.4	8.7	8.8	8.7	1966	1,330	60
113	05512500	46	39.4	11.25	3.4	I	3.8	4.3	4.9	5.6	5.9	6.2	6.4	1965	12,600	20
114	05513000	46	161	7.02	3.4	I	3.6	4.0	4.6	5.3	5.7	6.0	6.2	1946	23,500	70
115	05513200	24	1.20	122.50	3.5	I	4.9	7.6	8.6	9.3	9.5	9.5	9.3	1960	1,280	35
116	05518000	62	1,578	0.90	2.7	I	2.1	2.6	3.1	3.8	4.2	4.5	4.9	1982	7,650	>100
117	05519500	23	54.7	2.30	2.8	I	2.5	3.0	3.6	4.2	4.6	4.9	5.3	1955	1,840	25
118	05520000	33	220	2.60	3.0	I	2.8	3.5	4.1	4.8	5.3	5.6	5.9	1976	3,610	>100
119	05520500	71	2,093	0.90	2.8	I	2.2	2.6	3.1	3.8	4.2	4.5	4.9	1979	16,000	>100
120	05524500	36	449	2.00	2.8	I	2.6	3.5	4.3	5.1	5.6	5.9	6.3	1958	5,930	60
121	05525000	41	686	1.11	2.9	I	2.4	3.4	4.1	5.0	5.4	5.8	6.2	1958	10,400	>100
122	05525050	17	10.2	8.34	2.9	I	3.1	4.9	6.0	7.1	7.6	7.9	8.1	1957	1,950	>100
123	05525500	37	446	4.86	2.9	I	2.9	4.0	4.8	5.6	6.1	6.4	6.7	1951	22,900	70
124	05526000	62	2,091	0.69	2.9	I	2.3	3.0	3.6	4.4	4.8	5.2	5.6	1913	34,000	>100
125	05526150	25	.19	56.50	2.8	I	3.8	5.3	6.2	7.1	7.4	7.6	7.7	1957	233	45
126	05526500	26	12.1	11.93	2.9	I	3.1	6.1	8.0	9.6	10.2	10.6	10.7	1970	1,710	>100
127	05527050	17	.80	29.67	2.8	I	3.3	6.1	7.6	8.9	9.4	9.7	9.8	1957	786	>100
128	05527500	71	5,150	1.27	2.8	I	2.3	3.1	3.8	4.6	5.0	5.4	5.8	1957	75,900	>100
129	05527800	25	123	1.76	2.7	I	2.2	2.5	2.9	3.5	3.9	4.2	4.5	1979	2,120	20
130	05527840	15	145	1.42	2.7	I	2.1	2.2	2.6	3.1	3.5	3.7	4.0	1976	2,170	15
132	05527900	15	21.4	1.80	2.7	I	2.2	3.0	3.7	4.5	5.0	5.3	5.7	1960	510	45
134	05528000	39	232	1.27	2.7	I	2.1	2.7	3.2	3.9	4.3	4.6	5.1	1960	3,070	45
139	05528360	16	2.85	11.34	2.7	I	2.8	3.8	4.6	5.4	5.8	6.1	6.4	1972	390	60
144	05529000	45	360	1.11	2.7	I	2.1	2.3	2.8	3.3	3.7	4.0	4.3	1938	5,000	70
189	05536178	12	34.8	5.86	2.8	I	2.9	3.1	3.6	4.3	4.7	4.9	5.3	1955	2,480	50
190	05536190	42	70.7	7.40	2.8	I	3.0	3.9	4.7	5.5	5.9	6.2	6.6	1959	2,670	25
213	05537500	35	20.9	7.81	2.8	I	2.9	4.6	5.7	6.7	7.2	7.6	7.9	1955	3,160	>100
225	05540110	19	4.27	11.18	2.8	II	2.8	4.4	5.4	6.4	6.8	7.1	7.4	1964	214	25
226	05540140	19	2.47	25.99	2.8	II	3.2	3.9	4.5	5.1	5.4	5.7	5.9	1972	204	35

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood		
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s)	RI (yrs)
232	05541750	22	4.52	6.55	2.9	I	3.1	3.1	3.6	4.3	4.6	4.9	5.2	1979	173	7
233	05542000	46	455	4.33	2.9	I	2.9	2.9	3.3	4.0	4.3	4.6	4.9	1983	22,400	50
235	05546500	44	868	1.11	2.7	II	1.9	2.8	3.5	4.3	4.8	5.1	5.5	1960	7,520	>100
236	05548150	22	13.6	12.80	2.8	II	2.9	3.4	3.9	4.5	4.9	5.1	5.4	1983	328	15
239	05549700	15	10.8	8.28	2.7	II	2.5	3.6	4.4	5.2	5.6	5.9	6.2	1960	378	40
241	05549900	23	.07	115.10	2.8	II	3.9	4.5	5.0	5.6	5.9	6.0	6.2	1972	59	40
243	05550300	17	38.9	9.36	2.8	II	2.8	3.3	3.9	4.5	4.8	5.1	5.3	1973	488	7
245	05550450	17	16.7	11.93	2.8	II	2.9	3.9	4.6	5.3	5.7	6.0	6.2	1967	410	15
248	05551030	17	14.0	10.91	2.8	II	2.9	3.5	4.1	4.7	5.1	5.3	5.5	1967	687	25
249	05551050	18	7.35	9.36	2.8	II	2.7	4.8	6.1	7.3	7.9	8.2	8.5	1957	890	>100
250	05551060	18	11.5	10.61	2.8	II	2.7	4.9	6.3	7.5	8.1	8.4	8.7	1967	954	>100
251	05551200	24	51.7	13.31	2.8	II	2.9	3.0	3.4	4.0	4.3	4.5	4.7	1971	1,970	15
252	05551520	19	5.21	11.96	2.8	II	2.9	3.8	4.5	5.2	5.5	5.8	6.0	1978	402	50
254	05551620	17	21.6	12.04	2.8	II	2.9	3.7	4.4	5.0	5.4	5.6	5.9	1974	640	10
255	05551650	16	2.11	28.83	2.8	II	3.2	5.1	6.1	7.1	7.5	7.7	7.9	1970	346	45
256	05551700	25	70.2	5.60	2.8	II	2.6	2.9	3.4	3.9	4.2	4.5	4.7	1983	2,060	60
257	05551800	19	.45	87.12	2.9	II	3.9	5.1	5.7	6.3	6.6	6.8	6.9	1978	320	25
258	05551900	15	32.6	8.79	2.8	II	2.8	3.9	4.7	5.4	5.9	6.1	6.4	1974	1,580	60
259	05551930	16	21.1	10.04	2.8	II	2.9	3.6	4.2	4.8	5.2	5.4	5.7	1974	694	25
261	05554000	43	186	5.39	2.9	I	3.0	3.3	3.8	4.5	4.9	5.2	5.5	1970	4,550	10
262	05554500	43	579	1.11	3.0	I	2.5	3.1	3.8	4.5	4.9	5.2	5.6	1983	13,100	35
263	05554600	18	.16	60.72	3.0	I	4.3	4.7	5.2	5.8	6.2	6.4	6.6	1965	163	35
264	05555000	15	1,084	1.27	3.0	I	2.6	3.1	3.7	4.4	4.9	5.2	5.6	1920	17,100	20
265	05555300	55	1,251	1.37	3.0	I	2.6	3.1	3.7	4.4	4.9	5.2	5.6	1958	33,500	45
266	05555400	21	.14	50.37	3.0	I	4.0	6.5	7.8	8.8	9.1	9.3	9.2	1958	176	30
267	05555775	14	.36	24.55	2.9	I	3.7	4.6	5.4	6.1	6.5	6.7	6.9	1960	98	15
268	05556500	49	196	6.07	3.0	I	3.2	3.1	3.6	4.3	4.6	4.9	5.2	1974	12,500	40
269	05557000	48	86.7	9.03	3.0	I	3.3	4.6	5.5	6.3	6.8	7.1	7.3	1974	20,100	>100
270	05557100	22	.33	97.15	3.0	I	4.5	6.2	7.1	7.8	8.1	8.2	8.2	1973	261	15
271	05557500	49	99	12.72	3.0	I	3.5	4.1	4.8	5.5	5.9	6.2	6.4	1974	7,500	30
272	05558000	11	485	6.28	3.0	I	3.2	4.0	4.7	5.5	5.9	6.2	6.5	1951	18,000	25
273	05558050	21	.03	228.62	3.0	I	5.0	6.1	6.8	7.3	7.6	7.7	7.7	1958	122	80
274	05558075	24	.22	139.39	3.0	I	4.4	7.7	9.1	10.1	10.4	10.4	10.2	1958	372	80
275	05558500	33	56.2	10.24	3.0	I	3.3	5.2	6.4	7.5	7.9	8.2	8.4	1970	6,930	80
276	05559000	34	5.66	53.86	3.1	I	4.3	4.7	5.3	5.9	6.3	6.5	6.6	1974	1,940	20



Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood		
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s)	RI (yrs)
277	05559500	37	115	6.07	3.0	III	3.1	4.3	5.1	5.9	6.3	6.6	6.9	1954	5,750	40
280	05561000	27	11.2	39.86	3.2	III	4.1	5.2	5.9	6.6	6.9	7.1	7.2	1980	5,100	>100
283	05563000	40	119	10.93	3.2	I	3.6	5.0	5.8	6.7	7.1	7.4	7.5	1967	27,500	45
284	05563100	20	.07	76.03	3.2	I	4.6	6.5	7.3	8.1	8.3	8.4	8.4	1959	246	>100
285	05563500	43	297	7.50	3.2	I	3.1	6.4	8.4	10.1	10.8	1.2	11.2	1974	48,500	>100
286	05564400	25	49	5.25	3.1	III	3.2	4.3	5.2	6.0	6.4	6.7	7.0	1980	2,600	40
287	05564500	25	53.1	4.91	3.0	III	3.0	4.9	6.1	7.2	7.8	8.1	8.4	1947	3,900	>100
288	05565000	20	9.81	11.88	3.0	III	3.4	3.7	4.2	4.8	5.2	5.4	5.7	1951	1,690	30
289	05566000	23	6.30	11.14	3.0	III	3.2	6.0	7.7	9.2	9.8	10.1	10.2	1951	1,470	>100
290	05566500	33	30.5	4.54	3.0	III	2.8	5.6	7.3	8.9	9.6	10.1	10.3	1951	5,300	>100
291	05567000	36	93.9	4.22	3.0	III	3.0	4.2	5.1	6.0	6.4	6.7	7.0	1951	10,900	>100
292	05567500	41	767	2.27	3.0	III	2.6	4.7	6.0	7.4	8.0	8.4	8.8	1983	44,800	>100
293	05567800	12	.98	30.99	3.2	III	4.1	5.0	5.6	6.3	6.6	6.8	7.0	1968	446	15
294	05568000	63	1,089	2.48	3.1	III	2.6	5.3	7.1	8.7	9.5	10.0	10.3	1983	51,000	>100
297	05568800	26	62.7	6.44	3.1	III	3.1	5.4	6.7	8.0	8.5	8.8	9.0	1974	6,540	>100
298	05568850	16	1.00	37.86	3.2	III	4.2	5.4	6.1	6.8	7.2	7.3	7.4	1975	391	25
299	05569500	43	1,072	2.27	3.2	III	2.7	5.1	6.7	8.2	8.8	9.3	9.6	1974	41,000	>100
300	05569825	25	4.06	24.39	3.2	III	3.8	6.6	8.1	9.2	9.6	9.8	9.8	1967	1,460	90
301	05570000	69	1,636	1.98	3.2	III	2.8	3.9	4.6	5.5	5.9	6.2	6.6	1924	37,300	80
304	05570370	14	41.2	9.95	3.2	III	3.6	4.0	4.5	5.2	5.6	5.8	6.1	1974	1,220	4
306	05571000	31	362	3.59	3.0	III	2.9	3.9	4.7	5.6	6.0	6.3	6.6	1956	14,600	60
307	05572000	76	550	2.75	3.0	III	2.8	3.6	4.3	5.1	5.5	5.8	6.1	1927	19,000	90
308	05572100	21	.10	34.11	3.1	III	4.0	4.5	5.1	5.7	6.0	6.2	6.4	1961	64	20
309	05572450	16	111	5.03	3.1	III	3.1	5.0	6.3	7.4	7.9	8.2	8.5	1968	5,660	35
310	05572500	27	774	2.21	3.1	III	2.7	4.4	5.6	6.7	7.2	7.6	7.9	1974	16,000	25
311	05574000	32	11.0	18.80	3.3	III	3.6	7.1	8.9	10.3	10.8	11.0	10.9	1957	8,600	>100
312	05574500	33	276	2.01	3.2	III	2.9	3.3	3.9	4.6	5.0	5.2	5.6	1957	13,000	90
313	05575500	63	562	2.01	3.3	III	2.9	4.2	5.0	5.9	6.4	6.7	7.0	1957	21,500	>100
314	05575800	18	52.2	5.59	3.3	III	3.4	3.6	4.1	4.8	5.1	5.4	5.7	1983	3,300	8
316	05576500	72	2,168	1.48	3.2	III	2.7	2.9	3.4	4.1	4.4	4.7	5.0	1943	68,700	>100
317	05577500	38	107	5.39	3.3	III	3.4	4.2	4.9	5.6	6.0	6.3	6.6	1983	8,080	35
318	05577700	24	1.50	40.13	3.3	III	4.3	5.2	5.9	6.5	6.8	7.0	7.1	1979	660	20
319	05578500	39	335	2.59	3.1	III	2.8	4.3	5.3	6.3	6.8	7.2	7.5	1968	24,500	>100
320	05579500	38	214	4.65	3.2	III	2.9	6.0	7.9	9.6	10.3	10.7	10.9	1943	29,000	>100
321	05579750	18	3.06	21.75	3.1	III	3.7	6.1	7.3	8.4	8.8	9.0	9.0	1956	2,400	>100

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood	
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s) (yrs)
322	05580000	38	227	6.23	3.1	III	3.1	5.4	6.8	8.0	8.6	8.9	9.1	1981	24,600 >100
323	05580500	41	306	5.12	3.2	III	3.2	4.8	5.8	6.8	7.3	7.6	7.8	1983	23,300 >100
326	05581500	41	333	5.76	3.2	III	3.1	5.6	7.1	8.5	9.0	9.4	9.5	1983	41,200 >100
327	05582000	44	1,084	2.22	3.2	III	2.9	3.8	4.5	5.3	5.7	6.0	6.3	1943	41,200 50
328	05582200	21	.94	23.76	3.3	III	4.0	5.5	6.3	7.1	7.4	7.6	7.7	1965	1,500 >100
329	05582500	32	26.5	2.16	3.3	III	2.9	3.2	3.7	4.4	4.7	5.0	5.2	1979	534 8
330	05583000	68	5,093	1.27	3.2	III	2.7	2.9	3.5	4.1	4.5	4.7	5.1	1943	123,000 >100
331	05584400	25	26.3	5.76	3.3	III	3.4	4.2	4.9	5.6	6.0	6.3	6.5	1980	3,500 >100
332	05584450	16	.60	91.87	3.3	III	4.8	5.6	6.1	6.7	7.0	7.1	7.2	1961	539 25
333	05584500	41	655	3.70	3.3	III	3.1	4.2	4.9	5.7	6.2	6.4	6.7	1985	38,900 >100
335	05585000	65	1,293	1.85	3.3	III	2.8	4.2	5.1	6.0	6.5	6.9	7.2	1985	28,000 70
336	05585220	25	3.58	27.24	3.3	III	4.1	4.8	5.4	6.0	6.4	6.6	6.7	1958	1,010 10
338	05585700	21	.15	48.58	3.3	III	4.4	5.5	6.2	6.8	7.1	7.3	7.3	1961	74 10
339	05586000	36	29.1	9.03	3.3	I	3.6	3.7	4.2	4.8	5.2	5.5	5.7	1977	4,700 90
340	05586200	25	.49	131.47	3.4	I	5.2	5.2	5.7	6.2	6.5	6.7	6.8	1961	730 15
341	05586350	12	1.82	53.86	3.4	I	4.7	5.2	5.8	6.4	6.7	6.9	7.0	1966	1,130 10
342	05586500	35	2.30	24.29	3.4	I	4.1	6.0	7.0	7.8	8.2	8.3	8.4	1957	1,700 >100
343	05586850	25	.02	63.36	3.4	I	4.4	7.2	8.4	9.2	9.5	9.5	9.4	1973	42 30
344	05587000	58	868	2.32	3.4	I	3.1	3.5	4.1	4.8	5.2	5.5	5.8	1943	40,000 80
345	05587850	25	.45	42.50	3.4	I	4.5	5.4	6.0	6.7	7.0	7.2	7.3	1958	791 >100
346	05587900	17	212	5.12	3.4	I	3.4	3.4	3.9	4.5	4.9	5.2	5.4	1979	8,200 9
347	05588000	45	36.7	7.92	3.5	I	3.6	5.4	6.4	7.4	7.8	8.0	8.2	1946	9,340 90
348	05589500	46	22.6	11.09	3.5	I	3.8	5.4	6.3	7.2	7.5	7.8	7.9	1957	10,200 >100
350	05590000	41	12.4	17.16	3.0	I	3.5	5.8	7.1	8.2	8.7	8.9	9.0	1968	1,490 40
351	05590400	15	109	2.46	3.1	I	2.9	4.0	4.9	5.8	6.2	6.5	6.9	1974	3,310 15
352	05590500	11	126	2.22	3.1	I	2.9	3.7	4.3	5.1	5.5	5.9	6.2	1959	4,400 15
353	05590800	13	149	2.67	3.1	I	2.9	4.1	5.0	5.9	6.4	6.7	7.0	1979	4,030 15
354	05591200	15	473	1.52	3.1	I	2.7	3.3	3.9	4.6	5.0	5.3	5.7	1985	9,250 15
355	05591500	32	8.05	5.23	3.2	I	3.3	4.0	4.6	5.4	5.8	6.0	6.3	1974	1,460 50
356	05591750	20	.70	18.32	3.2	I	3.9	4.4	5.0	5.6	6.0	6.2	6.4	1978	150 20
357	205592000	34	1,054	1.43	3.1	I	2.7	3.0	3.6	4.2	4.6	4.9	5.3	1957	25,900 30
358	05592025	21	.20	63.89	3.2	I	4.5	6.5	7.4	8.1	8.4	8.5	8.5	1960	450 45
360	05592300	24	47.9	6.60	3.3	I	3.5	4.2	4.9	5.6	6.0	6.3	6.5	1970	7,480 25
361	205592500	59	1,940	1.37	3.2	I	2.6	4.6	6.0	7.3	8.0	8.4	8.8	1957	62,700 >100
362	05592700	25	.14	27.09	3.3	I	4.1	4.9	5.6	6.2	6.5	6.7	6.9	1957	132 30

Table 2.--Selected basin characteristics, years of record, equivalent years of record, and maximum flood for nonregulated rural gaging stations--Continued

Map No.	Station No.	Years of record	A (mi <sup>2</sup> )	S (ft/mi)	I (in.)	Region	Recurrence interval, in years							Maximum flood		
							2	5	10	25	50	100	500	Year	Dis-charge (ft <sup>3</sup> /s)	RI (yrs)
363	05592800	15	152	5.83	3.3	I	3.4	3.9	4.5	5.1	5.5	5.8	6.1	1983	17,900	35
364	305593000	43	2,719	1.27	3.2	I	2.7	3.5	4.1	4.9	5.4	5.7	6.1	1943	54,400	70
365	05593520	11	254	2.73	3.4	I	3.1	3.3	3.8	4.5	4.8	5.1	5.4	1985	8,640	6
366	05593575	18	84.3	4.42	3.4	I	3.4	3.9	4.5	5.2	5.6	5.9	6.1	1968	10,900	50
367	05593600	25	17.3	4.28	3.3	I	3.3	3.7	4.2	4.9	5.3	5.5	5.8	1973	2,140	40
368	05593700	13	.34	34.06	3.3	I	4.3	5.9	6.8	7.5	7.9	8.0	8.1	1966	356	70
369	05593900	22	55.5	5.54	3.3	I	3.4	4.6	5.4	6.3	6.7	7.0	7.2	1967	5,910	45
370	05594000	44	735	2.32	3.4	I	3.1	4.0	4.7	5.5	5.9	6.2	6.5	1943	52,000	>100
371	05594090	10	124	3.31	3.4	I	3.2	3.9	4.5	5.2	5.6	5.9	6.2	1973	10,500	30
373	05594200	17	1.9	17.16	3.5	I	4.0	5.7	6.7	7.5	7.8	8.0	8.1	1968	966	25
374	05594330	12	72.4	5.72	3.5	I	3.4	5.2	6.3	7.3	7.7	8.0	8.1	1979	5,520	15
375	05594450	19	154	4.00	3.5	I	3.3	3.5	4.0	4.6	5.0	5.2	5.5	1979	10,600	20
376	05594800	15	464	2.34	3.5	I	3.1	3.2	3.7	4.3	4.7	4.9	5.2	1979	9,200	5
377	405595000	46	5,181	1.11	3.3	I	2.7	3.5	4.3	5.1	5.5	5.8	6.2	1943	83,000	35
378	05595200	16	129	6.43	3.5	I	3.6	4.4	5.0	5.7	6.1	6.4	6.6	1973	14,900	50
379	05595500	23	17.8	9.77	3.5	I	3.7	5.8	6.9	7.9	8.3	8.6	8.7	1968	7,760	90
380	05595510	14	1.22	35.22	3.5	I	4.3	7.0	8.3	9.2	9.5	9.6	9.5	1969	777	25
382	05595800	22	21.1	14.52	3.4	IV	3.7	5.0	5.8	6.5	6.8	7.0	7.2	1961	2,530	20
383	05596000	25	502	1.80	3.4	IV	2.7	4.2	5.1	6.1	6.6	6.9	7.1	1961	38,600	>100
384	05596100	17	1.03	39.02	3.5	IV	4.3	5.2	5.8	6.4	6.6	6.8	6.9	1970	835	40
385	505597000	60	794	1.53	3.4	IV	2.7	3.0	3.5	4.1	4.4	4.6	4.9	1961	42,900	>100
387	05597500	34	31.7	8.08	3.5	IV	3.5	4.0	4.6	5.2	5.5	5.8	6.0	1983	3,570	15
388	05599000	36	292	2.64	3.5	IV	3.0	4.3	5.2	6.0	6.5	6.7	7.0	1961	18,800	40
389	505599500	43	2,169	1.00	3.5	IV	2.6	2.8	3.3	3.9	4.2	4.4	4.7	1961	33,300	35
390	05599560	17	1.94	55.32	3.6	IV	4.3	7.2	8.4	9.2	9.5	9.5	9.4	1969	3,000	>100
392	05599640	25	.43	111.94	3.6	IV	5.0	5.6	6.1	6.6	6.8	6.9	7.0	1965	605	20
393	05599800	12	.09	186.91	3.6	IV	5.2	7.5	8.3	8.8	8.9	8.9	8.7	1961	148	10
394	05600000	44	32.2	11.30	3.5	IV	3.4	6.5	8.2	9.6	10.1	10.4	10.4	1943	7,200	>100

1 Regulated since 1977 by Clinton Lake Reservoir.

2 Regulated since 1969 by Shelbyville Reservoir.

3 Regulated since 1967 by Carlyle Reservoir.

4 Regulated since 1967 by upstream reservoirs.

5 Regulated since 1970 by Rend Lake Reservoir.

Table 3.--Regional factors, Rf

[T-year, recurrence interval in years]

Flood, T-year	Region			
	I	II	III	IV
2	1.057	0.578	0.805	0.983
5	1.053	.576	.822	.894
10	1.053	.574	.837	.859
25	1.051	.570	.853	.826
50	1.050	.567	.862	.806
100	1.048	.563	.870	.790
500	1.044	.555	.886	.759

Table 4.--Accuracy of estimating equations,

$$Q_T = a A^b S^c (I-2.5)^d R_f$$

[T-year, recurrence interval in years]

Flood T-year	Standard error of prediction	
	Percent	Equivalent years of record
2	34.9	3.36
5	33.0	4.54
10	34.9	5.36
25	38.0	6.18
50	40.6	6.58
100	43.4	6.84
500	50.3	7.05

Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations

[The systematic-record and WRC-estimated frequency curves can be reconstructed using logarithmic mean, standard deviation, and skew, and the standard Pearson Type III tables.  
WRC, Interagency Advisory Committee on Water Data, formerly Water Resources Council]

Map No.	Station No.	Station name	Log-Pearson Type III statistics, in log units					
			Systematic record			WRC estimated		
			Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
1	03336100	Big Four Ditch Trib near Paxton, Ill.	2.044	0.255	-0.671	2.044	0.255	-0.545
2	03336500	Bluegrass Creek at Potomac, Ill.	3.255	0.238	-0.206	3.255	0.238	-0.275
3	03336900	Salt Fork near St. Joseph, Ill.	3.398	0.204	0.340	3.398	0.204	0.034
5	03337500	Saline Branch at Urbana, Ill.	3.088	0.254	-0.502	3.088	0.254	-0.465
6	03338000	Salt Fork near Homer, Ill.	3.551	0.245	-0.687	3.561	0.225	-0.387
7	03338100	Salt Fork Trib near Catlin, Ill.	2.219	0.433	-1.299	2.245	0.386	-0.730
8	03338500	Vermilion River near Catlin, Ill.	3.924	0.279	0.182	3.924	0.279	-0.094
9	03338800	N F Vermilion River Trib nr Danville, Ill.	2.461	0.319	0.297	2.461	0.319	-0.026
10	03339000	Vermilion River near Danville, Ill.	4.116	0.251	-0.612	4.124	0.233	-0.285
11	03341700	Big Creek Trib near Dudley, Ill.	2.263	0.242	0.673	2.263	0.242	0.070
12	03341900	Raccoon Creek Trib near Annapolis, Ill.	1.238	0.307	-0.482	1.238	0.307	-0.446
13	03343400	Embarras River near Camargo, Ill.	3.461	0.247	-1.079	3.473	0.227	-0.694
14	03344000	Embarras River near Diona, Ill.	3.950	0.217	0.133	3.950	0.217	-0.106
15	03344250	Embarras River Trib near Greenup, Ill.	1.356	0.262	0.042	1.356	0.262	-0.134
16	03344425	Muddy Creek Trib at Woodbury, Ill.	1.368	0.386	0.171	1.368	0.386	-0.106
17	03344500	Range Creek near Casey, Ill.	2.933	0.359	-0.775	2.955	0.306	-0.003
18	03345500	Embarras River at Ste. Marie, Ill.	4.119	0.324	-1.372	4.135	0.275	-0.208
19	03346000	North Fork Embarras River near Oblong, Ill.	3.823	0.376	-1.434	3.846	0.312	-0.409
20	03378000	Bonpas Creek at Browns, Ill.	3.442	0.220	-1.250	3.464	0.167	0.
21	03378635	Little Wabash River near Effingham, Ill.	3.728	0.161	0.011	3.728	0.161	-0.178
22	03378650	Second Creek Trib at Keptown, Ill.	2.360	0.269	0.338	2.360	0.269	-0.039
23	03378900	Little Wabash River at Louisville, Ill.	4.045	0.230	-0.323	4.045	0.230	-0.357
24	03378980	Little Wabash River Trib at Clay City, Ill.	2.089	0.344	-0.606	2.089	0.344	-0.503
25	03379500	Little Wabash River below Clay City, Ill.	4.098	0.314	-0.353	4.105	0.298	-0.163
26	03379650	Madden Creek near West Salem, Ill.	2.620	0.242	0.562	2.620	0.242	0.098
27	03380300	Dums Creek Tributary near Iuka, Ill.	1.616	0.239	-0.116	1.616	0.239	-0.229
28	03380350	Skillet Fork near Iuka, Ill.	3.682	0.320	-0.267	3.682	0.320	-0.328
29	03380400	Horse Creek Tributary near Cartter, Ill.	2.341	0.263	0.228	2.341	0.263	-0.130
30	03380450	White Feather Creek near Marlow, Ill.	2.119	0.228	-0.272	2.119	0.228	-0.321
31	03380475	Horse Creek near Keenes, Ill.	3.567	0.264	-0.246	3.565	0.208	-0.186

Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations--Continued

Map No.	Station No.	Station name	Log-Pearson Type III statistics, in log units					
			Systematic record			WRC estimated		
			Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
32	03380500	Skillet Fork at Wayne City, Ill.	3.898	0.310	-0.452	3.907	0.291	-0.203
33	03381500	Little Wabash River at Carmi, Ill.	4.153	0.224	-0.193	4.161	0.209	0.029
34	03381600	Little Wabash River Trib nr New Haven, Ill.	1.948	0.295	0.314	1.948	0.295	-0.036
35	03382025	Little Saline Creek Trib nr Goreville, Ill.	2.407	0.213	-2.063	2.434	0.139	-0.079
36	03382100	South Fork Saline River nr Carrier Mills, Ill.	3.438	0.191	-0.707	3.451	0.165	-0.247
37	03382170	Brushy Creek near Harco, Ill.	3.056	0.161	0.819	3.056	0.161	0.130
39	03382510	Eagle Creek near Equality, Ill.	2.714	0.075	-0.644	2.714	0.075	-0.480
40	03382520	Black Branch Trib near Junction, Ill.	2.186	0.353	0.172	2.186	0.353	-0.118
41	03384450	Lusk Creek near Eddyville, Ill.	3.751	0.215	0.444	3.751	0.215	0.050
42	03385000	Hayes Creek at Glendale, Ill.	3.351	0.262	0.198	3.351	0.262	0.018
43	03385500	Lake Glendale Inlet near Dixon Springs, Ill.	2.748	0.261	-0.433	2.748	0.261	-0.387
45	03612000	Cache River at Forman, Ill.	3.568	0.320	-0.320	3.568	0.267	-0.321
46	03612200	Q Ditch Trib near Choat, Ill.	2.134	0.260	0.182	2.134	0.260	-0.041
47	03614000	Hess Bayou Trib near Mound City, Ill.	2.643	0.168	-0.406	2.657	0.142	-0.009
48	04087300	Lake Michigan Trib at Winthrop Harbor, Ill.	1.908	0.308	0.608	1.908	0.308	0.071
49	04087400	Kellogg Ravine at Zion, Ill.	2.370	0.289	0.651	2.370	0.289	0.062
50	05414820	Sinsinawa River near Menominee, Ill.	3.475	0.334	0.404	3.475	0.334	-0.002
51	05415000	Galena River at Buncombe, Wis.	3.690	0.241	0.841	3.690	0.241	0.371
52	05415500	East Fork Galena River at Council Hill, Ill.	3.300	0.382	0.342	3.300	0.382	0.051
53	05418750	South Fork Apple River near Nora, Ill.	2.266	0.366	-1.060	2.293	0.311	-0.502
54	05418800	Mill Creek Trib near Scales Mound, Ill.	2.393	0.287	-0.177	2.393	0.287	-0.280
55	05419000	Apple River near Hanover, Ill.	3.717	0.206	-0.003	3.717	0.206	-0.103
56	05420000	Plum River below Carroll Creek nr Savanna, Ill.	3.540	0.275	-0.070	3.540	0.275	-0.175
57	05430500	Rock River at Afton, Wis.	3.785	0.196	-0.730	3.795	0.185	-0.393
58	05431500	Turtle Creek near Clinton, Wis.	3.300	0.369	-0.187	3.300	0.369	-0.253
59	05434500	Pecatonica River at Martintown, Wis.	3.750	0.245	-0.041	3.750	0.245	-0.140
60	05435000	Cedar Creek near Winslow, Ill.	1.978	0.572	-0.470	1.978	0.572	-0.439
61	05435500	Pecatonica River at Freeport, Ill.	3.756	0.249	0.045	3.756	0.249	-0.044
62	05435650	Lost Creek Trib near Shannon, Ill.	2.417	0.255	-1.399	2.449	0.183	-0.197
63	05436500	Sugar River near Brodhead, Wis.	3.533	0.324	-0.217	3.533	0.324	-0.258
64	05436900	Otter Creek Trib near Durand, Ill.	1.706	0.335	0.258	1.706	0.335	-0.051
65	05437000	Pecatonica River at Shirland, Ill.	3.912	0.208	-0.345	3.912	0.208	-0.366
66	05437500	Rock River at Rockton, Ill.	4.143	0.234	-1.272	4.155	0.200	-0.355
67	05437600	Rock River Trib near Rockton, Ill.	2.130	0.331	-0.859	2.130	0.331	-0.600
68	05437950	Kishwaukee River near Huntley, Ill.	2.097	0.120	-0.612	2.097	0.120	-0.491

Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations--Continued

Map No.	Station No.	Station name	Log-Pearson Type III statistics, in log units					
			Systematic record			WRC estimated		
			Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
69	05438250	Coon Creek at Riley, Ill.	3.047	0.370	-0.984	3.065	0.338	-0.633
70	05438300	Lawrence Creek Trib near Harvard, Ill.	1.878	0.277	-0.178	1.878	0.277	-0.281
71	05438390	Piscasaw Cr below Mokele Cr nr Capron, Ill.	3.206	0.275	-1.265	3.251	0.181	-0.059
72	05438500	Kishwaukee River at Belvidere, Ill.	3.552	0.308	-0.321	3.552	0.308	-0.345
73	05438850	Md Br of So Br Kishwaukee River nr Malta, Ill.	2.129	0.291	-0.719	2.149	0.255	-0.341
74	05439000	South Branch Kishwaukee River at De Kalb, Ill.	2.906	0.257	1.038	2.906	0.257	0.146
75	05439500	South Branch Kishwaukee River nr Fairdale, Ill.	3.564	0.256	-0.930	3.564	0.256	-0.720
76	05439550	So Br Kishwaukee River Trib nr Irene, Ill.	1.880	0.469	-0.279	1.880	0.469	-0.339
77	05440000	Kishwaukee River near Perryville, Ill.	3.832	0.286	-0.613	3.832	0.286	-0.540
78	05440500	Killbuck Creek near Monroe Center, Ill.	3.340	0.345	-1.043	3.340	0.345	-0.757
79	05440650	Stillman Creek Trib near Holcomb, Ill.	1.895	0.307	-0.049	1.895	0.307	-0.216
80	05440900	Leaf River Trib near Forreston, Ill.	1.744	0.323	0.455	1.744	0.323	0.062
81	05441000	Leaf River at Leaf River, Ill.	3.418	0.350	-0.587	3.418	0.350	-0.521
82	05441500	Rock River at Oregon, Ill.	4.328	0.224	0.338	4.328	0.224	-0.121
83	05442000	Kyte River near Flag Center, Ill.	3.096	0.170	0.321	3.096	0.170	-0.100
84	05443500	Rock River at Como, Ill.	4.365	0.223	-0.830	4.370	0.213	-0.615
85	05444000	Elkhorn Creek near Penrose, Ill.	3.455	0.245	-0.916	3.463	0.227	-0.574
86	05444100	Spring Creek Trib near Coleta, Ill.	2.418	0.309	-0.383	2.418	0.309	-0.393
87	05446000	Rock Creek at Morrison, Ill.	3.312	0.179	0.233	3.312	0.179	0.028
88	05446500	Rock River near Joslin, Ill.	4.345	0.209	-0.456	4.345	0.209	-0.438
89	05446950	Green River Trib near Amboy, Ill.	1.944	0.424	0.495	1.944	0.424	0.015
90	05447000	Green River at Amboy, Ill.	3.418	0.262	-1.027	3.428	0.245	-0.706
91	05447050	Green River Trib No. 2 nr Ohio, Ill.	2.126	0.314	-0.801	2.160	0.246	-0.074
93	05447350	Mud Creek Trib near Atkinson, Ill.	2.240	0.357	-0.448	2.286	0.277	0.159
94	05447500	Green River near Geneseo, Ill.	3.744	0.208	-0.960	3.750	0.194	-0.640
95	05448000	Mill Creek at Milan, Ill.	3.420	0.330	-0.472	3.420	0.330	-0.449
96	05448050	Sand Creek near Milan, Ill.	1.547	0.418	0.181	1.547	0.418	-0.060
97	05466000	Edwards River near Orion, Ill.	3.485	0.243	-1.292	3.503	0.205	-0.707
98	05466500	Edwards River near New Boston, Ill.	3.593	0.247	-0.365	3.593	0.247	-0.375
99	05467000	Pope Creek near Keithsburg, Ill.	3.355	0.249	-0.113	3.355	0.249	-0.188
100	05467500	Henderson Creek near Little York, Ill.	3.380	0.298	0.761	3.375	0.290	0.310
101	05468000	North Henderson Creek near Seaton, Ill.	3.030	0.149	-0.791	3.030	0.149	-0.547
102	05468500	Cedar Creek at Little York, Ill.	3.347	0.365	-0.144	3.347	0.365	-0.219
103	05469000	Henderson Creek near Oquawka, Ill.	3.693	0.266	0.439	3.693	0.266	0.184
104	05469500	South Henderson Creek at Biggsville, Ill.	3.265	0.297	0.813	3.265	0.297	0.344

Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations--Continued

Map No.	Station No.	Station name	Log-Pearson Type III statistics, in log units					
			Systematic record			WRC estimated		
			Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
105	05469750	Ellison Creek Trib near Roseville, Ill.	1.712	0.299	-0.545	1.712	0.299	-0.480
106	05495200	Little Creek near Breckenridge, Ill.	2.575	0.347	-0.377	2.575	0.347	-0.387
107	05495500	Bear Creek near Marcelline, Ill.	3.936	0.272	-0.375	3.936	0.272	-0.384
108	05496900	Homan Creek Trib near Quincy, Ill.	2.372	0.345	-0.585	2.372	0.345	-0.494
109	05501500	Burton Creek Trib near Burton, Ill.	2.191	0.406	-0.238	2.191	0.406	-0.324
110	05502020	Hadley Creek near Barry, Ill.	3.623	0.263	-1.280	3.642	0.217	-0.441
111	05502040	Hadley Creek at Kinderhook, Ill.	3.774	0.296	-0.833	3.785	0.275	-0.534
112	05502120	Kiser Creek Trib near Barry, Ill.	2.544	0.327	-0.572	2.564	0.285	-0.099
113	05512500	Bay Creek at Pittsfield, Ill.	3.647	0.332	-0.724	3.658	0.312	-0.485
114	05513000	Bay Creek at Nebo, Ill.	3.808	0.323	-0.776	3.820	0.300	-0.477
115	05513200	Salt Spring Creek near Gilead, Ill.	2.439	0.320	0.307	2.439	0.320	0.002
116	05518000	Kankakee River at Shelby, Ind.	3.617	0.114	-0.587	3.620	0.107	-0.378
117	05519500	West Creek near Schneider, Ind.	2.946	0.248	-1.263	2.967	0.201	-0.425
118	05520000	Singleton Ditch at Illinois, Ill.	3.215	0.153	-1.842	3.229	0.115	-0.373
119	05520500	Kankakee River at Mokense, Ill.	3.800	0.157	-0.453	3.800	0.157	-0.440
120	05524500	Iroquois River near Foresman, Ind.	3.432	0.163	-0.429	3.438	0.151	-0.193
121	05525000	Iroquois River at Iroquois, Ill.	3.565	0.186	-0.077	3.565	0.186	-0.174
122	05525050	Eastburn Hollow near Sheldon, Ill.	2.381	0.400	0.444	2.381	0.400	0.005
123	05525500	Sugar Creek at Milford, Ill.	3.807	0.277	-0.110	3.807	0.277	-0.204
124	05526000	Iroquois River near Chebasne, Ill.	4.087	0.205	-0.532	4.098	0.199	-0.260
125	05526150	Kankakee River Trib near Bourbonnais, Ill.	1.506	0.484	0.067	1.506	0.484	-0.121
126	05526500	Terry Creek near Custer Park, Ill.	2.192	0.348	0.641	2.215	0.306	0.322
127	05527050	Prairie Creek near Frankfort, Ill.	1.926	0.384	0.121	1.963	0.317	0.214
128	05527500	Kankakee River near Wilmington, Ill.	4.359	0.224	-0.162	4.359	0.224	-0.213
129	05527800	Des Plaines River at Russell, Ill.	2.787	0.369	-0.617	2.787	0.369	-0.517
130	05527840	Des Plaines River at Wadsworth, Ill.	2.863	0.371	-1.134	2.863	0.371	-0.674
132	05527900	North Mill Creek at Hickory Corners, Ill.	2.266	0.228	-0.962	2.313	0.204	-0.146
134	05528000	Des Plaines River near Gurnee, Ill.	3.115	0.204	-0.262	3.115	0.204	-0.308
139	05528360	Aptakisic Creek at Aptakisic, Ill.	2.031	0.297	0.014	2.031	0.297	-0.193
144	05529000	Des Plaines River near Des Plaines, Ill.	3.305	0.217	-0.819	3.320	0.210	-0.520
189	05536178	Plum Creek near Dyer, Ind.	3.010	0.254	-1.094	3.049	0.219	-0.580
190	05536190	Hart Ditch at Munster, Ind.	3.117	0.181	-0.160	3.117	0.181	-0.233
213	05537500	Long Run near Lemont, Ill.	2.768	0.308	0.235	2.768	0.308	0.013
225	05540110	Ferry Creek at Warrenville, Ill.	1.938	0.202	0.482	1.938	0.202	0.040
226	05540140	East Br Du Page River nr Bloomingdale, Ill.	1.750	0.303	-0.307	1.750	0.303	-0.352



Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations--Continued

Map No.		Station No.	Station name	Log-Pearson Type III statistics, in log units					
				Systematic record			WRC estimated		
				Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
232		05541750	Mazon River Trib near Gardner, Ill.	1.987	0.227	-1.702	2.008	0.178	-0.687
233		05542000	Mazon River near Coal City, Ill.	3.892	0.298	-1.128	3.901	0.281	-0.761
235		05546500	Fox River at Wilmet, Wis.	3.418	0.203	0.105	3.418	0.203	-0.041
236		05548150	North Br Nippersink Creek nr Genoa City, Wis.	2.231	0.171	-0.383	2.231	0.171	-0.391
239		05549700	Mutton Creek at Island Lake, Ill.	1.849	0.339	0.097	1.889	0.370	-0.091
241		05549900	Fox River Tributary near Cary, Ill.	1.032	0.450	-0.415	1.032	0.450	-0.408
243		05550300	Tyler Creek at Elgin, Ill.	2.488	0.186	-2.472	2.517	0.104	-0.395
245		05550450	Poplar Creek near Ontarioville, Ill.	2.317	0.172	0.001	2.317	0.172	-0.193
248		05551030	Brewster Creek at Valley View, Ill.	2.351	0.307	-0.306	2.351	0.307	-0.354
249		05551050	Norton Creek near Wayne, Ill.	1.950	0.334	0.586	1.993	0.387	0.213
250		05551060	Norton Creek near St. Charles, Ill.	2.102	0.308	1.054	2.102	0.296	0.225
251		05551200	Ferson Creek near St. Charles, Ill.	2.925	0.292	-1.033	2.940	0.266	-0.656
252		05551520	Indian Creek near North Aurora, Ill.	2.112	0.263	-0.084	2.112	0.263	-0.231
254		05551620	Blackberry Creek near Kaneville, Ill.	2.616	0.134	-0.713	2.626	0.115	-0.272
255		05551650	Lake Run Tributary near Batavia, Ill.	1.702	0.432	0.602	1.702	0.432	0.057
256		05551700	Blackberry Creek near Yorkville, Ill.	2.812	0.282	-0.645	2.812	0.282	-0.532
257		05551800	Fox River Trib No. 2 near Fox, Ill.	1.802	0.486	-0.120	1.802	0.486	-0.251
258		05551900	E Branch Big Rock Creek near Big Rock, Ill.	2.799	0.210	0.174	2.799	0.210	-0.128
259		05551930	Welch Creek near Big Rock, Ill.	2.494	0.197	-0.197	2.494	0.197	-0.301
261		05554000	North Fork Vermillion River near Charlotte, Ill.	3.336	0.252	-0.663	3.336	0.252	-0.568
262		05554500	Vermillion River at Pontiac, Ill.	3.705	0.238	-0.310	3.711	0.240	-0.348
263		05554600	Mud Creek Tributary near Odell, Ill.	1.656	0.350	-0.719	1.656	0.350	-0.550
264		05555000	Vermillion River at Streator, Ill.	3.877	0.252	-0.380	3.877	0.252	-0.391
265		05555300	Vermillion River near Leonore, Ill.	4.051	0.276	-0.405	4.051	0.276	-0.404
266		05555400	Vermillion River Trib at Lowell, Ill.	1.410	0.505	0.498	1.410	0.505	0.066
267		05555775	Vermillion Creek Trib at Meriden, Ill.	1.588	0.309	-0.651	1.613	0.265	-0.289
268		05556500	Big Bureau Creek at Princeton, Ill.	3.587	0.325	-1.021	3.587	0.325	-0.767
269		05557000	West Bureau Creek at Wyand, Ill.	3.434	0.312	-0.089	3.434	0.312	-0.173
270		05557100	West Bureau Creek Trib near Wyand, Ill.	1.900	0.354	0.036	1.900	0.354	-0.150
271		05557500	East Bureau Creek near Bureau, Ill.	3.355	0.305	-0.399	3.355	0.305	-0.400
272		05558000	Big Bureau Creek at Bureau, Ill.	3.895	0.205	-0.168	3.895	0.205	-0.306
273		05558050	Coffee Creek Trib near Florid, Ill.	1.249	0.429	-0.254	1.249	0.429	-0.321
274		05558075	Coffee Creek Trib near Hennepin, Ill.	1.785	0.335	0.643	1.785	0.335	0.154
275		05558500	Crow Creek (West) near Henry, Ill.	3.180	0.295	0.257	3.180	0.295	0.018
276		05559000	Ginlet Creek at Sparland, Ill.	2.907	0.251	-0.608	2.907	0.251	-0.525

Table 5.--Selected statistical characteristics for annual peak discharges for nonregulated rural gaging stations--Continued

Map No.		Station No.	Station name	Log-Pearson Type III statistics, in log units					
				Systematic record			WRC estimated		
				Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
277	05559500		Crow Creek near Washburn, Ill.	3.333	0.227	-0.076	3.333	0.227	-0.180
280	05561000		Ackerman Creek at Farmdale, Ill.	2.797	0.405	-0.222	2.797	0.405	-0.293
283	05563000		Kickapoo Creek near Kickapoo, Ill.	3.859	0.329	-0.056	3.859	0.329	-0.160
284	05563100		Kickapoo Creek Trib near Kickapoo, Ill.	1.428	0.447	0.106	1.428	0.447	-0.125
285	05563500		Kickapoo Creek at Peoria, Ill.	3.902	0.260	0.885	3.902	0.260	0.380
286	05564400		Money Creek near Towanda, Ill.	2.940	0.237	-0.030	2.940	0.237	-0.177
287	05564500		Money Creek above Lake Bloomington, Ill.	2.954	0.307	-0.952	2.980	0.243	0.089
288	05565000		Hickory Creek above Lake Bloomington, Ill.	2.656	0.418	-0.989	2.681	0.373	-0.593
289	05566000		East Branch Panther Creek near Gridley, Ill.	2.196	0.312	1.321	2.196	0.312	0.285
290	05566500		East Branch Panther Creek at El Paso, Ill.	2.775	0.324	0.989	2.775	0.324	0.341
291	05567000		Panther Creek near El Paso, Ill.	3.340	0.320	-0.004	3.340	0.320	-0.130
292	05567500		Mackinaw River near Congerville, Ill.	3.939	0.280	0.531	3.939	0.280	0.201
293	05567800		Indian Creek Trib near Hopedale, Ill.	2.227	0.371	-0.918	2.265	0.299	-0.358
294	05568000		Mackinaw River near Green Valley, Ill.	3.925	0.303	0.686	3.925	0.303	0.358
297	05568800		Indian Creek near Wyoming, Ill.	3.185	0.238	0.587	3.185	0.238	0.145
298	05568850		Forman Creek Trib near Victoria, Ill.	1.966	0.402	-0.693	2.004	0.337	-0.258
299	05569500		Spoon River at London Mills, Ill.	4.007	0.220	0.649	4.007	0.220	0.270
300	05569825		Cedar Creek Trib at St. Augustine, Ill.	2.576	0.272	-0.191	2.593	0.237	0.169
301	05570000		Spoon River at Seville, Ill.	4.093	0.226	-0.126	4.093	0.226	-0.185
304	05570370		Big Creek near Bryant, Ill.	2.901	0.147	-0.662	2.901	0.147	-0.512
306	05571000		Sangamon River at Mahomet, Ill.	3.607	0.285	-0.073	3.607	0.285	-0.189
307	05572000		Sangamon River at Monticello, Ill.	3.715	0.285	-0.472	3.722	0.270	-0.278
308	05572100		Wildcat Creek Trib near Monticello, Ill.	1.459	0.247	-0.519	1.459	0.247	-0.462
309	05572450		Friends Creek at Argenta, Ill.	3.217	0.269	0.678	3.217	0.269	0.085
310	05572500		Sangamon River near Oakley, Ill.	3.755	0.250	0.398	3.755	0.250	0.063
311	05574000		South Fork Sangamon River near Nokomis, Ill.	3.018	0.343	0.874	3.018	0.343	0.310
312	05574500		Flat Branch near Taylorville, Ill.	3.565	0.314	-0.874	3.580	0.281	-0.451
313	05575500		South Fork Sangamon River at Kincaid, Ill.	3.640	0.299	-0.019	3.646	0.302	-0.107
314	05575800		Horse Creek at Pawnee, Ill.	3.259	0.251	-0.823	3.259	0.251	-0.594
316	05576500		Sangamon River at Riverton, Ill.	4.157	0.308	-1.252	4.175	0.265	-0.585
317	05577500		Spring Creek at Springfield, Ill.	3.238	0.386	-0.273	3.238	0.386	-0.316
318	05577700		Sangamon River Trib at Andrew, Ill.	2.318	0.318	-0.333	2.318	0.318	-0.363
319	05578500		Salt Creek near Rowell, Ill.	3.566	0.357	0.148	3.566	0.357	-0.026
320	05579500		Lake Fork near Cornland, Ill.	3.291	0.338	-0.669	3.338	0.342	0.374
321	05579750		Kickapoo Creek Trib at Heyworth, Ill.	2.616	0.306	0.609	2.616	0.306	0.082