Magnitude and Frequency of Floods in the United States

Part 3-A. Ohio River Basin Except Cumberland and Tennessee River Basins

By PAUL R. SPEER *and* CHARLES R. GAMBLE

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MAGNITUDE AND FREQUENCY OF FLOODS IN THE UNITED STATES

PART 3–A. OHIO RIVER BASIN EXCEPT CUMBERLAND AND TENNESSEE RIVER BASINS

By Paul R. Speer and Charles R. Gamble

ABSTRACT

This report presents a means of determining the probable magnitude and frequency of floods of any recurrence interval from 1.1 to 50 years at most points on streams in the Ohio River basin except Cumberland and Tennessee River basins.

Curves are defined that show the relation between the drainage area and the mean annual flood in eight hydrologic areas, and composite frequency curves define the relation of a flood of any recurrence interval from 1.1 to 50 years to the mean annual flood.

These two relations are based upon gaging-station records having 10 or more years of record not materially affected by storage or diversion, and the results obtainable from them will represent the mangnitude and frequency of natural floods within the range and recurrence intervals defined by the base data.

The report also contains a compilation of flood records at all sites in the area at which records have been collected for 5 or more consecutive years. As far as was possible at each location for which discharge has been determined, the tabulations include all floods above a selected base. Where only gage heights have been obtained or where the data did not warrant computation of peak discharges above a selected base, only annual peaks are shown.

The maximum known flood discharges for the streamflow stations and miscellaneous points except Ohio River main stem stations, together with areal floods of 10- and 50-year recurrence intervals, are plotted against the size of drainage area for each flood region and hydrologic area to provide a convenient means of judging the frequency of the maximum known floods that have been recorded for these points.

INTRODUCTION

PURPOSE AND SCOPE

This volume is one of a series of reports presenting (1) the results of the flood-frequency analysis by the use of which the magnitude and frequency of floods can be estimated for most sites on streams within the area, and (2) the flood data that have been collected at gaging stations within the area.

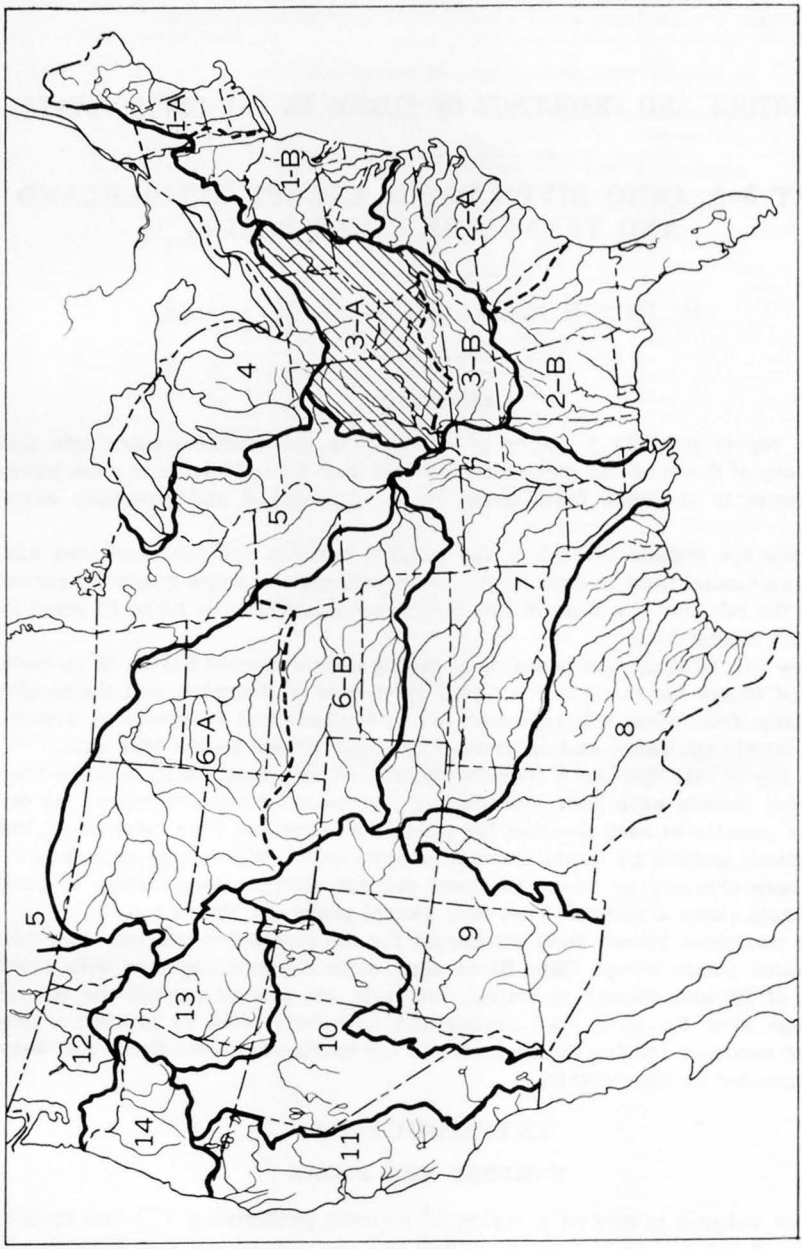

FIGURE 1.—Area covered by this report (shaded).

The area covered by this report (fig. 1) includes the Ohio River basin except the Cumberland and Tennessee River basins and is designated Part 3–A in the reports entitled "Surface Water Supply of the United States," published by the U.S. Geological Survey.

The results present a method for determining the most probable flood magnitude for any recurrence interval between 1.1 and 50 years for any stream, gaged or ungaged, within the scope of the data and are based on a comprehensive study of all flood data available in the area. It should be borne in mind that the recurrence interval of a flood of given magnitude does not imply any regularity of recurrence. For example, two 50-year floods may occur as consecutive floods, or at intervals much longer than 50 years. The equations and curves presented apply to all natural unregulated streams within the designated areas, and within the limits of probable accuracy as discussed later in the report.

The second objective of the report is to compile and publish in a single volume the Part 3–A flood records at streamflow stations and selected stage stations where records have been collected for 5 or more consecutive years. Most of these records have been published previously in water-supply papers of the Geological Survey, reports of the U.S. Army Corps of Engineers, State reports, or publications of the U.S. Weather Bureau.

Within the area covered by Part 3–A, State flood-frequency reports are available for Illinois (Mitchell, 1954), Indiana (Green and Hoggatt, 1960), Kentucky (McCabe, 1962), Maryland (Darling, 1962), New York (Robison, 1961), North Carolina (Forrest and Speer, 1961), Ohio (Cross and Webber, 1959), and Pennsylvania (Busch and Shaw, 1960). Some of these reports, notably those for Illinois (Mitchell, 1954) and Ohio (Cross and Webber, 1959), include regionalization of the frequency curves and utilize variables that define the mean annual flood more closely but are not practical for use in the analysis for the entire Part 3–A. The methods used in the analysis for the remainder of the State reports were similar to that used for Part 3–A, except that additional refinements were also incorporated into some of the State reports.

ACKNOWLEDGMENTS

This report was prepared under the direction of Tate Dalrymple, chief, Floods Section, Surface Water Branch, Water Resources Division, Washington, D.C. Technical guidance on analytical procedure and format were provided by A. Rice Green, hydraulic engineer of the Floods Section, within the general procedure (Dalrymple, 1960) followed by the Geological Survey in flood-frequency studies.

The flood records were compiled and prepared for publication by personnel in the district offices under supervision of district engineers,

Surface Water Branch, as follows: M. D. Hale, Indianapolis, Ind.; J. J. Molloy, Columbus, Ohio; W. C. Griffin, Charleston, W. Va.; D. F. Dougherty, Albany, N.Y.; J. W. Gambrell, Charlottesville, Va.; W. D. Mitchell, Champaign, Ill.; R. E. Steacy, Harrisburg, Pa.; W. E. Forrest, College Park, Md.; E. B. Rice, Raleigh, N.C.; and F. F. Schrader, Louisville, Ky.

Unless otherwise noted in the individual station descriptions, the station data were collected by the U.S. Geological Survey with the assistance of many other Federal and State agencies, municipalities, corporations, and private individuals; credit for this assistance is given in the series of water-supply papers entitled "Surface Water Supply of the United States."

APPLICATION OF THE METHOD

The method of computing the discharge of a flood of a selected frequency at a point on a stream is based upon two fundamental relations: (1) A curve of mean annual flood expressed as a function of size of drainage basin and (2) a dimensionless curve showing the ratio of flood discharges to the mean annual flood, related to the recurrence interval, in years.

MAGNITUDE OF FLOOD OF SELECTED FREQUENCY

To define the first of these relations, Part 3–A was divided into hydrologic areas as outlined on plate 1. The individual areas were determined by trial grouping of records with similar flood-producing characteristics as indicated by the relation of the mean annual flood to the drainage area for stations in each of the areas. Relation curves for the eight area groupings are shown in figure 2. These hydrologic area curves do not apply to streams subject to regulation and diversions or to the Ohio River main stem for which an individual relation is defined (p. 8). The hydrologic area delineations on plate 1 do not apply to the main stems of Green River above Pond Creek (long 87°, approx.), Kentucky River below Eagle Creek, Licking River (tributary to Ohio River in Kentucky), Scioto River below Olentangy River, Wabash River below Salamonie River, and White River from below Eagle Creek to above Bean Blossom Creek; for each of these main stems the appropriate curve listed on figure 2 must be used.

To define the second fundamental relation used to compute the discharge of a flood of a selected frequency at a point on a stream, Part 3–A was divided into flood regions as outlined on plate 1. Delineation of the regions was determined by grouping the station-frequency curves with similar flood-producing characteristics as indicated by the slope of the curves between the 2.33- and 20-year recurrence intervals

for the base period, 1938–60. The relation curves for regions A, B, and C and for the main stems of the Ohio and Kentucky Rivers (curve D) are contained in figure 3, in which the flood of any recurrence interval from 1.1 to 50 years is expressed as a ratio to the mean annual flood. The ratio of a flood of a selected recurrence interval to the mean annual flood can be determined from the appropriate curve, and the product of that ratio and the discharge of the mean annual flood for the point on the stream will give the expected discharge for the selected recurrence interval. The regional delineations on plate 1

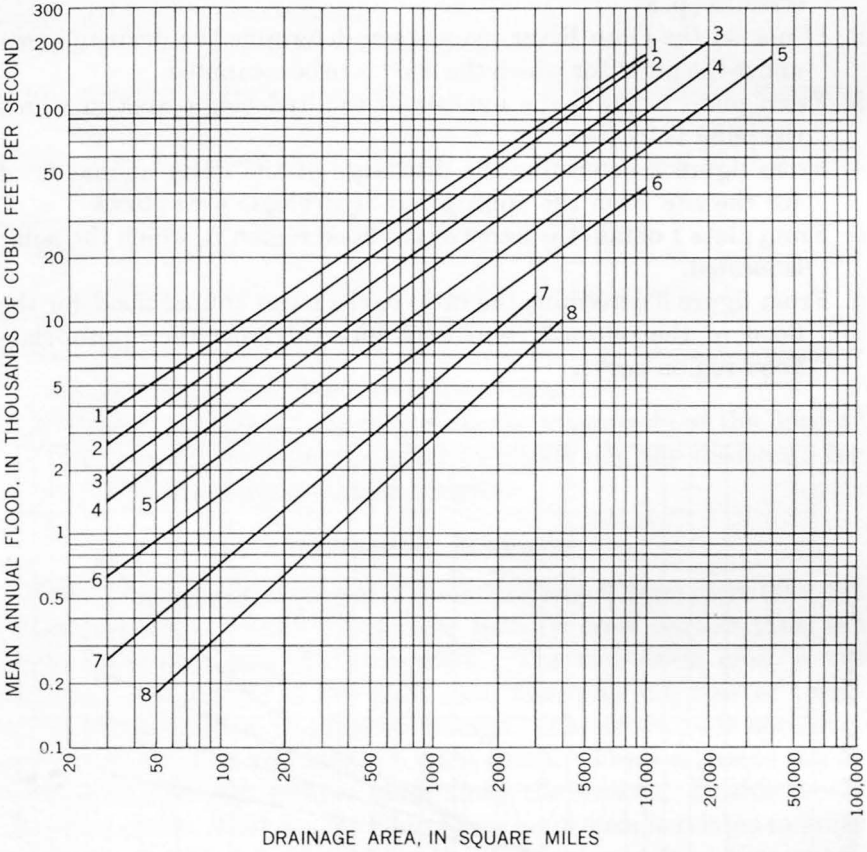

FIGURE 2.—Variation of mean annual flood with drainage area in hydrologic areas 1–8. Use curve 3 for main stem Green River above mouth of Pond Creek (long 87°, approx.); curve 3 for main stem Kentucky River below mouth of Eagle Creek; curve 4 for main stem Licking River (tributary to Ohio River in Kentucky); curve 4 for main stem Scioto River below mouth of Olentangy River; curve 4 for main stem Wabash River from below mouth of Salamonie River to above mouth of Rock Creek; curve 5 for main stem Wabash River below mouth of Rock Creek; curve 5 for main stem White River from below mouth of Eagle Creek to above mouth of Bean Blossom Creek; and figure 6 for main stem Ohio River. These curves are not applicable to streams subject to significant regulation or diversion.

do not apply to the main stems of the Allegheny River below Great Valley Creek, the Kentucky River below South Fork, the Mohican River, the Ohio River, the Wabash River, the Walhonding River, and the White River below East Fork; for each of these main stems, the appropriate curve listed on figure 3 must be used.

To compute the discharge of a flood of a selected frequency at a point on a stream in Part 3–A:

1. If the point at which the information is to be computed is on Ohio River main stem, follow the procedure outlined for main-stem streams (p. 8).
2. If not on the Ohio River main stem, determine the drainage area above the point for which the flood is to be computed.
3. From plate 1 obtain the number of the hydrologic area in which the point is located.
4. From figure 2 determine the discharge of the mean annual flood for the site from the appropriate hydrologic area curve.
5. From plate 1 obtain the letter of the flood region in which the point is located.
6. From figure 3 determine the ratio to the mean annual flood for the flood of the selected recurrence interval from the appropriate flood-region curve.

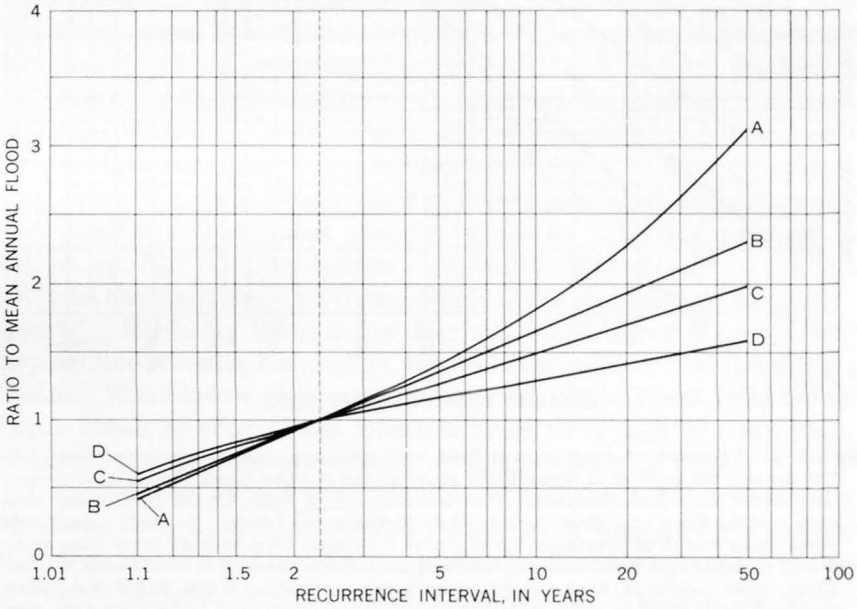

FIGURE 3.—Frequency of annual floods, 1901–60. Use curve C for Allegheny River below Great Valley Creek; curve D for Kentucky River below South Fork; curve B for Mohican River; curve D for Ohio River; curve B for Wabash River; curve B for Walhonding River; and curve C for White River below East Fork.

7. Multiply the discharge of the mean annual flood (step 4) by the ratio (step 6) to obtain the discharge for the flood of the selected frequency.

Owing to sparsity of the basic data in some areas, extrapolation of the curves in figures 2 and 3 beyond the limits shown is not recommended.

ILLUSTRATIVE PROBLEM

It is proposed to build a bridge across the Elk River below Big Sandy Creek, at Clendenin, W. Va., lat 38°29′29″, long 81°20′55″, that will pass a flood of 25-year frequency. For what discharge should the opening be designed?

Given: Recurrence interval=25 years.

1. Because the location is not shown in the exceptions listed on figures 2 and 3, the hydrologic area and flood-region curves apply.
2. The best available maps indicate that the drainage area is 1,290 square miles.
3. Plate 1 shows the point is in hydrologic area 2.
4. Figure 2, curve 2, shows the discharge of the mean annual flood for 1,290 square miles is 40,000 cfs (cubic feet per second).
5. Plate 1 shows the point is in flood region B.
6. From figure 3, curve B, the ratio of a flood of 25-year frequency to the mean annual flood is computed to be 2.02.
7. Multiplying 40,000 cfs by 2.02 gives the magnitude of the flood of the 25-year recurrence interval as 80,800 cfs, the discharge for which the opening should be designed.

MAIN-STEM STREAMS

Main-stem streams may receive their flood runoff from more than one hydrologic area. Small tributaries usually crest earlier than the larger tributaries and the main stem. The main-stem crest is the maximum summation of the main-stem flow plus the flow of tributaries, all attenuated by channel storage. Therefore, it is necessary to define individual relations for main stems. These relations can be based upon drainage area or miles along the stream. In this report the mean annual flood for the Ohio River main stem is related to miles below Pittsburgh and above Cairo Point. Upstream from Cincinnati, this curve is based on annual flood peaks experienced since storage began in flood-control reservoirs built after 1937; this storage has not materially affected the annual flood peaks at and below Cincinnati. For other main-stem streams in Part 3–A, the mean annual flood is related to the drainage area, and the appropriate curve (fig. 2) is applicable.

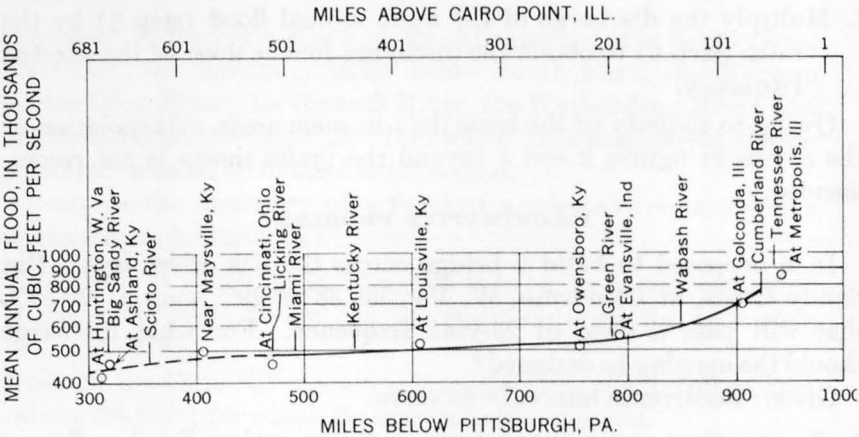

FIGURE 4.—Ohio River, variation of mean annual flood with distance below Pittsburgh and above Cairo Point. Upstream from Cincinnati, Ohio, the curve is based on annual flood peaks since storage began in flood-control reservoirs built after 1937; this storage has not materially affected the annual flood peaks at and below Cincinnati, Ohio.

To determine the discharge of a flood of a selected frequency for a point on the Ohio River main stem:

1. Determine the river mileage of the point below Pittsburgh or above Cairo Point.
2. From figure 4, determine the discharge of the mean annual flood corresponding to the river mile.
3. From figure 3, determine the ratio of the flood of the selected recurrence interval to the mean annual flood (curve D).
4. Multiply the discharge of the mean annual flood (step 2) by the ratio (step 3) to obtain the discharge for the flood of the selected frequency.

SITE FLOOD-FREQUENCY CURVE

A flood-frequency curve for a site, gaged or ungaged, covering any range of recurrence intervals between 1.1 and 50 years can be drawn by repeating steps 6 and 7 in the illustrative problem (steps 3 and 4 for Ohio River main stem) for several selected recurrence intervals. The resulting frequency curve may not exactly define past occurrences at the site, but it does furnish a more reliable guide to what might be expected to occur in the future than a frequency curve based only on records for that one site.

If the magnitude of a flood at the site on the stream is known, the approximate recurrence interval of the flood can be estimated from the site flood-frequency curve constructed as explained above.

FLOOD-FREQUENCY ANALYSIS

The many factors that can affect the magnitude and frequency of floods can be divided into two classes, physiographic and meteorologic. Some physiographic factors are: size of drainage basin, channel storage, slope of streams, topography, stream density and pattern, orientation of the stream with the storm pattern, underlying geology, soil cover, and land use. Some meteorologic factors are: climate, storm direction and pattern, storm volumes, precipitation intensities, and snow accumulation. Some factors are simple and lend themselves to rational interpretation, but others are interdependent, nebulous, and difficult to evaluate. Only the size of the drainage basin is evaluated directly in the analysis for this report. The following description of the area summarizes some of the less tangible of other factors that may aid engineering interpretation in application of the method.

DESCRIPTION OF THE AREA

The area covered by this report is in six physiographic provinces. The headwaters of the New River in North Carolina and southwestern Virginia rise in the mountainous Blue Ridge province. The New River valley crosses the Middle section of the Valley and Ridge province. A narrow belt along the east side of the area in West Virginia, which includes the headwaters of the Greenbrier River and Dry Fork, is in the same province. The greater part of the eastern half of Part 3–A is in the Appalachian Plateaus province which includes parts of the Southern New York, Allegheny Mountain, Kanawha, Cumberland Plateau, and Cumberland Mountain sections. West of the Appalachian Plateaus, most of the area north of the Ohio River upstream from Louisville, Ky., and most of the area in Part 3–A in Indiana and Illinois are in the Central Lowland province. The remainder of the area is in the Interior Low Plateaus province except for the extreme western tip in southern Illinois and western Kentucky which is in the Mississippi embayment of the Coastal Plain province.

The stream pattern within the area is coarse and irregular. The Allegheny River flows generally southward across Pennsylvania to Pittsburgh where it combines with the Monongahela River flowing northward to form the Ohio. The Ohio main stem flows generally westward to the Mississippi River at Cairo, Ill.

Topography in the area ranges from peaks higher than 5,000 feet in the upper reaches of the New River basin in North Carolina and Virginia to a low of about 320 feet at Cairo. The topography is most rugged in the Blue Ridge and Valley and Ridge provinces. The Valley and Ridge province in Part 3–A is dominated by the Pedlar Hills on the east, and is characterized toward the northwest by sharp

narrow valleys, probably carved from a peneplain, and successive residuals ridges on which altitudes higher than 3,500 feet are common.

In the Allegheny Plateau province, the Allegheny Mountain section in the Youghiogheny River basin is characterized by ridges reaching altitudes as high as 3,100 feet and, in places, rising from a few hundred feet to 1,000 feet above the intervening plateau surface. The Kanawha section of the plateau in central West Virginia reaches altitudes of 3,500 feet or more, which is about the same height as the mountains in the Allegheny Mountain section. From central West Virginia, the plateau surface slopes downward toward the north and west. At its western edge in central Ohio and northern Kentucky, altitudes of 1,200 to 1,300 feet are common, and the narrow river valleys are from 200 to more than 300 feet deep; the higher altitudes favor the deeper valleys. Along the southern edge of Part 3–A in Kentucky the higher altitudes exceed 2,000 feet and the relief exceeds 1,000 feet. Toward the north from about lat. 41° in mid-Pennsylvania the plateau surface rises to about 2,100 feet at the New York State line.

The southern New York section is the glaciated part of the Allegheny Plateau in the Ohio River basin. In this section the altitudes along the western margin decline from about 2,100 feet at the New York-Pennsylvania line to about 1,300 feet at the Pennsylvania-Ohio line and then to about 900 feet in the headwaters of the Mahoning River in northeastern Ohio.

The boundary of the Central Lowland province is marked by a visible change in the topography on the east where the slightly higher and more dissected Allegheny Plateau gives way to the smooth glaciated plain. The south boundary of this province marks the limit of glaciation. The topography of this area is lacking in variety and has low relief.

The Interior Low Plateaus province extends south from the limit of glaciation and west from the Appalachian escarpment to the Mississippi embayment on the south. The topography of this province is characterized by a mature plateau of high relief in the Highland Rim section extending from southern Indiana to southeast of central Kentucky, a mature old plain trenched by main rivers in the Lexington Plain in north and central Kentucky, and a low dissected plateau having silt-filled valleys in the western limits of the province.

A more detailed description of the physiography of the area is given by Fenneman (1938).

The climate of the area is continental. It varies widely over the broad expanse of the Ohio River basin and is characterized by pronounced differences in the mountainous sections. The average annual precipitation ranges from about 36 inches in parts of Illinois, Indiana, Ohio, Pennsylvania and West Virginia to more than 60 inches in the

southern part of Randolph County, West Virginia. The principal source of precipitation is the warm moist air masses that move northeastward from the western Gulf of Mexico, but precipitation induced by the influence of the Great Lakes occasionally extends over the divide into the Ohio River basin. The average annual snowfall ranges from less than 10 inches in the southwestern corner to more than 115 inches at Pickens, W. Va.

CHARACTERISTICS OF FLOOD RUNOFF

Floods may occur in the area during any month but they rarely occur during July to November. The streams commonly have one major flood period which occurs January to April; the frequency of occurrence is greatest during March. The high frequency of occurrence in March results from precipitation during the month and the melting of snow that has accumulated during the winter months.

Streamflow is generally well sustained throughout the year. The average annual runoff generally is highest from streams in the eastern part of the area and decreases toward the west.

The pattern of the hydrologic areas (pl. 1), which is an index of the intensity of flood runoff, is irregular. The unit runoff is highest in the areas numbered 1, and the intensities decrease in succeeding numbered areas to the lowest which is numbered 8.

METHOD OF ANALYSIS

The statistical and hydrologic bases for methods used in this analysis are published in Water-Supply Paper 1543–A (Dalrymple, 1960). The method consists of:

1. Tabulating flood data for all gaging stations in the area having a record of 10 or more years not materially affected by regulation or diversion.
2. Selecting the base periods to be used in the study and adjusting all flood records to the base periods.
3. Determining the order of magnitude of each flood beginning with the greatest flood as number 1.
4. Computing the recurrence interval, in years, for each annual flood by using the formula $T=\frac{n+1}{m}$, where T is recurrence interval, in years, n is number of years of record, and m is the magnitude of flood, the highest being 1.
5. Preparing flood-frequency curve or curves for each station.
6. Testing the flood data for homogeneity.
7. Computing the median flood ratios.

8. Plotting the median flood ratios and drawing regional frequency curves.
9. Plotting the mean annual flood versus the drainage area and drawing a curve or curves to show the relations applicable for the hydrologic areas.
10. Determining the frequency relation for the main stems of the large streams that traverse or receive their flow from more than one hydrologic area.

The relations that are defined by this method for a homogeneous region and for the hydrologic areas within the region are assumed, within the limits of the data, to be applicable to all points on streams, gaged or ungaged, within the region.

FLOOD FREQUENCY AT A GAGING STATION

Flood data for a gaging station can be analyzed in two ways, (1) as an annual flood series and (2) as a partial-duration series, or floods above a base.

An annual flood is defined as the highest momentary peak discharge in the water year (October 1 to September 30). In an annual flood series, only the greatest flood in each water year is used; this type is a complete-duration series and is susceptible to mathematical analysis by several methods, of which Gumbel's (1945) method is an example. The disadvantage of the annual flood series is that when several high floods occur in the same water year, some floods higher than many annual floods are disregarded.

The partial-duration series overcomes the disadvantage of not considering all high floods by listing all floods above a selected base discharge. The base selected is such that an average of 3 or 4 floods per year will exceed the base. Some water years may have no floods above the base. Thus the partial-duration series is discontinuous and is not susceptible to rigorous mathematical analysis. Another disadvantage of the partial-duration series is that the floods listed may not be fully independent events. Because one flood will at times set the stage for another, arbitrary rules must be formulated for selecting the peaks to be included. Furthermore, the resulting damage from several floods occurring within a relatively short period of time may be very little greater than that from only a single flood.

There is an important difference between the recurrence interval of annual floods and the recurrence interval of partial-duration series floods. The recurrence interval of annual floods is the average interval of time within which a given flood will be equaled or exceeded once as an annual maximum. The recurrence interval of partial-duration series floods is the average interval between floods of a given size

regardless of their relations to the year or any other period of time. This distinction remains, even though for the large floods the recurrence intervals are practically the same on both scales. The two methods of analysis give virtually identical results for intervals greater than about 10 years. Inasmuch as most designs are for intervals greater than 10 years, there is little practical difference in choice between types. The annual flood method of analysis has been used for this report, but in the compilation of flood records, all floods above the base are listed if the data warrant.

Statistical principles show a definite relation between the values in the two series, as indicated in the following table by Langbein (1949):

Recurrence intervals, in years

Annual flood series	*Partial-duration series*	*Annual flood series*	*Partial-duration series*
1.16	0.5	10.5	10
1.58	1.0	20.5	20
2.00	1.45	50.5	50
2.54	2.0	100.5	100
5.52	5.0		

When average frequency of stream discharge over a certain amount is needed (as when designing a low fill across a valley on a secondary road so that the higher floods will overflow the road), the frequency curve based on the partial-duration series should be used. Conversion from annual floods to partial-duration series floods, by use of the relation expressed in the above table, gives entirely adequate results and is also the simplest procedure.

RECORDS USED

The annual flood data used in the analysis for this report were obtained from records of gage height and discharge collected by the Geological Survey and by other agencies.

Peak discharge records 10 or more years in length for 463 gaging stations in Part 3–A, not materially affected by regulation and diversion, were used in the analysis. In addition to these, records for 15 stations in Part 1–B, 20 stations in Part 4, 9 stations in Part 5, 2 stations in Part 7, and the previously delineated areas in Part 2–A and 3–B were used in order to obtain adequate coverage within Part 3–A and along its boundary. Data from 85 other stations in Part 3–A having 10 or more years of record were not used because the ratings were not defined, the records lacked independence from others of comparable length, the stations were on streams materially affected by regulation or diversion, or the period of record was outside the base periods. Records on lakes, reservoirs, springs, and canals were not used. Where two or more stations have been operated on a stream and

the drainage areas are within 25 percent of the smaller, the records cannot be considered independent and were combined by adjusting the record of one to that of the other on basis of drainage-area ratio. Of the 463 sets of gaging-station records used, 54 were combined with others to produce point data for 409 locations in Part 3–A. The analysis is based on annual floods at these 409 locations.

The flood records used in this analysis range from 10 years to 83 years in length. Many were relatively short. In order to reduce the task of estimating a large number of flood discharges for periods of no record, four base periods were selected, 1901–60, 1915–60, 1922–42, and 1938–60. Where a station record was incomplete during a base period, computation figures for the missing annual events were estimated and order numbers computed for the known discharges. Depending upon the length of record at each station, recurrence intervals were computed and flood-frequency graphs plotted for one, two, three, or four base periods.

FITTING FREQUENCY GRAPHS

The frequency graphs were prepared on a special form (Powell, 1943) for analysis of flood frequencies by the theory of extreme values. Figure 5 is a flood-frequency curve for the record of Greenbrier River at Alderson, W. Va. A smooth curve was fitted to the plotted points by eye; less weight was given to the extreme values because the true recurrence interval of these extreme points may not be known.

REGIONAL FLOOD FREQUENCY

Two basic relations are used in the regional flood-frequency analysis. One relates the mean annual flood to significant basin characteristics, and the other relates the discharge, in ratio to the mean annual flood, to the recurrence interval.

MEAN ANNUAL FLOOD

The basis for defining the fundamental relations for determining the magnitude and frequency of floods in Part 3–A is the mean annual flood. The mean annual flood on a station frequency curve is the graphical mean determined by the intersection of the visually best-fitting frequency line with the line corresponding to the 2.33-year recurrence interval. This graphical mean is reasonably stable and is used as an indication of the flood potentiality of streams having similar physical characteristics. It gives greater weight to the floods of average magnitude and is not seriously influenced by the floods of extreme magnitude. In figure 5, the mean annual flood for the Greenbrier River at Alderson, W. Va., is 36,000 cfs. The mean annual flood

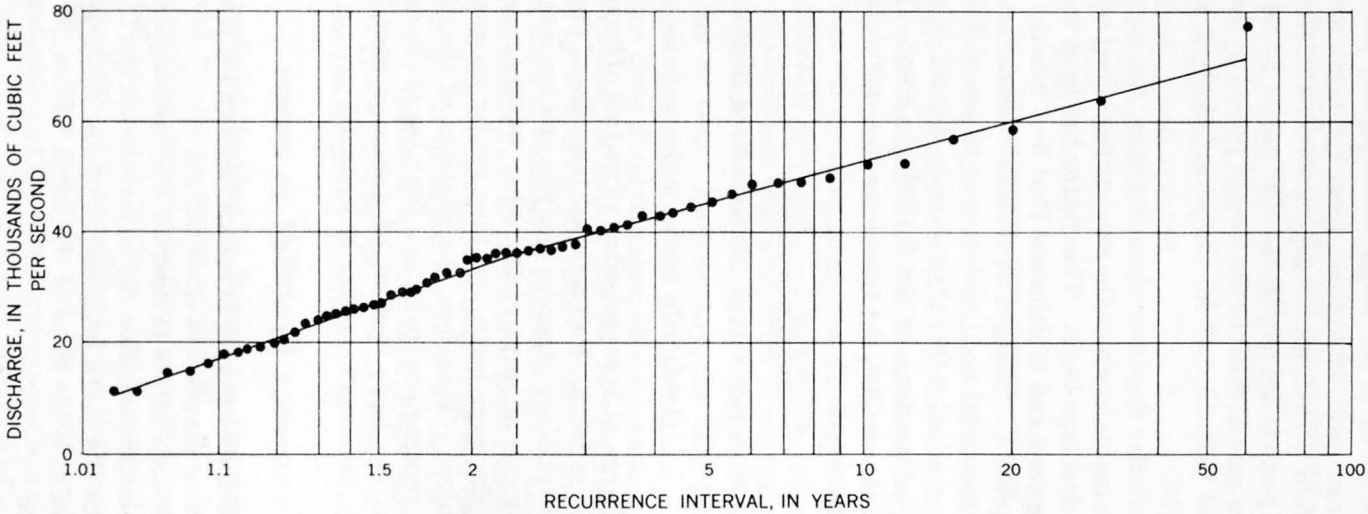

FIGURE 5.—Flood-frequency curve for Greenbrier River at Alderson, W. Va.

for each of the 409 locations used in the analysis for Part 3–A was determined and adjusted to the longest base period, 1901–60, on the basis of the average ratio determined from the mean annual floods computed for all four periods for the gaging stations where the records for all four base periods are available. The ratios found applicable to adjust the mean annual flood to the longest period in this study are 1.02 for the period 1938–60, 1.07 for the period 1922–42, and 1.04 for the period 1915–60.

In an area of similar floodflow characteristics, the most dominant factor readily obtainable to which the mean annual flood can be related is the size of the drainage basin. This factor has been used to define the relations in figure 2 and to delineate Part 3–A into the hydrologic areas shown on plate 1. Changes in floodflow characteristics as expressed in the mean annual flood with respect to size of drainage basin are believed to be gradual rather than sharply defined as might be inferred from the delineations of the hydrologic areas. To simplify the application of the method, the areas have been delineated as closely as the base data permitted.

FLOOD EQUATIONS

The formula used in this report to relate flood discharge to basin characteristics is:

$$Q=f(\mathrm{a},\ \mathrm{b},\ \mathrm{c},\ \mathrm{d},\ \ldots)$$

in which the discharge, Q, is expressed as a function of basin characteristics a, b, c, d, and so forth. Factors other than size of drainage basin are much less susceptible to rigorous analysis and are interdependent. Furthermore, any one or more of the other factors may vary quite widely within a drainage basin and thus render an analysis of the factor more nebulous. Therefore, the relations of the discharge are expressed in this report principally as a function of the drainage area and, inasmuch as the basic element of discharge used is the mean annual flood, $Q_{2.33}$, equation 1 can then be written

$$Q_{2.33}=CA^{x} \tag{2}$$

in which A is the drainage area in square miles and C is an empirical coefficient expressing the effect of other factors.

The hydrologic-area curves in figure 2 are expressions of this equation. To determine the equation for any of the curves, C is the figure for $Q_{2.33}$ at which the curve intercepts 1 on the drainage area scale, and the exponent, x, is the slope of the curve. Thus, for curve 1 the equation becomes

$$Q_{2.33}=393(A)^{0.668}$$

or $\log Q_{2.33}=\log 393+0.668 \log(A)$.

Similarly, equations for curves 2–8 are as follows:

Curve 2: $Q_{2.33}=226(A)^{0.724}$
Curve 3: $Q_{2.33}=161(A)^{0.726}$
Curve 4: $Q_{2.33}=122(A)^{0.726}$
Curve 5: $Q_{2.33}=82.7(A)^{0.726}$
Curve 6: $Q_{2.33}=54.3(A)^{0.726}$
Curve 7: $Q_{2.33}=14.0(A)^{0.857}$
Curve 8: $Q_{2.33}=4.67(A)^{0.932}$

COMPOSITE FREQUENCY CURVE

The flood-frequency graph for an individual station represents a random sample of the relations of the observed past-flood discharges for one particular time period to the frequency at which they occurred. The slope of this graph may differ for different stations, and the extension of these curves to ascertain the discharges of floods at higher recurrence intervals may result in unreliable estimates. If two or more point relations are available, there is no basis for determining which point relation may be the more nearly correct one to use for a given stream or area. Furthermore, the need for flood-frequency data at ungaged sites cannot be met with point data.

To overcome these disadvantages, dimensionless flood-frequency relations were defined for each of the 409 locations used in the analysis for Part 3–A by computing the ratios of the discharge of floods to the mean annual flood at recurrence intervals of 1.1, 1.5, 5, 10, 20, and 50 years, and then computing the medians of these ratios. These medians were used to define the composite, dimensionless, regional flood- frequency curves shown in figure 3. Each of the curves A, B, and C shown in figure 3 applies to a corresponding homogeneous region (pl. 1) determined by a statistical test. Curve D applies to the main stems of the Ohio and the Kentucky Rivers.

LIMITS OF PROBABLE ACCURACY

A study was made in 1952 by Benson (in Dalrymple, 1960) of the maximum and minimum values of the 10-, 25-, 50-, and 100-year floods, as determined graphically from records of various lengths, for 80, 95, and 100 percent of the time. In the study, 1,000 hypothetical annual floods, distributed according to the theory of extreme values (Gumbel, 1945), were analyzed and the results compared with the known characteristics of the base curve to ascertain the probable range of accuracy with which the magnitude of a flood of a given recurrence interval might be determined by using flood records of various lengths.

The following table based on Benson's study shows the length of record necessary to define floods of selected frequency within 10 percent and 25 percent of correct long-term (1,000-year) value.

Length of record required to define flood within indicated percentage of correct value 95 percent of time

Magnitude of flood (years)	Length of record (years)	
	Within 25 percent of correct value	Within 10 percent of correct value
2.33	12	40
10	18	90
25	31	105
50	39	110

The table indicates that a minimum of 12 years of record should be available at a station to determine the mean annual flood within 25 percent of the correct value 95 percent of the time. In using records as short as 10 years in length in the analysis, the expected accuracy of the results may appear to be depreciated to some extent. However, it should be kept in mind that the shortest records used are adjusted to the shortest base period by estimating figures for the missing annual events and then computing the recurrence intervals for the known discharges on the basis of the number of years within the base period. The effective length of the 10-year record is assumed to be thus increased by 50 percent, or to 15 years. The observed mean annual flood computed on the basis of the 10-year record is also adjusted by an empirical factor determined from the longest or 60-year period, 1901–60, which has the effect of further increasing the effective length of the shorter records.

Extrapolation of the regional flood-frequency curve beyond the 50-year recurrence interval is not recommended. However, if needed, the discharge of a flood of greater recurrence interval can be estimated by extending the regional flood-frequency curve, but with attending reduction in expected accuracy.

SUMMARY

This report provides as its first objective a method of estimating the magnitude and frequency of floods on most streams in Part 3–A, Ohio River basin except Cumberland and Tennessee River basins, not subject to significant regulation or diversion. For the second objective, complete flood records at gaging stations are compiled, and a summary of miscellaneous maximum discharges is made. A summary table of the maximum stage and discharge at each gaging station

provides the user with information important in design considerations.

The method is dependent upon two relations—one of mean annual flood to size of drainage basin and another of dimensionless peak discharges to recurrence interval. The combination of these two curves provides, within the limits of the data, a means of determining a frequency curve for any location, gaged or ungaged. Eight hydrologic areas are defined on a map and each has an individual mean annual flood-drainage area curve. The Ohio River main stem has a mean annual flood-distance above mouth curve. Three flood regions are defined on a map and each region has an individual dimensionless discharge-frequency curve. A separate dimensionless discharge-frequency curve is defined for the main stems of the Ohio and the Kentucky Rivers. The relations are valid for drainage areas within the limits shown on the mean annual flood-drainage area curves and for recurrence intervals of as much as 50 years.

The method can be used to estimate the magnitude of a flood of selected frequency or to estimate the recurrence interval of a flood of known magnitude.

The analysis of the data follows that explained by Dalrymple (1960). Annual peak discharges recorded at 409 locations are used. Mean annual floods are derived graphically from individual station discharge-frequency curves adjusted to a common base period. The relations of mean annual flood to drainage area are defined graphically in the functional form:

$$Q_{2.33}=CA^{x}$$

or

$$\log Q_{2.33}=\log C+X \log A.$$

The reliability of the method is discussed by using a study by Benson (in Dalrymple, 1960).

FLOOD RECORDS AT GAGING STATIONS AND MISCELLANEOUS SITES

Tables showing maximum known floods at gaging stations and miscellaneous sites and lists of peaks at gaging stations are given in this section of the report.

MAXIMUM KNOWN FLOODS

A summary of maximum stages and discharges and other pertinent data for flood records in Part 3–A is contained in table 1. The stations are listed in downstream order corresponding to that currently used by the U.S. Geological Survey in surface-water reports.

762-908 O - 65 - 3

The station number is the permanent nationwide identification number assigned to the station and is used throughout this report. It also is the number used on plate 1 to show the approximate location of the station. In assigning the number, no distinction is made between crest-stage partial-record stations, stage stations, and daily-record stations. The "Period of known floods" column shows the period during which the peak is known to be the maximum, and does not necessarily indicate that all annual floods or floods above a selected base are known for the period.

The flood region, indicated by a letter, is determined from plate 1, except for the streams listed on figure 3, and shows the corresponding letter of the regional flood-frequency curve (fig. 3) applicable to the station. The hydrologic area, indicated by a number, is the number of the hydrologic area (pl. 1) in which the station is located, except for the streams listed on figure 2. For the Ohio River main stem at and downstream from Huntington, W. Va., the letters "MS" appear in place of a hydrologic area number, which means that the main stem mean annual flood curve (fig. 4) is applicable. The areal mean annual flood is computed from the appropriate curve in figure 2 (fig. 4 for Ohio River main stem) corresponding to the number of the hydrologic area.

Maximum discharges are listed in cubic feet per second and cubic feet per second per square mile. The maximum known stage is listed as a separate entry if a reasonably accurate discharge figure could not be computed for this stage. The recurrence interval in years for the maximum discharge is computed from the ratio to the areal mean annual flood and the appropriate flood-region curve (fig. 3). If the recurrence interval thus computed is greater than 50 years, the ratio of the maximum discharge to the discharge for the 50-year flood is shown and the figure so noted. If the maximum discharge is less than the mean annual flood, the recurrence interval is not shown.

Peak discharge for each maximum known flood has been plotted against drainage area. Figures 6–24 show these plottings (solid circles) in each flood region and hydrologic area; the curves represent discharges for regional-areal floods of 10- and 50-year recurrence intervals. The plots provide a convenient means of estimating the frequencies of maximum known floods and the probable peak discharges that can be expected to occur anywhere within each given flood region and hydrologic area.

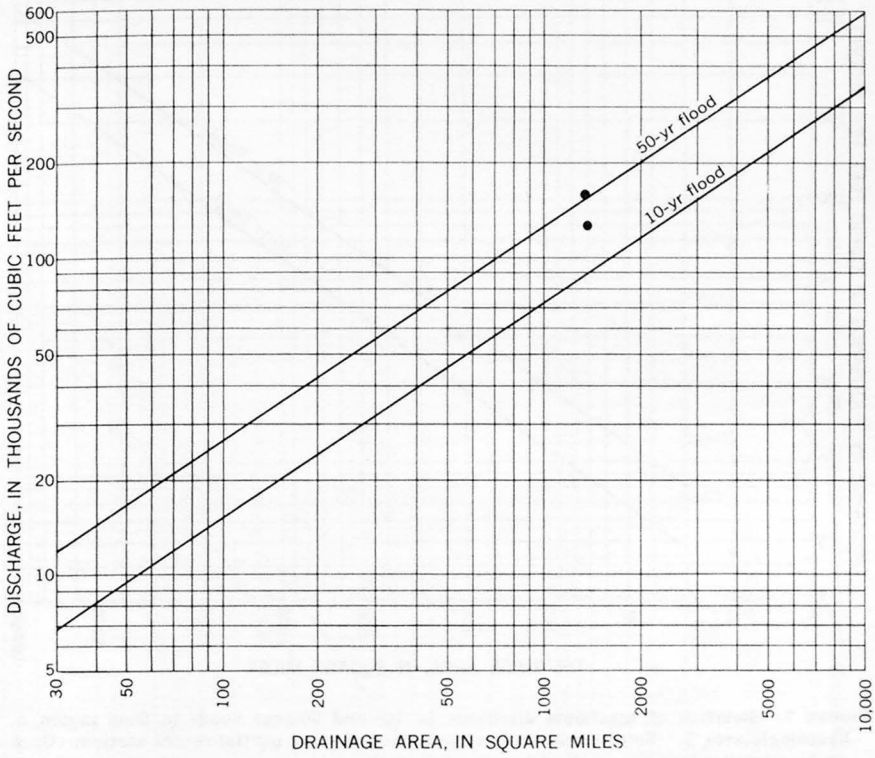

FIGURE 6.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 1. Solid circle, daily-record or crest-stage partial-record station.

MISCELLANEOUS FLOOD DATA

In addition to records at gaging stations, the discharge of major floods has been determined at miscellaneous sites. Where other data are not available, information on isolated flood events may be useful in evaluating the flood potential of an ungaged area or in estimating the approximate frequency of a known major flood. A list of peak discharges at miscellaneous sites and unusual flood at short-term (less than 5 years of record) gaging stations is shown in table 2. Only those floods having a recurrence interval of 10 years or longer, as determined from figure 3, are listed. Most of these observations were made because of the occurrence of some outstanding flood event. The event may have been extremely local or may have extended over a large area, encompassing many streams. As an aid in use of the data, the flood region and hydrologic area in which the miscellaneous site falls is shown in the fourth column, and the recurrence interval or the ratio of the maximum discharge to that of the 50-year flood is shown in the

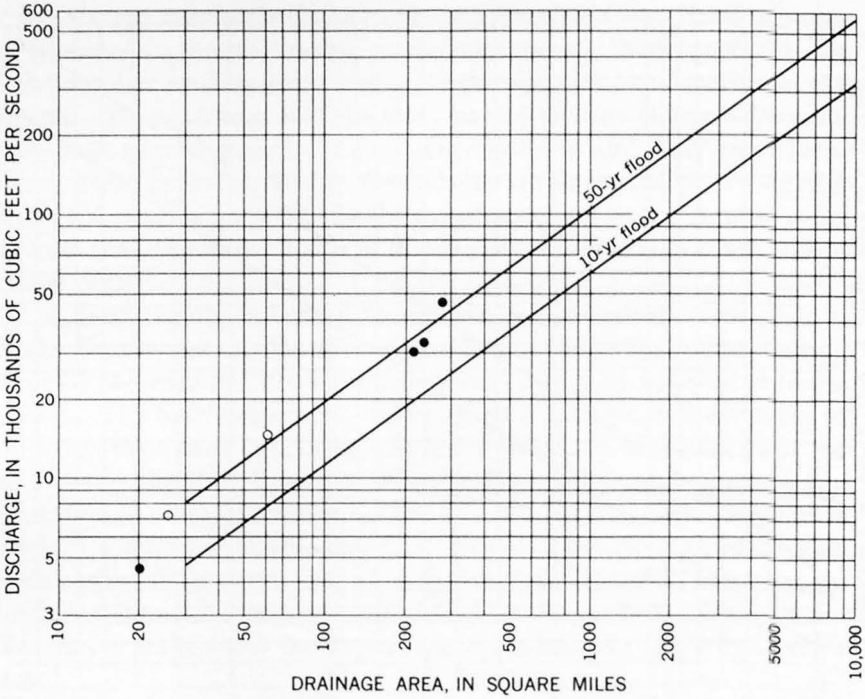

FIGURE 7.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 2. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

last column of the table. These flood discharges have been plotted against the drainage areas as open circles on figures 7–17 and 20–22 as an aid in judging their relative frequency of occurrence.

LISTS OF PEAKS AT GAGING STATIONS

Peak stages and discharges for 681 streamflow and selected stage stations are tabulated in the remaining part of the report. Most of these records are from stations operated by the Geological Survey with the assistance of other Federal agencies, States, and municipalities. Some of the records have been collected by other agencies, and some have been furnished by corporations and private individuals. If the data for any station are furnished by or compiled from reports or publications of another agency, proper credit to the agency is shown in the station description or footnote.

The data presented for each station includes a station description and a table of peak stages, or discharges, or both. The station description gives the location, drainage area, type of gage, how the stage-discharge relation is defined over the range of discharge published in

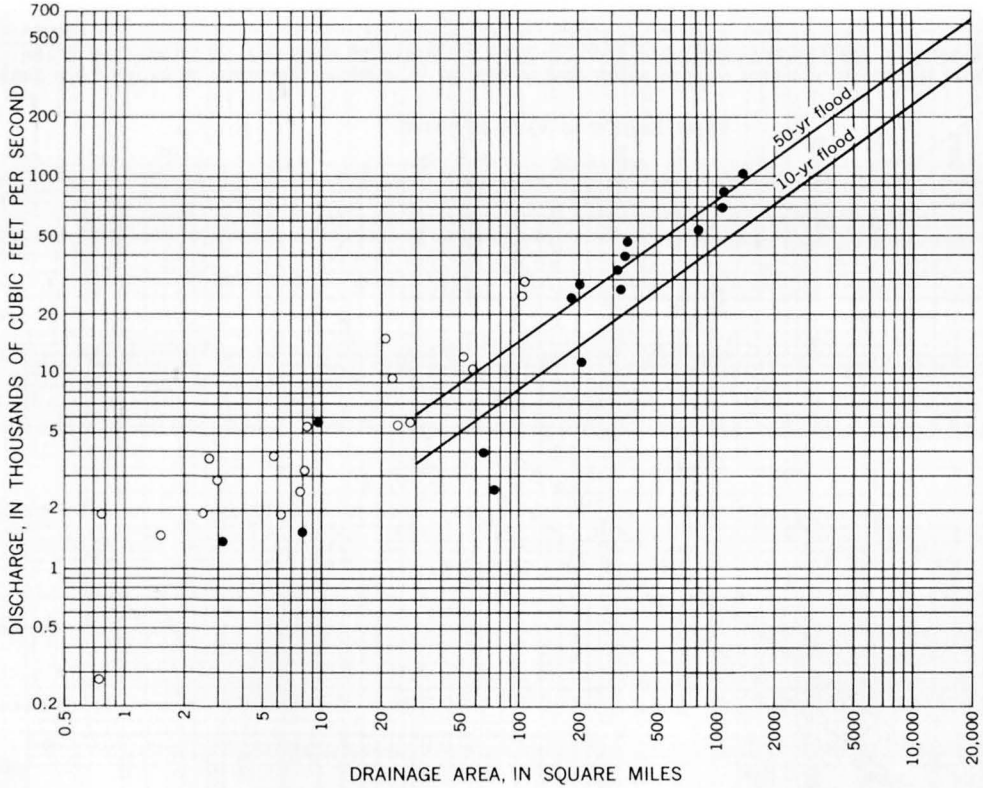

FIGURE 8.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 3. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

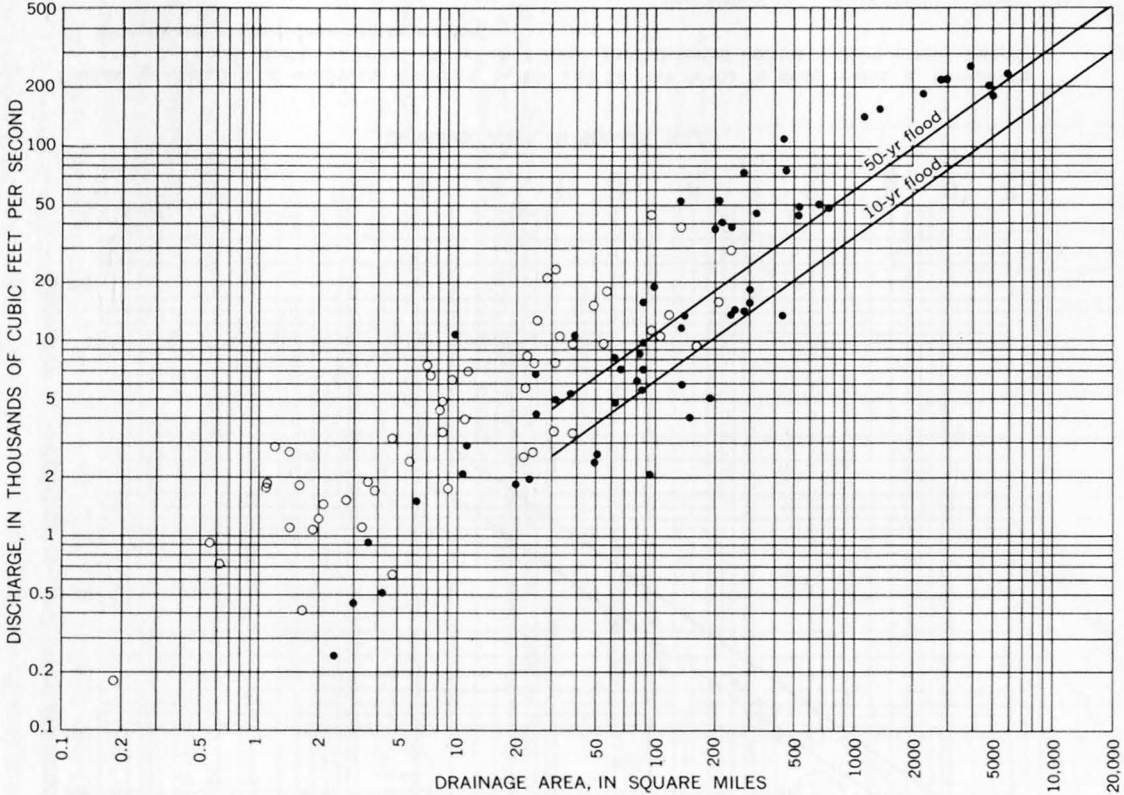

FIGURE 9.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 4. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

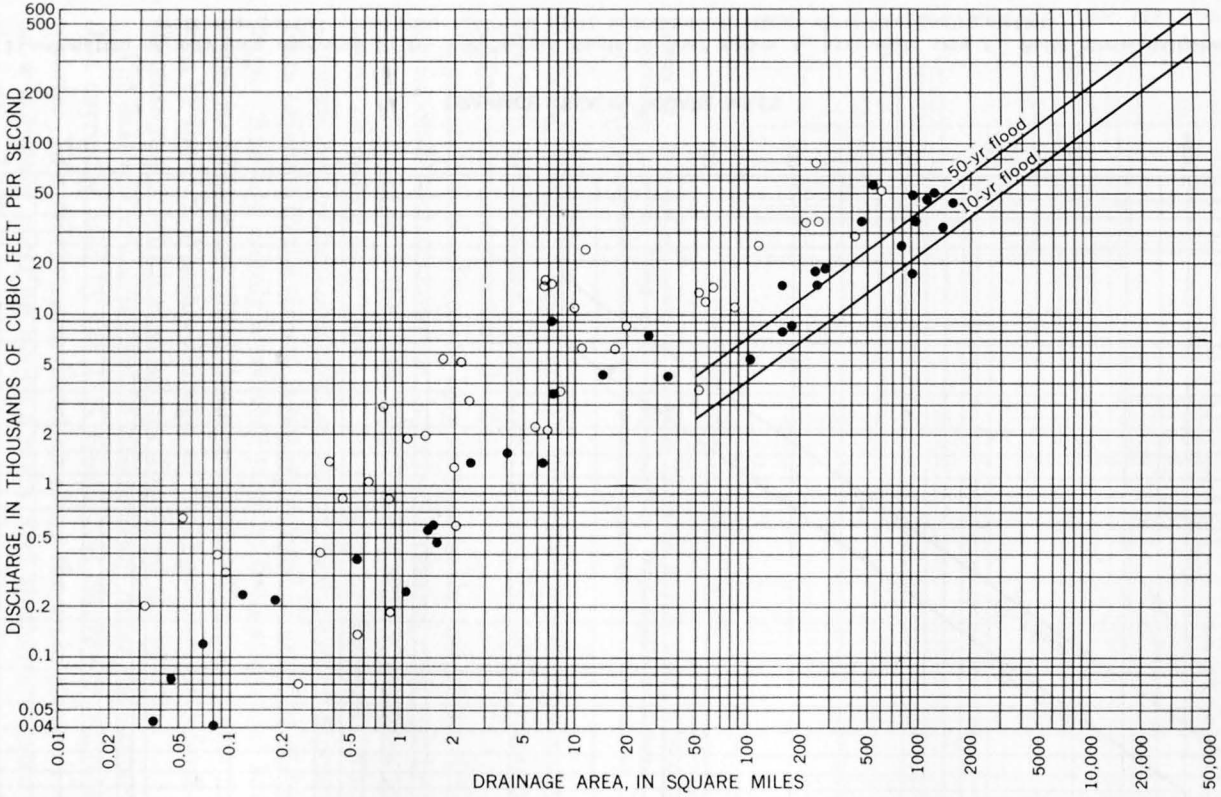

FIGURE 10.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 5. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

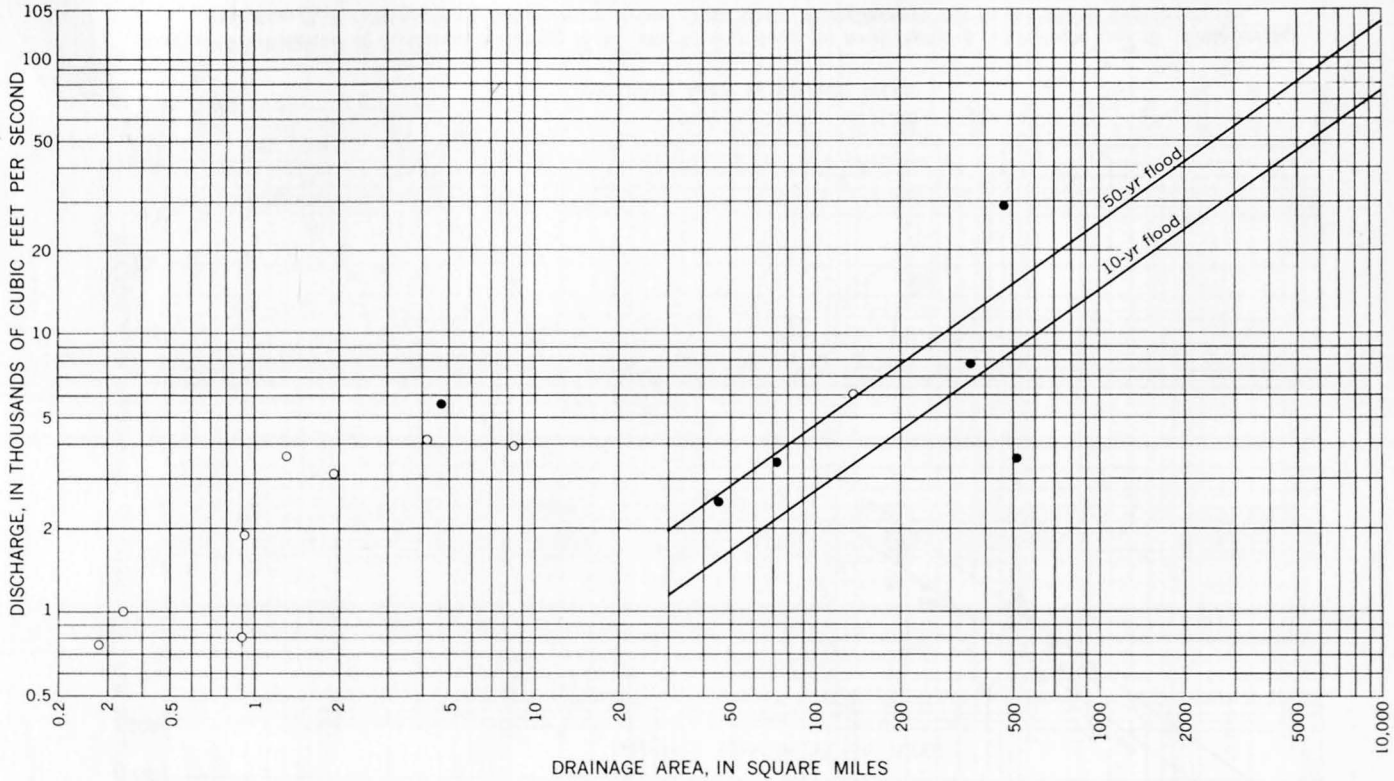

FIGURE 11.—Relation of maximum discharge to 10- and 50-year floods in flood region A, hydrologic area 6. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

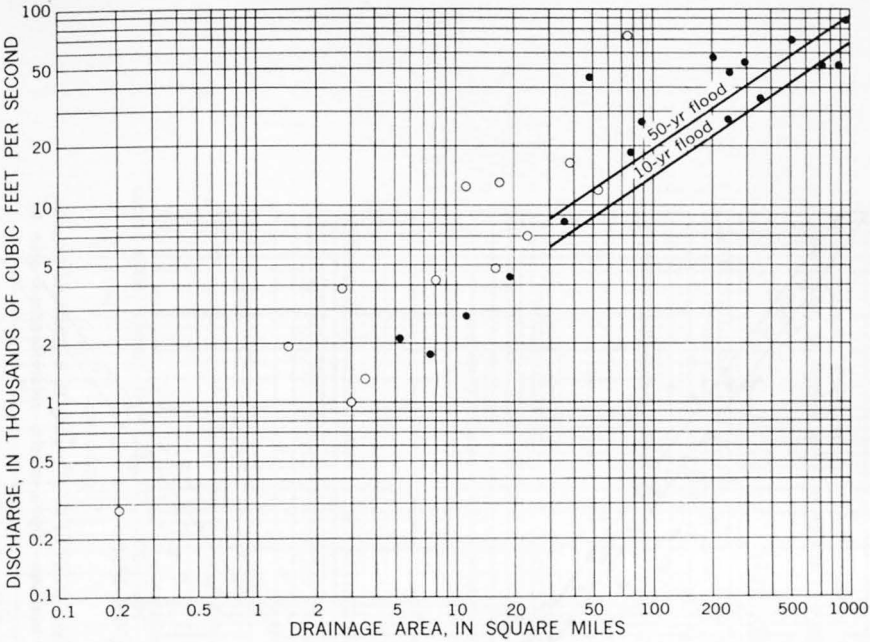

FIGURE 12.—Relation of maximum discharge to 10- to 50-year floods in flood region B, hydrologic area 1. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

the table, bankfull stage if known, historical data of a general or relative nature that cannot be included in the table, and a paragraph on general remarks concerning the data.

Each station is referenced by a number to the left of the title which corresponds to that shown on the general location map (pl. 1).

Bankfull stage is the gage height above which extensive overflow occurs on one or both banks in the vicinity of the gage. This stage is determined by field observation; minor flooding of unimportant low areas adjacent to the stream is not considered in arriving at bankfull stage. Another closely associated term is flood stage and is defined as the stage at which flood damage begins. The latter term has been used by the U.S. Weather Bureau, and is appropriately referenced for all stations for which that agency furnished the figure.

The stations are arranged in downstream order corresponding to that currently used by the U.S. Geological Survey in surface-water reports. In a downstream direction along the main stem, all stations on a tributary entering above a main-stem station are listed before that station. If a tributary enters between two main-stem stations it is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries.

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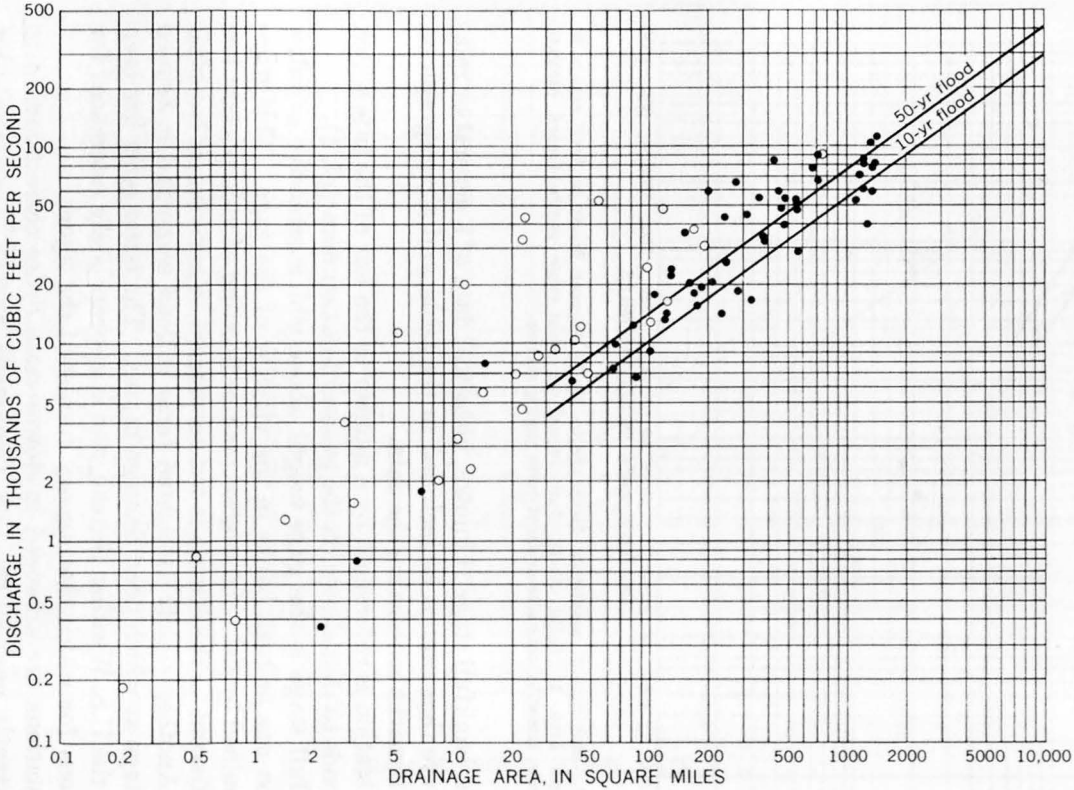

FIGURE 13.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 2. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

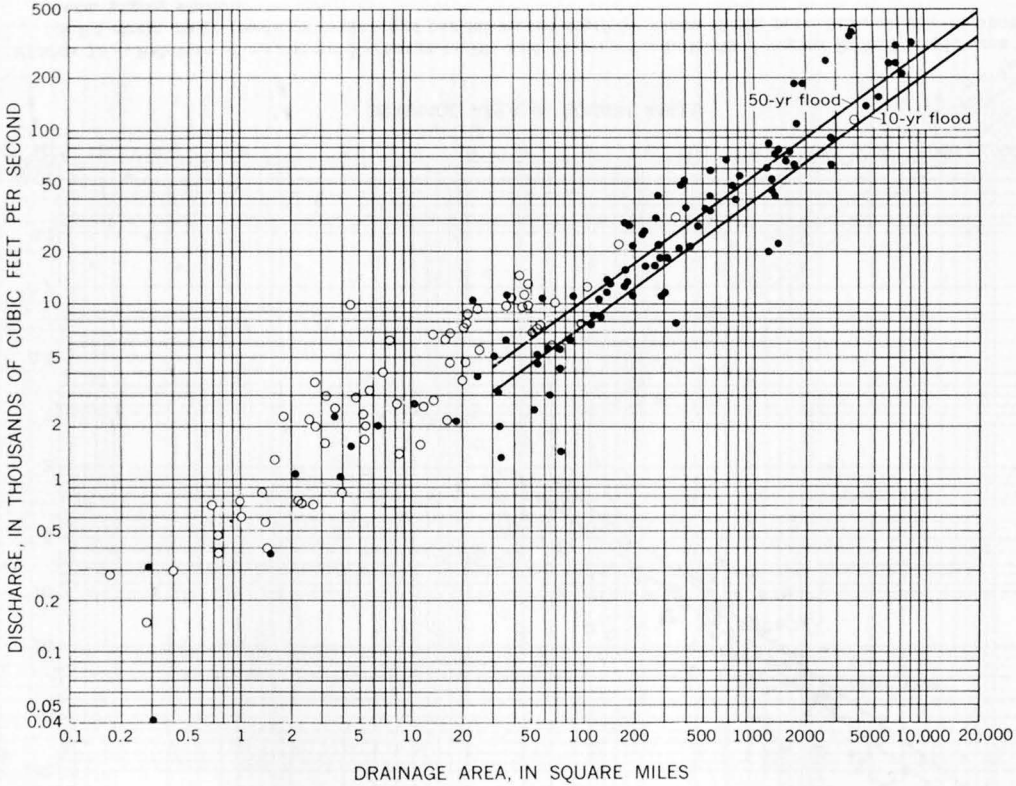

FIGURE 14.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 3. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

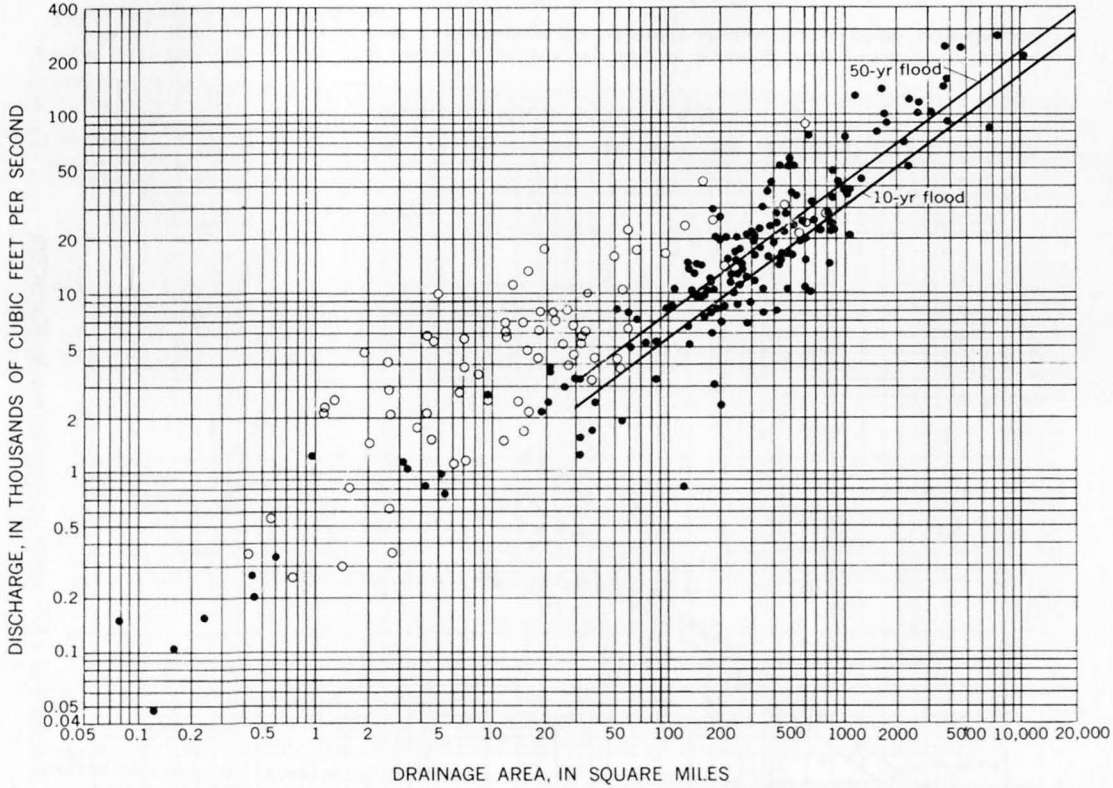

FIGURE 15.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 4. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

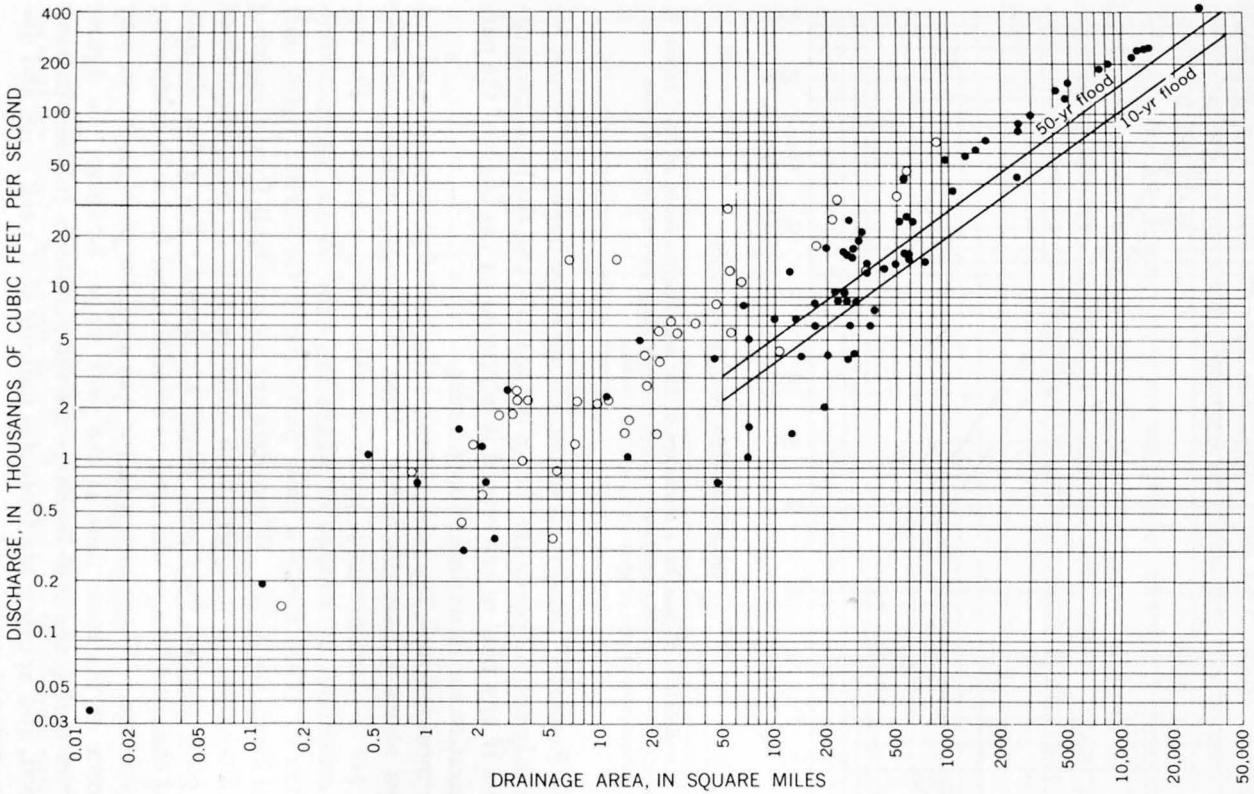

FIGURE 16.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 5. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

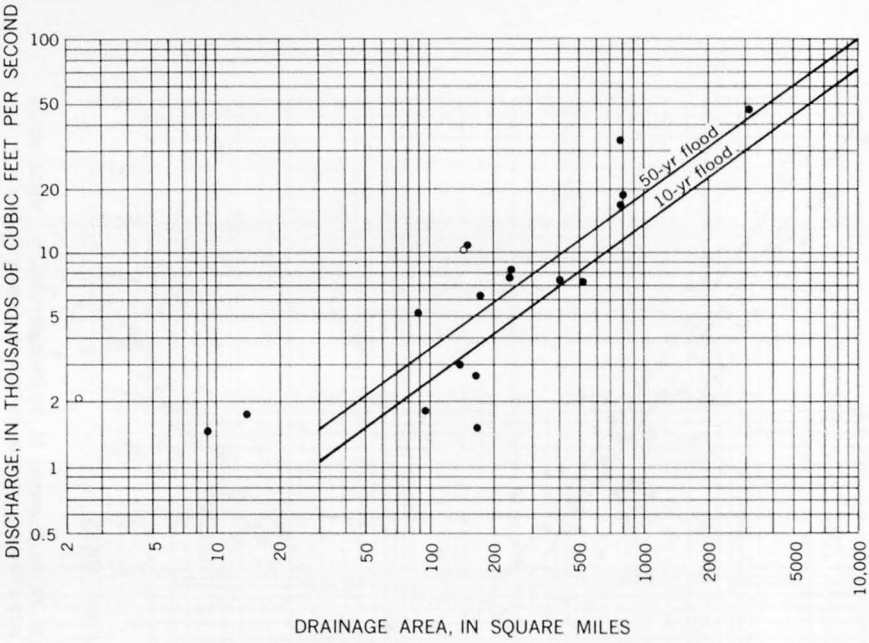

FIGURE 17.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 6. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

The "Remarks" paragraph states, among other items, the period for which only annual peaks are shown in the table, and the base discharge is given if any part of the record is tabulated on the basis of the partial-duration series, or peaks above a base.

For most stations, the table contains the list of peak stages and discharges above a base discharge. Peak discharges unless otherwise noted are the instantaneous peaks in cubic feet per second. For stations controlled by storage or where the data do not warrant computation of peaks above a base, particularly for earlier years, only annual floods are listed. Where data are not available for determining peak discharges, principally with older records or records obtained from other sources, only peak stages are shown. For a few stations, rate of change of stage was used as an additional factor in computing the discharge. Where such a factor was used, the peak discharge may not occur at the same time as the peak stage; however, the figures listed for both stage and discharge are the maximum for that particular flood, and appropriate footnotes indicate that peak stage and discharge were not concurrent.

No distinction is made between annual peaks and peaks for partial-duration series. If the tabulation is used for partial-duration studies, annual peaks below the base discharge must be deleted. A footnote marks years having incomplete records which may not be used in the partial-duration series.

The peaks are arranged by the water year, October 1 through September 30, designated by the calendar year in which it ends. Dates on which the peaks occurred are calendar-year dates. Thus, a peak which occurred on Nov. 15, 1941, would be listed in the 1942 water year.

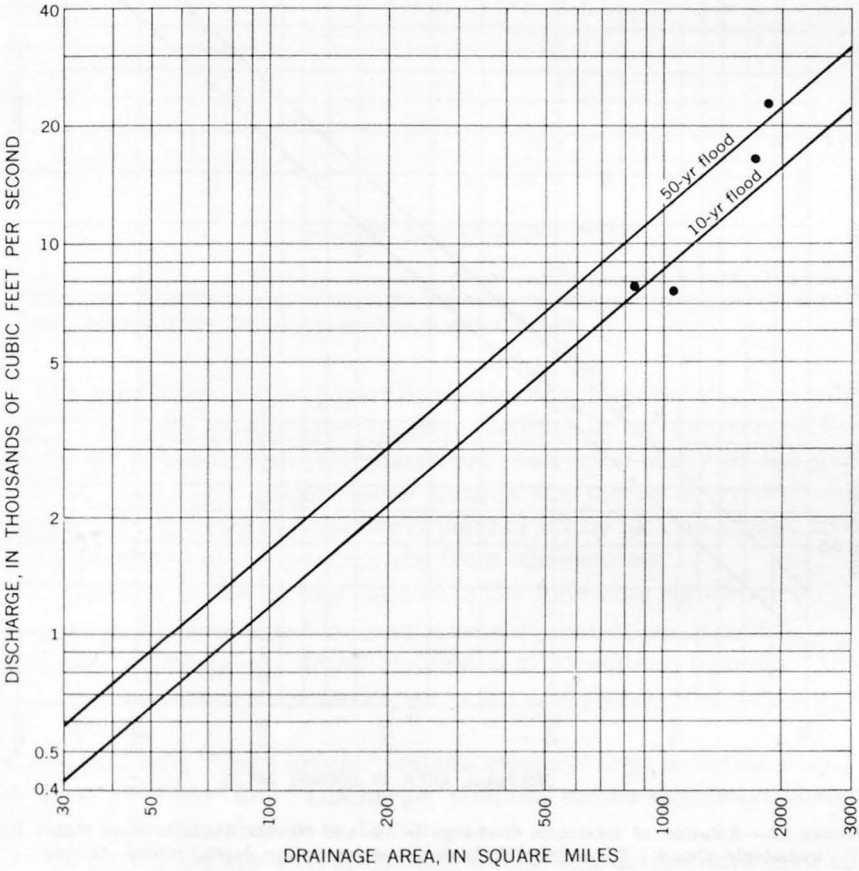

FIGURE 18.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 7. Solid circle, daily-record or crest-stage partial-record station.

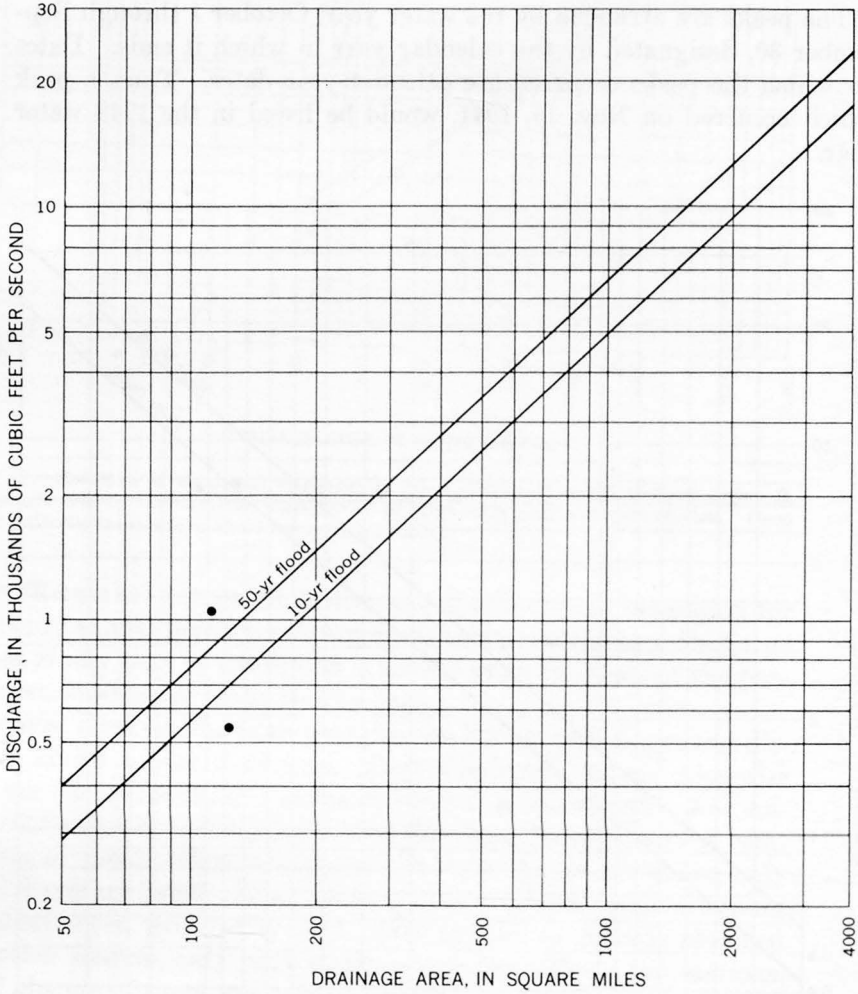

FIGURE 19.—Relation of maximum discharge to 10- and 50-year floods in flood region B, hydrologic area 8. Solid circle, daily-record or crest-stage partial-record station.

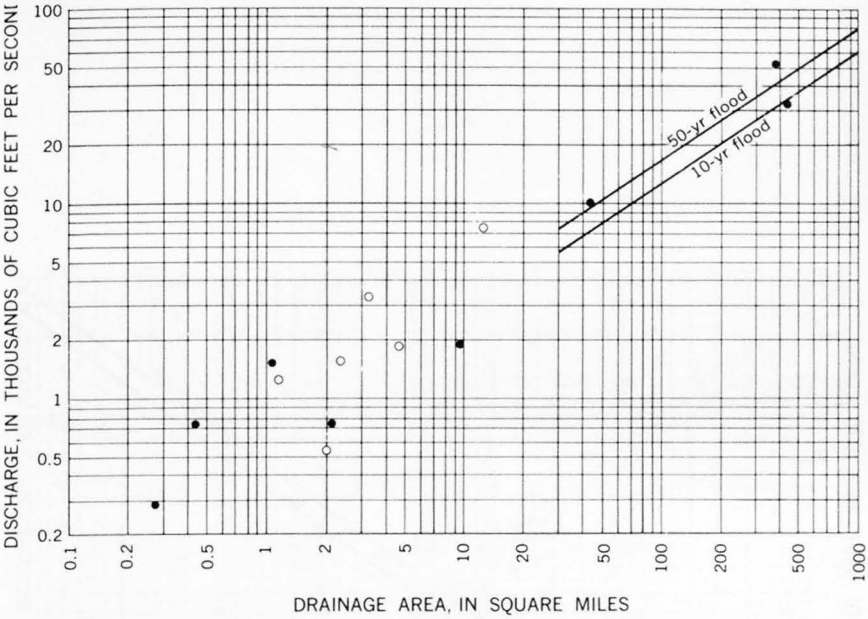

FIGURE 20.—Relation of maximum discharge to 10- and 50-year floods in flood region C, hydrologic area 1. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

The gage heights were generally obtained from water-stage recorder graphs or from graphs based on gage readings by an observer. A few of the gage heights are the maximum observed. Many of the gage heights shown for major floods outside the period of record were obtained by leveling to floodmarks pointed out by local residents, from flood profiles by other agencies, and from other sources.

Underlines in the tabular data have the following significance:

1. Line in "Water year" column means discontinuous record.
2. Line beginning at "Date" column and extending through "Discharge" column means change in site and datum with continuous record.
3. Line in only "Gage height" column means change in datum only.
4. Line in "Date" and "Discharge" columns means significant change in site but no change in datum.
5. No underlines are used if changes in site and datum have been adjusted to present conditions.

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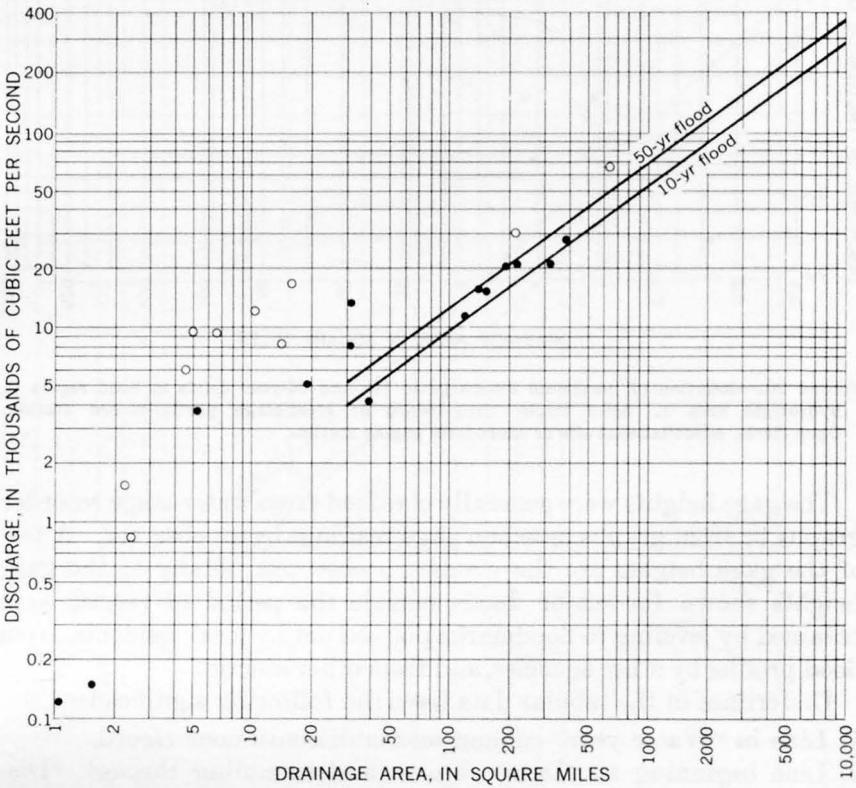

FIGURE 21.—Relation of maximum discharge to 10- and 50-year floods in flood region C, hydrologic area 2. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

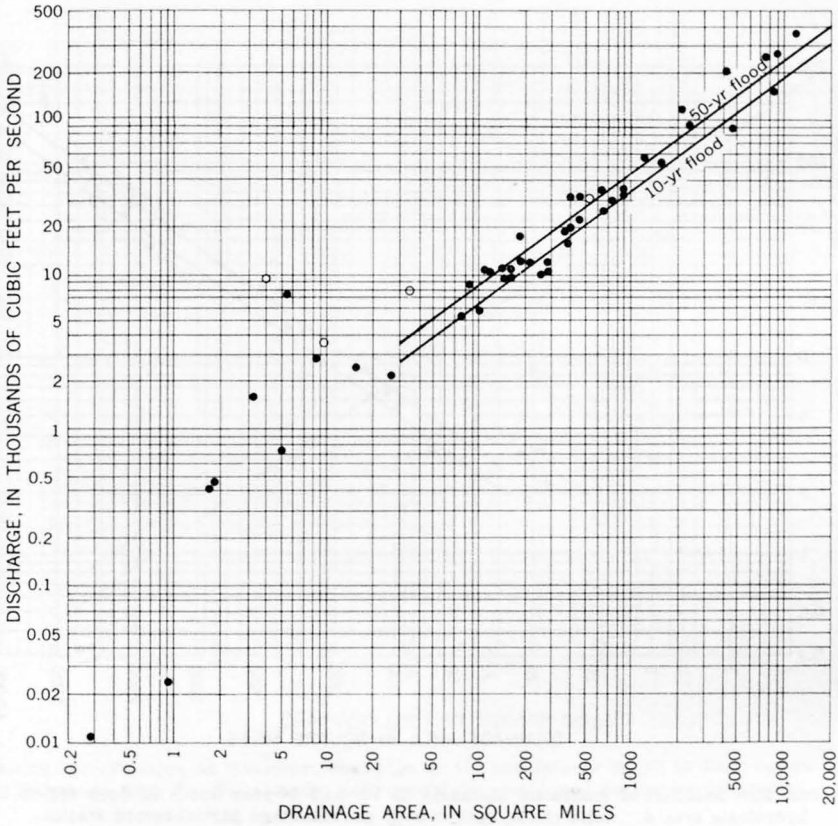

FIGURE 22.—Relation of maximum discharge to 10- and 50-year floods in flood region C, hydrologic area 3. Solid circle, daily-record or crest-stage partial-record station. Open circle, miscellaneous site or short-term gaging station.

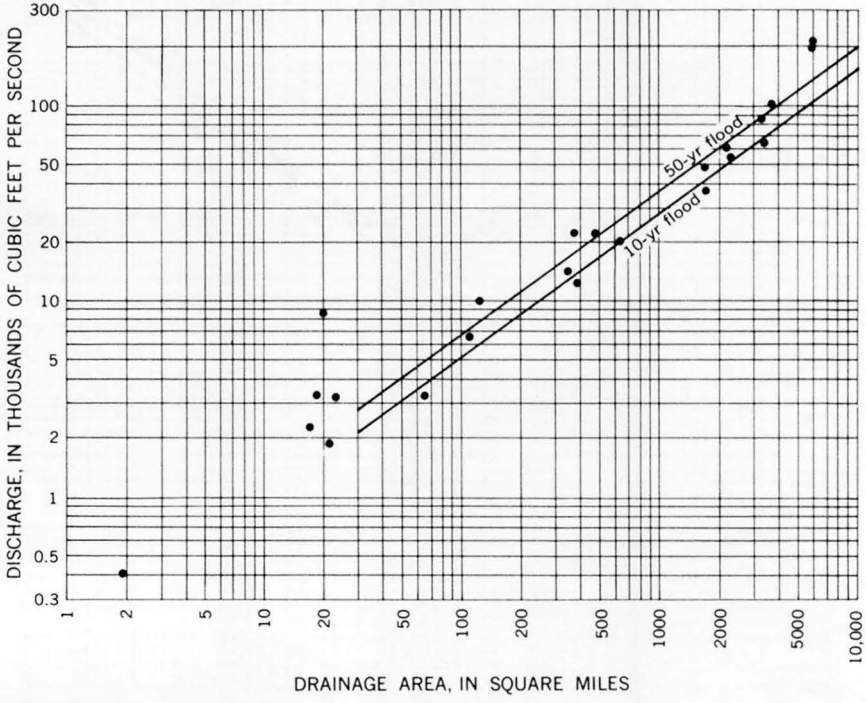

FIGURE 23.—Relation of maximum discharge to 10- and 50-year floods in flood region C, hydrologic area 4. Solid circle, daily-record or crest-stage partial-record station.

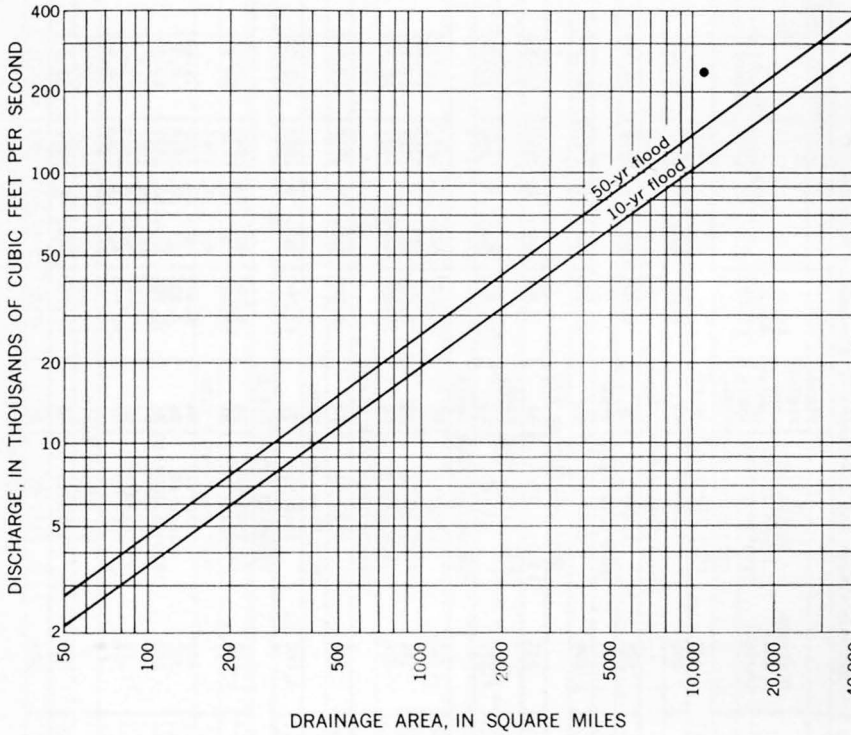

FIGURE 24.—Relation of maximum discharge to 10- and 50-year floods in flood region C, hydrologic area 5. Solid circle, daily-record or crest-stage partial-record station.

Table 1.--Maximum stages and discharges of streams in Part 3-A

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydrologic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Ohio River main stem									
105	Allegheny River at Eldred, Pa.....	550	1916-61	A5	8,100	July 19, 1942	27.6	55,000	100	a 2.18
	Great Valley Creek basin									
110	Great Valley Creek near Salamanca, N.Y..	142	1951-61	B4	4,500	Mar. 7, 1956	10.66	9,680	68.2	34
	Ohio River main stem									
115	Allegheny River at Red House, N.Y.....	1,690	1904-61	C4	27,000	Mar. 8, 1956	15.11	49,100	29.1	28
	Kinzua Creek basin									
120	Kinzua Creek at Dewdrop, Pa.....	171	1910-11,1913-16	B4	5,100	Jan. 8, 1913	9.0	6,020	35.2	3.3
	Ohio River main stem									
125	Allegheny River near Kinzua, Pa.....	2,179	1936-61	C4	32,300	Mar. 8, 1956	19.95	60,500	27.8	34
	Conewango Creek basin									
130	Conewango Creek at Waterboro, N.Y.....	290	1939-61	B5	5,100	Apr. 7, 1947	-	8,600	29.7	11
						Mar. 8, 1956	11.58	-	-	-
145	Chadakoin River at Falconer, N.Y.....	194	1935-61	B5	3,800	Apr. 5, 1947	4.56	2,050	10.6	-
150	Conewango Creek at Russell, Pa.....	816	1936,1940-61	B4	15,900	March 1936	10.9	14,600	17.9	-
	Brokenstraw Creek basin									
155	Brokenstraw Creek at Youngsville, Pa....	321	1910-61	B4	8,100	Mar. 25, 1913	12.2	18,000	56.1	40
	Ohio River main stem									
160	Allegheny River at West Hickory, Pa.....	3,660	1942-61	C4	47,200	Mar. 8, 1956	17.20	101,000	27.6	a 1.08
	Tionesta Creek basin									
165	Tionesta Creek at Sheffield, Pa.....	128	1942-46	B4	4,150	May 28, 1946	9.7	5,310	41.5	4.2
170	South Branch Tionesta Creek at Barnes, Pa.	85.3	1942-46	B4	3,080	Dec. 30, 1942	10.6	-	-	-
						May 28, 1946	-	3,300	38.7	2.6
175	Tionesta Creek at Lynch, Pa.....	233	1938-61	B4	6,420	Jan. 22, 1959	11.25	15,000	64.4	a 1.01
180	Tionesta Creek at Mayburg, Pa.....	307	1942-46	B4	7,820	May 28, 1946	8.55	11,600	37.8	6.5
190	Tionesta Creek at Nebraska, Pa.....	469	1910-11,1924-40	B4	10,600	Sept.30, 1924	12.70	-	-	-
						Jan. 25, 1937	-	16,400	35.0	7.7
200	Tionesta Creek at Tionesta Creek Dam, Pa.	479	1941-61	B4	-	June 6, 1946	-	10,300	21.5	-
						Jan. 22, 1959	b 9.90	-	-	-
	Oil Creek basin									
205	Oil Creek at Rouseville, Pa.....	300	1910-61	B4	7,700	Jan. 22, 1959	11.97	21,000	70.0	a 1.18

			French Creek basin							
215	French Creek at Carters Corners, Pa.....	208	1911-61	B4	5,950	Feb. 20, 1918	b 17.0	-	-	-
						Apr. 5, 1947	13.50	20,000	96.2	a 1.46
220	French Creek at Venango, Pa.....	597	1939-46	B4	12,700	Dec. 30, 1942	13.0	15,200	25.5	3.4
225	French Creek at Saegerstown, Pa.....	629	1922-39	B4	13,100	Jan. 20, 1929	15.90	20,800	33.1	8.5
230	Cussewago Creek near Meadville, Pa.....	90.2	1911-38	B6	1,420	Mar. 25, 1913	16.0	5,250	58.2	a 1.60
235	French Creek at Carlton, Pa.....	998	1909-25	B4	18,400	Mar. 27, 1913	16.5	38,000	38.1	28
240	French Creek at Utica, Pa.....	1,028	1913,1933-61	B4	19,000	March 1913	15.7	35,600	34.6	17
245	Sugar Creek at Wyattville, Pa.....	153	1911-16	B4	4,750	Mar. 25, 1913	9.4	10,000	65.4	31
250	Sugar Creek at Sugarcreek, Pa.....	166	1933-61	B4	5,000	May 28, 1946	-	10,000	60.2	23
						Oct. 16, 1954	9.20	-	-	-
			Ohio River main stem							
255	Allegheny River at Franklin, Pa.....	5,982	1865,1915-61	C4	67,600	Mar. 17, 1865	25.0	196,000	32.8	a 1.46
			Clarion River basin							
265	Sevenmile Run near Rasselas, Pa.....	7.84	1952-61	A3	-	Aug. 9, 1953	4.78	1,590	203	-
275	East Branch Clarion River at East Branch Clarion River Dam, Pa.	73.2	1949-61	A3	-	May 10, 1957	7.25	2,590	35.4	-
280	West Branch Clarion River at Wilcox, Pa.	63.0	1954-61	A3	3,300	Mar. 8, 1956	8.59	4,050	64.3	3.5
285	Clarion River at Johnsonburg, Pa.....	204	1946-61	A3	-	May 28, 1946	-	11,700	57.4	-
			1942,1946-61			July 1942	16.7	-	-	-
290	Clarion River at Ridgeway, Pa.....	303	1941-53	A3	10,200	July 19, 1942	16.4	34,000	112	a 1.07
295	Clarion River at Cooksburg, Pa.....	807	1936-61	B3	20,800	Mar. 17, 1936	19	56,000	69.4	a 1.17
305	Clarion River near Piney, Pa.....	951	1936,1948-61	B3	23,300	Mar. 18, 1936	-	50,000	52.6	34
310	Clarion River at St. Petersburg, Pa.....	1,246	1942-53	B3	28,500	Dec. 30, 1942	16.45	44,400	35.6	7.9
			Ohio River main stem							
315	Allegheny River at Parkers Landing, Pa..	7,671	1865-1961	C3	106,000	Mar. 17, 1865	-	250,000	32.6	a 1.19
			Redbank Creek basin							
325	Redbank Creek at St. Charles, Pa.....	528	1910-61	B4	11,600	Mar. 18, 1936	18.60	35,200	66.7	a 1.31
			Ohio River main stem							
330	Allegheny River near Rimer, Pa.....	8,389	1939-45	C3	112,000	Dec. 30, 1942	22.54	160,000	19.1	8.0
			Mahoning Creek basin							
340	Mahoning Creek at Punxsutawney, Pa.....	158	1939-61	B4	4,800	July 15, 1958	10.89	7,370	46.6	7.5
345	Little Mahoning Creek at McCormick, Pa..	87.4	1940-61	B4	3,120	Jan. 27, 1952	-	5,300	60.6	11
						Aug. 3, 1961	12.71	-	-	-
350	Mahoning Creek near Dayton, Pa.....	321	1917-40	B4	8,100	Mar. 18, 1936	14.53	22,800	71.0	a 1.22
360	Mahoning Creek at Mahoning Creek Dam, Pa.	344	1939-61	B4	-	Mar. 8, 1942	8.10	10,400	30.2	-
			Ohio River main stem							
365	Allegheny River at Kittanning, Pa.....	8,973	1806,1832,1865, 1874,1881, 1883-1928, 1935-61	C3	118,000	Mar. 26, 1913	30.7	269,000	30.0	a 1.15

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydrologic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Crooked Creek basin									
375	South Branch Plum Creek at Willet, Pa...	30.0	1942-46	B4	1,450	Dec. 30, 1942	8.7	1,250	41.7	-
380	Crooked Creek at Idaho, Pa.....	191	1936-61	B4	5,580	March 1936	18.6	19,400	102	a 1.50
390	Crooked Creek at Crooked Creek Dam, Pa..	278	1910-61	B4	7,300	Mar. 18, 1936	17.86	21,000	75.5	a 1.24
	Kiskiminetas River basin									
400	Stony Creek at Ferndale, Pa.....	451	1914-36,1939-61	B2	18,800	Mar. 18, 1936	30.26	59,000	131	a 1.36
410	Little Conemaugh River at East Conemaugh, Pa.	183	1936-61	B3	7,170	Manl7,18,1936	-	28,800	157	a 1.73
415	Conemaugh River at Seward, Pa.....	715	1936-61	B2	26,100	Mar. 18, 1936	26.4	90,000	126	a 1.49
420	Blacklick Creek at Josephine, Pa.....	192	1952-61	B3	7,400	Oct. 15, 1954	11.35	11,900	62.0	9.0
425	Two Lick Creek at Graceton, Pa.....	171	1952-61	B3	6,800	Oct. 16, 1954	12.71	12,900	75.4	18
430	Blacklick Creek at Blacklick, Pa.....	390	1905-51	B3	12,200	Mar. 18, 1936	15.88	51,700	133	a 1.83
440	Conemaugh River at Tunnelton, Pa.....	1,358	1940-61	B2	41,500	Mar. 7, 1945	21.0	59,200	43.6	5.8
450	Loyalhanna Creek at Kingston, Pa.....	172	1940-61	B3	6,840	Oct. 15, 1954	14.8	29,700	173	a 1.88
455	Loyalhanna Creek at New Alexandria, Pa..	265	1911,1920-40	B3	9,300	Mar. 18, 1936	20.96	31,000	117	a 1.44
470	Loyalhanna Creek at Loyalhanna Creek Dam, Pa.	292	1940-61	B3	-	June 5, 1941	10.30	11,700	40.1	-
475	Kiskiminetas River at Avonmore, Pa.....	1,723	1884-95,1902-37	B3	36,100	Mar. 18, 1936	47.2	185,000	107	a 2.22
485	Kiskiminetas River at Vandergrift, Pa...	1,825	1936-61	B3	37,500	Mar. 18, 1936	41.64	185,000	101	a 2.14
	Buffalo Creek basin									
490	Buffalo Creek near Freeport, Pa.....	137	1941-61	B3	5,760	Oct. 15, 1954	13.60	14,000	120	a 1.05
	Ohio River main stem									
495	Allegheny River at Natrona, Pa.....	11,410	1936-61	C3	141,000	Mar. 18, 1936	32.06	365,000	32.0	a 1.31
	Monongahela River basin									
500	Tygart Valley River near Dailey, W. Va..	187	1916-61	C3	7,260	Feb. 4, 1932	17.2	13,100	70.1	27
505	Tygart Valley River near Elkins, W. Va..	272	1945-61	C3	9,500	Oct. 16, 1954	14.45	10,700	39.3	3.2
510	Tygart Valley River at Belington, W. Va.	408	1888-1961	C3	12,700	July 1888	21.7	21,200	52.0	18
515	Middle Fork River at Midvale, W. Va.....	122	1916-42	C3	5,320	Feb. 3, 1939	18.5	11,400	93.4	a1.08
520	Middle Fork River at Audra, W. Va.....	149	1942-61	C3	6,170	Oct. 16, 1954	13.02	9,780	65.6	13
525	Sand Run near Buckhannon, W. Va.....	14.5	1947-61	C3	-	Oct. 15, 1954	6.26	2,580	178	-
535	Buckhannon River at Hall, W. Va.....	277	1907-9,1915-61	C3	9,610	Mar. 14, 1918, Oct. 29, 1937	14.7	12,200	44.0	4.8
545	Tygart Valley River at Philippi, W. Va..	916	1912-61	C3	22,800	July 25, 1912	26	37,000	40.4	15
560	Tygart Valley River at Tygart Dam, near Grafton, W. Va.	1,184	1939-61	B3	-	Feb. 2, 1939	-	20,000	16.9	-
565	Tygart Valley River at Petterman, W. Va.	1,304	1908-39	B3	29,500	July 25, 1912	29.1	74,300	57.0	a1.09
570	Tygart Valley River at Colfax, W. Va....	1,366	1939-61	B3	-	Feb. 14, 1948	16.95	22,500	16.5	-
575	Skin Creek near Brownsville, W. Va.....	25.7	1946-60	C3	-	June 25, 1950	8.64	-	-	-
						Feb. 10, 1957	-	2,280	88.7	-

580	West Fork River at Brownsville, W. Va...	102	1947-61	C3	4,650	June 25, 1950	17.20	6,420	62.9	6.9
585	West Fork River at Butcherville, W. Va..	181	1916-61	C3	7,100	June 25, 1950	c16.81	18,000	99.4	a1.28
590	West Fork River at Clarksburg, W. Va....	384	1923-61	C3	12,100	June 25, 1950	-	16,900	44.0	7.3
						July 24, 1958	13.25	-	-	-
595	Elk Creek at Quiet Dell, W. Va.....	84.6	1944-61	B3	4,090	Feb. 14, 1948	15.46	6,550	77.4	8.8
599	Salem Fork above Jacobs Run, W. Va.....	1.67	1955-61	C3	-	Aug. 22, 1955	4.91	430	257	-
600	Salem Fork subwatershed No. 11A (Varner Hollow Run) near Salem, W. Va.	.29	1955-61	C3	-	Aug. 6, 1956	13.95	11	37.9	-
600.3	Jacobs Run at Salem, W. Va.....	1.78	1955-61	C3	-	Aug. 5, 1956	4.77	460	258	-
600.6	Salem Fork above Patterson Fork at Salem, W. Va.	4.79	1955-61	C3	-	Aug. 22, 1955	6.33	740	154	-
601	Salem Fork subwatershed No. 9 (West Branch Patterson Fork) near Salem, W. Va.	.92	1956-61	C3	-	Dec. 14, 1956	19.80	25.8	28.0	-
602	Patterson Fork at Salem, W. Va.....	3.06	1955-61	C3	-	Aug. 22, 1955	5.40	1,650	539	-
605	Salem Fork at Salem, W. Va.....	8.32	1950-61	C3	-	June 25, 1950	13.6	2,900	349	-
610	West Fork River at Enterprise, W. Va....	759	1907-18,1933-61	C3	20,000	Feb. 14, 1948	25.56	31,400	41.4	13
			1888,1907-18, 1933-61			1888	33	-	-	-
615	Buffalo Creek at Barrackville, W. Va....	115	1908,1912, 1916-24,1933-61	C3	5,100	July 1912	18	11,600	101	a 1.15
620	Monongahela River at lock 15, at Hoult, W. Va.	2,388	1915-30,1939-61	C3	45,500	Jan. 2, 1919	21.2	91,500	38.3	a 1.02
			1888,1915-30, 1939-61			1888	26	-	-	-
625	Deckers Creek at Morgantown, W. Va.....	63.2	1946-61	B3	3,300	Aug. 5, 1956	10.12	5,680	89.9	12
630	Monongahela River at lock 8, at Point Marion, Pa.	2,720	1929-55	B3	50,100	Mar. 18, 1936	22.33	90,400	33.2	14
650	Dry Fork at Hendricks, W. Va.....	345	1941-61	A3	11,200	Oct. 15, 1954	15.23	47,000	136	a 1.34
660	Blackwater River at Davis, W. Va.....	86.2	1921-61	A4	3,110	Mar. 29, 1924	13.20	7,170	83.2	21
675	Shavers Fork at Cheat Bridge, W. Va.....	57.5	1896,1922-26	B3	3,080	July 22, 1896	14	11,000	191	a 1.55
685	Shavers Fork at Flint, W. Va.....	124	1925-32	B3	5,400	June 20, 1928	-	8,800	71.0	9.4
						Feb. 4, 1932	9.54	-	-	-
690	Shavers Fork at Parsons, W. Va.....	214	1888,1907, 1911-26,1941-61	B3	8,000	July 10, 1888, July 17, 1907	d 12.5	25,000	117	a 1.35
695	Cheat River near Parsons, W. Va.....	718	1888-1961	B1	31,800	Oct. 15, 1954	19.08	52,100	72.6	9.5
700	Cheat River at Rowlesburg, W. Va.....	972	1844,1888, 1911-22,1924-61	B1	39,000	July 6, 1844	16.7	89,000	91.6	47
705	Big Sandy Creek at Rockville, W. Va.....	200	1888-1961	A3	7,600	July 10, 1888	20.0 to 20.5	e 29,000	145	a 1.22
710	Cheat River near Pisgah, W. Va.....	1,354	1928-58	A1	48,500	Oct. 16, 1954	30.10	127,000	93.8	30
715	Cheat River near Morgantown, W. Va.....	1,380	1888-1926	A1	49,000	July 10, 1888	18.7	f 160,000	116	a 1.05
720	Dunkard Creek at Shannopin, Pa.....	229	1941-61	B3	8,400	June 4, 1941	14.02	16,800	73.4	23
725	Monongahela River at Greensboro, Pa.....	4,407	1936,1939-61	B3	71,000	Oct. 16, 1954	28.93	140,000	31.8	22
			1888-1961			July 1888	36	-	-	-
730	South Fork Tenmile Creek at Jefferson, Pa.	180	1932-61	B3	7,100	June 4, 1941	18.45	13,800	76.7	20
740	Dunlap Creek at Allison, Pa.....	33.1	1943-51	B3	2,070	Sept.22, 1950	6.17	1,300	39.3	-
745	Redstone Creek at Waltersburg, Pa.....	73.7	1943-61	B3	3,690	Oct. 15, 1954	11.83	4,400	59.7	3.4
750	Monongahela River at Charleroi, Pa.....	5,213	1888,1934-61	B3	80,000	July 11, 1888	26.1	156,000	29.9	20

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydrologic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Monongahela River basin--Continued									
755	Youghiogheny River near Oakland, Md.....	134	1942-61	A4	4,300	Oct. 16, 1954	12.16	11,800	88.1	34
			1936,1942-61			March 1936	15.3	-	-	-
765	Youghiogheny River at Friendsville, Md..	295	1899-1905,	A4	7,600	Mar. 29, 1924	14.2	15,600	52.9	15
			1923-31,1940-61							
775	Youghiogheny River at Youghiogheny River Dam, Pa.	436	1940-61	A4	-	June 4, 1941	b 15.94	-	-	-
						Mar. 5, 1948	-	13,700	31.4	-
780	Casselman River at Grantsville, Md.....	62.5	1948-61	A4	2,450	Oct. 15, 1954	10.70	8,400	134	a 1.10
785	Big Piney Run near Salisbury, Pa.....	24.5	1933-61	A4	-	Feb. 22, 1944	b 8.87	-	-	-
						Oct. 15, 1954	-	6,850	280	-
790	Casselman River at Markleton, Pa.....	382	1915-61	B3	12,100	Mar. 17, 1936	16.4	-	-	-
						Oct. 15, 1954	-	50,000	131	a 1.79
800	Laurel Hill Creek at Ursina, Pa.....	121	1914-61	B3	5,300	Oct. 15, 1954	10.63	10,900	90.1	27
810	Youghiogheny River below Confluence, Pa.	1,029	1941-61	A3	25,000	Oct. 15, 1954	19.92	69,500	67.5	36
815	Youghiogheny River at Ohiopyle, Pa.....	1,062	1928-50	A3	25,200	Mar. 18, 1936	13.30	82,100	77.3	a 1.04
825	Youghiogheny River at Connellsville, Pa.	1,326	1860,1888,	A3	30,000	Oct. 16, 1954	21.96	103,000	77.7	a 1.10
			1891-99,1901-61							
830	Green Lick Run at Green Lick Reservoir, Pa.	3.07	1929-61	A3	-	Aug. 13, 1943	-	1,400	456	-
						May 24, 1944	b 5.42	-	-	-
835	Youghiogheny River at Sutersville, Pa...	1,715	1921-61	B3	36,000	Oct. 16, 1954	32.5	108,000	63.0	a 1.30
840	Abers Creek near Murrysville, Pa.....	4.39	1949-61	B3	-	July 5, 1950	c 7.72	1,600	364	-
845	Turtle Creek at Trafford, Pa.....	55.9	1917-52	B3	3,020	May 27, 1946	10.05	5,200	93.0	12
850	Monongahela River at Braddock, Pa.....	7,337	1936,1939-61	B3	102,000	Mar. 18, 1936	38.8	210,000	28.6	27
	Chartiers Creek basin									
855	Chartiers Creek at Carnegie, Pa.....	257	1916-33,1936, 1941-61	B4	6,880	Aug. 6, 1956	16.37	13,500	52.5	21
	Ohio River main stem									
860	Ohio River at Sewickley, Pa.....	19,500	1934-61	-	-	Mar. 18, 1936	34.75	574,000	29.4	-
	Beaver River basin									
865	Mahoning River at Alliance, Ohio.....	87.9	1942-61	A4	3,170	Jan. 21, 1959	9.11	9,740	111	47
870	Beech Creek near Bolton, Ohio.....	18.8	1943-54,1959	B4	-	June 24, 1950	8.27	2,210	118	-
880	Deer Creek at Limaville, Ohio.....	31.9	1942-55	B4	1,500	Jan. 26, 1952	-	1,530	48.0	2.4
			1942-55,1959			Jan.21,22,1959	14.0	-	-	-
885	Mahoning River near Deerfield, Ohio.....	175	1924-31	B4	5,200	June 29, 1924	-	11,400	65.1	38
			1913,1924-31	B4		March 1913	19.0	-	-	-
895	Mill Creek near Berlin Center, Ohio.....	19.7	1942-61	A4	-	May 27, 1946	6.92	1,900	96.4	-
905	Mahoning River below Berlin Dam, near Berlin Center, Ohio.	249	1931-61	B4	6,740	Feb. 26, 1936	b12.5	-	-	-
						Jan. 25, 1937	-	8,630	34.7	4.2
915	Mahoning River at Pricetown, Ohio.....	276	1930-61	B4	7,250	Jan. 25, 1937	15.01	6,770	24.5	-
920	Kale Creek near Pricetown, Ohio.....	20.9	1941-61	B4	-	Jan. 21, 1959	8.52	3,890	186	-

921	Hinkley Creek near Charlestown, Ohio....	10.8	1947-61	B5	-	June 26, 1959	15.69	2,400	222	-
925	West Branch Mahoning River near Newton Falls, Ohio.	97.8	1926-61	B4	3,400	Jan. 22, 1959	13.60	8,340	85.3	a 1.06
926	Ordnance Creek near Newton Falls, Ohio..	.16	1950-61	B4	-	May 12, 1956	6.98	103	644	-
930	Eagle Creek at Phalanx Station, Ohio....	97.0	1927-34,1938-61	B5	2,290	Jan. 22, 1959	13.12	6,700	61.3	a 1.27
940	Mahoning River at Leavittsburg, Ohio....	580	1942-61	B4	-	Jan. 22, 1959	19.37	20,300	35.0	-
			1913-61			Mar. 26, 1913	24	-	-	-
945	Mahoning River at Warren, Ohio.....	599	1925-35	B4	-	Feb. 27, 1929	7.20	10,500	17.5	-
949	Walnut Creek at Cortland, Ohio.....	9.12	1947-61	B6	-	Jan. 21, 1959	5.06	1,470	161	-
955	Mosquito Creek below Mosquito Creek Dam, near Cortland, Ohio.	97.4	1927-29,1944-61	B6	-	Jan. 19, 1929	11.5	1,890	19.4	-
960	Mosquito Creek at Niles, Ohio.....	139	1930-51,1959	B6	1,960	Dec. 30, 1942	5.16	3,080	22.2	8.1
975	Meander Creek at Mineral Ridge, Ohio....	84.9	1930-51	A4	-	May 28, 1946	12.1	5,500	64.8	-
980	Mahoning River at Youngstown, Ohio.....	899	1910-11,1913-16, 1922-61	B4	17,000	Mar. 26, 1913	26.5	42,500	47.3	a 1.08
985	Mill Creek at Youngstown, Ohio.....	68.4	1913-61	A4	2,610	March 1913	-	g7,140	104	34
995	Mahoning River at Lowellville, Ohio.....	1,076	1943-61	B4	-	Jan. 21, 1959	14.43	21,000	19.5	-
			1913-61	B4		March 1913	17.8	-	-	-
1000	Shenango River near Turnerville, Pa.....	152	1912-22	B6	2,090	Mar. 26, 1913	16.4	11,000	72.4	a 2.28
1010	Sugar Run at Pymatuning Dam, Pa.....	9.34	1935-55	B4	-	Sept. 4, 1937	6.8	2,800	300	-
1015	Shenango River at Pymatuning Dam, Pa....	167	1935-61	B6	-	Sept. 4, 1937	9.2	1,540	9.2	-
1020	Shenango River near Jamestown, Pa.....	181	1920-34	B4	5,340	Mar. 13, 1920	-	3,040	16.8	-
			1913-26	B4		Mar.26,27,1913	14.2	-	-	-
1025	Little Shenango River at Greenville, Pa.	104	1914-18,1920-23, 1926-61	B4	3,600	Jan. 22, 1959	14.30	8,540	82.1	a 1.02
1029	Clear Creek at Dilworth, Ohio.....	.91	1947-61	B5	-	July 14, 1958	11.55	749	823	-
1030	Pymatuning Creek near Orangeville, Pa...	169	1914-61	B5	3,450	Feb. 3, 1915	-	6,200	36.7	14
						Jan. 22, 1959	b13.32	-	-	-
			1913-61			Mar. 26, 1913	b16.0	-	-	-
1035	Shenango River at Sharpsville, Pa.....	588	1939-61	B5	8,500	Jan. 22, 1959	15.97	15,700	26.7	16
			1913-61			Mar. 26, 1913	19.3	-	-	-
1040	Shenango River at Sharon, Pa.....	608	1910-38	B5	8,700	Mar. 26, 1913	18.1	25,200	41.4	a 1.25
1045	Shenango River at New Castle, Pa.....	792	1913-34	B6	6,900	Mar. 26, 1913	17.82	33,000	41.7	a 2.07
1050	Neshannock Creek at Eastbrook, Pa.....	228	1919-46	B4	6,300	May 28, 1946	-	10,000	43.9	8.5
1055	Beaver River at Wampum, Pa.....	2,235	1915-18,1933-61	B4	-	May 28, 1946	-	50,100	22.4	-
						Jan. 22, 1959	b 24.86	-	-	-
			1913-61			Mar. 26, 1913	29.9	-	-	-
1060	Connoquenessing Creek at Hazen, Pa.....	356	1916-61	B4	8,700	June 29, 1924	16.66	23,000	64.6	a 1.14
1065	Slippery Rock Creek at Wurtemburg, Pa...	398	1912-61	B4	9,500	Jan. 25, 1937	12.05	19,000	47.7	23
1075	Beaver River at Beaver Falls, Pa.....	3,106	1913-61	B4	42,000	Mar. 27, 1913	17.4	103,000	33.2	a 1.06
			Raccoon Creek basin							
1080	Raccoon Creek at Moffatts Mill, Pa.....	178	1916-32,1942-61	B4	5,300	Apr. 15, 1922	9.8	10,000	56.2	18
			Ohio River main stem							
1085	Ohio River at Montgomery Island Dam, Pa.	22,960	1942-51	-	-	Dec. 31, 1942	46.8	438,000	19.1	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Little Beaver Creek basin									
1090	Lisbon Creek at Lisbon, Ohio.....	6.08	1947-61	A4	-	June 25, 1950	8.83	-	-	-
						July 31, 1958	-	1,500	247	-
1095	Little Beaver Creek near East Liverpool, Ohio.	505	1916-61	B4	11,200	July 19, 1941	17.4	25,000	49.5	42
	Yellow Creek basin									
1100	Yellow Creek near Hammondsville, Ohio...	148	1941-61	B4	4,600	Jan. 27, 1952	12.17	9,580	64.7	29
1105	Yellow Creek at Hammondsville, Ohio.....	169	1916-35	B4	5,100	June 17, 1920	13.2	7,710	45.6	7.0
	Short Creek basin									
1115	Short Creek near Dillonvale, Ohio.....	124	1942-61	B4	4,100	Mar. 6, 1945	8.77	6,500	52.4	8.5
	Wheeling Creek basin									
1120	Wheeling Creek at Elm Grove, W. Va.....	282	1941-61	B3	9,740	Dec. 30, 1942	13.67	22,100	78.4	46
	Ohio River main stem									
1125	Ohio River at Wheeling, W. Va.....	24,800	1884,1905-7, 1936-37	-	-	Mar. 19, 1936	55.5	466,000	18.8	-
1135	Ohio River at Bellaire, Ohio.....	25,170	1939-58	-	-	Dec. 31, 1942	48.99	412,000	16.4	-
	Captina Creek basin									
1140	Captina Creek at Armstrongs Mills, Ohio.	135	1927-35,1959-61	B4	4,300	Aug. 7, 1935	13.40	10,500	77.8	a 1.06
	Middle Island Creek basin									
1145	Middle Island Creek at Little, W. Va....	458	1916-22,1926-61	C3	13,800	June 26, 1950	28.0	25,000	54.6	28
			1875-1961			August 1875	33.5	-	-	-
	Ohio River main stem									
1150	Ohio River at St. Marys, W. Va.....	26,850	1938-61	-	-	Jan. 1, 1943	46.67	421,000	15.7	-
			1884-1961			March 1913	54.2	-	-	-
	Little Muskingum River basin									
1155	Little Muskingum River at Fay, Ohio.....	259	1916-35	B3	9,200	Aug. 7, 1935	26.70	16,800	64.9	15
	Duck Creek basin									
1156	Barnes Run near Summerfield, Ohio.....	3.53	1947-61	B3	-	-	14.54	2,350	666	-
	Muskingum River basin									
1160	Tuscarawas River at Clinton, Ohio.....	165	1927-61	B6	2,210	Aug. 8, 1935	-	2,700	16.4	3.6
						Jan. 22, 1959	15.50	-	-	-
			1913,1927-61			March 1913	22.2	-	-	-

1161	Little Chippewa Creek near Smithville, Ohio.	13.9	1947-61	B6	-	Jan. 21, 1959	14.30	1,800	129	-
1170	Tuscarawas River at Massillon, Ohio.....	526	1938-61	B6	5,150	Jan. 22, 1959	13.46	7,220	13.7	5.4
1175	Sandy Creek at Waynesburg, Ohio.....	254	1939-61	A5	4,620	Jan. 22, 1959	10.05	15,000	59.1	a1.04
1180	Middle Branch Nimishillen Creek at Canton, Ohio.	44.2	1942-61	A6	850	Jan. 22, 1959	6.50	2,470	55.9	41
1185	Nimishillen Creek at North Industry, Ohio.	175	1922-61	A5	3,510	Jan. 21, 1959	11.29	8,600	49.1	25
1190	Sandy Creek at Sandyville, Ohio.....	481	1924-47	B5	7,360	Jan. 25, 1937	-	14,200	29.5	20
						June 10, 1947	25.11	-	-	-
1196	Jefferson Creek near Jewett, Ohio.....	2.48	1947-61	B5	-	Aug. 16, 1952	14.85	367	148	-
1197	Conotton Creek at Jewett, Ohio.....	14.1	1947-61	B5	-	-	16.30	1,060	75.2	-
1205	McGuire Creek below Leesville Dam, near Leesville, Ohio.	47.9	1939-61	B5	-	Mar. 4, 1940	b7.88	740	15.4	-
1215	Indian Fork below Atwood Dam, near New Cumberland, Ohio.	70.3	1939-61	B5	-	Apr. 7, 1945	-	1,610	22.9	-
						June 11, 1947	b19.0	-	-	-
1225	Tuscarawas River below Dover Dam, near Dover, Ohio.	1,398	1913,1924-61	B5	16,000	March 1913	23.5	62,000	44.3	a1.68
1240	Sugar Creek below Beach City Dam, near Beach City, Ohio.	300	1932-33,1935-61	B5	5,200	Aug. 7, 1935	12.70	19,700	65.7	a1.64
1250	Home Creek near New Philadelphia, Ohio..	1.64	1937-61	B5	-	Sept. 4, 1961	4.45	299	182	-
1257	West Branch Spencer Creek at Hendrysburg, Ohio.	2.18	1950-61	B5	-	July 5, 1950	13.37	740	339	-
1260	Stillwater Creek at Piedmont, Ohio.....	122	1939-61	B5	-	Mar. 7, 1945	11.23	-	-	-
						Dec. 4, 1950	-	1,470	12.0	-
1270	Stillwater Creek at Tippecanoe, Ohio....	281	1939-61	B5	-	Mar. 7, 1945	17.26	4,410	15.7	-
1275	Stillwater Creek at Uhrichsville, Ohio..	367	1923-61	B5	6,020	Aug. 8, 1935	h12.8	7,650	20.8	4.0
			1913,1923-61			March 1913	h15.5	-	-	-
1285	Little Stillwater Creek below Tappan Dam, at Tappan, Ohio.	71.0	1939-61	B5	-	Mar. 13, 1939	-	1,050	14.8	-
						Apr. 7, 1945	10.12	-	-	-
1290	Tuscarawas River at Newcomerstown, Ohio.	2,436	1913,1922-61	B5	24,000	March 1913	i21.5	83,000	34.1	a1.50
1290.12	White Eyes Creek tributary (Coshocton Experiment Station No. 192, ARS) near Coshocton, Ohio.	.0119	1940-58	B5	-	June 16, 1946	-	35.2	2,960	-
1290.14	White Eyes Creek tributary (Coshocton Experiment Station No. 196, ARS) near Coshocton, Ohio.	.473	1937-58	B5	-	June 12, 1957	-	1,136	2,400	-
1290.16	White Eyes Creek tributary (Coshocton Experiment Station No. 183, ARS) near Coshocton, Ohio.	.116	1938-55,1957-58	B5	-	June 16, 1946	-	193	1,660	-
1293	Whetstone Creek tributary near Olivesburg, Ohio.	.236	1950-61	B4	-	July 26, 1956	5.71	155	657	-
1300	Black Fork below Charles Mill Dam, near Mifflin, Ohio.	218	1913-61	B4	-	March 1913	-	j11,700	53.7	19
1305	Touby Run at Mansfield, Ohio.....	5.17	1947-61	B4	-	June 6, 1947	4.17	965	187	-
1310	Rocky Fork near Mansfield, Ohio.....	38.3	1926-32	B4	1,710	Feb. 26, 1929	12.9	2,470	64.5	6.0
1315	Black Fork at Loudonville, Ohio.....	342	1932-61	B4	-	Jan. 22, 1959	13.65	7,780	22.7	-
			1913-61			March 1913	20.5	-	-	-
1320	Clear Fork at Butler, Ohio.....	143	1945-61	B4	4,500	Jan. 21, 1959	9.43	14,300	100	a1.38

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Muskingum River basin--Continued									
1335	Clear Fork below Pleasant Hill Dam, near Perrysville, Ohio.	199	1939-61	B4	-	Jan. 23, 1959	4.98	2,340	11.8	-
1340	Jerome Fork at Jeromeville, Ohio.....	120	1926-49,1959 1913-59	B5	2,680	Jan. 22, 1959 March 1913	13.9 15.1	13,000 -	108 -	a2.10 -
1350	Lake Fork below Mohicanville Dam, near Mohicanville, Ohio.	269	1939-61	B5	-	Mar. 13, 1939 Jan. 21, 1959	- b9.86	3,920 -	14.6 -	- -
1355	Lake Fork near Loudonville, Ohio.....	342	1935-39 1913,1932, 1935-39	B5	-	Aug. 7, 1935 1913	14.00 26.0	6,030 -	17.6 -	- -
1360	Mohican River at Greer, Ohio.....	942	1913-61	B5	12,000	March 1913	27.0	f 55,000	58.4	a1.98
1365	Kokosing River at Mount Vernon, Ohio....	200	1953-61	A4	5,750	Jan. 21, 1959	18.19	38,000	190	a2.12
1370	Kokosing River at Millwood, Ohio.....	454	1913,1922-61	A4	10,200	Jan. 21, 1959	34.00	75,900	167	a2.38
1385	Walhonding River below Mohawk Dam, at Nellie, Ohio.	1,502	1913-61	B4	24,900	March 1913	k21.6	80,000	53.3	a1.39
1390	Killbuck Creek at Killbuck, Ohio.....	466	1931-61	A6	4,700	Aug. 7, 1935	21.77	28,800	61.8	a1.96
1395	Killbuck Creek at Layland, Ohio.....	507	1924-30 1913-30	A6	5,020	Feb. 27, 1929 March 1913	16.2 22.6	3,520 -	6.9 -	- -
1399.3	Little Mill Creek tributary (Coshocton Experiment Station No. 5, ARS) near Coshocton, Ohio.	.545	1937-61	A5	-	June 28, 1957	-	382	701	-
1399.4	Little Mill Creek (Coshocton Experiment Station No. 92, ARS) near Coshocton, Ohio.	1.44	1937-61	A5	-	June 28, 1957	-	578	401	-
1399.6	Little Mill Creek (Coshocton Experiment Station No. 94, ARS) near Coshocton, Ohio.	2.38	1937-61	A5	-	June 28, 1957	-	1,404	590	-
1399.7	Little Mill Creek tributary (Coshocton Experiment Station No. 10, ARS) near Coshocton, Ohio.	.191	1938-61	A5	-	June 28, 1957	-	216	1,130	-
1399.8	Little Mill Creek (Coshocton Experiment Station No. 95, ARS) near Coshocton, Ohio.	4.02	1937-61	A5	-	June 28, 1957	-	1,590	396	-
1399.9	Little Mill Creek (Coshocton Experiment Station No. 97, ARS) near Coshocton, Ohio.	7.16	1935,1937-61	A5	-	Aug. 7, 1935	-	9,020	1,260	-
1400	Mill Creek near Coshocton, Ohio.....	27.5	1937-61	A5	-	June 28, 1957	12.73	7,650	278	-
1400.1	Spoon Creek tributary (Coshocton Experiment Station No. 177, ARS) near Coshocton, Ohio.	.118	1940-61	A5	-	June 12, 1957	-	240	2,030	-
1400.2	Spoon Creek tributary (Coshocton Experiment Station No. 172, ARS) near Coshocton, Ohio.	.068	1939-61	A5	-	June 12, 1957	-	116	1,710	-

1400.3	Spoon Creek tributary (Coshocton Experiment Station No. 169, ARS) near Coshocton, Ohio.	.0453	1940-61	A5	-	June 12, 1957	-	75.8	1,670	-
1405	Muskingum River near Coshocton, Ohio....	4,847	1913-61	A4	58,000	March 1913	-	202,000	41.7	al.12
1415	Seneca Fork below Senecaville Dam, near Senecaville, Ohio.	121	1939-61	B4	-	Feb. 1, 1949	10.35	-	-	-
						Jan. 26, 1959	-	796	6.6	-
1420	Wills Creek at Cambridge, Ohio.....	406	1927-28,1938-61	B4	-	Mar. 7, 1945	21.32	7,860	19.4	-
			1927-28,1935, 1938-61			Aug. 8, 1935	25.4	-	-	-
1422	Salt Fork near Cambridge, Ohio.....	55.6	1956-61	B4	2,260	Jan. 22, 1959	11.2	1,960	35.3	-
1425	Wills Creek at Birds Run, Ohio.....	730	1913-39	B4	14,700	March 1913	28.8	m 22,300	30.5	7.2
1435	Wills Creek below Wills Creek Dam, at Wills Creek, Ohio.	845	1931-61	B4	16,300	March 1931	-	22,300	26.4	5.0
1440	Wakatomika Creek near Frazeysburg, Ohio.	140	1937-61	A4	4,450	Jan. 22, 1959	13.15	13,700	97.9	48
1445	Muskingum River at Dresden, Ohio.....	5,982	1913-61	A4	67,800	March 1913	46.0	j 228,000	38.1	al.08
1450	South Fork Licking River near Hebron, Ohio.	133	1940-48,1959	A4	-	Jan. 21, 1959	12.4	5,880	44.2	-
1455	Raccoon Creek at Granville, Ohio.....	83.0	1940-48,1959	A4	3,020	Jan. 21, 1959	16.6	8,700	105	40
1456	Otter Fork near Centerburg, Ohio.....	2.97	1947-61	A4	-	Jan. 21, 1959	13.52	445	150	-
1460	North Fork Licking River at Utica, Ohio.	114	1940-48,1956, 1959	A4	3,840	Jan. 21, 1959	15.8	-	-	-
1465	Licking River near Newark, Ohio.....	536	1940-61	A4	11,700	Jan. 21, 1959	20.30	45,000	84.0	al.23
1470	Licking River at Toboso, Ohio.....	672	1903-6,1913, 1922-61	A4	13,800	Jan. 22, 1959	21.08	49,800	74.1	al.16
1475	Licking River at Dillon, Ohio.....	754	1940-61	A4	15,000	Jan. 22, 1959	32.46	47,000	62.3	50
			1913-61			March 1913	b 37.0	-	-	-
1479	Timber Run near Zanesville, Ohio.....	10.6	1947-61	A4	-	June 30, 1952	9.57	-	-	-
						Aug. 2, 1961	-	2,070	195	-
1480	Muskingum River at Zanesville, Ohio.....	6,844	1940-55,1961	B4	-	Jan. 27, 1952	29.6	80,900	11.8	-
			1832,1860,1884, 1889-94, 1896-1922, 1924-30,1932-61			Mar. 27, 1913	n 51.8	-	-	-
1495	Salt Creek near Chandlersville, Ohio....	75.6	1935-47	B4	2,800	Apr. 19, 1940	15.06	5,240	69.3	17
1500	Muskingum River at McConnelsville, Ohio.	7,411	1913-61	B4	79,500	Mar. 27, 1913	33.5	j 270,000	36.4	al.47
1501	Bell Creek at McConnelsville, Ohio.....	.97	1947-48,1950-61	B4	-	June 21, 1953	7.84	1,190	1,230	-
			Ohio River main stem							
1510	Ohio River at Parkersburg, W. Va.....	35,600	1913-61	-	-	Mar. 29, 1913	58.9	593,000	16.7	-
			Little Kanawha River basin							
1515	Little Kanawha River near Burnsville, W. Va.	155	1918,1938-61	C3	6,300	March 1918	19.7	9,800	63.2	12
1520	Little Kanawha River at Glenville, W. Va.	386	1911-61	C3	12,200	Apr. 16, 1939	-	20,400	52.8	18
						Nov. 16, 1926	33.6	-	-	-
1525	Leading Creek near Glenville, W. Va.....	144	1938-51	C3	6,020	June 25, 1950	28.63	12,100	84.0	a1.02
1530	Steer Creek near Grantsville, W. Va.....	166	1938-61	C3	6,650	Apr. 16, 1939	28.15	12,400	74.7	33
1535	Little Kanawha River at Grantsville, W. Va.	913	1929-61	C3	22,800	Apr. 17, 1939	43.10	34,300	37.6	10
1540	West Fork Little Kanawha River at Rocksdale, W. Va.	205	1929-31,1938-61	B2	10,500	Apr. 16, 1939	30.3	20,200	98.5	19
1541	Little Kanawha River at Creston, W. Va..	1,263	1911-61	C3	28,700	Apr. 17, 1939	33.2	-	-	-
1545	Reedy Creek near Reedy, W. Va.....	79.4	1952-61	C3	3,900	Feb. 10, 1957	14.7	5,730	72.2	9.0

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
1550	Little Kanawha River at Palestine, W. Va.	1,515	1897,1915-22, 1939-61	C3	32,900	Apr. 17, 1939	-	53,000	35.0	15
						Feb. 2, 1951	34.22	-	-	-
1552	South Fork Hughes River at Macfarlan, W. Va.	210	1916,1938-52	C3	7,900	June 25, 1950	29.3	12,100	57.6	11
1555	Hughes River at Cisko, W. Va.....	452	1916-20,1929-31, 1939-61	C3	13,700	June 26, 1950	32.69	31,700	70.1	a1.17
	Hocking River basin									
1560	Hunters Run at Lancaster, Ohio.....	9.63	1948-61	A4	-	July 21, 1948	15.4	11,200	1,160	-
1564	Hocking River at Lancaster, Ohio.....	49.8	1956-61	A4	2,080	May 8, 1961	13.70	2,440	49.0	3.1
1565	Hocking River near Lancaster, Ohio.....	92.8	1924-32	A4	3,280	Mar. 29, 1924	10.2	2,050	22.1	-
1570	Clear Creek near Rockbridge, Ohio.....	87.7	1940-61	A4	3,160	July 22, 1948	17.68	16,000	182	a1.62
1575	Hocking River at Enterprise, Ohio.....	460	1907-61	A5	7,100	March 1907	22.0	j 36,000	78.3	a1.62
1580	Clear Fork near Logan, Ohio.....	14.8	1942-49	A5	-	Aug. 8, 1947	11.1	4,440	300	-
1590	Sunday Creek at Glouster, Ohio.....	104	1948,1952-61 1907-61	A5	2,410	Apr. 12, 1948	o 16.5	5,300	51.0	18
						March 1907	o 22.0	-	-	-
1595	Hocking River at Athens, Ohio.....	944	1873-1961	A5	12,000	March 1907	26.7	j 50,000	53.0	a1.34
	Ohio River main stem									
1600	Ohio River at Pomeroy, Ohio.....	40,500	1913-61	-	-	Mar. 30, 1913	70.1	633,000	15.6	-
	Kanawha River basin									
1606.1	Old Field Creek near West Jefferson, N.C.	2.38	1955-61	A4	-	May 26, 1960	21.77	247	104	-
1610	South Fork New River near Jefferson, N.C.	207	1916-61	A4	5,880	Aug. 14, 1940	22.50	52,800	255	a2.88
1615	South Fork New River near Crumpler, N.C.	325	1909-16	A4	8,200	July 15, 1916	21.3	46,000	142	a1.80
1621.1	Buffalo Creek at Warrensville, N.C.....	22.9	1955-61	A4	-	Aug. 14, 1955	15.23	1,970	86.0	-
1625	North Fork New River at Crumpler, N.C...	277	1878-1959	A4	7,250	Aug. 14, 1940	23.0	73,000	264	a3.23
1628	Mill Creek near Troutdale, Va.....	5.32	1951,1953-57, 1959-60	A4	-	July 2, 1960	3.66	-	-	-
1628.8	Little River tributary near Sparta, N.C.	3.53	1955-61	A4	-	Aug. 17, 1961	20.9	930	263	-
1640	New River near Galax, Va.....	1,131	1930-61	A4	20,300	Aug. 14, 1940	25.7	141,000	125	a2.23
1650	Chestnut Creek at Galax, Va.....	39	1940,1945-61	A4	1,750	Aug. 14, 1940	17.4	11,000	282	a2.01
1655	New River at Ivanhoe, Va.....	1,340	1840-1961	A4	23,000	Aug. 14, 1940	38.1	155,000	116	a2.16
1660	Cripple Creek near Ivanhoe, Va.....	148	1930-34	A4	4,600	Oct. 2, 1929	-	4,000	27.0	-
1670	Reed Creek at Grahams Forge, Va.....	247	1909-16,1927-61	B4	6,680	July 16, 1916	11.4	17,500	70.8	a1.14
1675	Big Reed Island Creek near Allisonia, Va.	278	1909-16,1939-61	A4	7,300	July 16, 1916	b 14.8	-	-	-
						Sept. 30, 1959	12.54	14,500	52.2	14
1680	New River at Allisonia, Va.....	2,202	1930-61	A4	32,800	Aug. 14, 1940	23.42	185,000	84.0	a1.81
1685	Peak Creek at Pulaski, Va.....	60.9	1927-33,1952-61	B4	2,410	Oct. 2, 1929	10.8	-	-	-
						Mar. 1, 1954	-	4,830	79.3	24
1686	Peak Creek tributary near Pulaski, Va...	.61	1949,1952-61	B4	-	August 1949	9.71	340	557	-
1695	Little River near Copper Valley, Va.....	239	1900,1909-16, 1940	A4	6,550	Aug. 14, 1940	-	14,000	58.6	17

1700	Little River at Graysonton, Va.....	300	1929-61	A4	7,700	Aug. 14, 1940	16.44	-	-	-
						Sept.30, 1959	-	18,500	61.7	23
1710	New River at Radford, Va.....	2,748	1878,1896-1961	A4	38,400	Sept.15, 1878	37.4	-	-	-
						Aug. 14, 1940	-	218,000	79.3	a1.82
1715	New River at Eggleston, Va.....	2,941	1878,1915-61	A4	40,500	Aug. 14, 1940	41.16	219,000	74.5	a1.73
1725	Walker Creek at Staffordsville, Va.....	277	1909-16	B4	7,250	Mar. 27, 1913	15.8	12,100	43.7	10
1730	Walker Creek at Bane, Va.....	305	1938-61	B4	7,800	Jan. 30, 1957	16.50	16,500	54.1	31
			1878-1961			September 1878	23.5	-	-	-
1755	Wolf Creek near Narrows, Va.....	223	1909-16,1938-61	B4	6,250	Jan. 29, 1957	13.8	12,900	57.8	27
1765	New River at Glenlyn, Va.....	3,768	1878,1914-61	B4	48,500	Sept.13, 1878	p 33.1	240,000	63.7	a2.14
1770	Rich Creek near Peterstown, W. Va.....	50.6	1942-51	A4	2,110	Aug. 3, 1948	6.75	2,660	52.6	3.8
1775	Indian Creek at Indian Mills, W. Va.....	189	1942-51	A4	5,540	Feb. 14, 1948	9.68	5,080	26.9	-
1780	Bluestone River near Spanishburg, W. Va.	199	1945-52	B4	5,730	Jan. 8, 1946	18.36	6,920	34.8	3.5
1785	Camp Creek near Camp Creek, W. Va.....	32.0	1947-61	B4	1,510	Jan. 29, 1957	6.35	3,410	107	45
1790	Bluestone River near Pipestem, W. Va....	363	1908-61	B4	8,900	Jan. 29, 1957	14.49	16,100	44.4	15
1795	Bluestone River at Lilly, W. Va.....	438	1909-16,1930-48	B4	10,100	Mar. 25, 1935,	11.0	16,600	37.9	10
						Feb. 14, 1948				
1800	New River at Bluestone Dam, W. Va.....	4,604	1901,1924-61	B4	56,000	Apr. 21, 1901,	24.2	234,000	50.8	a1.81
						May 23, 1901				
			1901,1924-61			Jan. 21, 1947	q 29.2	-	-	-
1805	Greenbrier River at Durbin, W. Va.....	134	1944-61	B4	4,300	Oct. 15, 1954	8.38	9,900	73.9	50
1815	Greenbrier River at Marlinton, W. Va....	408	1909-16	B3	12,700	Mar. 27, 1913	14.20	21,700	53.2	11
1820	Knapp Creek at Marlinton, W. Va.....	108	1946-58	B3	4,870	July 15, 1954	13.86	7,710	71.4	8.4
1825	Greenbrier River at Buckeye, W. Va.....	540	1930-61	B3	15,600	Feb. 5, 1932	17.5	41,500	76.9	a1.15
1830	Second Creek near Second Creek, W. Va...	80.8	1946-61	A4	2,980	Mar. 31, 1958	-	6,100	75.5	15
			1913-61			Mar. 6, 1955	7.75	-	-	-
1835	Greenbrier River at Alderson, W. Va.....	1,357	1896-1961	B3	30,200	Mar. 14, 1918	22.0	77,500	57.1	a1.11
1840	Greenbrier River at Hilldale, W. Va.....	1,625	1936-61	B3	34,600	Mar. 18, 1936	21.85	o 60,800	37.4	13
1845	New River at Hinton, W. Va.....	6,257	1937-61	B3	91,500	Aug. 15, 1940	18.97	246,000	39.3	a1.16
1850	Piney Creek at Raleigh, W. Va.....	52.2	1952-61	B3	2,880	Jan. 29, 1957	5.78	2,500	47.9	-
1855	New River at Caperton, W. Va.....	6,826	1929-58	B3	97,400	Aug. 15, 1940	36.0	244,000	35.7	a1.09
1860	New River at Fayette, W. Va.....	6,850	1878-1916	B3	97,500	Mar. 28, 1878	53	310,000	45.3	a1.38
1865	Williams River at Dyer, W. Va.....	128	1930-61	B2	7,530	July 4, 1932	18.45	22,000	172	a1.26
1870	Gauley River at Camden on Gauley, W. Va.	236	1882-1961	B2	11,700	July 4, 1932	27.38	42,500	180	a1.57
1875	Cranberry River near Richwood, W. Va....	81.2	1945-52,1954	B2	5,400	July 19, 1954	12.22	-	-	-
1885	Cherry River at Richwood, W. Va.....	85.0	1909-16	B2	5,600	Oct. 1, 1915	8.97	6,600	77.6	3.3
1890	Cherry River at Fenwick, W. Va.....	150	1930-61	B2	8,450	July 19, 1954	19.8	37,000	247	a1.90
1895	Gauley River near Summersville, W. Va...	680	1909-16,1929-61	B2	25,200	July 4, 1932	28.75	77,700	114	a1.33
1900	Meadow River at Nallen, W. Va.....	287	1909-16,1929-61	B3	9,850	Mar. 5, 1934	15.64	11,200	39.0	3.0
1910	Gauley River near Leander, W. Va.....	1,230	1926-30	B2	39,000	Oct. 2, 1929	25.0	62,000	50.4	8.5
1915	Peters Creek near Lockwood, W. Va.....	40.9	1946-61	B2	3,280	Aug. 2, 1958	14.43	6,500	159	23
						Aug. 30, 1959	-	6,500	159	23
1920	Gauley River above Belva, W. Va.....	1,315	1929-61	B2	41,000	July 5, 1932	28.60	105,000	79.8	a1.11
			1918,1929-61			Mar. 13, 1918	30	-	-	-
1925	Gauley River at Belva, W. Va.....	1,402	1909-16,1918, 1926-30	B2	42,600	Mar. 13, 1918	34	112,000	79.9	a1.14
1930	Kanawha River at Kanawha Falls, W. Va...	8,367	1877-1961	B3	112,000	Sept.14, 1878	37.8	320,000	38.2	a1.24
1940	Elk River at Webster Springs, W. Va.....	168	1909-16	B2	9,200	Jan. 29, 1911	11.00	17,300	103	17
1945	Elk River below Back Fork at Webster Springs, W. Va.	242	1896-1934	B2	11,900	July 4, 1932	12.98	26,000	107	37

See footnotes at end of table.

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Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Kanawha River basin--Continued									
1950	Elk River at Centralia, W. Va.....	281	1935-61	B2	13,300	Feb. 3, 1939	-	18,300	65.1	5.2
						May 8,9, 1961	b 18.66	-	-	-
1955	Elk River at Sutton, W. Va.....	543	1918-61	B2	21,300	Mar. 13, 1918	37.2	49,000	90.2	50
1960	Elk River at Gassaway, W. Va.....	578	1909-16,1918-20	B2	22,300	Jan. 30, 1911	30.4	28,700	49.7	4.2
			1909-20			Mar. 13, 1918	44	-	-	-
1968	Elk River at Clay, W. Va.....	994	1916-61	B2	33,300	Mar. 14, 1918	32.4	-	-	-
1970	Elk River at Queen Shoals, W. Va.....	1,145	1929-61	B2	37,000	July 5, 1932	29.2	72,000	62.9	20
			1913,1929-61			Mar. 13, 1918	37.2	-	-	-
1975	Elk River at Clendenin, W. Va.....	1,290	1909-16	B2	40,000	Jan. 30, 1911	24.0	40,400	31.3	2.4
			1888-1916			1888 or 1889	32	-	-	-
1980	Kanawha River at Charleston, W. Va.....	10,419	1905-61	B4	101,000	Aug. 15, 1940	-	216,000	20.7	34
						Mar. 6, 1955	39.72	-	-	-
			1861-1961			Sept.29, 1861	r 46.9	-	-	-
1985	Big Coal River at Ashford, W. Va.....	393	1909-16,1931-61	B3	12,400	Aug. 9, 1916	c 35.66	35,800	91.1	al.25
1990	Little Coal River at Danville, W. Va....	270	1931-61	B3	9,450	Feb. 3, 1939	c 30.2	42,800	159	al.96
2000	Big Coal River at Fuqua, W. Va.....	849	1912-16	B4	16,400	Aug. 9, 1916	36.6	47,300	55.7	al.25
2005	Big Coal River at Tornado, W. Va.....	857	1909-11,1929-31	B4	16,600	Nov. 18, 1929	16.30	33,500	39.1	25
2010	Pocatalico River at Sissonville, W. Va..	238	1909-16,1931,	B4	6,540	June 27, 1910	-	17,000	71.4	al.13
			1938-61			Apr. 16, 1939	34.4	-	-	-
	Ohio River main stem									
2015	Ohio River at Point Pleasant, W. Va.....	52,760	1940-61	-	-	Jan. 1, 1943	-	522,000	9.9	-
						Apr. 16, 1948	55.00	-	-	-
	Raccoon Creek basin									
2020	Raccoon Creek at Adamsville, Ohio.....	587	1916-61	B5	8,500	January 1937	25.2	p 16,000	27.3	17
	Guyandotte River basin									
2030	Guyandotte River at Man, W. Va.....	762	1929-61	B3	20,000	Mar. 3, 1934	-	40,000	52.5	24
						Jan. 29, 1957	22.25	-	-	-
2036	Guyandotte River at Logan, W. Va.....	837	1922,1924-61	B3	21,200	Jan. 29, 1957	28.2	-	-	-
2040	Guyandotte River at Branchland, W. Va...	1,226	1907-61	B4	21,500	1907	44	43,500	35.5	25
2045	Mud River near Milton, W. Va.....	256	1938-61	B4	6,860	Feb. 3, 1939	29.35	14,500	56.6	31
	Symmes Creek basin									
2055	Symmes Creek at Getaway, Ohio.....	333	1939-47	B5	5,630	Apr. 17, 1939	22.2	14,400	43.2	a 1.11
			1937-47			Jan. 27, 1937	b 22.7	-	-	-
	Ohio River main stem									
2060	Ohio River at Huntington, W. Va.....	55,900	1884,1907,1913,	D-MS	438,000	Jan. 27, 1937	69.45	-	-	-
			1935-61			Jan. 28, 1937	-	654,000	11.7	28
	Fourpole Creek basin									
2065	Fourpole Creek at Huntington, W. Va.....	20.9	1941-48	B4	-	June 2, 1946	11.83	3,770	180	-

			Twelvepole Creek basin							
2070	Twelvepole Creek at Wayne, W. Va.....	291	1916-61	B4	7,550	Feb. 4, 1939	s 31.03	22,000	75.6	a 1.26
			Big Sandy River basin							
2074	Prater Creek at Vansant, Va.....	19.8	1951-61	A2	-	Jan. 29, 1957	9.45	4,550	230	-
2075	Levisa Fork near Grundy, Va.....	235	1929,1942-61	A2	11,600	Jan. 29, 1957	19.06	33,200	141	a 1.24
2080	Levisa Fork at Fishtrap, Ky.....	386	1862-1961	B2	16,700	Jan. 29, 1957	33.9	33,000	85.5	23
2085	Russell Fork at Haysi, Va.....	286	1927-61	A2	13,400	Jan. 29, 1957	23.17	46,600	163	a 1.11
2090	Pound River near Haysi, Va.....	212	1920,1927-61	A2	10,800	Mar. 23, 1929	16.5	30,000	142	36
2093	Russell Fork at Elkhorn City, Ky.....	554	1957-61	B2	21,700	Jan. 29, 1957	24.21	51,200	92.4	a 1.02
2095	Levisa Fork at Pikeville, Ky.....	1,237	1862,1903,1908-61	B2	39,000	Jan. 30, 1957	52.72	85,500	69.1	38
2100	Johns Creek near Meta, Ky.....	55.8	1938-39,1942-61	B3	3,010	Jan. 29, 1957	14.54	4,680	83.9	7.7
2115	Johns Creek near Van Lear, Ky.....	206	1918,1935, 1938-61	B4	5,850	Feb. 4, 1939	-	8,500	41.3	6.1
			1897,1918,1935, 1938-61			Jan. 30, 1957	27.88	-	-	-
2120	Paint Creek at Staffordsville, Ky.....	103	1925,1939, 1951-61	B2	6,400	July 30, 1961	31.41	17,400	169	a 1.18
2125	Levisa Fork at Paintsville, Ky.....	2,143	1929-61	B4	32,000	Jan. 31, 1957	45.92	69,700	32.5	37
			1862,1918, 1929-61			February 1862	o 46.6	-	-	-
2130	Tug Fork at Litwar, W. Va.....	502	1931-61	B3	14,800	Jan. 29, 1957	21.60	35,700	71.1	a 1.04
2135	Panther Creek near Panther, W. Va.....	30.8	1947-61	A4	1,460	Jan. 29, 1957	9.50	4,900	159	a 1.08
2137	Tug Fork at Williamson, W. Va.....	941	1875,1901,1908, 1913-42,1955-58	B3	-	Jan. 30, 1947	43.7	-	-	-
2140	Tug Fork near Kermit, W. Va.....	1,185	1935-61	B3	27,200	Jan. 30, 1957	43.88	61,300	51.7	44
2145	Tug Fork at Kermit, W. Va.....	1,240	1915-20,1929-34	B3	28,400	Jan. 29, 1918	38.8	51,400	41.5	15
2150	Big Sandy River at Louisa, Ky.....	3,892	1939-61	B4	49,500	Mar. 2, 1955	-	89,400	23.0	15
						May 8, 1958	46.37	-	-	-
			1908,1939-61			Apr. 3, 1908	t 48.4	-	-	-
2155	Blaine Creek at Yatesville, Ky.....	217	1916-20,1938-61	B4	6,050	Feb. 4, 1939	26.55	15,500	71.4	a 1.11
			1915-61			-	c 27.6	-	-	-
			Ohio River main stem							
2160	Ohio River at Ashland, Ky.....	60,750	1884,1907,1913, 1917-61	D-MS	441,000	Jan. 27, 1937	73.6	690,000	11.4	42
			Little Sandy River basin							
2165	Little Sandy River near Grayson, Ky.....	402	1884-1961	B4	9,500	Sept.22, 1950	27.53	24,500	60.9	a 1.12
			Tygarts Creek basin							
2170	Tygarts Creek near Greenup, Ky.....	242	1934,1937,1941-61	B4	6,600	Apr. 13, 1948	20.35	12,800	52.9	20
			Scioto River basin							
2175	Scioto River at La Rue, Ohio.....	255	1927-35,1938-51, 1959	B5	4,620	Jan. 21, 1959	15.30	16,300	63.9	a 1.53
			1913-59			Mar. 26, 1913	17.8	-	-	-
2180	Little Scioto River above Marion, Ohio..	70.0	1939-61	B5	1,800	Jan. 22, 1959	8.73	5,160	73.7	a 1.24
2195	Scioto River near Prospect, Ohio.....	571	1913-61	B5	8,300	Mar. 25, 1913	21.1	u 27,000	47.3	a 1.41
2196	Eagon Run near Warrensburg, Ohio.....	.123	1950-61	B4	-	May 28, 1959	5.29	48	390	-
2200	Mill Creek near Bellepoint, Ohio.....	181	1943-61	B4	5,350	Jan. 21, 1959	13.85	20,300	112	a 1.64
			1913-61			March 1913	18.0	-	-	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Scioto River basin--Continued									
2210	Scioto River below O'Shaughnessy Dam, near Dublin, Ohio.	988	1913-61	B4	18,200	Mar. 25, 1913	24.6	v 74,500	75.4	a1.77
2230	Olentangy River at Claridon, Ohio.....	156	1947-61	A5	3,220	Jan. 22, 1959	16.77	14,900	95.5	a1.48
2235	Whetstone Creek near Shawtown, Ohio.....	61.7	1947-55	A4	2,420	Feb. 14, 1948	8.84	4,920	79.7	14
2240	Shaw Creek at Shawtown, Ohio.....	25.2	1947-55,1959	A4	-	Jan. 21, 1959	8.12	4,120	163	-
2245	Whetstone Creek near Ashley, Ohio.....	98.5	1955-61	A4	3,430	Jan. 21, 1959	14.34	19,100	194	a1.78
2255	Olentangy River near Delaware, Ohio.....	387	1904-35,1938-61	B4	9,220	Mar. 25, 1913	25.5	w 41,600	107	a1.95
2262	Delaware Run near Delaware, Ohio.....	3.33	1947-61	B4	-	Jan. 21, 1959	13.01	1,050	315	-
2265	Olentangy River at Stratford, Ohio.....	438	1935,1939-61	B4	10,100	June 19, 1939	8.77	15,600	35.6	7.5
2268	Olentangy River near Worthington, Ohio..	493	1952,1956-61	B4	-	Jan. 21, 1959	15.68	16,500	33.5	-
2275	Scioto River at Columbus, Ohio.....	1,624	1913,1921-61	B4	26,300	Mar. 25, 1913	x 25.9	138,000	85.0	a2.27
2280	Scioto Big Run at Briggsdale, Ohio.....	11.0	1947-61	A4	-	Jan. 21, 1959	12.09	2,920	265	-
2285	Big Walnut Creek at Central College, Ohio.	190	1939-61	A3	7,350	Jan. 21, 1959	19.75	23,800	125	a1.04
2290	Alum Creek at Columbus, Ohio.....	190	1924-36,1938-61	B4	5,520	Jan. 22, 1959	19.59	26,400	139	a2.06
2295	Big Walnut Creek at Rees, Ohio.....	544	1913,1922-36, 1939-61	B3	15,600	Jan. 22, 1959	22.03	59,800	110	a1.66
2300	Scioto River near Circleville, Ohio.....	2,635	1939-56,1959	B4	37,200	Jan. 22, 1959	27.2	100,000	38.0	a1.16
			1913-59			Mar. 26, 1913	31	-	-	-
2305	Big Darby Creek at Darbyville, Ohio.....	533	1922-36,1938-61	A4	11,700	Jan. 22, 1959	17.94	49,000	91.9	a1.34
2306	Hominy Creek at Circleville, Ohio.....	6.28	1947-61	B3	-	July 14, 1947	10.16	2,100	334	-
2310	Deer Creek at Williamsport, Ohio.....	331	1927-35,1938-56, 1959,1961	A3	11,000	Jan. 22, 1959	17.6	39,600	120	a1.15
2315	Scioto River at Chillicothe, Ohio.....	3,847	1898-1961	A4	49,000	Mar. 26, 1913	39.8	y 260,000	67.6	a1.70
2316	East Fork Paint Creek near Sedalia, Ohio	4.23	1947-61	A4	-	Jan. 21, 1959	14.47	515	122	-
2320	Paint Creek near Greenfield, Ohio.....	251	1926-35,1940-56, 1959	A4	6,770	Jan. 21, 1959	11.0	14,500	57.8	17
2325	Rocky Fork near Barretts Mills, Ohio....	141	1940-61	B3	5,900	Mar. 6, 1945	15.56	13,200	93.6	42
2340	Paint Creek near Bourneville, Ohio.....	808	1922-61	A3	20,800	Mar. 6, 1945	19.2	52,100	64.5	26
2341	Indian Creek at Massieville, Ohio.....	9.71	1947-61	A3	-	May 22, 1953	16.95	5,640	581	-
2345	Scioto River at Higby, Ohio.....	5,129	1931-61	A4	60,400	Jan. 23, 1937	26.4	177,000	34.5	42
						Jan. 23, 1959	26.4	-	-	-
			1913-61			Mar. 26, 1913	31.6	-	-	-
2350	Salt Creek at Tarlton, Ohio.....	10.6	1947-61	B3	-	July 18, 1947	6.40	2,780	262	-
2354	West Branch Tar Hollow Creek at Tar Hollow State Park, Ohio.	.305	1950-61	B3	-	June 13, 1958	5.72	42	138	-
2355	Tar Hollow Creek at Tar Hollow State Park, Ohio.	1.50	1947-61	B3	-	June 13, 1958	5.62	374	249	-
2360	Salt Creek near Londonderry, Ohio.....	286	1938-50	B3	9,800	Mar. 6, 1945	21.2	18,600	65.0	18
			1907-50			January 1907	24.5	-	-	-
2361	South Branch Little Salt Creek at Jackson, Ohio.	3.90	1947-61	B3	-	1956	15.65	1,050	269	-
2365	Little Salt Creek near Jackson, Ohio....	76.5	1926-32	B3	3,800	Aug. 18, 1926	13.2	1,470	19.2	-

			Ohio Brush Creek basin							
2373	West Branch Turkey Run near Winchester, Ohio.	0.43	1956-61	C1	-	Sept.16, 1956	19.3	720	1,670	-
2375	Ohio Brush Creek near West Union, Ohio..	388	1927-35,1941-61	C1	21,000	Mar. 19, 1943	26.5	51,600	133	a 1.24
			Ohio River main stem							
2380	Ohio River near Maysville, Ky.....	70,130	1937-61	D-MS	472,000	Jan. 27, 1937	75.3	820,000	11.7	a 1.10
			Whiteoak Creek basin							
2385	Whiteoak Creek near Georgetown, Ohio....	221	1924-35,1940-61	C2	11,100	May 14, 1933	z 20.87	20,500	92.8	32
			Little Miami River basin							
2390	Little Miami River near Selma, Ohio.....	50.6	1952-61	B4	2,100	Jan. 21, 1959	9.42	7,920	157	a 1.63
2395	North Fork Little Miami River near Pitchin, Ohio.	29.1	1952-61	B4	-	Jan. 21, 1959	7.58	3,350	115	-
2400	Little Miami River near Oldtown, Ohio...	129	1952-61	B4	4,180	Jan. 21, 1959	12.20	14,800	115	a 1.53
2405	North Fork Massie Creek at Cedarville, Ohio.	25.6	1955-61	B4	-	Jan. 21, 1959	8.55	2,960	116	-
2410	South Fork Massie Creek near Cedarville, Ohio.	20.2	1955-61	B4	-	Jan. 21, 1959	8.27	2,440	121	-
2415	Massie Creek at Wilberforce, Ohio.....	64.3	1953-61	B4	2,500	Jan. 21, 1959	11.25	7,300	114	a 1.26
2416	Shawnee Creek at Xenia, Ohio.....	4.21	1948-61	B4	-	Jan. 21, 1959	16.02	855	203	-
2420	Little Miami River at Spring Valley, Ohio.	361	1926-35,1940-52, 1959	B4	8,800	Jan. 21, 1959	19.0	36,400	101	a 1.79
2425	Little Miami River near Fort Ancient, Ohio.	677	1939-52,1959	B3	18,100	Jan. 21, 1959	21.9	67,000	99.0	a 1.60
2435	Cowan Creek near Wilmington, Ohio.....	31.9	1943-50	B3	2,000	Mar. 19, 1943	13.64	3,100	97.2	7.7
2440	Todd Fork near Roachester, Ohio.....	219	1952-61	B3	8,140	Jan. 21, 1959	19.50	25,500	116	a 1.36
2455	Little Miami River at Milford, Ohio.....	1,195	1916-20,1926-61	B3	27,600	Jan. 22, 1959	22.30	84,100	70.4	a 1.32
			1913,1916-20, 1926-61			March 1913	o z 25.5	-	-	-
2465	East Fork Little Miami River at Williamsburg, Ohio.	238	1949-53,1959-61	B2	11,800	January 1959	12.2	14,000	58.8	3.4
2470	East Fork Little Miami River near Bantam, Ohio.	331	1949-53	B2	15,000	Jan. 24, 1949	-	16,800	50.8	2.9
						Apr. 3, 1950	16.51	-	-	-
2471	Paterson Run near Owensville, Ohio.....	3.34	1947-61	B2	-	Apr. 3, 1950	4.95	810	243	-
2475	East Fork Little Miami River at Perintown, Ohio.	477	1913,1916-20, 1925-61	B2	19,500	Mar. 6, 1945	23.42	39,400	82.6	25
			Licking River basin							
2485	Licking River near Salyersville, Ky.....	140	1939-61	B4	4,450	Feb. 3, 1939	25.4	14,300	102	a 1.39
2495	Licking River at Farmers, Ky.....	831	1938-61	B4	16,100	Feb. 3, 1939	-	22,200	26.7	5.2
			1904-61			Feb. 9, 1918	b s 31.1	-	-	-
2500	Triplett Creek at Morehead, Ky.....	47.9	1939-61	B1	5,200	July 5, 1939	18.9	44,000	919	a 3.66
2505	Licking River at Blue Lick Springs, Ky..	1,785	1938-61	C4	28,000	Apr. 13, 1948	45.0	35,900	20.1	5.0
			1854-1961			1937	47.4	-	-	-
2510	North Fork Licking River near Lewisburg, Ky.	119	1938,1947-61	C2	7,140	July 1938	22.7	13,300	112	33
2515	Licking River at McKinneysburg, Ky.....	2,326	1925-26,1939-61	C4	34,200	Apr. 13, 1948	47.59	54,100	23.3	13
			1921,1925-26, 1937,1939-61			January 1937	47.8	-	-	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydrologic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Licking River basin--Continued									
2520	Stoner Creek at Paris, Ky.....	239	1954-61	C3	8,650	Mar. 8, 1956	15.84	10,000	41.8	3.5
			1928-61			1951	19.5	-	-	-
2525	South Fork Licking River at Cynthiana, Ky.	621	1918-61	C3	17,200	Apr. 13, 1948	23.32	35,300	56.8	a 1.04
2535	Licking River at Catawba, Ky.....	3,300	1854-1961	C4	44,400	Apr. 14, 1948	47.0	86,300	26.2	46
2540	Licking River at Butler, Ky.....	3,385	1938-42	C4	44,700	Apr. 17, 1939	40.4	64,100	18.9	8.0
	Ohio River main stem									
2550	Ohio River at Cincinnati, Ohio.....	76,580	1773-1961	D-MS	485,000	Jan. 26, 1937	80.0	894,000	11.7	a 1.17
	Mill Creek basin									
2555	Mill Creek at Reading, Ohio.....	73.1	1939-61	B3	3,660	Mar. 6, 1945	z 20.00	5,780	79.1	8.3
2570	West Fork Mill Creek near Greenhills, Ohio	29.9	1945-53	B3	1,910	May 25, 1947	8.54	5,000	167	a1.13
2575	West Fork Mill Creek at Woodlawn, Ohio..	31.9	1953-61	B3	-	Apr. 4, 1956	6.82	2,000	62.7	-
2580	West Fork Mill Creek at Lockland, Ohio..	35.6	1939-57,1959	B3	2,170	May 25, 1947	16.93	6,310	177	a1.26
2590	Mill Creek at Carthage, Ohio.....	116	1947-61	B3	-	Jan. 21, 1959	16.17	8,900	76.7	-
2595	Mill Creek at Mitchell Avenue, Cincinnati, Ohio.	136	1941-48	B3	5,720	Mar. 6, 1945	b 69.12	11,900	87.5	29
	Miami River basin									
2615	Miami River at Sidney, Ohio.....	545	1913-61	B5	8,050	Mar. 25, 1913	z 19.6	aa 44,000	80.7	a2.37
2620	Loramie Creek at Lockington, Ohio.....	261	1913-61	B5	4,700	Mar. 25, 1913	z 91.6	bb 25,600	98.1	a2.36
2630	Miami River at Taylorsville, Ohio.....	1,155	1913-17,1922-61	B4	20,600	March 1913	cc 25.4	aa 127,000	110	a2.67
2631	Poplar Creek near Vandalia, Ohio.....	3.16	1947-61	B4	-	Jan. 21, 1959	6.10	1,130	358	-
2632	Bridge Creek near Greenville, Ohio.....	5.49	1947-61	B4	-	June 13, 1958	14.92	754	137	-
2635	Greenville Creek near Greenville, Ohio..	141	1924-31	B5	3,000	June 9, 1924	8.6	4,200	29.8	5.4
2640	Greenville Creek near Bradford, Ohio....	195	1913,1932-61	B5	3,800	March 1913	12.1	aa dd 18,200	93.3	a2.07
2645	Stillwater River at Covington, Ohio.....	438	1931-35	B4	10,100	May 13, 1933	13.74	21,700	49.5	34
			1913,1931-35			March 1913	-	aa 51,400	117	a2.21
2650	Stillwater River at Pleasant Hill, Ohio.	502	1913-61	B4	11,100	Mar. 25, 1913	ee 17.5	ff 51,400	102	a2.01
			1917-61			Jan. 21, 1959	17.98	-	-	-
2651	Hog Run tributary at Laura, Ohio.....	.463	1950-61	B4	-	May 22, 1953	7.65	204	441	-
2660	Stillwater River at Englewood, Ohio.....	646	1926-61	B4	13,400	June 15, 1958	80.88	9,980	15.4	-
			1913,1926-61			March 1913	-	aa 85,400	132	a2.76
2665	Mad River at Zanesfield, Ohio.....	6.41	1947-61	A5	-	Apr. 11, 1948	6.76	1,380	215	-
2670	Mad River near Urbana, Ohio.....	157	1926-31,1940-61	A5	3,270	Jan. 22, 1959	12.05	8,000	51.0	25
2680	Buck Creek at New Moorefield, Ohio.....	67.3	1943-59	B5	1,730	Jan. 21, 1959	7.70	8,130	121	a2.03
2685	Beaver Creek near Springfield, Ohio.....	37.3	1943-59	A4	1,690	Jan. 21, 1959	9.00	5,400	145	a1.02
2690	Buck Creek at Springfield, Ohio.....	137	1913,1915-21,	B4	4,350	Feb. 26, 1929	14.3	13,000	94.9	a1.30
			1924-56,1959-61							
2695	Mad River near Springfield, Ohio.....	485	1904-5,1913-61	B4	10,900	Mar. 25, 1913	z 16.9	aa 55,400	114	a2.20
2700	Mad River near Dayton, Ohio.....	632	1913-61	B4	13,200	Mar. 25, 1913	t 14.0	aa 75,700	120	a2.48
2705	Miami River at Dayton, Ohio.....	2,513	1805-1961	B3	47,200	Mar. 25, 1913	gg 29.0	aa 250,000	99.5	a2.29
						Feb. 26, 1929	87.9	-	-	-

2710	Wolf Creek at Dayton, Ohio.....	69.5	1939-50,1959	B2	4,850	Mar. 19, 1943	-	9,950	143	27
						Jan. 21, 1959	55.1	-	-	-
2715	Miami River at Miamisburg, Ohio.....	2,718	1917-20,1925-35, 1953-61	B3	36,000	Jan. 21, 1959	20.65	61,800	22.7	12
			1913-61			Mar. 26, 1913	-	aa 257,000	94.6	a 3.08
2720	Twin Creek near Germantown, Ohio.....	275	1913-61	B2	13,100	Mar. 25, 1913	t 18.3	aa 66,000	240	a 2.18
			1915-23,1927-61			Jan. 22, 1959	29.19	-	-	-
2735	Fourmile Creek near Hamilton, Ohio.....	311	1938-60	B2	14,400	Jan. 21, 1959	21.40	44,500	143	a 1.34
2740	Miami River at Hamilton, Ohio.....	3,639	1898,1907-61	B3	62,000	Mar. 26, 1913	gg 38.5	aa 352,000	96.7	a 2.46
2741	Blake Run near Reily, Ohio.....	.29	1939-40,1942-43, 1947-61	B3	-	June 30, 1960	4.76	307	1,060	-
2745	Miami River at Venice, Ohio.....	3,790	1913-27	B3	63,600	Mar. 26, 1913	38.0	370,000	97.6	a 2.52
2750	Whitewater River near Alpine, Ind.....	539	1929-61	B3	15,500	Jan. 14, 1937	16.61	35,000	64.9	45
			1913,1929-61			March 1913	18.5	-	-	-
2755	East Fork Whitewater River at Richmond, Ind.	123	1950-61	B2	7,400	Jan. 15, 1950	12.49	-	-	-
						Jan. 21, 1959	-	14,100	115	19
			1866-1961			March 1913	15.0	-	-	-
2760	East Fork Whitewater River at Brookville, Ind.	382	1954-61	B2	16,600	Jan. 21, 1959	16.50	36,100	94.5	36
2765	Whitewater River at Brookville, Ind.....	1,239	1916-20,1924-61	B2	39,000	Jan. 21, 1959	27.78	81,800	66.0	30
			1913-61			Mar. 25, 1913	z 39.0	-	-	-
			Laughery Creek basin							
2770	Laughery Creek near Farmers Retreat, Ind.	248	1897-1961	B1	15,600	Jan. 21, 1959	21.13	47,800	193	a 1.33
			Ohio River main stem							
2772.1	Ohio River at Markland Dam, near Warsaw, Ky.	83,170	1884,1913, 1916-61	D-MS	490,000	Jan. 26, 1937	76.1	-	-	-
			Kentucky River basin							
2773	North Fork Kentucky River at Whitesburg, Ky.	66.4	1927-61	B2	4,680	Jan. 29, 1957	14.7	7,730	116	10
2775	North Fork Kentucky River at Hazard, Ky.	466	1927-61	B2	19,100	Jan. 29, 1957	37.54	47,800	103	a 1.08
2780	Bear Branch near Noble, Ky.....	2.21	1955-61	B2	-	Jan. 29, 1957	3.20	375	170	-
2785	Troublesome Creek at Noble, Ky.....	177	1950-61	B2	9,500	Feb. 1, 1951	24.78	15,600	88.1	9.5
			1939-61			February 1939	29	-	-	-
2800	North Fork Kentucky River at Jackson, Ky.	1,101	1905-7,1917-21, 1927-31,1935-61	B2	36,000	Feb. 4, 1939	z 43.1	-	-	-
						Jan. 30, 1957	-	53,500	48.6	6.7
2806	Middle Fork Kentucky River near Hyden, Ky.	202	1957-61	B2	10,400	Jan. 29, 1957	33.3	e 60,000	297	a 2.50
2809	Middle Fork Kentucky River at Buckhorn, Ky.	420	1939,1957-61	B2	17,800	Jan. 29, 1957	43.1	82,300	196	a 2.00
2810	Middle Fork Kentucky River at Tallega, Ky.	537	1929,1931-32, 1935,1937, 1939-61	B2	21,100	Jan. 30, 1957	43.33	52,700	98.1	a 1.08
2812	South Fork Kentucky River at Oneida, Ky.	486	1957-61	B2	19,900	Jan. 29, 1957	40.19	53,000	109	a 1.15
2815	South Fork Kentucky River at Booneville, Ky.	722	1926-31,1937, 1939-61	B2	26,200	Jan. 30, 1957	43.40	66,100	91.6	a 1.09
2820	Kentucky River at lock 14, at Heidelberg, Ky.	2,657	1921-61	D2	67,500	Feb. 4, 1939	35.6	120,000	45.2	a 1.12
2825	Red River near Hazel Green, Ky.....	65.8	1955-61	B3	3,400	Feb. 28, 1955	10.64	3,020	45.9	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydrologic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Kentucky River basin--Continued									
2830	Stillwater Creek at Stillwater, Ky.....	24.0	1955-61	B3	-	Dec. 14, 1956	12.91	3,890	162	-
2835	Red River at Clay City, Ky.....	362	1931-32,1937-61	B3	11,700	July 15, 1938	22.8	21,100	58.3	14
2840	Kentucky River at lock 10, near Winchester, Ky.	3,955	1908-61	D3	65,500	Mar. 28, 1913	35.1	-	-	-
						Feb. 5, 1939	-	92,400	23.4	18
2845	Kentucky River at lock 8, near Camp Nelson, Ky.	4,414	1900-61	D3	71,000	Mar. 28, 1913	-	103,000	23.3	22
						Jan. 23, 1937	41.2	-	-	-
2850	Dix River near Danville, Ky.....	318	1943-61	C2	14,600	Mar. 5, 1945	16.28	20,900	65.7	8.0
2855	Dix River near Burgin, Ky.....	395	1916-22	C2	17,000	Jan. 22, 1917	29.0	27,500	69.6	15
2862	Dix River at Dix Dam, near Burgin, Ky...	440	1945-47,1949-50, 1952-54,1956, 1958-61	C2	-	Feb. 1, 1950	29.5	-	-	-
2870	Kentucky River at lock 6, near Salvisa, Ky.	hh 5,002	1895-1961	D3	77,500	Mar. 27, 1913	-	115,000	23.0	27
						Jan. 23, 1937	43.35	-	-	-
2875	Kentucky River at lock 4, at Frankfort, Ky.	hh 5,292	1817-1961	D3	81,000	Jan. 25, 1937	47.46	115,000	21.7	19
2880	North Elkhorn Creek near Georgetown, Ky.	hh 111	1950-61	C4	3,720	Mar. 23, 1952	18.41	6,480	58.3	22
			1948,1950-61			April 1948	22	-	-	-
2885	Cave Creek near Fort Spring, Ky.....	hh 1.93	1953-61	C4	-	May 13, 1955	3.48	400	207	-
2890	South Elkhorn Creek at Fort Spring, Ky..	hh 21.0	1951-61	C4	-	June 23, 1960	9.15	1,890	90.0	-
2895	Elkhorn Creek near Frankfort, Ky.....	hh 403	1916-20,1932, 1937,1940-61	C3	12,600	Aug. 2, 1932	17.5	31,000	76.9	a1.24
2900	Flat Creek near Frankfort, Ky.....	5.63	1952-61	C3	-	July 8, 1955	11.5	7,100	1,260	-
2905	Kentucky River at lock 2, at Lockport, Ky.	hh 5,980	1884-61	D3	88,000	Jan. 26, 1937	-	123,000	20.6	17
						Jan. 24, 1937	b 56.85	-	-	-
2910	Big Eagle Creek at Sadieville, Ky.....	42.9	1941-61	C1	4,800	Mar. 19, 1943	21.96	9,870	230	a1.04
			1932,1941-61			August 1932	22	-	-	-
2915	Eagle Creek at Glencoe, Ky.....	437	1913,1915-20, 1928-31,1937, 1939-61	C1	22,800	Mar. 19, 1943	11 23.6	32,900	75.3	8.2
	Ohio River main stem									
2920	Ohio River at Madison, Ind.....	90,580	1939-46	D-MS	500,000	Mar. 7, 1945	61.4	829,000	9.2	a1.05
			1937-46			Jan. 25, 1937	72.3	-	-	-
	Beargrass Creek basin									
2925	South Fork Beargrass Creek at Louisville, Ky.	17.2	1940-61	C4	-	Mar. 19, 1943	15.1	-	-	-
						June 23, 1960	11.82	2,220	132	-
2930	Middle Fork Beargrass Creek at Cannons Lane, at Louisville, Ky.	18.4	1945-61	C4	-	June 23, 1960	5.83	3,300	179	-
			1943,1945-61			February 1943	8.1	-	-	-
	Silver Creek basin									
2940	Silver Creek near Sellersburg, Ind.....	188	1955-61	B2	9,900	Jan. 22, 1959	30.89	19,600	104	22

			Ohio River main stem							
2945	Ohio River at Louisville, Ky.....	91,170	1832,1848 1858-59,1866-69, 1872-1961	D-MS	504,000	Jan.26,27,1937	85.44	1,110,000	12.2	1.39
			Salt River basin							
2950	Salt River near Harrodsburg, Ky.....	hh 39.4	1953-61	C2	3,200	Nov. 18, 1957	15.1	4,190	106	5.5
						May 7, 1961	15.6	-	-	-
2955	Salt River near Van Buren, Ky.....	hh 192	1928-61	C2	10,100	1928	22.2	20,000	104	50
2956	Brashears Creek at Taylorsville, Ky.....	hh 261	1909,1913, 1928-29,1935-37, 1939-40,1943, 1945,1949-57, 1959-61	C2	12,600	May 8, 1961	32.28	-	-	-
2960	Plum Creek subwatershed No. 4 near Simpsonville, Ky.	1.55	1955-61	C2	-	May 7, 1961	22.42	153	98.7	-
2965	Plum Creek near Wilsonville, Ky.....	19.1	1954-61	C2	-	June 23, 1960	7.92	5,180	271	-
2967	Plum Creek subwatershed No. 15 (Little Plum Creek) near Wilsonville, Ky.	1.03	1957-61	C2	-	June 23, 1960	29.0	124	120	-
2970	Little Plum Creek near Waterford, Ky....	5.15	1954-61	C2	-	June 23, 1960	6.12	3,810	740	-
2975	Plum Creek at Waterford, Ky.....	31.8	1954-61	C2	2,740	June 23, 1960	11.84	13,200	415	a 2.43
2980	Floyds Fork at Fisherville, Ky.....	138	1945-61	C2	7,900	May 8, 1961	14.7	15,800	114	a 1.01
			1937,1943, 1945-61			January 1937	16.8	-	-	-
2985	Salt River at Shepherdsville, Ky.....	1,197	1939-61	C3	27,700	May 9, 1961	40.84	57,700	48.2	a 1.05
			1937-61			Jan. 26, 1937	b 47.3	-	-	-
2990	Rolling Fork near Lebanon, Ky.....	239	1939-61	B1	15,200	Jan. 1, 1945	22.4	26,500	111	12
			1913-61			1913	24.7	-	-	-
3000	Beech Fork near Springfield, Ky.....	85.9	1953-61	C3	4,130	May 7, 1961	27.8	8,840	103	a 1.08
3010	Beech Fork at Bardstown, Ky.....	669	1940-61	C3	18,100	Nov. 19, 1957	39.5	27,600	41.3	11
3015	Rolling Fork near Boston, Ky.....	1,299	1939-61	B3	29,100	Feb. 15, 1948	-	41,300	31.8	5.7
			1937-61			January 1937	55.2	-	-	-
3020	Pond Creek near Louisville, Ky.....	64.0	1945-61	C4	2,500	Jan. 21, 1959	-	3,260	50.9	5.3
			1937-61			January 1937	b 19	-	-	-
			Indian Creek basin							
3025	Indian Creek near Corydon, Ind.....	129	1944-61	B2	7,600	Jan. 21, 1959	22.22	23,800	184	a 1.35
			1815-1961			Mar. 19, 1943	22.4	-	-	-
			Blue River basin							
3030	Blue River near White Cloud, Ind.....	461	1866-1961	B3	13,900	Jan. 22, 1939	23.07	28,500	61.8	27
			Ohio River main stem							
3035	Ohio River at Owensboro, Ky.....	97,200	1937-54	D-MS	525,000	Jan. 28, 1937	54.9	1,210,000	12.4	a 1.46
			Green River basin							
3045	McGills Creek near McKinney, Ky.....	2.14	1952-61	B3	-	Nov. 18, 1957	5.60	1,030	481	-
3050	Green River near McKinney, Ky.....	22.4	1952-61	B3	-	Mar. 22, 1952	8.93	10,400	464	-
3055	Green River near Mount Salem, Ky.....	36.3	1954-61	B3	2,210	Nov. 18, 1957	11.11	11,700	322	a 2.29
3065	Green River at Greensburg, Ky.....	736	1940-61	B3	19,300	Mar. 23, 1952	33.50	47,000	63.9	a 1.05
			1913-61			1913	36.2	-	-	-
3070	Russell Creek near Columbia, Ky.....	hh 173	1937,1940-61	B3	6,900	Mar. 22, 1952	23.8	15,900	91.9	50

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Green River basin--Continued									
3075	South Fork Little Barren River at Edmonton, Ky.	18.3	1942-61	B3	-	June 15, 1949	10.00	2,140	117	-
3085	Green River at Munfordville, Ky.....	hh 1,493	1913-61	B3	32,300	January 1913	54.0	67,000	44.9	28
3090	Green River at Mammoth Cave, Ky.....	1,539	1913,1936-50	B3	33,200	Jan. 24, 1937	52.0	75,000	48.7	45
3095	McDougal Creek near Hodgenville, Ky.....	5.34	1954-61	B1	-	Nov. 18, 1957	6.27	2,100	393	-
3100	North Fork Nolin River at Hodgenville, Ky.	hh 35.6	1942-61	B1	4,230	July 11, 1958	15.50	8,300	233	21
3105	Nolin River at Wax, Ky.....	hh 380	1937-61	C4	9,150	Jan. 24, 1937	32.26	22,000	57.9	a 1.21
3110	Nolin River at Kyrock, Ky.....	hh 479	1931-32,1940-50, 1961	C4	10,700	Jan. 30, 1932	26.30	22,700	47.4	a 1.11
						Feb. 1, 1932	gg 26.30	-	-	-
			1854-1961			January 1937	jj 26.35	-	-	-
3115	Green River at lock 6, at Brownsville, Ky.	hh 2,072	1907-61	C3	41,000	Jan. 24, 1937	44.94	120,000	57.9	a 1.48
3120	Bear Creek near Leitchfield, Ky.....	30.8	1937,1950-61	C2	2,680	Nov. 18, 1957	21.33	8,070	262	a 1.52
3125	Barren River near Pageville, Ky.....	hh 512	1940-61	B1	25,200	Mar. 23, 1952	27.26	70,000	137	a 1.20
3130	Barren River near Finney, Ky.....	hh 863	1942-50,1961	B1	36,000	Feb. 14, 1948	z 103.83	51,800	60.0	5.9
3135	West Bays Fork at Scottsville, Ky.....	7.47	1951-61	B1	-	Mar. 22, 1952	6.09	-	-	-
						Nov. 18, 1957	-	1,720	230	-
3140	Drakes Creek near Alvaton, Ky.....	hh 358	1940-61	B1	20,000	Jan. 29, 1957	31.54	34,300	95.8	12
3145	Barren River at Bowling Green, Ky.....	hh 1,358	1937-61	B2	41,600	Mar. 24, 1952	-	77,400	57.0	16
						1937	46	-	-	-
			1913-61			Jan. 8, 1913	52.2	-	-	-
3150	Barren River at lock 1, at Greencastle, Ky.	hh 1,396	1925-31,1937 1913-37	B2	42,200	Jan. 23, 1937	39.00	82,000	58.7	20
						January 1913	41.2	-	-	-
3155	Green River at lock 4, at Woodbury, Ky..	hh 4,043	1898-1961	C3	66,400	Jan. 25, 1937	43.1	205,000	50.7	a 1.56
3160	Mud River near Lewisburg, Ky.....	hh 81.5	1940-61	B2	5,440	Nov. 18, 1957	22.53	12,200	150	42
3165	Green River at Paradise, Ky.....	hh 4,803	1940-50,1961	C3	76,000	Jan. 14, 1950	-	89,300	18.6	3.7
						Jan. 15, 1950	gg 38.3	-	-	-
3170	Rough River near Madrid, Ky.....	hh 158	1937-59	C2	8,800	Nov. 19, 1957	40.54	14,800	93.7	18
3175	North Fork Rough River near Westview, Ky.	hh 23	1955-61	C4	-	Jan. 21, 1959	18.57	3,170	138	-
3180	Rough River near Falls of Rough, Ky.....	hh 345	1940-56 1937,1940-56	C4	8,500	Mar. 23, 1952	30.07	13,700	39.7	15
						1937	36	-	-	-
3182	Rock Lick Creek near Glen Dean, Ky.....	20.1	1957-61	C4	-	Jan. 21, 1959	18.36	8,720	434	-
3185	Rough River at Falls of Rough, Ky.....	hh 394	1940-61 1913,1915,1935, 1937,1940-61	C4	9,400	Jan. 14, 1950	28.87	12,400	31.5	5.7
						Jan. 25, 1937	34.06	-	-	-
3188	Caney Creek near Horse Branch, Ky.....	124	1957-61	C4	4,100	Nov. 18, 1957	b 14.43	10,000	80.6	a 1.23
3190	Rough River near Dundee, Ky.....	637	1940-61 1937-61	C4	13,200	Jan. 14, 1950	-	20,000	31.4	11
						January 1937	31.8	-	-	-
3200	Green River at lock 2, at Calhoun, Ky...	hh 6,024	1898-1961	C4	68,000	Jan. 27, 1937	43.7	208,000	34.5	a 1.54
3205	East Fork Pond River near Apex, Ky.....	194	1937,1941-61	B3	7,450	Nov. 19, 1957	20.70	21,800	112	a 1.27
3210	Pond River near White Plains, Ky.....	346	1928-31,1938-40 1906-40	B3	11,200	Jan. 10, 1930	gg 16.26	7,850	22.7	-
						Jan. 31, 1937	t 22.10	-	-	-

Ohio River main stem

3220	Ohio River at Evansville, Ind.....	107,000	1832,1874-1961	D-MS	535,000	Jan. 29, 1937 Jan. 31, 1937	- 53.75	1,410,000 -	13.2 -	a 1.67 -
			Wabash River basin							
3225	Wabash River near New Corydon, Ind.....	258	1952-61	B5	4,680	Jan. 22, 1959	20.47	8,720	33.8	16
3230	Wabash River at Bluffton, Ind.....	506	1837-1961	B5	7,600	Mar. 25, 1913	21.0	25,000	49.4	a 1.42
3235	Wabash River at Huntington, Ind.....	710	1913,1943, 1951-61	B5	9,800	Feb. 10, 1959	b 23.20	14,900	21.0	7.2
3240	Little Wabash River near Huntington, Ind.	266	1944-61	B5	4,760	Jan. 4, 1950 Feb. 11, 1959	- 18.43	5,990 -	22.5 -	4.0 -
3243	Salamonie River near Warren, Ind.....	422	1957-61	B5	6,680	Feb. 10, 1959	17.05	13,200	31.3	22
3245	Salamonie River at Dora, Ind.....	553	1924-61 1913,1924-61	B5	8,100	May 18, 1943 March 1913	14.75 kk 19.5	16,500 -	29.8 -	26 -
3250	Wabash River at Wabash, Ind.....	1,733	1883-1961	B4	27,500	Mar. 26, 1913	o 28.7	90,000	51.9	a 1.42
3255	Mississinewa River near Ridgeville, Ind.	130	1913-61	B4	4,200	June 10, 1958	16.25	13,900	107	a 1.43
3260	Mississinewa River near Eaton, Ind.....	304	1952-61	B4	7,800	June 10, 1958	18.53	19,400	63.8	1.08
3265	Mississinewa River at Marion, Ind.....	677	1924-61 1913,1924-61	B4	13,800	Mar. 21, 1927 March 1913	17.4 mm 19.2	25,000 -	36.9 -	15 -
3270	Mississinewa River at Peoria, Ind.....	809	1943,1953-61	B4	15,800	June 11, 1958	19.26	28,000	34.6	13
3275	Wabash River at Peru, Ind.....	2,655	1884-1961	B4	37,500	Mar. 26, 1913	28.1	115,000	43.3	a 1.33
3280	Eel River at North Manchester, Ind.....	416	1883-1961	B6	4,320	Feb. 27, 1936	14.0	7,500	18.0	12
3285	Eel River near Logansport, Ind.....	791	1943-61	B6	6,900	May 18, 1943	13.2	17,000	21.5	a 1.07
3290	Wabash River at Logansport, Ind.....	3,751	1883-1961	B4	48,000	Mar. 26, 1913	25.3	140,000	37.3	a 1.26
3295	Wabash River at Delphi, Ind.....	4,032	1913-61	B5	34,900	Mar. 26, 1913	28.4	145,000	36.0	a 1.80
3297	Deer Creek near Delphi, Ind.....	278	1943-61	A5	4,900	May 1943	19.8	18,000	64.7	a 1.18
3305	Tippecanoe River at Oswego, Ind.....	115	1943,1950-61	B8	390	May 21, 1943	9.4	1,050	9.1	a 1.16
3310	Tippecanoe River near Warsaw, Ind.....	125	1944-49	B8	420	Apr. 24, 1944	3.67	552	4.4	4.4
3315	Tippecanoe River near Ora, Ind.....	839	1944-61	B7	4,500	Apr. 5, 1950	14.40	7,800	9.3	12
3320	Tippecanoe River at Pulaski, Ind.....	1,066	1925-31	B7	5,500	Jan. 14, 1930 Jan. 20,21,1931	- b 9.72	7,490 -	7.0 -	5.0 -
3325	Tippecanoe River near Monticello, Ind...	1,710	1932-61	B7	8,300	June 13, 1958	-	nn 16,800	9.8	25
3330	Tippecanoe River near Delphi, Ind.....	1,857	1904-6, 1937, 1940-61	B7	8,900	Feb. 10, 1959	15.10	22,600	12.2	a 1.10
3335	Wildcat Creek at Greentown, Ind.....	oo 172	1943,1945-61 1913,1943, 1945-61	B6	2,270	Jan. 4, 1950 March 1913	15.3 t 18.9	6,320 -	36.8 -	a 1.20 -
3337	Wildcat Creek at Kokomo, Ind.....	245	1956-61	B6	2,950	Feb. 10, 1959	10.83	8,100	33.1	a 1.19
3340	Wildcat Creek at Owasco, Ind.....	390	1943-61 1913,1943-61	A6	4,130	May 18, 1943 March 1913	14.0 16	- -	- -	- -
3345	South Fork Wildcat Creek near Lafayette, Ind.	246	1943-61	A5	4,500	May 18, 1943	16.8	17,900	72.8	a 1.28
3350	Wildcat Creek near Lafayette, Ind.....	791	1955-61	A5	10,600	June 10, 1958	21.52	25,000	31.6	22
3355	Wabash River at Lafayette, Ind.....	7,247	1858-1961	B5	53,500	Mar. 26, 1913	32.9	190,000	26.2	a 1.53
3357	Big Pine Creek near Williamsport, Ind...	329	1956-61	B5	5,580	Feb. 10, 1959	16.00	12,600	38.3	45
3360	Wabash River at Covington, Ind.....	8,208	1913-61	B5	58,500	March 1913	35.1	200,000	24.4	a 1.48
3361	Vermilion River tributary near Paxton, Ill.	1.05	1956-61	A5	-	May 20, 1959	15.04	249	237	-
3365	Bluegrass Creek at Potomac, Ill.....	34.5	1950-61	A5	-	May 28, 1956	11.43	4,380	127	-
3370	Boneyard Creek at Urbana, Ill.....	4.64	1948-61	A6	-	July 17, 1950 Oct. 6, 1955	7.87 -	- 561	- 121	- -

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge				
						Date	Gage height (feet)	Discharge		
								Cfs	Cfs per sq mi	Recur-rence interval (years)
	Wabash River basin--Continued									
3375	Saline Branch at Urbana, Ill.....	71.4	1937-61	A6	1,200	Mar. 12, 1939	12.8	3,410	47.8	38
			1933-61			May 11, 1933	13.5	-	-	-
3380	Salt Fork near Homer, Ill.....	344	1945-61	A6	3,780	Feb. 11, 1959	14.75	7,910	23.0	16
			1939-61			March 1939	18.6	-	-	-
3385	Vermilion River near Catlin, Ill.....	959	1940-58	A5	12,100	May 18, 1943	23.35	36,000	37.5	44
			1903-58			March 1939	24.4	-	-	-
3388	North Fork Vermilion River tributary near Danville, Ill.	1.42	1956-61	A5	-	July 16, 1956	15.99	-	-	-
						June 22, 1960	-	568	400	-
3390	Vermilion River near Danville, Ill.....	1,280	1915-21,1929, 1931-61	A5	15,000	Mar. 13, 1939	28.59	48,700	38.0	a 1.04
3395	Sugar Creek at Crawfordsville, Ind.....	509	1913-61	B4	11,200	March 1913	17.3	36,000	70.7	a 1.39
3400	Sugar Creek near Byron, Ind.....	668	1941-61	B4	13,800	June 28, 1957	22.98	32,200	48.2	a 1.01
3405	Wabash River at Montezuma, Ind.....	11,100	1913-61	B5	73,000	Mar. 27, 1913	34.0	f 230,000	20.7	a 1.36
3409	Raccoon Creek at Ferndale, Ind.....	215	1957-61	A4	6,050	June 28, 1957	19.87	40,500	188	a 2.14
3410	Raccoon Creek at Mansfield, Ind.....	240	1875-1958	A4	6,550	June 28, 1957	21.54	38,400	160	a 1.88
3412	Little Raccoon Creek near Catlin, Ind...	133	1957-61	A4	4,300	June 28, 1957	18.27	53,400	402	3.6
3413	Raccoon Creek at Coxville, Ind.....	440	1957-61	A4	10,100	June 28, 1957	21.23	108,000	245	a 3.43
3415	Wabash River at Terre Haute, Ind.....	12,200	1828-1961	B5	78,000	Mar. 27, 1913	c 31.1	f 245,000	20.1	a 1.36
3419	Raccoon Creek tributary near Annapolis, Ill.	.036	1956-61	A5	-	July 10, 1958	17.86	43	1,190	-
3420	Wabash River at Riverton, Ind.....	13,100	1912-14,1939-61	B5	82,000	Mar. 28, 1913	-	250,000	19.1	a 1.32
						Mar. 21, 1943	29.36	-	-	-
3425	Busseron Creek near Carlisle, Ind.....	228	1944-61	B5	4,280	Jan. 5, 1950	20.05	8,800	38.6	27
3430	Wabash River at Vincennes, Ind.....	13,700	1867,1883, 1887-93,1907-8, 1912-61	B5	85,000	Mar. 29, 1913	-	f 255,000	18.6	a 1.30
						May 22,23,1943	z 29.33	-	-	-
3440	Embarrass River near Diona, Ill.....	916	1939-40,1943, 1945-47	A5	11,800	May 1943	e 22	17,200	18.8	5.5
3442.5	Embarrass River tributary near Greenup, Ill.	.081	1956-61	A5	-	June 23, 1960	12.08	40	494	-
3445	Range Creek near Casey, Ill.....	7.60	1951-61	A5	-	Aug. 11, 1961	12.50	3,500	461	-
3450	Embarrass River at Newton, Ill.....	1,391	1940-45	A5	16,000	May 20, 1943	20.20	31,900	22.9	13
3455	Embarrass River at Ste. Marie, Ill.....	1,513	1874-1961	A5	17,000	Jan. 4, 1950	-	44,000	29.1	29
						June 30, 1947	25.54	-	-	-
3460	North Fork Embarrass River near Oblong, Ill.	319	1913,1941-61	A3	10,600	Jan. 4, 1950	22.4	27,100	85.0	28
3470	White River at Muncie, Ind.....	242	1904-61	B4	6,600	March 1913	19.6	20,000	82.6	a 1.31
3475	Buck Creek near Muncie, Ind.....	36.7	1955-61	B4	1,670	Jan. 21, 1959	12.64	1,710	46.6	2.4
3480	White River at Anderson, Ind.....	401	1904-61	B4	9,500	Mar. 25, 1913	c 23.6	f 28,000	69.8	a 1.28

3485	White River near Noblesville, Ind.....	814	1914-61	B4	15,900	Mar. 21, 1927	-	27,200	33.4	11
						June 14, 1958	16.35	-	-	-
			1913-61			March 1913	pp 21.5	-	-	-
3490	White River at Noblesville, Ind.....	837	1947-61	B4	16,100	June 15, 1958	20.55	24,000	28.7	6.7
			1847-1961			Mar. 25, 1913	c 23.8	-	-	-
3495	Cicero Creek near Arcadia, Ind.....	131	1955-61	B5	2,850	June 29, 1957	11.86	6,720	51.3	a 1.02
			1937-61			January 1937	15.6	-	-	-
3497	Little Cicero Creek near Arcadia, Ind...	44.7	1956-61	B5	-	June 28, 1957	8.69	3,980	89.0	-
3501	Hinkle Creek near Cicero, Ind.....	16.3	1956-61	B5	-	June 28, 1957	8.45	4,920	302	-
3505	Cicero Creek at Noblesville, Ind.....	219	1951-61	B5	4,130	June 28, 1957	15.26	9,800	44.7	a 1.03
			1913,1951-61			March 1913	f mm 19.5	-	-	-
3510	White River near Nora, Ind.....	1,200	1913,1926, 1930-61	B5	14,400	Mar. 26, 1913	qq 22.4	58,500	48.8	a 1.76
3515	Fall Creek near Fortville, Ind.....	172	1942-61	B5	3,500	May 18, 1943	9.77	8,240	47.9	a 1.02
			1913-61			March 1913	12	-	-	-
3520	Lawrence Creek at Fort Benjamin Harrison, Ind.	2.86	1952-56,1958-61	B5	-	May 28, 1956	9.32	2,650	927	-
3525	Fall Creek at Millersville, Ind.....	313	1913-61	B5	5,400	Mar. 26, 1913	16.3	22,000	70.3	a 1.76
3530	White River at Indianapolis, Ind.....	1,627	1847-1961	B5	18,000	Mar. 26, 1913	c 30.0	f 70,000	43.0	a 1.68
3535	Eagle Creek at Indianapolis, Ind.....	179	1913,1938-61	B4	5,300	June 28, 1957	16.38	28,800	161	a 2.35
3540	White River near Centerton, Ind.....	2,435	1926-32,1947-61	B5	24,000	Jan. 6 or 7, 1950	f 17.2	43,000	17.7	14
			1913,1926-32, 1947-61			March 1913	rr 22.8	f 90,000	37.0	a 1.62
3545	Bean Blossom Creek at Bean Blossom, Ind.	14.6	1952-61	B2	-	June 23, 1960	11.78	8,140	558	-
3550	Bear Creek near Trevlac, Ind.....	7.00	1953-61	B2	-	June 12, 1957	7.62	1,830	261	-
3560	Bean Blossom Creek at Dolan, Ind.....	100	1946-61	B2	6,300	June 2, 1947	-	9,420	94.2	6.8
						Jan. 5, 1949	17.9	-	-	-
3570	White River at Spencer, Ind.....	2,980	1847-1961	B5	27,800	Mar. 26, 1913	28.5	f 100,000	33.6	a 1.56
3575	Big Walnut Creek near Reelsville, Ind...	338	1950-61	B4	8,400	June 28, 1957	18.63	30,700	90.8	a 1.58
3580	Mill Creek near Cataract, Ind.....	241	1950-61	B4	6,600	June 24, 1960	22.58	11,400	47.3	12
3590	Mill Creek near Manhattan, Ind.....	292	1940-61	B4	7,570	Jan. 5, 1950	18.38	8,960	30.7	3.3
			1875,1940-61			Aug. 1, 1875	o z 21.0	-	-	-
3595	Deer Creek near Putnamville, Ind.....	59.0	1955-61	B4	2,360	May 8, 1961	13.73	7,710	131	a 1.42
			1951,1955-61			Spring 1951	14.65	-	-	-
3600	Eel River at Bowling Green, Ind.....	844	1931-61	B4	16,200	Jan. 4, 1950	23.53	34,000	40.3	30
			1875-1961			August 1875	o z 30.0	-	-	-
3605	White River at Newberry, Ind.....	4,696	1908-61	B5	38,800	Mar. 27, 1913	cqq 27.5	f 130,000	27.7	a 1.45
			1875-1961			August 1875	qq 29.75	-	-	-
3610	Blue River at Carthage, Ind.....	187	1949,1951-61	B4	5,450	Jan. 21, 1959	13.28	8,340	44.6	7.4
3615	Blue River at Shelbyville, Ind.....	425	1944-61	B4	9,950	Jan. 5, 1949	gg 17.00	14,800	34.8	6.6
			1897-1961			March 1913	20.2	-	-	-
3620	Youngs Creek near Edinburg, Ind.....	109	1943-61	B4	3,700	Jan. 27, 1952	13.4	10,700	98.2	a 1.25
3625	Sugar Creek near Edinburg, Ind.....	462	1943-61	B4	10,600	May 29, 1946	18.38	27,600	59.7	a 1.13
3630	Driftwood River near Edinburg, Ind.....	1,054	1942-61	B4	19,100	May 29, 1956	16.80	37,500	35.6	21
			1913-61			March 1913	20.3	-	-	-
3635	Flatrock River at St. Paul, Ind.....	298	1931-61	B3	10,100	Jan. 15, 1937	13.0	-	-	-
						Jan. 5, 1949	-	18,500	62.1	15
			1848-1961			March 1913	20.5	-	-	-
3640	East Fork White River at Columbus, Ind..	1,692	1913,1937, 1947-61	B4	27,000	March 1913	17.9	100,000	59.1	a 1.60

See footnotes at end of table.

Table 1.--Maximum stages and discharges of streams in Part 3-A--Continued

Station No.	Stream and place of determination	Drainage area (sq mi)	Period of known floods (water years)	Flood region and hydro-logic area	Areal Q2.33 (cfs)	Maximum stage and discharge: Date	Gage height (feet)	Discharge: Cfs	Cfs per sq mi	Recur-rence interval (years)
	Wabash River basin--Continued									
3645	Clifty Creek at Hartsville, Ind.....	88.8	1948-61	B3	4,200	Jan. 21, 1959	14.29	11,300	127	a 1.16
			1897-1961			Mar. 25, 1913	25.1	-	-	-
3650	Sand Creek near Brewersville, Ind.....	156	1948-61	B2	8,650	Jan. 21, 1959	21.70	19,900	128	50
3655	East Fork White River at Seymour, Ind...	2,333	1897-1961	B4	34,200	Mar. 26, 1913	o qq21.0	120,000	51.4	a 1.52
3660	Graham Creek near Vernon, Ind.....	77.6	1956-61	B1	7,200	June 23, 1960	21.37	18,600	240	a 1.12
3665	Muscatatuck River near Deputy, Ind.....	296	1921-61	B1	17,500	Jan. 21, 1959	33.1	52,200	176	a 1.29
3670	Muscatatuck River near Austin, Ind.....	365	1933-61	B2	16,000	Jan. 22, 1959	29.20	53,900	148	a 1.46
3680	Brush Creek near Nebraska, Ind.....	11.7	1956-61	B1	-	Jan. 21, 1959	10.30	2,730	233	-
3690	Vernon Fork near Butlerville, Ind.....	87.3	1942-61	B1	7,750	Jan. 21, 1959	25.41	26,200	300	a 1.46
3695	Vernon Fork at Vernon, Ind.....	201	1940-61	B1	13,500	Jan. 21, 1959	32.83	56,800	283	a 1.82
3715	East Fork White River near Bedford, Ind.	3,870	1913,1940-61	B4	49,000	March 1913	o 17.5	155,000	40.1	a 1.37
3720	North Fork Salt Creek near Belmont, Ind.	120	1946-61	B2	7,200	June 23, 1960	23.10	13,300	111	16
			1913,1946-61			March 1913	25.7	-	-	-
3725	Salt Creek near Harrodsburg, Ind.....	441	1956-61	B4	10,200	June 25, 1960	gg 32.76	22,000	49.9	35
3730	Salt Creek near Peerless, Ind.....	582	1937,1939-50, 1957-61	B4	12,500	May 10, 1961	35.33	25,100	43.1	24
3735	East Fork White River at Shoals, Ind....	4,954	1847-1961	B5	40,300	Mar. 28, 1913	42.2	160,000	32.3	a 1.72
3740	White River at Petersburg, Ind.....	11,319	1907-61	C5	73,000	Mar. 29, 1913	c 29.5	f 235,000	21.1	a 1.63
3755	Patoka River at Jasper, Ind.....	270	1913-61	B5	4,630	March 1913	t 15.9	16,000	62.3	a 1.50
3765	Patoka River near Princeton, Ind.....	815	1935-61	B6	7,100	Jan. 26, 1937	gg 26.80	18,700	22.9	a 1.14
3775	Wabash River at Mount Carmel, Ill.....	28,600	1875-1961	B5	144,000	Mar. 30, 1913	c 31.0	428,000	15.0	a 1.29
3780	Bonpas Creek at Browns, Ill.....	235	1941-61	B6	2,850	May 9, 1961	24.04	7,500	31.9	a 1.14
3786.5	Second Creek tributary at Keptown, Ill..	1.62	1956-61	A5	-	July 15, 1957	17.36	479	296	-
3795	Little Wabash River below Clay City, Ill.	1,130	1915-61	A5	13,700	Jan. 5, 1950	26.67	47,000	41.6	a 1.10
3796.5	Madden Creek near West Salem, Ill.....	1.54	1956-61	B5	-	May 8, 1961	17.78	1,550	1,010	-
3803	Dums Creek tributary near Iuka, Ill.....	.078	1956-61	B4	-	July 28, 1961	16.15	152	1,950	-
3804.5	White Feather Creek near Marlow, Ill....	.446	1956-61	B4	-	May 8, 1961	14.46	271	608	-
3805	Skillet Fork at Wayne City, Ill.....	475	1909-13,1915-21, 1929-61	B4	10,700	May 8, 1961	26.68	-	-	-
						May 9, 1961	-	51,000	107	a 2.06
3815	Little Wabash River at Carmi, Ill.....	3,090	1909-12,1937, 1940-61	B6	18,800	May 12, 1961	-	46,900	15.2	a 1.08
						May 13, 1961	36.70	-	-	-
	Saline River basin									
3820	Middle Fork Saline River near Harrisburg, Ill.	198	1924-26,1928-32	B5	3,870	Feb. 27, 1929	22.00	4,300	21.7	2.8
3825	Saline River near Junction, Ill.....	1,040	1940-61	B5	13,000	Mar. 17, 1945	b 44.03	-	-	-
						Mar. 19, 1945	-	37,400	36.0	a 1.25
			1937-61			February 1937	b 55.8	-	-	-
	Tradewater River basin									
3830	Tradewater River at Olney, Ky.....	hh 246	1937-61	B5	4,500	January 1937	19.27	17,000	69.1	a 1.63
3835	Tradewater River near Dalton, Ky.....	hh 274	1928-40	B5	4,880	Jan. 22, 1937	24.10	17,500	63.9	a 1.55
3840	Rose Creek at Nebo, Ky.....	2.10	1952-61	B5	-	Nov. 18, 1957	7.46	1,230	586	-

				Ohio River main stem						
3845	Ohio River at Golconda, Ill.....	143,900	1937-61	D-MS	700,000	Feb. 23, 1937	62.6	1,470,000	10.2	a1.33
				Bay Creek basin						
3850	Hayes Creek at Glendale, Ill.....	18.9	1950-61	B1	-	July 22, 1958	17.01	4,390	232	-
3855	Lake Glendale Inlet near Dixon Springs, Ill.	1.04	1955-61	C1	-	July 22, 1958	4.95	1,500	1,440	-
3860	Lake Glendale Outlet near Dixon Springs, Ill.	2.11	1955-61	C1	-	July 22, 1958	5.76	725	344	-
3865	Sugar Creek near Dixon Springs, Ill.....	9.70	1950-61	C1	-	July 22, 1958	9.10	1,870	193	-
				Ohio River main stem						
6110	Ohio River at Paducah, Ky.....	202,700	1867,1875-1961	-	-	Feb. 2, 1937	60.60	-	-	-
6115	Ohio River at Metropolis, Ill.....	203,000	1913,1928-61	-	-	Feb. 1, 1937	-	ss1,850,000	9.1	-
						Feb. 2, 1937	66.60	-	-	-
				Cache River basin						
6120	Cache River at Forman, Ill.....	243	1923-61	B5	4,490	Mar. 12, 1936	gg 17.99	9,630	39.6	33
6122	Q ditch tributary near Choat, Ill.....	.278	1956-61	C1	-	July 16, 1958	14.06	292	1,050	-

a Ratio of maximum discharge to that of 50-year flood.
b Affected by backwater.
c Present site and datum.
d Gage height, 15.5 ft, present datum.
e About.
f Estimated.
g At dam 1 mile downstream; computed by Mill Creek Park Association.
h Upper gage at present site.
i Site and datum used prior to Oct. 1, 1934.
j Computed by Corps of Engineers.
k At site used prior to Sept. 30, 1937.
m At Wills Creek dam site, 8 miles downstream; computed by Corps of Engineers.
n From gage reading by Corps of Engineers.
o From information by Corps of Engineers.
p Estimated by U.S. Weather Bureau; at former site and datum.
q Affected by cofferdam.
r Site and datum used by Weather Bureau prior to 1939.
s From U.S. Weather Bureau.
t At former site and datum.
u Computed by Franklin County Conservancy District.
v At Griggs Dam 9 miles downstream; computed by C. E. Sherman, Ohio State University.
w Mean of 2 estimates for station at Delaware, adjusted for difference in drainage area.
x Not comparable with gage heights at present site because of subsequent channel improvements and levee construction.
y Estimated by Franklin County Conservancy District.
z Present datum.
aa Computed by Miami Conservancy District.
bb Computed by Miami Conservancy District for site above Turtle Creek, drainage area 208 sq mi.
cc At site 1¾ miles upstream at different datum.
dd At site with drainage area of 213 sq mi.
ee Not comparable with present gage heights because of levee failure.
ff Computed by Miami Conservancy District for site at Sugar Grove, drainage area, 448 sq mi.
gg Site and datum then in use.
hh Surface drainage only; does not include noncontributing area.
ii Present site.
jj Site and datum used 1939-50.
kk At former site. From information by Corps of Engineers.
mm From information by Indiana Flood Control and Water Resources Commission.
nn Maximum daily discharge.
oo 172 sq mi prior to June 5, 1954.
pp Site and datum in use 1916-22.
qq From information by State Highway Department of Indiana.
rr At site used July 1, 1925, to Mar. 31, 1932. From information by State Highway Department of Indiana.
ss Includes overflow through Bay Creek and Cache River Valleys.

Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
							Discharge		
	Latitude	Longitude				Date	Cfs	Cfs per sq mi	Recurrence interval (years)
Unnamed stream basin									
Unnamed stream near Coudersport, Pa.	(a)	(a)	A5	0.82	-	July 18, 1942	190	232	-
Ohio River main stem									
Allegheny River above Roulette, Pa.	41°47'	78°08'	A5	114	2,600	July 18, 1942	25,000	219	*3.07
Laninger Creek basin									
Laninger Creek near Roulette, Pa.	41°44'20"	78°09'55"	A5	0.45	-	July 18, 1942	850	1,890	-
Sartwell Creek basin									
Sartwell Creek near Burtville, Pa.	(a)	(a)	A5	9.86	-	July 18, 1942	11,000	1,120	-
Unnamed stream near Burtville, Pa.	(b)	(b)	A5	.094	-	July 18, 1942	310	3,300	-
Dexter Run basin									
Dexter Run near Burtville, Pa.	41°47'	78°13'	A5	0.83	-	July 18, 1942	840	1,010	-
Lillibridge Creek basin									
Lillibridge Creek near Port Allegany, Pa.	41°49'01"	78°16'16"	A5	6.59	-	July 18, 1942	15,000	2,280	-
Lillibridge Creek near Port Allegany, Pa.	41°48'59"	78°16'20"	A5	6.73	-	July 18, 1942	16,000	2,380	-
Ohio River main stem									
Allegheny River at Port Allegany, Pa.	41°48'27"	78°17'18"	A5	249	4,540	July 18, 1942	77,000	309	*5.43
Unnamed stream basin									
Unnamed stream at Port Allegany, Pa.	41°49'20"	78°17'20"	A5	0.39	-	July 18, 1942	1,400	3,590	-
Twomile Creek basin									
Twomile Creek near Port Allegany, Pa.	41°49'58"	78°17'47"	A5	7.06	-	July 18, 1942	15,000	2,120	-
Unnamed stream near Port Allegany, Pa.	(c)	(c)	A5	.032	-	July 18, 1942	200	6,250	-
Unnamed stream near Port Allegany, Pa.	(c)	(c)	A5	.052	-	July 18, 1942	640	12,300	-
Unnamed stream near Port Allegany, Pa.	(c)	(c)	A5	.087	-	July 18, 1942	400	4,600	-
Annin Creek basin									
Annin Creek near Turtlepoint, Pa.	(a)	(a)	A5	11.4	-	July 18, 1942	24,000	2,100	-
Open Brook basin									
East Branch Open Brook near Smethport, Pa.	41°49'58"	78°21'30"	A5	0.322	-	July 18, 1942	410	1,270	-
Newell Creek basin									
Newell Creek near Larabee, Pa.	41°55'56"	78°18'45"	A5	2.14	-	July 18, 1942	5,200	2,430	-
Potato Creek basin									
Marvin Creek near Hazelhurst, Pa.	41°42'39"	78°34'14"	A5	5.82	-	July 18, 1942	2,200	378	-
Sherman Run at Hazelhurst, Pa.	(d)	(d)	A5	.242	-	July 18, 1942	70	289	-

Blacksmith Run near Smethport, Pa.	(d)	(d)	A5	2.03	-	July 18, 1942	590	291	-
Ice Pond Brook at Smethport, Pa.	41°49'12"	78°27'28"	A5	.556	-	July 18, 1942	140	252	-
Kent Run near Farmers Valley, Pa.	41°52'	78°23'	A5	1.35	-	July 18, 1942	2,000	1,480	-
Ohio River main stem									
Allegheny River at Bullis Mills, Pa.	41°59'16"	78°21'20"	A5	608	8,750	July 19, 1942	52,000	86	*1.90
Dodge Creek basin									
Unnamed Creek near West Clarksville, N.Y.	42°08'53"	78°14'40"	A4	1.41	-	Aug. 1, 1950	1,110	787	-
Olean Creek basin									
Griffin Creek near Cuba, N.Y.	42°11'02"	78°15'36"	A4	3.82	-	Aug. 1, 1950	1,730	453	-
Olean Creek at Olean, N.Y.	42°05'21"	78°25'44"	A4	204	5,820	Mar. 29, 1950	16,100	78.9	35
Ninemile Creek basin									
Ninemile Creek at Vandalia, N.Y.	42°06'15"	78°34'50"	A4	8.87	-	May 28, 1948	1,820	205	-
Tenmile Creek basin									
Tenmile Creek near Vandalia, N.Y.	42°05'44"	78°36'00"	A4	2.72	-	May 28, 1948	1,540	566	-
Tunungwant Creek basin									
Marilla Brook near Bradford, Pa.	41°57'12"	78°44'22"	A4	4.73	-	July 18, 1942	640	135	-
Windfall Creek basin									
East Branch Windfall Creek near Carrollton, N.Y.	42°07'15"	78°38'20"	A4	3.32	-	May 28, 1948	1,120	337	-
Sawmill Run basin									
Sawmill Run at Onoville, N.Y.	42°01'30"	78°57'42"	B4	15.0	-	June 21, 1953	1,700	113	-
Conewango Creek basin									
Clear Creek near Ellington, N.Y.	42°14'33"	79°08'05"	B5	14.4	-	Oct. 15, 1954	1,750	122	-
Twentyeighth Creek near Ellington, N.Y.	42°12'15"	79°09'43"	B5	2.06	-	May 26, 1953	621	301	-
Indian Brook near Kennedy, N.Y.	42°10'30"	79°06'00"	B5	3.53	-	May 26, 1953	1,000	283	-
Dry Brook at Poland Center, near Kennedy, N.Y.	42°08'01"	79°07'42"	B5	7.00	-	May 26, 1953	1,230	176	-
Mill Creek at Sinclairville, N.Y.	42°15'40"	79°15'49"	B5	18.2	-	Oct. 15, 1954	2,740	151	-
Folsom Creek near Gerry, N.Y.	42°10'05"	79°12'55"	B5	5.56	-	May 26, 1953	891	160	-
Frews Run near Fentonville, N.Y.	42°01'45	79°06'35"	B4	2.62	-	Oct. 15, 1954	640	244	-
Storehouse Run at Coultown, Pa.	41°59'30"	79°05'45"	B4	3.83	-	June 21, 1953	1,790	467	-
Brokenstraw Creek basin									
Brokenstraw Creek at Columbus, Pa.	41°56'27"	79°34'54"	B4	51.0	2,110	Apr. 5, 1947	4,400	86.3	29
French Creek basin									
French Creek at Sherman, N.Y.	-	-	B4	14.0	-	Apr. 5, 1947	2,500	179	-
French Creek near Venango, Pa.	41°47'	80°06'	B4	597	12,600	Apr. 6, 1947	21,000	35.2	10
French Creek at Meadville, Pa.	41°37'57"	80°09'40"	B4	797	15,600	Apr. 6, 1947	27,300	34.3	12
Chubb Run at Franklin, Pa.	41°23'25"	79°50'25"	B4	.75	-	July 15, 1958	258	344	-

* Ratio of discharge to that of 50-year flood.
a Latitude and longitude not available; stream is tributary to Allegheny River.
b Latitude and longitude not available; stream is tributary to Sartwell Creek.
c Latitude and longitude not available; stream is tributary to Twomile Creek.
d Latitude and longitude not available; stream is tributary to Marvin Creek.

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Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
							Discharge		
	Latitude	Longitude				Date	Cfs	Cfs per sq mi	Recurrence interval (years)
Sandy Creek basin									
Little Sandy Creek at Polk, Pa.	41°22'50"	79°55'18"	B4	17.8	-	July 15, 1958	4,330	243	-
Clarion River basin									
East Branch Clarion River at Instanter, Pa.	41°36'18"	78°33'20"	A3	22.4	-	July 18, 1942	9,500	424	-
Fivemile Run near Rasselas, Pa.	41°38'	78°34'	A3	6.20	-	July 18, 1942	1,900	306	-
South Fork Straight Creek near Instanter, Pa.	41°35'	78°33'	A3	8.41	-	July 18, 1942	5,300	630	-
Straight Creek near Instanter, Pa.	41°35'	78°34'	A3	21.2	-	July 18, 1942	15,000	708	-
Johnson Run at Ketner Dam, Pa.	41°32'52"	78°37'40"	A3	7.78	-	July 18, 1942	2,500	321	-
East Branch Clarion River near Johnsonburg, Pa.	41°30'	78°40'	A3	102	4,700	July 18, 1942	25,000	245	*1.70
East Branch Clarion River near Johnsonburg, Pa.	41°30'	78°40'	A3	106	4,800	July 18, 1942	29,000	274	*1.93
Windfall Run at Halsey Dam, Pa.	41°40'25"	78°40'17"	A4	1.61	-	July 18, 1942	410	255	-
Mill Creek at Ridgway, Pa.	41°25'31"	78°46'38"	A3	28.4	-	Mar. 18, 1936	5,650	199	-
Redbank Creek basin									
Redbank Creek at Mayport, Pa.	41°02'00"	79°15'05"	B4	458	10,400	Mar. 17, 1936	30,500	66.6	*1.27
Kiskiminetas River basin									
Solomons Creek near Johnstown, Pa.	40°18'	78°55'	B2	8.5	-	Aug. 2, 1931	2,020	238	-
North Branch Little Conemaugh River near Wilmore, Pa.	40°24'32"	78°41'26"	B3	24.5	-	Mar. 17, 1946	5,580	228	-
South Fork Little Conemaugh River near Johnstown, Pa.	40°20'53"	78°46'32"	B3	48.6	2,710	May 1889	10,000	206	*1.60
Little Conemaugh River near Mineral Point, Pa.	40°22'45"	78°50'10"	B3	160	6,480	Mar. 18, 1946	22,400	140	*1.50
Conemaugh River near New Florence, Pa.	40°23'09"	79°04'29"	B2	748	27,000	Mar. 18, 1936	91,000	122	*1.47
Yellow Creek near Homer City, Pa.	40°33'08"	79°09'07"	B3	65.2	3,370	Mar.17,18,1936	6,000	92.0	13
Cherry Run near Homer City, Pa.	40°32'29"	79°10'50"	B3	11.7	-	Mar.17,18,1936	2,660	227	-
Girtys Run basin									
Girtys Run at Millvale, Pa.	40°28'40"	79°58'03"	B3	13.3	-	July 5, 1950	6,900	519	-
Monongahela River basin									
Tenmile Creek at Marianna, Pa.	40°01'10"	80°06'22"	B3	99.3	4,600	June 4,5,1941	7,800	78.5	11
Wisecarver Run near Waynesburg, Pa.	39°54'16"	80°12'41"	B3	3.91	-	June 4,5,1941	827	212	-
Ruff Creek at Grimes, Pa.	39°56'	80°07'	B3	21.1	-	June 4,5,1941	8,900	422	-
Ruff Creek at Lippincott School, Pa.	39°56'15"	80°07'00"	B3	23.8	-	June 4,5,1941	9,490	399	-
Unnamed stream in Morgan Township, Pa.	-	-	B3	.41	-	July 1940	298	727	-
Castile Run at Old Castile School, Pa.	39°59'	80°07'	B3	1.76	-	June 4,5,1941	2,320	1,320	-
Castile Run at Riggle Farm, Pa.	39°58'	80°06'	B3	4.25	-	June 4,5,1941	10,000	2,350	-
Twomile Run near West Brownsville, Pa.	(e)	(e)	B3	2.68	-	June 4,5,1941	3,650	1,360	-
Unnamed stream in East Pike Run Township, Pa.	(e)	(e)	B3	.17	-	June 4,5,1941	286	1,680	-
Fans Run at Manallen, Pa.	39°57'	79°46'	B3	1.5		1911	415	277	-
Allen Run near Smock, Pa.	40°00'13"	79°45'40"	B3	3.17	-	June 4,5,1941	3,070	968	-
Crabapple Run at Spillway Lake, Pa.	40°01'46"	79°46'12"	B3	1.33	-	June 4,5,1941	860	647	-

Washwater Run near Grindstone, Pa.	40°01'	79°49'	B3	1.58	-	June 1941	1,320	835	-
Colvin Run at Grindstone, Pa.	40°01'	79"50'	B3	2.68	-	June 4,5,1941	2,000	746	-
Redstone Creek at Braznell, Pa.	40°01'30"	79°50'30"	B3	105	4,800	June 4,5,1941	12,800	122	*1.16
Pike Run at Daisytown, Pa.	(e)	(e)	B3	20.1	-	June 4,5,1941	7,710	384	-
Pike Run near Coal Center, Pa.	(e)	(e)	B3	20.7	-	June 4,5,1941	7,860	380	-
North Branch Little Redstone Creek in Jefferson Township, Pa.	(f)	(f)	B3	.28	-	June 4,5,1941	154	550	-
Casselman River near Rockwood, Pa.	39°55'	79°10'	B3	341	11,100	Mar. 17, 1936	32,000	93.8	*1.25
Dunbar Creek at Dunbar, Pa.	39°58'	79°36'	A3	24	-	July 24, 1912	5,420	226	-
Branch of Washington Run at Star Junction, Pa.	40°03'29"	79°45'22"	B3	.65	-	June 4,5,1941	730	1,120	-
Branch of Washington Run at Star Junction, Pa.	40°03'38"	79°45'29"	B3	1.02	-	June 4,5,1941	620	608	-
Sewickley Creek in Mount Pleasant Township, Pa.	(g)	(g)	B3	5.4	-	August 1906	1,720	318	-
Long Run near McKeesport, Pa.	40°20'16"	79°48'31"	B3	11.2	-	June 25, 1950	1,600	143	-
Turtle Creek at Export, Pa.	40°24'57"	79°37'20"	B3	5.21	-	Aug. 28, 1959	2,350	451	-
Turtle Creek at Trafford, Pa.	40°23'20"	79°45'05"	B3	54.8	2,980	Oct. 15, 1954	7,360	134	*1.07
Fall Hollow Run at East Pittsburgh, Pa.	40°24'	79°50'	B3	2.2		June 1917	748	340	-
Streets Run at Hays, Pa.	40°23'07"	79°55'55"	B3	8.36	-	May 5, 1950	1,400	167	-
Glass Run at Hays, Pa.	40°23'23"	79°56'20"	B3	1.38	-	June 25, 1950	570	413	-
Sawmill Run basin									
Sawmill Run at Pittsburgh, Pa.	40°22'48"	80°00'00"	B4	6.06	-	May 5, 1950	850	140	-
						June 25, 1950	1,100	182	-
Sawmill Run at Pittsburgh, Pa.	40°24'38"	80°00'23"	B4	11.4	-	May 5, 1950	1,400	123	-
						June 25, 1950	1,500	132	-
Chartiers Creek basin									
Millers Run tributary at Sygan, Pa.	40°22'	80"08'	B4	1.30	-	June 16, 1954	2,500	1,920	-
Thom Run at Presto, Pa.	40°22'	80°07'	B4	2.72	-	June 16, 1954	2,070	761	-
Lawrie Run basin									
Lawrie Run at Emsworth, Pa.	40°30'46"	80°05'34"	B4	15.4	-	July 5, 1950	4,800	312	-
Montour Run basin									
Montour Run near Coraopolis, Pa.	40°28'00"	80°09'23"	B4	29.4	-	July 5, 1950	4,500	153	-
Flaugherty Run basin									
Flaugherty Run at Glenwillard, Pa.	40°33'08"	80°13'09"	B4	8.18	-	July 5, 1950	3,500	428	-
Beaver River basin									
Crab Creek near Youngstown, Ohio	41°08'45"	80°37'20"	B4	7.15	-	Jan. 21, 1959	1,170	164	-
Crab Creek at Youngstown, Ohio	41°07'15"	80°38'10"	B4	15.9	-	Jan. 21, 1959	2,140	135	-
Neshannock Creek at Eastbrook Station, Pa.	41°02'30"	80°18'20"	B4	228	6,320	May 28, 1946	10,000	44	8
Neshannock Creek at New Castle, Pa.	40°59'56"	80°20'43"	B4	240	6,550	Oct. 1, 1911	24,000	100	*1.59
Raccoon Creek basin									
St. Patrick Run near McDonald, Pa.	40°25'22"	80°20'11"	B4	4.6	-	July 24, 1912	1,500	326	
Buffalo Creek basin									
Unnamed stream at Crothers, Pa.	40°09'	80°21'	B4	11.8	-	July 28, 1943	6,200	525	-
Buffalo Creek near Taylorstown, Pa.	40°09'	80°22'	B4	33.8	1,580	July 28, 1943	10,000	296	*2.75

* Ratio of discharge to that of 50-year flood.
e Latitude and longitude not available; stream is tributary to Monongahela River.
f Latitude and longitude not available; stream is tributary to Little Redstone Creek.
g Latitude and longitude not available; stream is tributary to Youghiogheny River.

Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
						Date	Discharge		
	Latitude	Longitude					Cfs	Cfs per sq mi	Recurrence interval (years)
Wheeling Creek basin									
Wheeling Creek at Laferty, Ohio	40°06'35"	81°01'20"	B4	12.0	-	Apr. 13, 1949	5,740	478	-
Unnamed stream near Laferty, Ohio	40°06'40"	80°59'45"	B4	1.40	-	Apr. 13, 1949	300	214	-
Wheeling Creek near Bannock, Ohio	40°06'50"	80°57'40"	B4	25.4	-	Apr. 13, 1949	5,030	198	-
Muskingum River basin									
Chippewa Creek at Easton, Ohio	40°56'45"	81°44'35"	B6	146	2,010	Jan. 21, 1959	10,100	69.2	*2.18
Black Fork at Shelby, Ohio	40°54'05"	82"39'25"	B4	32.6	1,520	Jan. 15, 1950	5,270	162	*1.51
Clear Fork at Newville, Ohio	40°37'48"	82°23'02"	B4	175	5,200	July 4, 1935	11,700	66.9	43
Kokosing River at Chesterville, Ohio	40°28'27"	82°41'06"	A4	38.1	1,710	Apr.11,12,1948	3,380	88.7	13
						Jan. 21, 1959	9,620	252	*1.80
North Branch Kokosing River at Fredericktown, Ohio.	40°29'32"	82°32'44"	A4	49.0	2,060	Apr.11,12,1948	15,600	318	*2.42
East Branch of North Branch Kokosing River at Knox Lake Dam, Ohio.	40°29'45"	82°31'40"	A4	30.3	1,450	Jan. 22, 1959	h 3,450	h 114	23
Dry Creek near Bangs, Ohio	40°20'50"	82°34'10"	A4	21.7	-	Jan. 21, 1959	5,810	268	-
Coleman Branch at Amity, Ohio	40°28'08"	82°22'54"	A4	2.08	-	Sept.12, 1947	1,470	707	-
North Fork Ireland Creek near Jelloway, Ohio	40°30'58"	82°19'33"	A4	1.08	-	Sept.12, 1947	1,810	1,680	-
Little Jelloway Creek near Amity, Ohio	40°29'23"	82°21'14"	A4	8.44	-	Sept.12, 1947	3,480	412	-
Little Jelloway Creek at Howard, Ohio	40°24'47"	82°19'26"	A4	21.6	-	Sept.12, 1947	2,630	122	-
Unnamed Creek "C" near Burbank, Ohio	40°59'13"	81°57'44"	B6	2.27	-	June 16, 1946	2,050	903	-
Unnamed Creek "G" near Wooster, Ohio	40°45'30"	81°55'54"	A6	.89	-	June 16, 1946	800	899	-
Unnamed Creek "H" near Wooster, Ohio	40°44'45"	81°55'51"	A6	.92	-	June 16, 1946	1,880	2,040	-
Unnamed Creek "J" near Wooster, Ohio	40°44'16"	81°56'14"	A6	.33	-	June 16, 1946	1,000	3,030	-
North Branch Salt Creek near Fredericksburg, Ohio..	40°42'42"	81°52'21"	A6	4.10	-	June 16, 1946	4,180	1,020	-
Unnamed Creek "F" near Fredericksburg, Ohio	40°42'48"	81°53'34"	A6	1.28	-	June 16, 1946	3,630	2,840	-
North Branch Salt Creek at Fredericksburg, Ohio	40°41'25"	81°52'00"	A6	8.45	-	June 16, 1946	4,000	473	-
Unnamed Creek "E" near Fredericksburg, Ohio	40°42'28"	81°53"23"	A6	.28	-	June 16, 1946	765	2,730	-
Unnamed Creek "K" at Charm, Ohio	40°30'27"	81°47'16"	A6	1.91	-	June 16, 1946	3,130	1,640	-
Mill Creek near Coshocton (ARS 297), Ohio	40°24'45"	81°49'55"	A5	10.8	-	June 16, 1946	6,420	594	-
Little Mill Creek near Coshocton (ARS 93), Ohio	40°23'50"	81°48'05"	A5	1.70	-	Aug. 7, 1935	i 5,420	3,190	-
Wakatomika Creek at Bladenburg, Ohio	40°17'05"	82°16'45"	A4	33.3	1,550	July 8, 1956	10,800	324	*2.23
Raccoon Creek at Newark, Ohio	40°02'55"	82°24'40"	A4	104	3,580	Jan. 21, 1959	10,400	100	40
North Fork Licking River at Newark, Ohio	40°03'30"	82°23'50"	A4	239	6,550	Jan. 22, 1959	29,800	125	*1.45
Rocky Fork near Martinsburg, Ohio	40°16'15"	82°23'10"	A4	1.40	-	July 8, 1956	2,730	1,950	-
Rocky Fork tributary near Martinsburg, Ohio	40°14'50"	82°21'35"	A4	1.17	-	July 8, 1956	2,850	2,440	-
Rocky Fork near Purity, Ohio	40°12'20"	82°19'00"	A4	24.0	-	July 8, 1956	7,850	327	-
Moxahala Creek near New Lexington, Ohio	39°42'10"	82°06'55"	A4	23.9	-	June 16, 1950	2,730	114	-
Unnamed Creek at Sayre, Ohio	39°41'10"	82°03'30"	A4	1.92	-	June 16, 1950	1,250	651	-
Unnamed Creek at Misco Dam near Deavertown, Ohio...	39°43'25"	82°02'45"	A4	7.19	-	June 17, 1950	6,800	946	-
Burley Run at Crooksville, Ohio	39°46'25"	82°06'45"	A4	1.81	-	June 16, 1950	1,100	608	-
Moxahala Creek at Roberts, Ohio	39°51'20"	82°03'25"	A4	98.0	3,400	June 17, 1950	10,900	111	55
Buckeye Fork at Saltillo, Ohio	39°48'05"	82°08'15"	A4	8.02	-	June 16, 1950	4,650	580	-
Jonathan Creek at White Cottage, Ohio	39°52'10"	82°05'55"	A4	161	4,900	June 16,17,1950	9,350	58.1	12

Hocking River basin									
Unnamed Creek at Clarksburg School, Ohio.....	39°41'20"	82°36'40"	A4	0.55	-	July 21,22,1948	910	1,650	-
Camp Wyandot Creek near Rockbridge, Ohio.....	39°35'10"	82°34'30"	A4	.61	-	July 21,22,1948	712	1,170	-
Enterprise Creek near Enterprise, Ohio.....	39°35'16"	82°29'00"	A5	2.42	-	Aug.7,8, 1947	3,120	1,290	-
Wildcat Hollow Creek near Gibisonville, Ohio.....	39°31'46"	82°31'21"	A5	1.07	-	Aug.7,8, 1947	1,900	1,780	-
Duck Creek in Pleasant Valley, Ohio.....	39°30'23"	82°30'17"	A5	.78	-	Aug.7,8, 1947	2,980	3,820	-
Unnamed Creek in Pleasant Valley near Gibisonville, Ohio.	39°31'53"	82°30'05"	A5	.63	-	Aug.7,8, 1947	1,040	1,650	-
Unnamed Creek "B" at Athens, Ohio.....	39°18'45"	82°06'15"	A5	1.98	-	May 26, 1946	1,300	657	-
Kanawha River basin									
Middle Fork South Fork New River near Aho (formerly "about 3.3 miles below Blowing Rock"), N.C.	36°09'48"	81°38'37"	A4	8.14	-	Aug. 13, 1940	5,100	627	-
Howard Creek near Sands (formerly "near mouth, near Boone"), N.C.	36°14'35"	81°39'05"	A4	11.2	-	Aug. 13, 1940	7,000	625	-
Rittle Creek near Sands (formerly "at mouth, near Boone"), N.C.	36°17'	81°39'	A4	3.50	-	Aug. 13, 1940	1,900	543	-
Horse Creek at Brandon (formerly "near Norfolk and Western Railroad trestle, near Tuckerdale"), N.C.	36°31'12"	81°31'12"	A4	31.0	1,480	Aug. 13, 1940	8,100	261	*1.75
Horse Creek at Lansing, N.C.....	36°29'35"	81°30'15"	A4	56.4	2,280	Aug. 13, 1940	18,000	319	*2.52
Campbell's Creek at Amherst, W. Va.....	38°18'40"	81°32'50"	B3	36.9	2,220	July 19,20,1961	10,000	271	*1.96
Magazine Branch at Charleston, W. Va.....	38°22'05"	81°37'35"	B2	1.42	-	July 19,20,1961	1,320	930	-
Twomile Creek (Kanawha Twomile) at Charleston, W. Va.	38°23'55"	81°39'25"	B4	19.6	-	July 19,20,1961	17,700	903	-
Sugar Creek at Charleston, W. Va.....	38°23'10"	81°38'45"	B4	1.12	-	July 19,20,1961	2,150	1,920	-
Federal Creek basin									
Federal Creek at Miller, Ohio.....	38°32'28"	82°18'24"	B5	3.82	-	July 7,8,1947	2,280	597	-
Big Sandy River basin									
Russell Prater Creek at Haysi, Va.....	37°12'30"	82°17'10"	A2	25.4	-	July 31, 1961	7,180	283	-
Barts Lick Creek near Haysi, Va.....	37°14'35"	82°18'45"	A4	10.7	-	July 31, 1961	4,020	376	-
Pound River at Pound, Va.....	37°07'30"	82°36'05"	A2	61	-	Jan. 29, 1957	15,300	251	-
Upper Laurel Creek at Redbush, Ky.....	37°56'26"	82°57'05"	B4	4.21	-	July 30, 1961	5,830	1,380	-
Ice Creek basin									
Ice Creek near Rock Camp, Ohio.....	38°32'18"	82°31'54"	B5	3.10	-	June 7,8,1947	1,930	623	-
Storms Creek basin									
Paddle Fork near Vesuvius Furnace, Ohio.....	38°36'25"	82°35'11"	B5	1.90	-	June 7,8,1947	1,270	668	-
Storms Creek at Vesuvius Lake State Park, Ohio.....	38°36'23"	82°37'50"	B5	11.0	-	June 7,8,1947	2,330	212	-
Tygarts Creek basin									
Perry Branch near Olive Hill, Ky.....	38°18'	83°12'	B4	1.92	-	May 30, 1950	4,800	2,500	-
Trough Camp Creek near Olive Hill, Ky.....	38°19'49"	83°12'35"	B4	1.12	-	May 30, 1950	2,300	2,050	-

* Ratio of discharge to that of 50-year flood.
h Affected by storage.
1 Data furnished by Agricultural Research Service.

Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
						Date	Discharge		
	Latitude	Longitude					Cfs	Cfs per sq mi	Recurrence interval (years)
Scioto River basin									
South Branch French Run at Reynoldsburg, Ohio.....	39°57'20"	82°47'40"	A3	2.50	-	June 22, 1956	1,990	796	-
Blacklick Creek tributary near Reynoldsburg, Ohio..	39°55'20"	82°47'00"	A3	2.71	-	June 22, 1956	3,670	1,350	-
Blacklick Creek near Brice, Ohio.....	39°54'25"	82°49'00"	A3	51.9	2,880	June 22, 1956	12,300	237	*1.36
Scioto River at Foraker, Ohio.....	40°41'05"	83°43'45"	B5	102	2,360	Jan. 21, 1959	4,420	43.3	17
Blacklick Creek near Groveport, Ohio.....	39°53'25"	82°51'50"	A3	58.5	3,120	Jan. 21, 1959	10,300	176	*1.05
Howald Brook near Westerville, Ohio.....	40°09'20"	82°57'25"	B4	.42	-	June 7, 1961	350	833	-
Sycamore Creek near Pickerington, Ohio.....	39°54'25"	82°42'20"	A3	8.16	-	June 22, 1956	3,170	388	-
Hargus Creek at Circleville, Ohio.....	39°35'46"	82°55'20"	B3	10.3	-	July 14, 1947	2,770	269	-
Hargus Creek at Circleville, Ohio.....	39°36'30"	82°56'47"	B3	20.0	-	July 14, 1947	3,800	190	-
Rocky Fork near Hillsboro, Ohio.....	39°10'35"	83°37'10"	B3	16.1	-	July 21, 1954	6,520	405	-
Clear Creek tributary at Clear Creek School near Hillsboro, Ohio.	39°14'40"	83°36'00"	B3	.74	-	July 21, 1954	h 485	h 655	-
Clear Creek tributary at Valley View Farm near Hillsboro, Ohio.	39°14'30"	83°34'40"	B3	3.60	-	July 21, 1954	2,520	700	-
Unnamed Creek "A" near Chillicothe, Ohio.....	39°18'05"	83°00'35"	A3	.73	-	May 26, 1946	270	370	-
Anderson Run at Shiloh School, Ohio.....	39°23'09"	83°07'00"	A3	1.50	-	Aug. 21, 1947	1,490	993	-
Anderson Run at Maple Grove, Ohio.....	39°23'03"	83°06'00"	A3	3.00	-	Aug. 21, 1947	2,940	980	-
Anderson Run at Anderson, Ohio.....	39°21'39"	83°05'02"	A3	5.86	-	Aug. 21, 1947	3,820	652	-
England Hollow Run at Renick, Ohio.....	39°18'17"	82°57'39"	A3	.78	-	Aug. 21, 1947	1,900	2,440	-
Rocky Branch near Gibisonville, Ohio.....	39°28'12"	82°31'48"	B3	2.47	-	Aug.7,8, 1947	2,190	887	-
Pike Run at Tar Hollow State Park, Ohio.....	39°22'57"	82°43'39"	B3	2.65	-	Aug. 21, 1947	732	276	-
Little Salt Creek tributary at Kansas School, Ohio.	39°01'56"	82°35'47"	B3	2.30	-	Sept. 5, 1947	744	323	-
Buffalo Creek at Buffalo, Ohio.....	39°05'10"	82°39'16"	B3	.73	-	Sept. 5, 1947	398	545	-
Bailey Run near Lynx, Ohio.....	38°46'34"	83°23'23"	C1	1.14	-	June 7,8,1947	1,250	1,100	-
Churn Creek near Blue Creek, Ohio.....	38°44'09"	83°18'21"	B3	4.68	-	June 7,8,1947	2,980	637	-
Blue Creek above Blue Creek, Ohio.....	38°44'37"	83°21'18"	C1	2.34	-	June 7,8,1947	1,530	654	-
Rocky Fork near Blue Creek, Ohio.....	38°45'00"	83°15'54"	B3	3.10	-	June 7,8,1947	1,630	526	-
Turkey Creek basin									
Mackletree Run above Roosevelt Lake, Ohio.....	38°43'15"	83°11'05"	B3	5.62	-	July 3, 1960	2,010	358	-
Turkey Creek at Roosevelt Lake, Ohio.....	38°43'33"	83°10'24"	B3	16.4	-	June 7,8,1947	4,720	288	-
						Feb. 15, 1948	1,810	110	-
Upper Twin Creek basin									
Upper Twin Creek near McGaw, Ohio.....	38°39'48"	83°14'22"	C1	4.76	-	June 7,8,1947	1,890	397	-
Upper Twin Creek near Buena Vista, Ohio.....	38°38'15"	83°13'30"	C1	12.7	-	July 3, 1960	7,230	569	-
Long Lick Run basin									
Long Lick Run near Stout, Ohio.....	38°39'15"	83°20'55"	C1	3.27	-	July 3, 1960	3,320	1,020	-
Whiteoak Creek basin									
Moore Run near West Union, Ohio.....	38°44'20"	83°32'15"	C1	2.00	-	June 19, 1946	560	280	-

Island Creek basin									
Island Creek near Manchester, Ohio	38°43'25"	83°34'30"	C2	2.28	-	June 19, 1946	1,600	702	-
Isaacs Creek basin									
Isaacs Creek near Manchester, Ohio	38°42'55"	83°36'05"	C2	2.47	-	June 19, 1946	834	338	-
Locust Creek basin									
Big Run near Brooksville, Ky	38°45'13"	84°07'22"	C2	4.99	-	May 13, 1955	9,420	1,890	-
Little Miami River basin									
Yellow Springs Creek at Yellow Springs, Ohio	39°48'45"	83°53'15"	B4	4.30		June 8, 1954	2,130	495	-
Birch Creek in Glen Helen at Yellow Springs, Ohio	39°48'15"	83°52'45"	B4	4.67	-	June 8, 1954	5,400	1,160	-
Caesar Creek near Xenia, Ohio	39°37'25"	83°53'40"	B3	66.8	3,450	Jan. 21, 1959	10,600	159	*1.33
Anderson Fork near Lumberton, Ohio	39°32'35"	83°51'00"	B3	58.0	3,100	Jan. 21, 1959	7,600	131	*1.07
Licking River basin									
Rockhouse Creek near White Oak, Ky	37°51'14"	83°09'28"	B4	13.0	-	July 30, 1961	11,500	885	-
Fannins Fork at Crockett, Ky	37°59'05"	83°05'37"	B4	2.65	-	July 30, 1961	4,100	1,550	-
Elk Fork near West Liberty, Ky	37°56'52"	83°12'57"	B4	59.4	2,370	July 30, 1961	22,200	374	*4.07
North Fork Licking River at Wrigley, Ky	38°00'41"	83°15'39"	B4	5.02	-	July 30, 1961	10,000	1,990	-
Triplett Creek at Hayes, Ky	38°14'34"	83°20'33"	B1	3.5	-	July 5, 1939	1,310	374	-
Christy Creek near Morehead, Ky	38°11'10"	83°19'45"	B1	11.5	-	July 5, 1939	12,200	1,060	-
Triplett Creek at Bluestone, Ky	38°08'55"	83°30'15"	B1	74.4	7,000	July 5, 1939	72,300	972	*4.48
Miami River basin									
Miami River above Tawawa Creek, Ohio	40°17'55"	84°08'35"	B5	498	7,550	March 1913	j 34,100	68.5	*1.97
Tawawa Creek near Sidney, Ohio	40°17'15"	84°06'55"	B5	54	1,490	March 1913	j 12,900	239	*3.77
Miami River above Lockington, Ohio	40°13'55"	84°11'40"	B5	575	8,350	March 1913	j 48,500	84.3	*2.53
Loramie Creek above Turtle Creek, Ohio	40°14'55"	84°16'05"	B5	208	4,000	March 1913	j 25,600	123	*2.78
Turtle Creek near Lockington, Ohio	40°15'00"	84°15'00"	B5	35	-	March 1913	j 6,130	175	-
Miami River below Piqua, Ohio	40°06'45"	84°14'00"	B5	842	11,100	March 1913	j 70,000	83.1	*2.74
Spring Creek near Troy, Ohio	40°04'35"	84°11'20"	B5	27	-	March 1913	j 5,660	210	-
Lost Creek near Troy, Ohio	40°01'40"	84°08'25"	B5	52	1,450	March 1913	j 29,700	571	*8.91
Lost Creek near Troy, Ohio	40°01'05"	84°09'25"	B5	55.3	1,510	Jan. 21, 1959	j 5,650	102	*1.63
West Fork Honey Creek near New Carlisle (stop 7), Ohio.	39°57'55"	84°00'50"	B5	21.5	-	July 1918	j 3,810	177	-
East Fork Honey Creek near New Carlisle (stop 13), Ohio.	40°00'30"	83°59'20"	B5	5.1	-	July 1918	354	69.4	-
East Fork Honey Creek near New Carlisle, Ohio	-	-	B5	6.7	-	July 1918	k 14,800	2,210	-
East Fork Honey Creek near New Carlisle (stop 6), Ohio.	39°57'30"	84°00'05"	B5	11.8	-	July 1918	m 15,100	1,280	-
Stillwater River above Greenville Creek, Ohio	40°07'30"	84°21'40"	B5	223	4,200	March 1913	j 33,100	148	*3.43
Ludlow Creek above Ludlow Falls, Ohio	39°59'40"	84°20'40"	B4	65	2,510	March 1913	j 17,300	266	*3.00
Stillwater River near West Milton, Ohio	39°59'45"	84°18'55"	B4	600	12,700	Jan. 31, 1916	23,700	39.5	17
Stillwater River near West Milton, Ohio	39°57'35"	84°19'25"	B4	611	12,800	March 1913	j 86,200	141	*2.93
Brush Creek near West Milton, Ohio	39°55'45"	84°17'30"	B4	16.0	-	July 1939	j 13,500	844	-
Donnels Creek below Donnelsville, Ohio	39°54'40"	83°57'05"	B4	27	-	March 1913	j 3,970	147	-

* Ratio of discharge to that of 50-year flood.
h Affected by storage.
j Data furnished by Miami Conservancy District.
k For intervening area by subtraction; data furnished by Miami Conservancy District.
m Average of 7 determinations (range 7,670 cfs to 23,500 cfs); data furnished by Miami Conservancy District.

Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
						Date	Discharge		
	Latitude	Longitude					Cfs	Cfs per sq mi	Recurrence interval (years)
Miami River basin--Continued									
East Fork Mud Run at Husted, Ohio	39°51'10"	83°51'25"	B4	1.55	-	June 8, 1954	814	525	-
Wolf Creek near Trotwood, Ohio	39°47'40"	84°17'35"	B2	48.2	3,700	Jan.21,22,1959	j 6,990	145	18
Holes Creek near Kettering, Ohio	39°39'25"	84°11'55"	B3	20.6	-	Jan. 21, 1959	j 4,730	230	-
Clear Creek at Franklin, Ohio	39°33'05"	84°17'55"	B3	46.7	2,640	Jan. 21, 1959	j 13,300	285	*2.19
						May 8, 1961	j 12,100	259	-
Twin Creek near Ingomar, Ohio	39°42'30"	84°31'30"	B2	198	10,300	Jan. 21, 1959	j 30,300	153	*1.28
Dicks Creek near Excello, Ohio	39°28'25"	84°23'50"	B3	44.8	2,570	Jan. 21, 1959	j 9,830	219	*1.66
Fourmile Creek at Acton Lake Dam, Ohio	39°33'25"	84°44'05"	B2	102	6,400	Jan. 21, 1959	h 13,300	130	29
Sevenmile Creek at Collinsville, Ohio	39°31'23"	84°36'39"	B2	121	7,250	Jan. 21, 1959	16,600	137	50
Indian Creek near Millville, Ohio	39°21'45"	84°38'35"	B2	99.1	6,300	Jan. 21, 1959	j 23,500	237	*1.62
Miami River near Miamitown, Ohio	39°12'00"	84°42'50"	B3	3,880	64,500	March 1913	j 384,000	99.0	*2.59
						Jan. 22, 1959	jh115,000	29.6	-
Salt Creek near Hamburg, Ind	39°21'51"	85°14'59"	B2	41.0	3,300	Jan. 21, 1959	10,200	249	*1.34
Hanna Creek near Liberty, Ind	39°34'59"	84°56'48"	B2	22.1	-	Jan. 21, 1959	4,770	216	-
Hogan Creek basin									
North Hogan Creek near Moores Hill, Ind	39°08'03"	85°04'22"	B1	23.2	-	Jan. 21, 1959	7,040	303	-
South Hogan Creek near Dillsboro, Ind	39°01'47"	85°02'17"	B1	38.2	4,450	January 1959	n 16,300	427	*1.59
Laughery Creek basin									
Little Laughery Creek tributary at Batesville, Ind.	39°18'18"	85°13'08"	B1	1.47	-	June 22, 1959	1,930	1,310	-
Bobs Creek near Morris, Ind	39°16'16"	85°11'20"	B1	2.75	-	June 22, 1959	3,810	1,390	-
Bobs Creek tributary near Morris, Ind	39°17'04"	85°10'58"	B1	.20	-	June 22, 1959	294	1,470	-
Kentucky River basin									
Frozen Creek near Keck, Ky	37°37'29"	83°23'15"	B2	22.9	-	July 5, 1939	33,400	1,460	-
Frozen Creek near Keck, Ky	37°37'25"	83°23'25"	B2	23.3	-	July 5, 1939	44,000	1,890	-
Cope Fork near Keck, Ky	37°36'50"	83°22'55"	B2	11.8	-	July 5, 1939	20,100	1,700	-
Johnson Fork near Vancleave, Ky	37°39'07"	83°25'07"	B2	5.3	-	July 5, 1939	11,500	2,170	-
Frozen Creek near Vancleave, Ky	37°36'20"	83°25'20"	B2	55.1	4,100	July 5, 1939	52,200	947	*5.52
Red Bird River near Big Creek, Ky	37°09'10"	83°35'10"	B2	117	7,000	Jan. 29, 1957	48,500	415	*3.01
Goose Creek at Manchester, Ky	37°09'00"	83°45'40"	B2	163	9,000	June 28, 1947	38,000	233	*1.83
Tate Creek near Million, Ky	37°46'01"	84°22'39"	C3	9.71	-	Aug. 28, 1959	3,680	379	-
Tate Creek near Valley View, Ky	37°49'56"	84°25'09"	C3	32.2	2,020	Aug. 28, 1959	7,930	246	*1.98
Back Creek near McCreary, Ky	37°39'41"	84°29'08"	C2	14.2	-	July 8, 1955	8,270	582	-
Long Branch at McCreary, Ky	37°40'00"	84°30'11"	C2	4.65	-	July 8, 1955	6,090	1,310	-
Sugar Creek near Lancaster, Ky	37°39'35"	84°32'16"	C2	6.77	-	July 8, 1955	9,470	1,400	-
Sugar Creek near Lancaster, Ky	37°41'15"	84°34'20"	C2	15.9	-	July 8, 1955	17,100	1,080	-
Scotch Fork near Buckeye, Ky	37°43'45"	84°33'10"	C2	10.4	-	July 8, 1955	12,400	1,190	-
Cedar Run near Frankfort, Ky	38°09'46"	84°52'47"	C3	o 4.06	-	May 4, 1958	p 9,700	q2,390	-

Indian Creek basin									
Wilson Fork Creek near Canaan, Ind.	38°53'	85°15"	B1	17.0	-	Jan. 21, 1959	13,100	771	-
Crooked Creek basin									
Crooked Creek at Madison, Ind.	38°44'28"	85°23'35"	B1	8.01	-	Jan. 21, 1959	4,200	524	-
Fourteenmile Creek basin									
West Fork Fourteenmile Creek near Nabb, Ind.	38°36'21"	85°35'23"	B2	14.0	-	Jan. 21, 1959	5,770	412	-
Silver Creek basin									
North Fork Silver Creek tributary near Henryville, Ind.	38°33'02"	85°50'12"	B2	0.50	-	June 15, 1949	850	1,700	-
Persimmon Run near Carwood, Ind.	38°26'37"	85°53'15"	B2	3.23	-	June 23, 1960	1,590	492	-
Salt River basin									
Salt River at Taylorsville, Ky.	38°01'41"	85°20'33"	C2	629	23,900	Jan. 21, 1937	68,000	108	*1.44
Floyds Fork near Mount Washington, Ky.	38°05'05"	85°33'25"	C2	213	10,900	Jan. 22, 1937	30,000	141	*1.39
Beech Fork at Fredericktown, Ky.	37°45'35"	85°21'00"	C3	530	15,200	Jan. 22, 1937	r 31,000	58.5	55
Big Buck Creek basin									
Big Buck Creek near New Middletown, Ind.	38°08'45"	86°03'04"	B2	27.4	-	Jan. 21, 1959	8,830	322	-
Big Indian Creek basin									
Little Indian Creek near Corydon, Ind.	38°11'59"	86°05'44"	B2	32.5	2,780	Jan. 21, 1959	9,440	290	*1.48
Blue River basin									
Middle Fork Blue River near Salem, Ind.	38°32'26"	86°05'37"	B3	38.4	2,300	Jan. 21, 1959	11,400	297	*2.16
Mill Creek near Becks Mills, Ind.	38°34'44"	86°09'53"	B3	8.04	-	Jan. 21, 1959	2,740	341	-
Little Blue River basin									
Little Blue River at English, Ind.	38°20'16"	86°28'00"	B3	16.8	-	Jan. 12, 1959	6,920	412	-
Anderson River basin									
Anderson River near Siberia, Ind.	38°13'19"	86°42'24"	B3	44.8	2,570	Jan. 21, 1959	11,800	263	*2.00
Middle Fork Anderson River near Uniontown, Ind.	38°13'32"	86°38'14"	B3	7.42	-	Jan. 21, 1959	6,270	845	-
Middle Fork Anderson River at Bristow, Ind.	38°08'19"	86°43'16"	B3	41.9	2,450	January 1959	s 15,000	358	*2.66
Green River basin									
Bacon Creek at Bonnieville, Ky.	37°22'30"	85°54'10"	B4	t 53.5	2,200	Apr. 4, 1937	3,770	q 96.7	11
Pigeon Creek basin									
Pigeon Creek at Evansville, Ind.	37°59'45"	87°31'30"	B5	326	5,500	May 1961	u 13,000	39.9	58
Wabash River basin									
Salamonie River near Warren, Ind.	40°42'45"	85°27'13"	B5	422	6,670	1959	v 13,200	31.3	22
Grusenmeyer Gardens ditch at Logansport, Ind.	40°44'10"	86°22'25"	B5	.82	-	June 26, 1949	870	1,060	-
Goose Creek at Logansport, Ind.	40°44'44"	86°22'50"	B5	3.24	-	June 26, 1949	2,600	802	-
Wabash River tributary near Logansport, Ind.	40°43'44"	86°24'00"	B5	2.58	-	June 26, 1949	1,900	736	-

* Ratio of discharge to that of 50-year flood.
h Affected by storage.
j Data furnished by Miami Conservancy District.
n Gage height, 14.0 ft.
o Of which about 3.84 sq mi contributes directly to surface runoff.
p Computed estimate.
q Based on contributing drainage area.
r Gage height, 20.7 ft.
s Gage height, 20.0 ft.
t Of which about 39.0 sq mi contributes directly to surface runoff.
u Gage height, 26.48 ft.
v Gage height, 17.05 ft.

Table 2.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

Stream and vicinity	Location		Flood region and hydrologic area	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
						Date	Discharge		
	Latitude	Longitude					Cfs	Cfs per sq mi	Recurrence interval (years)
Wabash River basin--Continued									
Middle Fork Wildcat Creek near Edna Mills, Ind.....	40°26'	86°38'	A5	52.0	1,450	June 8, 1958	3,700	71.2	28
Campbells Run at Rossville, Ind.....	40°25'	86°36'	A5	16.9	-	June 8, 1958	6,320	374	-
Middle Fork Wildcat Creek at Edna Mills, Ind.....	40°25'	86°40'	A5	84.1	2,070	June 8, 1958	11,000	131	*1.69
Vermilion River near Oakwood, Ill.....	40°07'40"	87°44'05"	A5	417	6,600	March 1939	w 29,000	69.5	*1.40
Salt Fork near St. Joseph, Ill.....	40°08'55"	88°02'00"	A6	134	1,900	Feb. 10, 1959	x 6,030	45.0	52
Prairie Creek near Thorntown, Ind.....	40°07'	86°32'	B4	35.9	1,630	June 28, 1957	3,250	90.5	23
Walnut Fork near Mace, Ind.....	40°01'	86°49'	B4	32.4	1,520	June 28, 1957	5,710	176	*1.63
Indian Creek tributary at Browns Valley, Ind.....	39°54'38"	86°59'07"	B4	.57	-	June 9, 1961	555	974	-
Little Raccoon Creek near Ladoga, Ind.....	39°55'	86°45'	A4	4.62	-	June 28, 1957	3,230	699	-
Raccoon Creek at Ladoga, Ind.....	39°55'	86°48'	A4	54.4	2,220	June 28, 1957	9,820	181	*1.41
Raccoon Creek near Fincastle, Ind.....	39°48'45"	86°57'14"	A4	132	4,250	June 28, 1957	y 39,900	302	*3.00
Ramp Creek at Fincastle, Ind.....	39°48'06"	86°53'47"	A4	25.2	-	June 28, 1957	12,900	512	-
Little Raccoon Creek tributary near Waveland, Ind..	39°53'12"	87°01'28"	A4	1.09	-	June 9, 1961	1,880	1,720	-
Little Raccoon Creek at Waveland, Ind.....	39°52'51"	87°02'44"	A4	6.98	-	June 9, 1961	7,740	1,110	-
Little Raccoon Creek at Guion, Ind.....	39°50'30"	87°06'20"	A4	30.7	1,470	June 28, 1957	23,700	772	*5.14
South Fork Little Raccoon Creek at Guion, Ind.....	39°50'06"	87°06'15"	A4	28.6	-	June 28, 1957	21,600	755	-
Little Raccoon Creek near Rockville, Ind.....	39°45'36"	87°10'03"	A4	96.0	3,380	June 28, 1957	45,400	473	*4.28
Rocky Run tributary at Coloma, Ind.....	39°47'20"	87°17'29"	A4	.18	-	June 21, 1960	182	1,010	-
Rock Run near Coloma, Ind.....	39°46'25"	87°17'18"	A4	1.58	-	June 21, 1960	1,820	1,150	-
Rock Run near Mecca, Ind.....	39°43'56"	87°17'05"	A4	9.38	-	June 28, 1957	6,450	688	-
Leatherwood Creek at Bloomingdale, Ind.....	39°50'04"	87°14'09"	A4	5.67	-	June 28, 1957	2,430	429	-
Brouilletts Creek near Blanford, Ind.....	39°41'02"	87°31'35"	A5	263	4,750	June 28, 1957	35,200	134	*2.37
Otter Creek at North Terre Haute, Ind.....	39°31'54"	87°21'38"	A4	118	3,900	June 28, 1957	13,800	117	*1.13
Drainage ditch No. 7 near Redmon, Ill.....	39°37'25"	87°47'40"	A5	6.93	-	June 28, 1957	z 2,110	304	-
Hickory Grove Creek near Redmon, Ill.....	39°38'35"	87°52'55"	A5	19.7	-	June 28, 1957	8,580	436	-
Little Embarrass River near Borton, Ill.....	39°40'50"	87°56'15"	A5	63.6	1,670	June 28, 1957	14,200	223	*2.72
Muddy Creek near Toledo, Ill.....	39°16'20"	88°17'10"	A5	57.2	1,540	June 28, 1957	11,900	208	*2.47
Embarrass River at Lawrenceville, Ill.....	38°43'25"	87°39'50"	B4	2,260	33,300	January 1950	aa 50,000	22.1	7
Cool Creek near Carmel, Ind.....	40°00'31"	86°07'05"	B5	13.6	-	Aug. 2, 1958	1,490	110	-
Williams Creek near Augusta, Ind.....	39°54'44"	86°10'28"	B5	17.4	-	June 28, 1957	4,170	240	-
Williams Creek at Indianapolis, Ind.....	39°53'36"	86°08'43"	B5	20.7	-	Apr. 25, 1961	1,490	72.0	-
Crooked Creek at Augusta, Ind.....	39°53'43"	86°12'53"	B5	7.22	-	June 28, 1957	2,160	299	-
Indian Creek near Oaklandon, Ind.....	39°53'13"	85°58'32"	B5	25.2	-	May 28, 1956	6,340	252	-
Devon Creek at Indianapolis, Ind.....	39°50'49"	86°03'55"	B5	1.54	-	June 20, 1961	422	274	-
Pleasant Run at Highway 100 at Indianapolis, Ind...	39°47'38"	86°02'44"	B5	3.31	-	May 28, 1956	2,280	689	-
Pleasant Run at Madison Avenue at Indianapolis, Ind.	39°43'57"	86°09'24"	B5	21.2	-	May 28, 1956	5,760	272	-
Eagle Creek at Rosston, Ind.....	40°02'27"	86°17'02"	B4	26.4	-	June 28, 1957	8,040	305	-
Fenley Creek at Northfield, Ind.....	40°01'32"	86°16'40"	B4	9.37	-	June 28, 1957	2,650	283	-
Jackson Run near Zionsville, Ind.....	39°59'34"	86°17'02"	B4	6.53	-	June 28, 1957	2,880	441	-
Fishback Creek near Traders Point, Ind.....	39°54'35"	86°18'50"	B4	18.0	-	June 28, 1957	6,020	334	-
Eagle Creek near Clermont, Ind.....	39°51'08"	86°18'15"	B4	155	4,780	June 28, 1957	42,400	274	*3.86
Eagle Creek at Speedway, Ind.....	39°47'13"	86°16'02"	B4	176	5,230	June 28, 1957	25,200	143	*2.10
Falcon Creek at Indianapolis, Ind.....	39°49'17"	86°14'15"	B4	2.72	-	Apr. 25, 1961	357	131	-

Lick Creek at Beech Grove, Ind.	39°43'59"	86°05'11"	B5	9.56	-	May 28, 1956	2,140	224	-
White Lick Creek at Brownsburg, Ind.	39°50'38"	86°24'02"	B4	33.2	1,550	June 28, 1957	6,020	181	*1.69
West Fork White Lick Creek at Danville, Ind.	39°45'36"	86°30'47"	B4	28.9	-	June 28, 1957	bb 6,660	230	-
White Lick Creek at Mooresville, Ind.	39°36'28"	86°22'56"	B4	212	6,000	May 8, 1961	cc 14,100	66.5	58
Sycamore Creek near Centerton, Ind.	39°30'49"	86°25'55"	B4	17.2	-	June 23, 1960	7,690	447	-
Big Walnut Creek at Jamestown, Ind.	39°55'14"	86°36'58"	B4	37.5	1,690	June 28, 1957	4,370	117	*1.13
Middle Fork Big Walnut Creek at North Salem, Ind.	39°52'	86°38'	B4	11.6	-	June 28, 1957	6,860	591	-
Big Walnut Creek near Barnard, Ind.	39°50'	86°41'	B4	120	3,980	June 28, 1957	23,800	198	*2.60
Owl Creek near Morton, Ind.	39°44'21"	86°55'02"	B4	6.99	-	June 28, 1957	5,550	794	-
Owl Creek tributary at Morton, Ind.	39°45'07"	86°55'40"	B4	2.64	-	June 28, 1957	2,870	1,090	-
Jones Creek at Brick Chapel, Ind.	39°42'	86°52'	B4	2.06	-	June 28, 1957	1,460	709	-
Lattas Creek tributary at Elliston, Ind.	39°01'43"	86°58'40"	B5	.15	-	Aug. 15, 1949	145	967	-
Buck Creek at Cumberland, Ind.	39°46'27"	85°57'01"	B4	21.7	-	May 28, 1956	6,960	321	-
Grassy Creek near Cumberland, Ind.	39°46'21"	85°59'02"	B4	6.89	-	May 28, 1956	3,840	557	-
Buck Creek near Indianapolis, Ind.	39°43'34"	85°58'21"	B4	49.5	2,080	May 28, 1956	16,600	335	*3.47
Little Sugar Creek at Pleasant View, Ind.	39°39'22"	85°55'51"	B4	14.2	-	May 28, 1956	6,900	486	-
Snail Creek near Fairland, Ind.	39°36'45"	85°51'38"	B4	20.1	-	May 28, 1956	7,820	389	-
Haw Creek near Norristown, Ind.	39°21'	85°45'	B3	6.89	-	June 22, 1956	4,240	615	-
Little Haw Creek at Hope, Ind.	39°18'32"	85°46'17"	B3	5.56	-	June 22, 1956	3,250	585	-
Horse Creek at Hope, Ind.	39°17'04"	85°46'16"	B3	1.00	-	June 22, 1956	750	750	-
Haw Creek at Columbus, Ind.	39°14'	85°54'	B3	51.8	2,850	June 22, 1956	6,730	130	58
Duck Creek at Rugby, Ind.	39°19'	85°43'	B3	13.3	-	June 22, 1956	2,850	214	-
Duck Creek near Hope, Ind.	39°16'35"	85°45'21"	B3	16.2	-	June 22, 1956	2,200	136	-
Sand Creek at Greensburg, Ind.	39°20'08"	85°27'53"	B2	10.7	-	Jan. 21, 1959	3,260	305	-
Big Creek at Lancaster, Ind.	38°50'00"	85°31'02"	B1	52.7	5,500	July 5, 1957	12,300	233	42
Middle Fork Creek at Lancaster, Ind.	38°49'57"	85°31'10"	B1	16.0	-	Jan. 21, 1959	4,780	299	-
Stucker Fork near Scottsburg, Ind.	38°41'10"	85°41'48"	B2	44.7	3,500	Jan. 21, 1959	12,100	271	*1.50
Pigeon Roost Creek tributary near Vienna, Ind.	38°38'57"	85°45'10"	B2	.70	-	June 15, 1949	402	574	-
Pigeon Roost Creek tributary at Scottsburg, Ind.	38°41'18"	85°46'41"	B2	.21	-	June 15, 1949	190	905	-
Honey Run near Scottsburg, Ind.	38°40'13"	85°47'15"	B2	2.84	-	June 15, 1949	4,070	1,430	-
Honey Creek near Millhousen, Ind.	39°11'34"	85°25'13"	B1	3.10	-	Jan. 21, 1959	988	319	-
Sixmile Creek at Hayden, Ind.	38°59'	85°44'	B2	20.8	-	June 23, 1960	7,010	337	-
Manning ditch at Dudleytown, Ind.	38°51'	85°55'	B2	12.5	-	Jan. 21, 1959	2,350	188	-
Clear Creek near Harrodsburg, Ind.	39°02'03"	86°34'01"	B4	55.2	2,230	June 23, 1960	10,200	185	*1.99
Lick Creek near Paoli, Ind.	38°34'22"	86°32'30"	B5	45.2	-	Jan. 21, 1959	8,160	181	-
Patoka River near Ellsworth, Ind.	38°26'29"	86°43'31"	B5	171	3,480	March 1913	dd 18,000	105	*2.25
Straight River at Maltersville, Ind.	38°21'20"	86°53'34"	B5	62.4	1,650	Jan. 21, 1959	11,100	178	*2.93
Little Wabash River near Effingham, Ill.	39°08'50"	88°34'35"	A5	217	4,100	June 28, 1957	34,400	159	*2.68
Bishop Creek near Eberle, Ill.	-	-	A5	51.5	1,440	May 24, 1943	13,500	262	*3.00
Muddy Creek at Wheeler, Ill.	39°02'45"	88°19'00"	A5	8.1	-	May 24, 1943	3,600	444	-
Horse Creek near Keenes, Ill.	38°22'34"	88°39'44"	B4	96.8	3,390	May 8, 1961	ee 17,100	177	*2.19

* Ratio of discharge to that of 50-year flood.
w Gage height, 559.0 ft.
x Gage height, 18.99 ft.
y Gage height, 19.10 ft.
z Gage height, 686.0 ft.
aa Gage height, 425.6 ft.
bb Gage height, 16.0 ft.
cc Gage height, 21.56 ft.
dd Gage height, 19.1 ft.
ee Gage height, 26.98 ft.

105. Allegheny River at Eldred, Pa.

(Published as "at" or "near Larabee" prior to Oct. 1, 1939)

Location.--Lat 41°57'50", long 78°23'10", on right bank at site of former highway bridge, 600 ft upstream from bridge on State Highway 346, 1,000 ft upstream from Knapp Creek, and half a mile north of Eldred, McKean County.

Drainage area.--550 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1939; recording thereafter. Prior to Oct. 1, 1939, at site 6 miles upstream at datum 1,423.39 ft above mean sea level, adjustment of 1912. Datum of present gage is 1,416.20 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Bankfull stage.--20 ft.

Remarks.--Only annual peaks are shown prior to 1921. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 28, 1916	15.4	9,160
1917	Aug. 16, 1917	12.8	5,320
1918	Mar. 15, 1918	14.6	7,640
1919	May 23, 1919	13.58	6,200
1920	Mar. 14, 1920	15.0	8,360
1921	Mar. 10, 1921	11.25	3,400
1922	Apr. 1, 1922	11.4	4,160
1923	Mar. 5, 1923	13.6	6,200
1924	Apr. 7, 1924	12.9	5,420
1925	Feb. 12, 1925	15.4	9,160
1926	Mar. 25, 1926	11.94	3,850
1927	Jan. 24, 1927	a12.52	-
	Mar. 15, 1927	12.5	4,580
1928	Nov. 18, 1927	17.60	13,700
1929	Jan. 19, 1929	a13.1	-
	Mar. 16, 1929	13.0	4,900
1930	Jan. 14, 1930	12.4	4,560
1931	June 9, 1931	12.80	4,800
1932	Apr. 2, 1932	12.15	4,440
1933	Mar. 16, 1933	11.24	3,840
1934	Jan. 2, 1934	11.60	4,080
1935	Jan. 11, 1935	12.0	4,310
1936	Mar. 18, 1936	15.46	9,360
1937	Jan. 16, 1937	12.6	5,120
	Jan. 26, 1937	13.5	6,080
	Apr. 29, 1937	12.5	5,030
1938	Mar. 6, 1938	12.8	4,990
1939	Feb. 21, 1939	12.7	4,930
1940	Apr. 5, 1940	18.48	12,900
1941	Apr. 7, 1941	14.34	6,130
1942	Mar. 10, 1942	14.47	6,350
	Mar. 19, 1942	14.97	6,950
	July 19, 1942	27.6	55,000
1943	Dec. 31, 1942	17.42	10,800
	Feb. 26, 1943	13.37	5,260
	Mar. 18, 1943	14.88	6,820
1943	Apr. 22, 1943	16.13	8,500
	May 27, 1943	16.41	8,980
1944	Mar. 19, 1944	13.36	5,260
1945	Mar. 5, 1945	15.15	7,480
	Mar. 19, 1945	15.64	8,040
	Mar. 23, 1945	16.48	9,380
1946	Oct. 4, 1945	13.22	5,710
	May 29, 1946	21.16	20,800
1947	Apr. 6, 1947	19.41	15,200
1948	Mar. 23, 1948	20.04	17,000
	Apr. 15, 1948	14.56	6,710
1949	May 24, 1949	11.33	3,730
1950	Mar. 30, 1950	16.39	9,230
	Apr. 6, 1950	18.42	12,900
1951	Nov. 6, 1950	13.35	5,370
	Nov. 26, 1950	20.94	19,700
	Apr. 1, 1951	15.52	7,900
1952	Jan. 19, 1952	16.22	8,930
	Jan. 28, 1952	15.14	7,350
	Mar. 12, 1952	14.61	6,710
	Apr. 17, 1952	13.52	5,470
1953	Mar. 26, 1953	14.28	6,350
	June 1, 1953	14.21	6,230
1954	Mar. 3, 1954	14.48	6,590
1955	Mar. 6, 1955	15.32	7,620
1956	Oct. 16, 1955	12.96	5,000
	Mar. 9, 1956	20.92	19,700
	Apr. 6, 1956	15.30	7,620
	May 15, 1956	13.91	5,900
1957	Jan. 24, 1957	13.17	5,180
1958	Apr. 8, 1958	15.72	8,180
	May 9, 1958	13.13	5,090
1959	Jan. 23, 1959	a20.38	16,500
	Feb. 12, 1959	13.71	5,680
	Apr. 4, 1959	14.46	6,590
1960	Mar. 31, 1960	16.64	9,540
	June 17, 1960	13.81	5,790
1961	Feb. 27, 1961	17.95	12,100
	Apr. 18, 1961	13.32	5,270
	Apr. 26, 1961	16.32	9,080

a Backwater from ice.

110. Great Valley Creek near Salamanca, N.Y.

Location.--Lat 42°10'40", long 78°41'40", on left bank 0.3 mile upstream from highway bridge, 1 mile downstream from Hungry Hollow, 1½ miles northeast of Salamanca, Cattaraugus County, and 2 miles upstream from mouth.

Drainage area.--142 sq mi.

Gage.--Recording. Datum of gage is 1,393.42 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 4, 1951	7.92	4,850	1957	Jan. 22, 1957	9.07	6,390
	Mar. 30, 1951	7.41	3,960				
1952	Nov. 23, 1951	7.12	3,490	1958	Apr. 6, 1958	7.90	4,380
	Jan. 1, 1952	7.35	3,860		June 13, 1958	8.17	4,810
	Jan. 18, 1952	7.82	4,670	1959	Jan. 22, 1959	10.57	9,470
	Mar. 11, 1952	7.69	4,430		Apr. 2, 1959	8.67	5,670
1953	Mar. 24, 1953	a6.94	3,220	1960	Oct. 7, 1959	8.61	5,560
					Oct. 24, 1959	7.74	4,050
1954	Feb. 17, 1954	7.27	3,720		Dec. 13, 1959	7.33	3,400
	Apr. 27, 1954	7.01	3,320		Jan. 13, 1960	7.45	3,590
					Feb. 11, 1960	7.66	3,930
1955	Oct. 16, 1954	a7.10	3,200		Mar. 30, 1960	8.75	5,810
	Dec. 29, 1954	7.38	3,590		June 15, 1960	7.30	3,360
	Mar. 1, 1955	8.91	6,100				
	Mar. 11, 1955	7.27	3,440	1961	Feb. 19, 1961	7.57	3,780
					Feb. 26, 1961	9.51	7,240
1956	Oct. 15, 1955	7.31	3,490		Apr. 16, 1961	7.42	3,540
	Nov. 16, 1955	8.08	4,670		Apr. 25, 1961	9.28	6,790
	Mar. 7, 1956	10.66	9,680		June 2, 1961	8.20	4,830
	Apr. 4, 1956	7.70	4,060		Sept. 3, 1961	7.27	3,320
	May 13, 1956	8.18	4,830				
	Sept. 6, 1956	7.44	3,670				

a Estimated; gage-height record faulty or missing.

OHIO RIVER MAIN STEM

115. Allegheny River at Red House, N.Y.

Location.--Lat 42°06'50", long 78°48'15", on left bank at site of former highway bridge at Red House, Cattaraugus County, 0.7 mile upstream from Meetinghouse Run and at mile 227.7.

Drainage area.--1,690 sq mi.

Gage.--Nonrecording prior to Sept. 3, 1917; recording thereafter. Datum of gage is 1,327.68 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Maximum flood of record, that of Mar. 8, 1956. Two other floods, estimated to be of about the same magnitude, occurred in March 1865 and May 1894.

Remarks.--Only annual peaks are shown prior to 1942. Base for partial-duration series, 17,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
	Mar. 26, 1904	11.4	28,400	1911	Jan. 27, 1911	9.7	19,700
1905	Mar. 20, 1905	11.8	30,600	1912	Apr. 2, 1912	11.2	27,300
				1913	Mar. 26, 1913	13.0	37,800
1906	Jan. 24, 1906	8.6	14,800	1914	Mar. 28, 1914	12.0	31,800
1907	Dec. 15, 1906	9.1	17,000	1915	Feb. 25, 1915	10.1	21,300
1908	Mar. 16, 1908	11.5	29,000				
1909	May 2, 1909	13.0	37,800	1916	Mar. 29, 1916	12.8	36,600
1910	Mar. 2, 1910	13.6	41,000	1917	Mar. 12, 1917	9.6	18,800

Peak stages and discharges of Allegheny River at Red House, N.Y.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 15, 1918	11.70	30,000	1948	Feb. 20, 1948	9.80	19,600
1919	May 23, 1919	10.12	21,400		Mar. 17, 1948	9.54	17,500
1920	Mar. 15, 1920	11.95	31,500		Mar. 22, 1948	13.27	38,500
					Apr. 15, 1948	10.27	21,000
1921	Mar. 7, 1921	8.45	13,500				
1922	June 12, 1922	9.00	16,200	1949	Jan. 6, 1949	7.86	10,300
1923	Mar. 5, 1923	10.32	22,900				
1924	Sept.30, 1924	9.85	20,400	1950	Mar. 29, 1950	11.93	30,100
1925	Feb. 12, 1925	-	24,000		Apr. 5, 1950	11.79	29,200
1926	Apr. 9, 1926	9.2	17,200	1951	Nov. 26, 1950	12.29	32,200
1927	Mar. 22, 1927	9.3	18,500		Dec. 4, 1950	10.37	21,600
1928	Dec. 1, 1927	12.6	36,600		Jan. 4, 1951	10.24	20,900
1929	Jan. 19, 1929	10.9	26,500		Mar. 31, 1951	9.77	18,600
1930	Feb. 26, 1930	9.6	19,500				
				1952	Jan. 2, 1952	10.49	22,200
1931	Apr. 11, 1931	8.64	15,000		Jan. 18, 1952	10.70	23,200
1932	May 9, 1932	9.17	17,400		Jan. 20, 1952	10.05	20,000
1933	Mar. 15, 1933	8.83	15,500		Jan. 27, 1952	10.06	20,000
1934	Jan. 2, 1934	a13.78	18,800		Mar. 12, 1952	10.72	23,300
1935	Jan. 10, 1935	9.62	19,300				
				1953	Mar. 25, 1953	9.78	18,600
1936	Mar. 27, 1936	b12.87	30,700		Mar. 31, 1953	9.89	19,200
1937	Jan. 26, 1937	10.87	24,400				
1938	Feb. 14, 1938	10.05	20,400	1954	Mar. 2, 1954	9.35	16,600
1939	Feb. 20, 1939	11.02	25,200				
1940	Apr. 5, 1940	11.99	30,400	1955	Mar. 2, 1955	11.31	25,200
					Mar. 6, 1955	9.87	17,700
1941	Apr. 6, 1941	10.03	20,200				
				1956	Oct. 15, 1955	9.88	17,700
1942	Mar. 9, 1942	11.02	25,200		Nov. 17, 1955	10.27	19,600
	July 20, 1942	14.55	45,300		Mar. 8, 1956	15.11	49,100
					Apr. 4, 1956	11.17	24,400
1943	Dec. 30, 1942	11.98	29,900		May 13, 1956	10.62	21,400
1944	Mar. 17, 1944	9.81	18,700	1957	Jan. 24, 1957	11.39	25,600
					Apr. 6, 1957	9.84	17,800
1945	Feb. 23, 1945	c15.09	-				
	Mar. 4, 1945	10.45	21,800	1958	Apr. 7, 1958	10.79	22,400
	Mar. 6, 1945	10.35	21,200				
	Mar. 17, 1945	10.15	20,200	1959	Jan. 22, 1959	12.99	35,000
	Mar. 22, 1945	10.85	23,800		Jan. 30, 1959	10.20	19,500
					Apr. 3, 1959	10.51	21,000
1946	Oct. 3, 1945	10.04	19,800				
	May 28, 1946	12.53	34,900	1960	Dec. 13, 1959	9.80	17,700
	June 1, 1946	9.83	19,800		Apr. 1, 1960	11.95	28,800
					June 16, 1960	10.11	19,100
1947	Jan. 31, 1947	9.67	19,000				
	Mar. 25, 1947	9.41	17,600	1961	Feb. 26, 1961	12.11	29,800
	Apr. 6, 1947	12.84	37,000		Apr. 26, 1961	12.55	32,400
	Apr. 21, 1947	9.53	18,200				
	June 3, 1947	9.57	18,400				

a Occurred on Mar. 4, 1934; backwater from ice. b Occurred on Feb. 27, 1936; backwater from ice. c Backwater from ice.

KINZUA CREEK BASIN

120. Kinzua Creek at Dewdrop, Pa.

Location.--Lat 41°49'50", long 78°57'10", at single span, steel, through truss highway bridge at Dewdrop, Warren County, 3 miles upstream from mouth.

Drainage area.--171 sq mi.

Gage.--Nonrecording gage. Datum of gage is 1,243.13 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 7, 1910	6.6	3,520	1914	Mar. 28, 1914	8.5	5,420
1911	Jan. 28, 1911	6.5	3,440	1915	Feb. 1, 1915	7.3	4,100
1913	Jan. 8, 1913	9.0	6,020	1916	Mar. 28, 1916	7.0	3,820

125. Allegheny River near Kinzua, Pa.

Location.--Lat 41°50'50", long 78°59'30", on left bank at Pennsylvania Railroad bridge, half a mile upstream from Bent Run, 2 miles southwest of Kinzua, Warren County, and 2.3 miles downstream from Kinzua Creek.

Drainage area.--2,179 sq mi.

Gage.--Recording. Datum of gage is 1,200.00 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--18 ft.

Remarks.--Base for partial-duration series, 25,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 27, 1936	15.93	37,000	1948	Mar. 22, 1948	18.52	50,800
	Mar. 12, 1936	15.13	33,200		Apr. 15, 1948	13.32	25,900
	Mar. 28, 1936	16.69	41,000	1949	Jan. 6, 1949	10.47	13,700
1937	Jan. 15, 1937	13.40	25,200	1950	Mar. 29, 1950	15.92	38,100
	Jan. 25, 1937	14.85	31,700		Apr. 5, 1950	16.02	38,600
1938	Feb. 14, 1938	13.48	26,800	1951	Nov. 26, 1950	15.82	37,600
1939	Feb. 20, 1939	15.02	33,500		Dec. 4, 1950	14.14	29,600
					Jan. 4, 1951	13.65	27,300
1940	Mar. 20, 1940	13.61	-		Feb. 14, 1951	13.43	26,400
	Apr. 5, 1940	16.46	41,900	1952	Jan. 18, 1952	14.37	31,000
1941	Mar. 4, 1941	a13.14	-		Jan. 27, 1952	13.09	25,000
	Apr. 6, 1941	12.94	24,100		Mar. 12, 1952	13.45	26,400
1942	Mar. 9, 1942	15.51	-	1953	May 31, 1953	12.82	23,600
	Mar. 17, 1942	15.95	38,600				
	July 20, 1942	17.70	46,800	1954	Jan. 21, 1954	a12.44	-
1943	Dec. 30, 1942	16.63	41,500		Mar. 2, 1954	11.81	19,200
	Mar. 17, 1943	13.98	29,100	1955	Mar. 2, 1955	14.26	30,500
1944	Jan. 28, 1944	13.97	-	1956	Mar. 8, 1956	19.95	60,500
	Mar. 17, 1944	13.16	25,400		Apr. 5, 1956	14.72	32,500
					May 13, 1956	14.14	29,500
1945	Feb. 24, 1945	16.22	-				
	Mar. 7, 1945	14.12	29,600	1957	Jan. 23, 1957	14.55	32,000
	Mar. 18, 1945	14.06	29,600				
	Mar. 22, 1945	14.64	31,900	1958	Apr. 7, 1958	13.96	29,000
1946	Jan. 6, 1946	14.14	-	1959	Jan. 22, 1959	18.15	50,600
	May 28, 1946	16.45	40,500		Apr. 2, 1959	13.92	28,500
1947	Apr. 5, 1947	18.08	48,800	1960	Mar. 31, 1960	15.46	36,500
1948	Feb. 18, 1948	a14.86	-	1961	Feb. 26, 1961	16.20	38,600
	Feb. 20, 1948	13.20	25,400		Apr. 25, 1961	17.0	42,600

a Backwater from ice.

CONEWANGO CREEK BASIN

130. Conewango Creek at Waterboro, N.Y.

Location.--Lat 42°10'15", long 79°04'10", 300 ft downstream from concrete viaduct at Waterboro, Chautauqua County, 900 ft downstream from Davis Brook, and 2½ miles upstream from Kennedy.

Drainage area.--290 sq mi.

Gage.--Nonrecording prior to May 29, 1948; recording thereafter. At site 1,300 ft upstream at various datums prior to Nov. 7, 1939. At site 1,100 ft upstream at datum 0.79 ft higher Nov. 7, 1939, to Nov. 4, 1940. At site 700 ft downstream at present datum Nov. 5, 1940, to May 28, 1948. Datum of gage is 1,255.30 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown prior to 1948. Base for partial-duration series, 2,800 cfs 1948-52; 2,300 cfs thereafter.

Peak stages and discharges of Conewango Creek at Waterboro, N.Y.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 20, 1939	9.8	3,620	1955	Dec. 31, 1954	8.06	2,850
1940	Apr. 5, 1940	9.75	4,160		Mar. 3, 1955	8.82	3,420
1941	Apr. 7, 1941	7.76	2,540	1956	Nov. 17, 1955	7.38	2,390
1942	Mar. 18, 1942	11.05	7,620		Feb. 26, 1956	7.60	2,530
1943	Dec. 31, 1942	10.05	5,050		Mar. 8, 1956	11.58	6,750
1944	Apr. 13, 1944	8.75	3,280		Apr. 5, 1956	8.44	3,120
1945	Mar. 7, 1945	9.65	4,280		May 14, 1956	8.35	3,060
1946	Oct. 4, 1945	8.55	3,140	1957	Dec. 9, 1956	9.28	3,780
1947	Apr. 7, 1947	11.35	8,600		Jan. 24, 1957	9.98	4,520
1948	Mar. 23, 1948	10.0	4,960		Apr. 7, 1957	7.95	2,680
1949	Mar. 24, 1949	7.04	2,140	1958	Apr. 2, 1958	7.31	2,330
					Apr. 8, 1958	7.40	2,390
1950	Mar. 29, 1950	10.42	5,930	1959	Jan. 23, 1959	10.97	5,800
	Apr. 5, 1950	8.09	2,820		Mar. 27, 1959	7.77	2,330
1951	Dec. 5, 1950	9.73	4,500		Apr. 4, 1959	9.05	3,400
	Jan. 6, 1951	9.22	3,810	1960	Dec. 13, 1959	7.87	2,400
1952	Jan. 3, 1952	8.24	2,930		Jan. 15, 1960	8.01	2,830
	Mar. 13, 1952	8.81	3,500		Feb. 12, 1960	7.53	2,510
					Apr. 1, 1960	10.76	5,490
1953	June 1, 1953	7.11	2,310	1961	Feb. 27, 1961	9.57	4,070
1954	Feb. 18, 1954	8.13	3,000		Apr. 27, 1961	10.09	4,640
1955	Oct. 18, 1954	7.99	2,790				

145. Chadakoin River at Falconer, N.Y.

Location.--Lat 42°06'45", long 79°12'15", on left bank 10 ft downstream from South Dow Street Bridge in Falconer, Chautauqua County, 1¾ miles upstream from mouth, and 6 miles downstream from Chautauqua Lake.

Drainage area.--194 sq mi.

Gage.--Recording. Datum of gage is 1,256.41 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Chautauqua Lake. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Mar. 13, 1935	2.95	904	1949	Jan. 28, 1949	2.64	800
				1950	Apr. 4, 1950	3.84	1,500
1936	Apr. 1, 1936	4.41	2,030				
1937	Apr. 29, 1937	3.73	1,430	1951	Dec. 4, 1950	3.79	1,500
1938	Feb. 18, 1938	3.55	1,290	1952	Feb. 4, 1952	3.31	1,160
1939	Mar. 12, 1939	3.45	1,200	1953	June 4, 1953	2.95	962
1940	Apr. 11, 1940	3.91	1,570	1954	Apr. 16, 1954	3.34	1,130
				1955	Oct. 15, 1954	3.70	1,370
1941	Dec. 18, 1940	3.16	985				
1942	Mar. 18, 1942	4.35	1,880	1956	Mar. 8, 1956	4.10	1,680
1943	June 2, 1943	4.33	1,860	1957	Apr. 12, 1957	3.49	1,220
1944	June 24, 1944	3.45	1,200	1958	June 13, 1958	2.83	1,000
1945	Mar. 21, 1945	4.11	1,600	1959	Apr. 2, 1959	3.31	1,300
				1960	Apr. 5, 1960	3.32	1,310
1946	Oct. 2, 1945	3.53	1,260				
1947	Apr. 5, 1947	4.56	2,050	1961	Apr. 25, 1961	4.02	1,900
1948	Mar. 22, 1948	3.73	1,450				

150. Conewango Creek at Russell, Pa.

Location.--Lat 41°56'20", long 79°07'55", on left bank at highway bridge in Russell, Warren County, 0.4 mile upstream from Ackley Run and 8.0 miles upstream from mouth.

Drainage area.--816 sq mi.

Gage.--Nonrecording prior to Apr. 10, 1941; recording thereafter. Datum of gage is 1,222.18 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements.

Bankful stage.--6 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Chautauqua Lake.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	10.9	14,600	1951	Dec. 6, 1950	8.91	9,770
				1952	Mar. 13, 1952	7.39	6,620
1940	Apr. 4, 1940	9.44	10,700	1953	May 31, 1953	6.20	4,570
				1954	Feb. 19, 1954	7.02	5,890
1941	Dec. 17, 1940	6.9	5,380	1955	Mar. 4, 1955	7.72	7,190
1942	Mar. 19, 1942	10.68	13,700				
1943	Dec. 31, 1942	9.32	10,600	1956	Mar. 9, 1956	10.55	14,100
1944	Apr. 14, 1944	7.88	7,720	1957	Apr. 2, 1957	6.28	4,600
1945	Mar. 8, 1945	8.92	9,670	1958	Jan. 25, 1958	8.45	8,640
				1959	Jan. 22, 1959	8.34	8,290
1946	Oct. 5, 1945	7.24	6,250	1960	Apr. 2, 1960	9.39	11,000
1947	Apr. 7, 1947	10.69	14,400				
1948	Mar. 23, 1948	9.30	10,700	1961	Apr. 27, 1961	9.21	10,400
1949	Mar. 25, 1949	6.22	4,570				
1950	Mar. 30, 1950	8.92	9,770				

BROKENSTRAW CREEK BASIN

155. Brokenstraw Creek at Youngsville, Pa.

Location.--Lat 41°51'10", long 79°19'05", on right bank 150 ft downstream from bridge on U.S. Highway 6 at Youngsville, Warren County, 500 ft upstream from Mathews Run, and 3.7 miles upstream from mouth. Records include flow of Mathews Run.

Drainage area.--321 sq mi, including that of Mathews Run.

Gage.--Nonrecording prior to June 15, 1939; recording thereafter. At site 150 ft upstream at datum 1.00 ft higher prior to Oct. 1, 1933. Oct. 1, 1933, to June 15, 1939, at site 150 ft upstream at present datum. Datum of present gage is 1,187.92 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 2, 1910	8.0	7,240	1914	Jan. 30, 1914	7.0	5,890
	Mar. 7, 1910	8.1	7,420		Mar. 28, 1914	8.8	8,500
1911	Nov. 11, 1910	6.4	4,510	1915	Feb. 1, 1915	6.2	4,820
	Jan. 2, 1911	6.5	4,660				
	Jan. 14, 1911	7.3	6,020	1916	Jan. 2, 1916	6.0	4,560
	Jan. 28, 1911	8.4	7,940		Mar. 28, 1916	8.8	8,500
	Aug. 28, 1911	7.0	5,490		Apr. 14, 1916	6.85	5,610
	Sept.15, 1911	6.2	4,640				
				1917	Mar. 12, 1917	6.4	5,080
1912	Mar. 20, 1912	7.6	6,500		June 27, 1917	7.7	5,870
	Apr. 2, 1912	8.2	7,440		July 11, 1917	6.2	4,820
1913	Jan. 8, 1913	9.2	7,590	1918	Oct. 30, 1917	6.0	4,560
	Mar. 25, 1913	12.2	18,000		Feb. 20, 1918	7.4	6,450

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Peak stages and discharges of Brokenstraw Creek at Youngsville, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 15, 1918	8.0	7,300
1919	May 11, 1919	7.8	7,010
1920	Mar. 12, 1920	9.81	10,000
1921	Mar. 7, 1921	5.55	4,080
1922	Nov. 2, 1921	5.60	4,080
1923	Mar. 4, 1923	7.2	6,170
	May 16, 1923	6.5	5,210
1924	Jan. 11, 1924	8.6	8,200
	May 10, 1924	6.4	5,080
	Sept.30, 1924	6.8	5,610
1925	Dec. 19, 1924	6.2	4,820
	Feb. 9, 1925	7.8	7,010
1926	Mar. 25, 1926	6.4	5,080
	Apr. 9, 1926	6.3	4,950
	Sept.24, 1926	6.55	5,340
1927	Oct. 26, 1926	7.9	7,150
	Nov. 16, 1926	7.4	6,380
1928	Nov. 17, 1927	8.0	7,400
	Dec. 1, 1927	7.8	7,060
	Dec. 14, 1927	7.4	6,380
	Jan. 1, 1928	7.3	6,210
	Mar. 14, 1928	6.8	5,400
	June 6, 1928	7.52	6,550
	June 24, 1928	10.75	13,800
1929	Jan. 19, 1929	8.95	9,300
1930	Jan. 9, 1930	6.4	4,580
1931	Mar. 28, 1931	4.3	3,120
1932	May 8, 1932	7.6	6,280
1933	Mar. 15, 1933	5.1	3,840
1934	Jan. 1, 1934	7.4	4,730
1935	Jan. 9, 1935	6.7	4,530
1936	Dec. 16, 1935	6.9	4,750
	Feb. 26, 1936	7.0	5,250
	Mar. 12, 1936	7.8	6,490
	Mar. 27, 1936	10.8	13,000
1937	Jan. 15, 1937	8.4	7,050
	Apr. 27, 1937	8.8	7,580
1938	Feb. 14, 1938	8.2	6,740
1939	Feb. 20, 1939	8.3	6,890
1940	Apr. 1, 1940	8.55	8,390
	Apr. 4, 1940	8.34	7,860
1941	Dec. 13, 1940	7.55	6,710
	Dec. 17, 1940	6.24	4,670
1942	Mar. 9, 1942	8.03	7,350
	Mar. 17, 1942	7.94	7,150
1943	Dec. 30, 1942	9.65	10,200
1943	Mar. 17, 1943	6.78	5,350
	May 21, 1943	6.84	5,350
1944	Mar. 17, 1944	6.76	5,350
	Apr. 12, 1944	7.18	5,990
1945	Mar. 3, 1945	7.07	5,830
	Mar. 6, 1945	7.63	6,640
	Mar. 17, 1945	6.29	4,590
	Mar. 21, 1945	7.79	6,980
	Apr. 5, 1945	6.77	5,350
1946	Oct. 3, 1945	7.22	5,990
	May 27, 1946	7.89	7,150
1947	Mar. 25, 1947	7.46	6,470
	Apr. 5, 1947	11.85	15,300
	June 3, 1947	6.77	5,370
1948	Feb. 14, 1948	6.32	4,650
	Mar. 22, 1948	11.66	15,000
	Apr. 14, 1948	6.16	4,520
1949	Mar. 24, 1949	5.50	3,650
1950	Jan. 17, 1950	6.65	4,720
	Feb. 15, 1950	7.30	5,660
	Mar. 28, 1950	9.00	8,700
	Apr. 5, 1950	7.30	5,660
1951	Nov. 20, 1950	6.56	4,720
	Dec. 4, 1950	8.70	8,100
	Jan. 4, 1951	9.19	9,140
	Feb. 21, 1951	7.06	5,380
1952	Jan. 1, 1952	7.20	5,520
	Jan. 18, 1952	8.69	8,100
	Jan. 27, 1952	8.72	8,100
	Mar. 11, 1952	8.30	7,320
1953	May 23, 1953	8.50	7,700
1954	Feb. 17, 1954	7.10	5,380
1955	Oct. 15, 1954	9.24	9,140
	Dec. 30, 1954	7.28	5,660
	Mar. 1, 1955	7.91	6,600
1956	Feb. 25, 1956	6.88	5,100
	Mar. 8, 1956	10.30	11,700
	Apr. 3, 1956	7.82	6,440
	May 13, 1956	7.26	5,660
	Aug. 5, 1956	7.70	6,280
1957	Jan. 23, 1957	9.23	9,140
	Apr. 5, 1957	7.00	5,240
	Apr. 26, 1957	8.77	8,300
	June 29, 1957	7.77	6,440
1958	Dec. 21, 1957	5.73	3,740
1959	Jan. 22, 1959	11.51	14,600
	Feb. 10, 1959	7.11	5,380
	Apr. 2, 1959	6.69	4,840
1960	Dec. 13, 1959	7.33	5,660
	Mar. 31, 1960	9.77	10,500
1961	Feb. 19, 1961	7.01	5,240
	Feb. 26, 1961	6.96	5,240
	Apr. 26, 1961	8.24	7,140

160. Allegheny River at West Hickory, Pa.

Location.--Lat 41°34'15", long 79°24'30", on right bank at downstream side of bridge on State Highway 127 at West Hickory, Forest County, 0.6 mile upstream from Siggins Run and 0.8 mile downstream from East Hickory Creek.

Drainage area.--3,660 sq mi.

Gage.--Recording. Datum of gage is 1,060.15 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--30 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Chautauqua Lake.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 18, 1942	13.44	58,000	1952	Jan. 18, 1952	12.06	48,900
1943	Dec. 30, 1942	14.51	66,400	1953	May 31, 1953	10.05	33,100
1944	Apr. 13, 1944	10.88	40,000	1954	Feb. 17, 1954	9.68	31,000
1945	Mar. 22, 1945	12.47	51,200	1955	Mar. 2, 1955	11.9	47,000
1946	May 28, 1946	12.72	52,800	1956	Mar. 8, 1956	17.20	101,000
1947	Apr. 6, 1947	15.97	84,300	1957	Jan. 23, 1957	12.92	55,300
1948	Mar. 22, 1948	15.93	83,300	1958	Apr. 7, 1958	10.54	36,600
1949	Jan. 6, 1949	8.29	23,800	1959	Jan. 22, 1959	15.6	81,600
1950	Mar. 29, 1950	13.13	57,700	1960	Mar. 31, 1960	13.60	61,500
1951	Dec. 4, 1950	12.43	51,900	1961	Apr. 20, 1961	13.73	62,400

TIONESTA CREEK BASIN

165. Tionesta Creek at Sheffield, Pa.

Location.--Lat 41°42'05", long 79°02'00", at abandoned bridge on Tionesta Valley Railway in Sheffield, Warren County, 20 ft downstream from Twomile Run, 1.3 miles downstream from Dunham Run, and 1.4 miles upstream from Dodge Run.

Drainage area.--128 sq mi.

Gage.--Nonrecording. Datum of gage is 1,317.01 ft above mean sea level (Pennsylvania Department of Highways bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 17, 1942	6.4	2,320	1945	Mar. 22, 1945	7.2	2,960
1943	Dec. 30, 1942	8.8	4,400				
1944	Apr. 12, 1944	6.0	2,130	1946	May 28, 1946	9.7	5,310

170. South Branch Tionesta Creek at Barnes, Pa.

Location.--Lat 41°40'20", long 79°01'45", at bridge on State Highway 666 at Barnes, Warren County, 0.7 mile upstream from mouth, 1.3 miles downstream from East Branch Tionesta Creek, and 2 miles south of Sheffield.

Drainage area.--85.3 sq mi.

Gage.--Nonrecording. Datum of gage is 1,306.77 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 9, 1942	5.20	1,630	1945	Apr. 5, 1945	5.78	2,230
1943	Dec. 30, 1942	10.6	3,000				
1944	Mar. 17, 1944	4.6	1,310	1946	May 28, 1946	7.50	3,300

175. Tionesta Creek at Lynch, Pa.

Location.--Lat 41°36'05", long 79°03'00", on left bank at downstream side of highway bridge at Lynch, Forest County, 500 ft upstream from Bluejay Creek and 7 miles south of Sheffield.

Drainage area.--233 sq mi.

Gage.--Recording. Datum of gage is 1,252.43 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs and extended above on basis of slope-area measurement at 15,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 6, 1938	-	ab5,200	1949	Jan. 6, 1949	4.39	1,960
					Jan. 28, 1949	4.38	1,960
1939	Feb. 20, 1939	5.75	3,500				
				1950	Feb. 14, 1950	6.15	3,730
1940	Apr. 4, 1940	8.30	6,250		Mar. 29, 1950	7.18	4,870
					Apr. 5, 1950	6.26	3,840
1941	Dec. 13, 1940	7.10	4,750				
				1951	Nov. 26, 1950	7.70	5,470
1942	Mar. 9, 1942	6.42	3,950		Dec. 4, 1950	6.74	4,280
	Mar. 17, 1942	6.53	4,060		Jan. 4, 1951	6.61	4,170
					Feb. 21, 1951	6.68	4,280
1943	Dec. 30, 1942	9.64	9,900		Mar. 4, 1951	6.64	4,170
	Mar. 17, 1943	6.14	3,620		June 10, 1951	6.04	3,510
1944	Mar. 17, 1944	5.78	3,300	1952	Jan. 18, 1952	9.44	9,400
					Jan. 20, 1952	6.64	4,170
1945	Feb. 22, 1945	c6.53	-		Jan. 27, 1952	9.29	9,150
	Mar. 4, 1945	6.53	4,060		Mar. 11, 1952	6.77	4,390
	Mar. 7, 1945	6.68	4,280				
	Mar. 22, 1945	7.19	4,870	1953	May 23, 1953	9.20	8,900
	Apr. 5, 1945	6.82	4,390		May 26, 1953	-	-
					May 31, 1953	-	-
1946	Oct. 2, 1945	6.40	3,950				
	Jan. 6, 1946	c6.23	-	1954	Mar. 1, 1954	7.37	5,110
	May 28, 1946	10.26	12,000				
				1955	Oct. 16, 1954	10.06	11,400
1947	Apr. 5, 1947	9.67	10,200		Mar. 1, 1955	7.36	5,110
	June 3, 1947	6.80	4,390		Mar. 4, 1955	6.76	4,390
1948	Feb. 14, 1948	c7.60	-	1956	Feb. 25, 1956	5.98	3,510
	Mar. 22, 1948	9.89	10,800		Mar. 8, 1956	10.0	11,100
	Apr. 12, 1948	-	-		Apr. 4, 1956	6.45	3,950
	Apr. 14, 1948	-	-		May 13, 1956	7.01	4,630

a Estimated maximum discharge.
b Annual peak only.
c Backwater from ice.

Peak stages and discharges of Tionesta Creek at Lynch, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Sept. 6, 1956	7.69	5,470	1960	Dec. 13, 1959	6.10	3,620
					Mar. 31, 1960	7.38	5,250
1957	Jan. 23, 1957	7.33	4,990		June 15, 1960	6.11	3,730
1958	July 15, 1958	6.08	3,620	1961	Feb. 26, 1961	7.9	6,000
					Apr. 26, 1961	6.15	3,730
1959	Jan. 22, 1959	11.25	15,000		June 10, 1961	6.66	4,300
	Feb. 10, 1959	6.74	4,300				
	June 25, 1959	5.98	3,510				

180. Tionesta Creek at Mayburg, Pa.

Location.--Lat 41°35'35", long 79°12'55", at combination highway and railroad bridge in Mayburg, Forest County, 300 ft upstream from unnamed run, 0.8 mile downstream from Kingsley Run, and 2.2 miles upstream from Panther Run.

Drainage area.--307 sq mi.

Gage.--Nonrecording. Datum of gage is 1,180.25 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 17, 1942	6.4	5,940	1945	Mar. 22, 1945	6.6	6,380
1943	Dec. 30, 1942	8.19	10,400				
1944	Mar. 17, 1944	5.8	4,760	1946	May 28, 1946	8.55	11,600

190. Tionesta Creek at Nebraska, Pa.

Location.--Lat 41°28'25", long 79°23'05", on right bank 500 ft downstream from highway bridge at Nebraska, Forest County, and a third of a mile downstream from mouth of Coon Creek.

Drainage area.--469 sq mi.

Gage.--Nonrecording. At site 1,300 ft downstream at datum 1.22 ft lower prior to Sept. 30, 1912. Aug. 5, 1923, to July 6, 1933, at site 500 ft upstream (Aug. 5, 1923 to Sept. 30, 1925 at datum 3.14 ft lower). Datum of gage is 1,079.00 ft above mean sea level (Pennsylvania State Highway bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 7, 1910	7.0	7,975	1931	Mar. 29, 1931	7.10	5,140
				1932	May 8, 1932	10.5	11,400
1911	Jan. 14, 1911	7.68	8,880	1933	Mar. 21, 1933	7.10	5,140
				1934	Mar. 4, 1934	11.4	10,600
1924	Sept.30, 1924	12.70	9,500	1935	Feb. 26, 1935	9.5	8,010
1925	Feb. 12, 1925	12.6	9,300				
				1936	Mar. 17, 1936	9.3	14,400
1926	Apr. 9, 1926	7.5	5,730	1937	Jan. 25, 1937	9.87	16,400
1927	May 25, 1927	8.9	8,110	1938	Mar. 6, 1938	7.8	10,000
1928	Nov. 17, 1927	11.60	14,300	1939	Feb. 20, 1939	6.2	6,260
1929	Feb. 27, 1929	9.90	10,100	1940	Apr. 4, 1940	8.5	12,000
1930	Nov. 18, 1929	9.0	8,300				

200. Tionesta Creek at Tionesta Creek Dam, Pa.

Location.--Lat 41°28'45", long 79°26'45", on left bank 100 ft downstream from outlet tunnel at Tionesta Creek Dam, Forest County, 0.3 mile southeast of Tionesta, and 0.9 mile upstream from mouth.

Drainage area.--479 sq mi.

Gage.--Nonrecording prior to Aug. 9, 1940; recording Aug. 10, 1940, to Mar. 17, 1945; nonrecording Mar. 18, 1945, to June 30, 1954; recording thereafter. At site 200 ft downstream at datum 2.50 ft higher prior to Mar. 18, 1945. At present site at datum 1.50 ft higher Mar. 18, 1945, to Dec. 6, 1960. Datum of present gage is 1,043.43 ft above mean sea level, unadjusted.

Bankfull stage.--22 ft.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 13, 1940	8.80	7,310	1952	Jan. 29, 1952	8.90	9,550
1942	Apr. 13, 1942	6.37	5,240	1953	May 27, 1953	7.55	6,800
1943	Jan. 5, 1943	4.43	7,180	1954	Apr. 28, 1954	8.20	7,940
1944	Apr. 16, 1944	3.48	4,370	1955	Mar. 7, 1955	8.61	7,660
1945	Mar. 9, 1945	8.55	7,980	1956	Mar. 12, 1956	8.80	9,960
1946	June 6, 1946	8.89	10,300	1957	Apr. 10, 1957	7.48	6,310
1947	Apr. 12, 1947	7.29	6,670	1958	May 9, 1958	7.44	6,060
1948	Mar. 25, 1948	8.95	7,930	1959	Jan. 25, 1959	a9.90	7,560
1949	Jan. 31, 1949	6.63	5,630	1960	Apr. 6, 1960	7.79	7,060
1950	Mar. 31, 1950	8.63	6,750	1961	Mar. 2, 1961	8.70	9,450
1951	Feb. 24, 1951	7.40	6,720				

a Occurred Jan. 22, 1959; backwater from Allegheny River.

OIL CREEK BASIN

205. Oil Creek at Rouseville, Pa.
(Published as "near Rouseville" October 1916 to September 1932)

Location.--Lat 41°28'55", long 79°41'40", on right bank 200 ft downstream from bridge on State Highway 8, 200 ft upstream from Cherrytree Run, and 1 mile upstream from Rouseville, Venango County. Records include flow of Cherrytree Run.

Drainage area.--300 sq mi, including that of Cherrytree Run.

Gage.--Nonrecording prior to June 9, 1941; recording thereafter. Prior to June 1, 1932, at site 1½ miles downstream at different datum. Datum of gage is 1,028.33 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 1, 1910	5.8	8,240	1915	Feb. 2, 1915	5.0	6,060
1911	Jan. 14, 1911	5.2	6,580	1916	Jan. 6, 1916	4.6	5,040
	Jan. 28, 1911	6.0	8,900		Mar. 28, 1916	6.6	10,800
	Aug. 29, 1911	5.0	6,120	1917	Mar. 12, 1917	5.5	7,360
1912	Mar. 30, 1912	4.95	6,060		June 7, 1917	4.6	5,040
1913	Jan. 8, 1913	5.6	7,640	1918	Oct. 30, 1917	4.8	5,540
	Mar. 25, 1913	7.0	11,900		Feb. 20, 1918	6.1	9,320
					Mar. 14, 1918	6.1	9,320
1914	Jan. 30, 1914	5.2	6,600				
	Mar. 28, 1914	5.4	7,150	1919	May 11, 1919	5.63	7,930
	May 13, 1914	4.7	5,290				

Peak stages and discharges of Oil Creek at Rouseville, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 13, 1920	7.1	12,000
1921	Apr. 30, 1921	4.6	5,040
1922	Nov. 2, 1921	4.6	5,040
1923	Mar. 5, 1923	4.6	5,040
1924	Jan. 11, 1924	6.1	9,180
	Sept.29, 1924	5.0	6,060
1925	Feb. 10, 1925	4.91	5,800
1926	Sept.25, 1926	5.00	6,060
1927	Oct. 25, 1926	5.2	6,590
	Nov. 16, 1926	5.47	7,680
	May 24, 1927	4.8	5,530
1928	Nov. 17, 1927	5.1	6,320
	Dec. 1, 1927	5.70	8,000
	Dec. 14, 1927	5.20	6,590
	Mar. 14, 1928	4.6	5,030
	June 6, 1928	4.8	5,530
	June 24, 1928	5.4	7,140
1929	Dec. 1, 1928	4.8	5,540
	Jan. 19, 1929	6.2	9,500
	May 3, 1929	5.0	6,050
	May 15, 1929	5.0	6,050
1930	Nov. 18, 1929	4.9	5,790
1931	Apr. 4, 1931	-	-
1932	Jan. 18, 1932	4.8	5,530
	May 8, 1932	5.9	8,600
1933	Mar. 14, 1933	7.2	5,430
	June 8, 1933	7.1	5,250
1934	Jan. 1, 1934	8.2	7,320
1935	Jan. 9, 1935	6.9	4,370
1936	Feb. 27, 1936	7.7	6,060
	Mar. 12, 1936	7.8	6,270
	Mar. 27, 1936	9.6	9,720
1937	Jan. 15, 1937	9.0	8,380
	Jan. 18, 1937	7.9	6,480
	Jan. 21, 1937	8.4	7,600
	Jan. 25, 1937	9.85	10,200
	Apr. 26, 1937	9.4	9,240
	June 14, 1937	7.4	5,450
1938	Dec. 18, 1937	7.4	5,450
	Feb. 10, 1938	7.6	5,850
	Feb. 14, 1938	7.6	5,850
	Mar. 6, 1938	7.7	6,060
1939	Feb. 20, 1939	8.3	7,370
	Apr. 15, 1939	7.5	5,650
1940	Mar. 31, 1940	8.0	6,600
	Apr. 4, 1940	8.20	7,020
1941	Dec. 13, 1940	8.8	8,460
1942	Mar. 9, 1942	8.45	7,560
	Mar. 17, 1942	7.73	6,060
1943	Dec. 29, 1942	9.67	10,200
1944	Jan. 28, 1944	a7.53	-
	Apr. 12, 1944	7.30	5,310
1945	Feb. 22, 1945	a8.04	-
	Mar. 4, 1945	7.39	5,130
	Mar. 6, 1945	7.70	5,690
	Mar. 21, 1945	7.86	6,480
	Apr. 5, 1945	7.50	5,690
1946	Oct. 2, 1945	7.28	5,310
	May 28, 1946	11.20	16,300
	June 13, 1946	7.52	5,690
1947	Mar. 25, 1947	7.54	5,670
	Apr. 6, 1947	9.03	8,580
1948	Feb. 14, 1948	b10.43	5,490
	Mar. 22, 1948	11.29	16,800
1949	Jan. 6, 1949	6.43	3,860
1950	Feb. 14, 1950	8.62	7,780
	Mar. 28, 1950	7.92	6,430
	Apr. 5, 1950	7.29	5,310
1951	Dec. 4, 1950	8.70	7,980
	Jan. 4, 1951	9.31	9,240
	Feb. 21, 1951	8.03	6,620
	Mar. 4, 1951	7.64	5,860
1952	Jan. 1, 1952	7.47	5,670
	Jan. 18, 1952	9.16	9,020
	Jan. 27, 1952	9.85	10,500
	Mar. 11, 1952	9.24	9,020
1953	May 23, 1953	8.92	8,360
	May 26, 1953	9.05	8,580
	May 31, 1953	8.00	6,500
1954	Mar. 1, 1954	7.47	5,670
	Apr. 17, 1954	7.64	5,860
1955	Oct. 16, 1954	11.55	18,600
1956	Feb. 25, 1956	8.25	7,000
	Mar. 8, 1956	8.70	7,980
	May 13, 1956	9.18	9,020
	Aug. 19, 1956	7.26	5,310
1957	Jan. 23, 1957	9.53	9,720
	Apr. 6, 1957	7.85	6,240
	Apr. 25, 1957	8.36	7,380
	June 29, 1957	9.15	9,020
1958	June 13, 1958	6.62	4,100
1959	Jan. 22, 1959	11.97	21,000
	Feb. 11, 1959	8.64	7,780
1960	Dec. 13, 1959	8.44	7,380
	Mar. 31, 1960	9.80	10,500
1961	Apr. 26, 1961	7.21	5,130

a Backwater from ice.
b Occurred at different time than peak discharge.

215. French Creek at Carters Corners, Pa.
(Published as North Branch French Creek at Kimmeytown, 1910-14, and as "at Kimmeytown" 1915-32)

Location.--Lat 41°57'20", long 79°52'40", on left bank 400 ft upstream from highway bridge at Carters Corners, Erie County, 4 miles northwest of Union City, and 5 miles upstream from South Branch.

Drainage area.--208 sq mi.

Gage.--Nonrecording prior to Dec. 22, 1948; recording thereafter. At site 400 ft downstream at same datum prior to Dec. 22, 1948. Datum of gage is 1,253.7 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of slope-area measurement at 20,000 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Jan. 28, 1911	11.40	12,000
1912	Mar. 20, 1912	8.5	5,400
	Apr. 1, 1912	9.3	6,620
1913	Oct. 23, 1912	7.8	4,620
	Jan. 8, 1913	9.3	6,620
	Jan. 18, 1913	9.65	7,180
	Mar. 25, 1913	12.66	16,600
1914	Nov. 14, 1913	8.3	5,170
	Jan. 30, 1914	8.2	5,060
	Mar. 28, 1914	10.8	10,200
	May 13, 1914	7.8	4,620
1915	Aug. 4, 1915	9.0	6,120
1916	Mar. 27, 1916	12.4	15,400
	Apr. 14, 1916	8.1	4,950
1917	Mar. 12, 1917	10.7	9,940
	July 11, 1917	8.2	5,070
1918	Oct. 30, 1917	8.6	5,560
	Feb. 20, 1918	a16.0	-
	Mar. 14, 1918	10.5	9,380
1919	May 11, 1919	8.9	5,960
1920	Mar. 12, 1920	a15.2	-
	Mar. 17, 1920	6.96	3,600
1921	Feb. 17, 1921	7.20	3,920
1922	Nov. 18, 1921	6.5	3,230
1923	Mar. 4, 1923	8.5	5,430
1924	Dec. 7, 1923	8.0	4,830
	Jan. 11, 1924	8.52	5,430
1925	Feb. 10, 1925	9.9	7,260
1926	Jan. 22, 1926	a9.26	-
	Mar. 25, 1926	8.3	5,190
	Sept.25, 1926	8.2	5,070
1927	Oct. 25, 1926	8.5	5,430
	Jan. 22, 1927	a11.0	-
1928	Dec. 1, 1927	10.1	8,300
	Dec. 14, 1927	9.8	7,600
	Dec. 31, 1927	10.28	8,820
	Mar. 14, 1928	9.3	6,620
1929	Jan. 19, 1929	10.10	8,300
	May 3, 1929	9.4	6,800
1930	Dec. 18, 1929	7.7	4,470
1930	Feb. 20, 1930	a8.0	-
1931	Mar. 29, 1931	7.4	4,160
1932	Mar. 27, 1932	7.6	4,360
1933	Dec. 31, 1932	7.7	4,470
1934	Jan. 1, 1934	8.7	5,570
	Mar. 4, 1934	7.9	4,690
1935	Jan. 9, 1935	7.7	4,470
1936	Feb. 26, 1936	8.8	5,820
	Mar. 12, 1936	8.7	5,680
	Mar. 25, 1936	10.6	9,660
	Mar. 28, 1936	9.8	7,600
1937	Jan. 15, 1937	8.8	5,990
	Jan. 25, 1937	10.5	9,380
	Apr. 26, 1937	11.5	12,300
1938	Feb. 9, 1938	8.6	5,730
	Feb. 13, 1938	9.8	7,360
	Mar. 6, 1938	8.5	5,600
	Sept.15, 1938	8.6	5,730
	Sept.23, 1938	7.8	4,730
1939	Feb. 20, 1939	10.90	10,500
1940	Apr. 1, 1940	8.4	5,400
	Apr. 4, 1940	9.2	6,420
1941	Dec. 13, 1940	8.2	5,160
	Mar. 4, 1941	a8.23	-
1942	Mar. 17, 1942	11.2	11,400
1943	Dec. 30, 1942	9.3	6,550
	June 3, 1943	7.9	4,800
1944	Jan. 27, 1944	8.0	4,920
	Mar. 17, 1944	8.1	5,040
	Apr. 12, 1944	9.2	6,420
1945	Mar. 6, 1945	9.1	6,290
1946	Oct. 2, 1945	8.88	6,030
	June 1, 1946	8.00	4,920
1947	Mar. 15, 1947	7.9	4,800
	Mar. 25, 1947	8.6	5,640
	Apr. 5, 1947	13.50	20,000
	June 3, 1947	7.8	4,580
1948	Mar. 22, 1948	10.95	10,800
1949	Mar. 23, 1949	7.95	4,170

a Backwater from ice.

Peak stages and discharges of French Creek at Carters Corners, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 15, 1950	9.07	5,550	1956	Mar. 6, 1956	10.59	7,860
	Mar. 28, 1950	10.42	7,480				
	Apr. 5, 1950	8.43	4,650	1957	Dec. 7, 1956	10.25	7,140
					Jan. 23, 1957	12.69	14,300
1951	Nov. 21, 1950	8.92	5,290				
	Dec. 4, 1950	11.85	10,900	1958	Mar. 2, 1958	a10.54	3,200
	Jan. 4, 1951	11.47	10,000				
				1959	Jan. 22, 1959	12.52	13,500
1952	Jan. 2, 1952	8.85	5,160				
	Jan. 27, 1952	8.39	4,650	1960	Dec. 13, 1959	8.65	4,930
	Mar. 11, 1952	9.95	6,820		Jan. 13, 1960	10.66	8,060
					Feb. 11, 1960	8.33	4,580
1953	May 26, 1953	7.10	3,260		Mar. 31, 1960	12.42	13,100
1954	Jan. 27, 1954	8.33	4,530	1961	Feb. 19, 1961	9.89	6,660
					Apr. 25, 1961	11.05	8,740
1955	Oct. 16, 1954	10.70	8,060				

a Backwater from ice.

220. French Creek at Venango, Pa.

Location.--Lat 41°46'35", long 80°06'30", at highway bridge at Venango, Crawford County, 1.5 miles upstream from Gravel Run, and 2.0 miles downstream from Boles Run.

Drainage area.--597 sq mi.

Gage.--Nonrecording. Datum of gage is 1,117.18 ft above mean sea level (Corps of Engineers, U.S. Army, bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of slope-area measurement at 21,000 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 7,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	11.70	12,500	1944	Feb. 28, 1944	9.0	7,600
					Mar. 18, 1944	9.1	7,760
1940	Apr. 1, 1940	11.1	11,300		Apr. 13, 1944	11.4	11,900
1941	Dec. 14, 1940	9.7	8,780	1945	Feb. 25, 1945	10.1	9,480
					Mar. 7, 1945	11.4	11,900
1942	Mar. 10, 1942	9.8	8,610				
	Mar. 18, 1942	12.4	13,900	1946	Oct. 3, 1945	10.6	10,400
1943	Dec. 30, 1942	13.0	15,200	1947	April 1947	17.0	21,000
	Mar. 18, 1943	9.6	8,610				

225. French Creek at Saegerstown, Pa.

Location.--Lat 41°42'50", long 80°08'50", on upstream side of highway bridge at Saegerstown, Crawford County, half a mile upstream from Woodcock Creek.

Drainage area.--629 sq mi.

Gage.--Nonrecording. Datum of gage is 1,093.74 ft above mean sea level (Pennsylvania Department of Highways bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended on basis of slope-area measurement.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges of French Creek at Saegerstown, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	17.9	26,300	1930	Jan. 14, 1930	10.4	8,400
1922	Nov. 2, 1921	9.54	6,910	1931	Apr. 3, 1931	8.49	5,710
1923	Mar. 5, 1923	11.38	10,900	1932	May 9, 1932	9.52	7,220
1924	Jan. 12, 1924	11.30	10,600	1933	Mar. 15, 1933	9.36	7,070
1925	Oct. 1, 1924	10.26	8,400	1934	Jan. 3, 1934	12.0	11,800
	Feb. 10, 1925	12.0	12,000		Mar. 5, 1934	11.7	11,200
1926	Feb. 26, 1926	a11.4	-	1935	Jan. 10, 1935	9.60	7,370
	Mar. 26, 1926	10.80	9,460				
	Sept.26, 1926	10.74	9,240	1936	Feb. 28, 1936	12.20	12,200
					Mar. 13, 1936	11.15	10,300
1927	Oct. 26, 1926	11.64	11,300		Mar. 26, 1936	13.80	15,400
	Nov. 17, 1926	10.47	8,800				
				1937	Jan. 16, 1937	12.20	12,200
1928	Dec. 2, 1927	12.5	12,800		Jan. 26, 1937	13.24	14,300
	Dec. 15, 1927	11.2	9,600		Apr. 27, 1937	13.20	14,300
	Jan. 1, 1928	12.80	13,400		June 21, 1937	13.0	13,900
	Mar. 15, 1928	10.46	8,550				
				1938	Feb. 11, 1938	10.7	9,340
1929	Jan. 20, 1929	15.90	20,800		Feb. 14, 1938	12.2	12,000
	Feb. 28, 1929	10.0	8,120		Mar. 7, 1938	10.3	8,630
	May 4, 1929	11.8	11,400				
				1939	Feb. 21, 1939	12.40	12,600
1930	Jan. 10, 1930	10.8	9,000				

a Backwater from ice.

230. Cussewago Creek near Meadville, Pa.

(Published as "at Jones Farm, above Meadville" prior to January 1913, and "above Meadville" 1913 and 1916)

Location.--Lat 41°40'20", long 80°12'55", at highway bridge 4 miles northwest of Meadville, Crawford County, and 4½ miles upstream from mouth.

Drainage area.--90.2 sq mi.

Gage.--Nonrecording. Datum of gage is 1,071.77 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 970 cfs and extended above by logarithmic plotting on basis of velocity-area study.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 1,150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Dec. 31, 1910	10.4	1,180	1918	Oct. 25, 1917	10.8	1,340
	Jan. 4, 1911	10.8	1,340		Oct. 31, 1917	10.4	1,180
	Jan. 13, 1911	10.5	1,220		Feb. 15, 1918	11.1	1,480
					Mar. 15, 1918	11.0	1,430
1912	Nov. 19, 1911	10.4	1,180				
	Mar. 18, 1912	a10.5	-	1919	May 11, 1919	10.72	1,210
	Mar. 30, 1912	10.7	1,300				
				1920	Mar. 12, 1920	a13.59	1,700
1913	Oct. 24, 1912	10.8	1,340				
	Jan. 7, 1913	11.1	1,480	1921	Nov. 23, 1920	10.1	1,060
	Jan. 19, 1913	11.4	1,630				
	Mar. 25, 1913	16.0	5,250	1922	Nov. 2, 1921	11.36	1,630
					Nov. 19, 1921	10.64	1,260
1914	Nov. 14, 1913	11.1	1,480				
	Jan. 30, 1914	a10.8	-	1923	Mar. 4, 1923	10.63	1,260
	Mar. 28, 1914	10.6	1,260				
	May 13, 1914	10.9	1,380	1924	Jan. 12, 1924	11.15	1,530
					May 10, 1924	10.6	1,260
1915	Feb. 2, 1915	11.50	1,680		Sept.30, 1924	10.6	1,260
	Aug. 5, 1915	12.5	2,230				
				1925	Feb. 9, 1925	11.3	1,580
1916	Dec. 19, 1915	10.40	1,180				
	Jan. 3, 1916	11.70	1,780	1926	Mar. 21, 1926	a10.5	-
	Mar. 28, 1916	13.3	2,760		Sept.25, 1926	12.0	1,930
1917	Mar. 12, 1917	11.1	1,480	1927	Oct. 26, 1926	11.2	1,530

a Backwater from ice.

Peak stages and discharges of Cussewago Creek near Meadville, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Nov. 17, 1926	10.7	1,300	1934	Nov. 23, 1933	10.8	1,340
	Jan. 23, 1927	10.8	1,340		Jan. 2, 1934	10.5	1,220
					Mar. 5, 1934	10.84	1,340
1928	Dec. 1, 1927	11.72	1,780				
	Dec. 14, 1927	10.9	1,380	1935	Jan. 22, 1935	10.4	1,180
	Jan. 1, 1928	10.7	1,300		Feb. 16, 1935	10.9	1,380
	Feb. 9, 1928	10.4	1,180				
				1936	Feb. 27, 1936	11.5	1,680
1929	Jan. 19, 1929	12.69	2,350		Mar. 25, 1936	13.30	2,760
	Feb. 27, 1929	11.7	1,780				
	May 3, 1929	11.4	1,630	1937	Jan. 15, 1937	12.0	1,930
					Jan. 25, 1937	13.0	2,550
1930	Jan. 3, 1930	10.30	1,140		Apr. 27, 1937	11.7	1,780
					June 22, 1937	12.4	2,170
1931	Dec. 8, 1930	9.60	890				
				1938	Dec. 19, 1937	10.6	1,260
1932	May 9, 1932	10.7	1,300		Feb. 10, 1938	11.3	1,580
					Feb. 18, 1938	10.8	1,340
1933	Jan. 1, 1933	10.5	1,220				

235. French Creek at Carlton, Pa.

Location.--Lat 41°28'15", long 80°01'05", on downstream side of highway bridge at Carlton, Mercer County, half a mile downstream from Powdermill Run.

Drainage area.--998 sq mi.

Gage.--Nonrecording. Datum of gage is 1,033.60 ft above mean sea level, datum of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs and extended on basis of logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	May 2, 1909	11.60	20,000	1917	Mar. 13, 1917	9.6	11,700
1910	Mar. 3, 1910	12.00	21,200	1918	Mar. 16, 1918	11.2	16,000
				1919	May 12, 1919	10.8	15,000
1911	Jan. 15, 1911	10.6	17,000	1920	Mar. 14, 1920	13.50	25,000
1912	Mar. 21, 1912	10.7	17,300				
1913	Mar. 27, 1913	16.5	38,000	1921	Mar. 8, 1921	8.0	8,550
1914	Mar. 30, 1914	10.9	17,800	1922	Nov. 3, 1921	8.70	9,840
1915	Aug. 6, 1915	9.98	12,700	1923	Mar. 6, 1923	9.85	12,200
				1924	Jan. 13, 1924	10.0	12,700
1916	Mar. 29, 1916	13.3	24,100	1925	Feb. 11, 1925	10.75	14,800

240. French Creek at Utica, Pa.

Location.--Lat 41°26'15", long 79°57'20", on right bank at upstream side of bridge on State Highway 964 at Utica, Venango County, a third of a mile upstream from Mill Creek.

Drainage area.--1,028 sq mi.

Gage.--Nonrecording prior to Nov. 27, 1933; recording thereafter. Datum of gage is 1,019.54 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of French Creek at Utica, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	15.7	35,600	1947	Apr. 7, 1947	12.25	20,400
				1948	Mar. 23, 1948	12.32	20,700
1933	Mar. 16, 1933	8.6	9,790	1949	Mar. 25, 1949	8.13	8,660
1934	Mar. 6, 1934	9.46	11,700	1950	Mar. 30, 1950	10.24	14,100
1935	Jan. 11, 1935	8.16	8,830				
				1951	Dec. 5, 1950	11.81	19,000
1936	Mar. 27, 1936	11.57	16,800	1952	Jan. 28, 1952	10.21	14,100
1937	Jan. 26, 1937	10.88	16,800	1953	June 1, 1953	8.71	10,100
1938	Feb. 15, 1938	9.69	13,000	1954	Mar. 3, 1954	8.87	10,600
1939	Feb. 22, 1939	9.58	12,700	1955	Oct. 17, 1954	11.05	16,400
1940	Apr. 2, 1940	10.00	13,900				
				1956	Mar. 9, 1956	11.48	17,900
1941	Dec. 14, 1940	8.85	9,390	1957	Jan. 24, 1957	10.80	15,800
1942	Mar. 19, 1942	10.14	14,100	1958	July 15, 1958	9.24	11,300
1943	Dec. 31, 1942	11.49	17,400	1959	Jan. 24, 1959	11.91	19,300
1944	Apr. 14, 1944	10.15	14,100	1960	Apr. 1, 1960	12.69	22,100
1945	Mar. 8, 1945	10.35	14,600				
				1961	Feb. 21, 1961	10.60	15,200
1946	May 28, 1946	10.15	14,100				

245. Sugar Creek at Wyattville, Pa.

Location.--Lat 41°26'55", long 79°53'55", at steel bridge on present U.S. Highway 322 at Wyattville, Venango County, 3 miles upstream from mouth.

Drainage area.--153 sq mi.

Gage.--Nonrecording. Datum of gage is 1,050.96 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements and extended above 1,400 cfs by logarithmic plotting.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept.15, 1911	6.6	4,240	1915	July 17, 1915	7.04	4,900
1912	Mar. 29, 1912	5.8	3,030				
1913	Mar. 25, 1913	9.4	10,000	1916	Mar. 28, 1916	7.95	6,800
1914	Mar. 28, 1914	6.69	4,400				

250. Sugar Creek at Sugarcreek, Pa.

Location.--Lat 41°25'45", long 79°52'45", on right bank at downstream side of highway bridge, three-quarters of a mile north of Sugarcreek, Venango County, three-quarters of a mile upstream from mouth, and 3 miles northwest of Franklin.

Drainage area.--166 sq mi.

Gage.--Nonrecording prior to Dec. 8, 1939; recording thereafter. At same site at datum 3.00 ft higher Aug. 20, 1932, to Aug. 31, 1948; at datum 2.20 ft higher Sept. 1, 1948, to Nov. 11, 1952; at datum 1.00 ft higher Nov. 12, 1952, to Sept. 30, 1960. Datum of present gage is 1,013.03 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Sugar Creek at Sugarcreek, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Mar. 14, 1933	5.96	3,630
1934	Jan. 1, 1934	6.03	3,630
1935	Jan. 21, 1935	5.12	2,060
1936	Feb. 27, 1936	7.3	6,080
	Mar. 25, 1936	6.8	5,090
1937	Jan. 8, 1937	5.7	3,130
	Jan. 15, 1937	7.5	6,500
	Jan. 18, 1937	5.9	3,460
	Jan. 21, 1937	6.8	5,090
	Jan. 25, 1937	8.5	8,690
	Apr. 26, 1937	7.8	7,130
	June 14, 1937	6.7	4,900
	July 16, 1937	6.0	3,630
1938	Dec. 18, 1937	6.7	4,900
	Feb. 9, 1938	6.1	3,800
	Feb. 13, 1938	6.3	4,160
	Mar. 5, 1938	6.2	3,980
	Apr. 9, 1938	6.6	4,390
1939	Feb. 20, 1939	6.2	3,570
1940	Mar. 30, 1940	6.47	4,070
	Apr. 4, 1940	6.32	3,770
	Apr. 9, 1940	6.19	3,570
1941	Dec. 13, 1940	6.14	3,210
1942	Feb. 17, 1942	6.16	3,480
	Mar. 9, 1942	7.10	5,490
	Mar. 14, 1942	5.95	3,160
	Mar. 17, 1942	7.15	5,600
	Apr. 10, 1942	6.10	3,410
1943	Dec. 29, 1942	7.55	6,680
	Feb. 11, 1943	6.10	3,530
1944	Apr. 11, 1944	5.73	3,020
1945	Feb. 22, 1945	6.37	3,980
	Feb. 27, 1945	6.26	3,790
	Mar. 3, 1945	6.23	3,790
	Mar. 6, 1945	5.94	3,300
	Mar. 21, 1945	6.63	4,570
	Apr. 5, 1945	6.17	3,620
1946	May 28, 1946	8.49	10,000
1947	Apr. 5, 1947	6.53	4,320
1948	Feb. 14, 1948	6.34	3,930
1948	Mar. 20, 1948	6.20	3,660
	Mar. 22, 1948	7.73	7,450
1949	Jan. 6, 1949	5.19	2,610
1950	Jan. 16, 1950	5.80	3,330
	Feb. 14, 1950	7.02	5,020
	Mar. 26, 1950	7.56	5,960
	Apr. 5, 1950	5.86	3,470
1951	Dec. 4, 1950	6.68	4,570
	Dec. 8, 1950	5.83	3,340
	Jan. 4, 1951	6.66	4,680
	Feb. 21, 1951	5.43	3,040
	Mar. 4, 1951	6.29	4,140
1952	Jan. 1, 1952	5.54	3,150
	Jan. 18, 1952	7.41	6,050
	Jan. 20, 1952	5.49	3,530
	Jan. 27, 1952	7.95	7,010
	Feb. 4, 1952	5.17	3,230
	Mar. 11, 1952	5.92	4,010
1953	May 26, 1953	7.27	4,250
	May 31, 1953	9.01	7,050
1954	Mar. 1, 1954	6.51	3,510
	Apr. 17, 1954	6.58	3,640
1955	Oct. 16, 1954	9.20	9,480
	Dec. 30, 1954	5.89	3,580
	Mar. 4, 1955	5.94	3,580
1956	Nov. 16, 1955	7.12	5,360
	Feb. 25, 1956	8.37	7,700
	Mar. 8, 1956	6.66	4,650
	May 13, 1956	8.76	8,560
	Aug. 19, 1956	6.51	4,350
1957	Jan. 23, 1957	7.30	5,620
	Apr. 6, 1957	5.83	3,390
	June 29, 1957	6.83	4,800
1958	July 15, 1958	8.35	7,700
1959	Jan. 21, 1959	-	9,600
	Feb. 10, 1959	7.43	5,790
1960	Dec. 13, 1959	6.73	4,650
	Mar. 31, 1960	8.25	7,300
1961	Feb. 19, 1961	6.97	3,470
	Apr. 26, 1961	7.20	3,730

OHIO RIVER MAIN STEM

255. Allegheny River at Franklin, Pa.

Location.--Lat 41°23'25", long 79°49'10", on right bank at downstream side of Eighth Street Bridge on U.S. Highway 62 at Franklin, Venango County, 1,000 ft downstream from French Creek.

Drainage area.--5,982 sq mi.

Gage.--Nonrecording prior to Sept. 16, 1932; recording thereafter. At datum 2.00 ft higher prior to Oct. 1, 1932. Datum of gage is 955.92 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 120,000 cfs.

Bankfull stage.--17 ft.

Remarks.--Flow regulated by Chautauqua Lake and since December 1940 by Tionesta Creek Reservoir. Only annual peaks are shown.

Peak stages and discharges of Allegheny River at Franklin, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	25.0	196,000	1937	Jan. 25, 1937	17.93	106,000
				1938	Feb. 14, 1938	13.86	67,600
1913	Mar. 26, 1913	24.6	191,000	1939	Feb. 21, 1939	15.24	77,900
				1940	Apr. 4, 1940	16.98	99,000
1915	Feb. 2, 1915	10.4	54,900				
				1941	Dec. 13, 1940	13.78	67,200
1916	Mar. 29, 1916	17.2	121,000	1942	Mar. 18, 1942	16.16	88,000
1917	Mar. 12, 1917	a26.0	59,900	1943	Dec. 31, 1942	18.17	110,000
1918	Mar. 15, 1918	16.1	108,000	1944	Apr. 13, 1944	13.61	63,100
1919	May 11, 1919	12.7	70,100	1945	Mar. 7, 1945	15.81	83,900
1920	Mar. 13, 1920	18.65	138,000				
				1946	May 28, 1946	17.98	107,000
1921	Mar. 7, 1921	9.9	49,600	1947	Apr. 6, 1947	19.05	115,000
1922	Apr. 1, 1922	9.05	43,300	1948	Mar. 22, 1948	20.36	132,000
1923	Mar. 5, 1923	12.59	69,300	1949	Jan. 6, 1949	10.49	38,400
1924	Jan. 11, 1924	12.55	69,300	1950	Mar. 29, 1950	15.93	83,800
1925	Feb. 12, 1925	12.8	70,900				
				1951	Dec. 4, 1950	16.09	84,400
1926	Mar. 24, 1926	b26.0	65,800	1952	Jan. 27, 1952	15.45	77,700
1927	Nov. 17, 1926	11.4	60,100	1953	May 31, 1953	13.77	63,400
1928	Dec. 1, 1927	17.22	121,000	1954	Feb. 17, 1954	12.04	48,700
1929	Jan. 19, 1929	15.00	96,400	1955	Oct. 16, 1954	15.51	78,600
1930	Feb. 26, 1930	11.60	61,500				
				1956	Mar. 8, 1956	20.55	134,000
1931	Mar. 29, 1931	9.00	43,300	1957	Jan. 23, 1957	15.96	83,400
1932	May 9, 1932	12.00	64,500	1958	July 15, 1958	11.37	44,200
1933	Mar. 16, 1933	12.14	50,700	1959	Jan. 22, 1959	20.00	126,000
1934	Jan. 2, 1934	13.54	60,500	1960	Mar. 31, 1960	17.90	102,000
1935	Jan. 10, 1935	12.98	57,000				
				1961	Apr. 26, 1961	16.76	91,200
1936	Mar. 28, 1936	19.02	118,000				

a Occurred Feb. 27, 1917; backwater from ice.
b Occurred Feb. 26, 1926; backwater from ice.

CLARION RIVER BASIN

265. Sevenmile Run near Rasselas, Pa.

Location.--Lat 41°37'52", long 78°34'37", on right bank 300 ft upstream from highway bridge, 600 ft upstream from Fivemile Run, and 3.2 miles northeast of Rasselas, Elk County.

Drainage area.--7.84 sq mi.

Gage.--Recording. Datum of gage is 1,690.73 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended on basis of slope-area measurement at 1,100 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 18, 1952	3.96	290	1956	Aug. 6, 1956	4.12	427
	Jan. 27, 1952	3.83	256				
				1957	Jan. 23, 1957	3.70	222
1953	May 22, 1953	4.60	1,100				
	May 26, 1953	4.21	506	1958	Apr. 6, 1958	3.84	271
	Aug. 9, 1953	4.78	1,590				
				1959	Jan. 21, 1959	4.67	1,280
1954	Mar. 1, 1954	3.82	263		Apr. 2, 1959	3.71	225
1955	Oct. 15, 1954	3.86	279	1960	Mar. 31, 1960	3.69	219
	Mar. 1, 1955	3.73	232		June 15, 1960	4.25	548
	Mar. 4, 1955	3.81	259				
				1961	Feb. 25, 1961	4.46	808
1956	Mar. 8, 1956	4.32	624		Apr. 16, 1961	3.70	222
	Apr. 4, 1956	3.67	213		Apr. 25, 1961	3.65	208
	May 13, 1956	4.07	390				

275. East Branch Clarion River at East Branch Clarion River Dam, Pa.

Location.--Lat 41°33'10", long 78°35'50", on left bank 700 ft upstream from Middle Fork, 0.5 mile downstream from East Branch Clarion River Dam, Elk County, and 1¼ miles northeast of Glen Hazel.

Drainage area.--73.2 sq mi.

Gage.--Recording. Datum of gage is 1,517.58 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown. Flow completely regulated since June 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 28, 1946	8.3	4,000	1955	Mar. 9, 1955	4.72	960
1949	May 22, 1949	4.50	870	1956	May 15, 1956	4.45	839
1950	Mar. 28, 1950	6.71	2,140	1957	May 10, 1957	7.25	2,590
				1958	Sept. 4, 1958	2.98	295
1951	Nov. 25, 1950	7.04	2,350	1959	Mar. 28, 1959	3.78	530
1952	Jan. 18, 1952	6.48	2,020	1960	Sept.21, 1960	3.84	546
1953	June 3, 1953	5.55	1,410				
1954	Apr. 29, 1954	3.64	488	1961	July 28, 1961	3.38	399

280. West Branch Clarion River at Wilcox, Pa.

Location.--Lat 41°34'30", long 78°41'35", on right bank 20 ft downstream from highway bridge at Wilcox, Elk County, 100 ft downstream from Wilson Run, and 0.1 mile upstream from Pennsylvania Railroad bridge.

Drainage area.--63.0 sq mi.

Gage.--Nonrecording prior to Dec. 8, 1953; recording thereafter. At site 20 ft upstream at same datum prior to Nov. 18, 1953. Datum of gage is 1,502.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 1, 1954	6.30	a1,000	1957	Jan. 23, 1957	4.66	1,220
1955	Oct. 16, 1954	6.43	2,510	1958	July 15, 1958	6.01	2,040
	Mar. 4, 1955	5.43	1,810				
	Mar. 11, 1955	5.27	1,700	1959	Jan. 22, 1959	8.35	3,960
1956	Mar. 8, 1956	8.59	4,050	1960	June 15, 1960	5.52	1,690
	May 13, 1956	6.00	2,230				
	Aug. 6, 1956	5.17	1,640	1961	Feb. 25, 1961	7.45	3,160

a Maximum daily discharge.

285. Clarion River at Johnsonburg, Pa.

Location.--Lat 41°29'10", long 78°40'43", on right bank at downstream side of highway bridge in Johnsonburg, Elk County, 0.1 mile downstream from Johnson Run and 0.4 mile downstream from confluence of East and West Branches.

Drainage area.--204 sq mi.

Gage.--Nonrecording prior to Nov. 8, 1951; recording thereafter. Datum of gage is 1,422.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown. Flow regulated since June 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	July 1942	16.7	-	1954	Mar. 1, 1954	6.48	4,750
				1955	Oct. 16, 1954	5.85	3,320
1946	May 28, 1946	9.2	11,700				
1947	Apr. 5, 1947	7.0	5,880	1956	Mar. 8, 1956	7.95	6,870
1948	Mar. 22, 1948	7.3	6,540	1957	May 11, 1957	5.65	3,080
1949	May 22, 1949	5.3	3,040	1958	July 15, 1958	5.74	3,220
1950	Mar. 29, 1950	6.7	4,770	1959	Jan. 22, 1959	7.87	6,670
				1960	June 15, 1960	6.45	4,130
1951	Nov. 25, 1950	9.25	10,500				
1952	Jan. 18, 1952	7.65	6,910	1961	Feb. 26, 1961	7.19	5,390
1953	May 23, 1953	7.54	6,690				

290. Clarion River at Ridgeway, Pa.

Location.--Lat 41°25'15", long 78°44'10", on right bank at downstream side of bridge on State Highway 948 in Ridgeway, Elk County, 50 ft downstream from Elk Creek.

Drainage area.--303 sq mi.

Gage.--Nonrecording prior to Sept. 16, 1948; recording thereafter. Datum of gage is 1,361.62 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended on basis of slope-area measurement.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown. Flow regulated after 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 13, 1940	7.4	5,660	1948	Apr. 12, 1948	8.86	8,680
1942	July 19, 1942	16.4	34,000	1949	May 22, 1949	5.57	3,710
1943	May 26, 1943	10.91	13,400	1950	Mar. 29, 1950	8.74	8,280
1944	Mar. 17, 1944	8.2	7,300				
1945	Mar. 3, 1945	9.5	10,000	1951	Nov. 25, 1950	12.27	17,500
				1952	Jan. 18, 1952	9.93	10,900
1946	May 28, 1946	10.79	13,100	1953	May 23, 1953	8.96	8,900
1947	Apr. 5, 1947	8.66	8,280				

295. Clarion River at Cooksburg, Pa.

Location.--Lat 41°19'50", long 79°12'35", on left bank at downstream side of bridge on State Highway 36 at Cooksburg, Forest County, 300 ft downstream from Toms Run and 5 miles upstream from Canther Run.

Drainage area.--807 sq mi.

Gage.--Nonrecording prior to May 17, 1939; recording thereafter. Datum of gage is 1,146.48 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Bankful stage.--10 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 17, 1936	19	56,000	1950	Mar. 29, 1950	10.84	15,700
1939	Feb. 21, 1939	8.8	9,780	1951	Nov. 26, 1950	14.52	34,000
1940	Apr. 1, 1940	11.34	17,800	1952	Jan. 27, 1952	12.90	23,400
				1953	May 26, 1953	11.67	18,800
1941	Dec. 13, 1940	9.74	12,500	1954	Mar. 2, 1954	12.27	21,000
1942	July 19, 1942	14.96	32,700	1955	Oct. 16, 1954	11.53	18,000
1943	Dec. 30, 1942	14.23	29,100				
1944	Mar. 17, 1944	9.79	12,800	1956	Mar. 8, 1956	13.19	24,600
1945	Mar. 4, 1945	11.71	19,200	1957	Jan. 23, 1957	9.75	12,800
				1958	July 15, 1958	9.76	12,800
1946	May 28, 1946	12.58	22,600	1959	Jan. 22, 1959	14.54	30,400
1947	Apr. 6, 1947	10.04	13,400	1960	Mar. 31, 1960	10.39	14,500
1948	Apr. 12, 1948	10.92	16,400				
1949	May 23, 1949	9.11	10,800	1961	Feb. 26, 1961	15.11	24,100

305. Clarion River near Piney, Pa.

Location.--Lat 41°11'33", long 79°26'25", on left bank a quarter of a mile downstream from hydroelectric plant of Pennsylvania Electric Co., 2¼ miles northeast of Piney, Clarion County, 2.4 miles upstream from Piney Creek, and 3 miles southwest of Clarion.

Drainage area.--951 sq mi.

Gage.--Recording. Datum of gage is 1,002.06 ft above mean sea level (Pennsylvania Electric Co. bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated by Piney Reservoir and since June 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	-	50,000	1955	Oct. 16, 1954	14.23	21,300
1948	Apr. 12, 1948	13.01	18,300	1956	Mar. 8, 1956	15.96	26,600
1949	May 23, 1949	11.22	14,300	1957	Jan. 23, 1957	11.27	14,500
1950	Mar. 28, 1950	12.78	17,900	1958	July 15, 1958	11.90	15,800
				1959	Jan. 22, 1959	20.70	44,300
1951	Nov. 26, 1950	17.66	32,000	1960	Mar. 31, 1960	13.69	20,000
1952	Jan. 27, 1952	16.39	27,800				
1953	May 26, 1953	14.59	22,400	1961	Feb. 26, 1961	15.11	24,100
1954	Mar. 2, 1954	15.05	23,600				

310. Clarion River at St. Petersburg, Pa.

Location.--Lat 41°08'55", long 79°39'40", on left bank at downstream side of highway bridge, 1 mile south of St. Petersburg, Clarion County, 1.6 miles downstream from Turkey Run, and 4.5 miles upstream from mouth.

Drainage area.--1,246 sq mi.

Gage.--Nonrecording prior to Oct. 23, 1941; recording thereafter. Datum of gage is 876.13 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated by Piney Reservoir and since June 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	July 19, 1942	14.82	34,000	1948	Apr. 14, 1948	12.82	23,500
1943	Dec. 30, 1942	16.45	44,400	1949	May 23, 1949	11.04	16,300
1944	Mar. 18, 1944	11.10	16,600	1950	Mar. 28, 1950	12,15	20,600
1945	Mar. 7, 1945	a20.17	28,900				
				1951	Nov. 26, 1950	15.10	35,800
1946	May 28, 1946	13.91	28,900	1952	Jan. 27, 1952	15.23	36,400
1947	Apr. 6, 1947	10.58	14,900	1953	May 31, 1953	14.78	34,000

a Occurred Feb. 22, 1945; backwater from ice.

OHIO RIVER MAIN STEM

315. Allegheny River at Parkers Landing, Pa.

Location.--Lat 41°06'05", long 79°40'45", on right bank 500 ft downstream from bridge on State Highway 368 at Parkers Landing, Armstrong County, and 1.1 miles downstream from Clarion River.

Drainage area.--7,671 sq mi.

Gage.--Nonrecording prior to Oct. 28, 1932; recording thereafter. Datum of gage is 845.14 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 125,000 cfs.

Bankfull stage.--20 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Chautauqua Lake, since 1924 by Piney Reservoir, since December 1940 by Tionesta Creek Reservoir, and since June 1952 by East Branch Clarion River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	29.4	250,000	1947	Apr. 6, 1947	19.44	129,000
				1948	Mar. 23, 1948	20.53	142,000
1933	Mar. 16, 1933	13.02	68,900	1949	Jan. 7, 1949	10.45	48,100
1934	Jan. 2, 1934	a27.85	67,300	1950	Mar. 29, 1950	16.53	100,000
1935	Jan. 10, 1935	13.10	69,700				
				1951	Dec. 4, 1950	17.20	107,000
1936	Mar. 28, 1936	19.30	128,000	1952	Jan. 27, 1952	18.61	121,000
1937	Jan. 25, 1937	21.20	149,000	1953	May 31, 1953	17.05	105,000
1938	Dec. 18, 1937	14.89	85,700	1954	Mar. 2, 1954	12.88	67,400
1939	Feb. 21, 1939	15.07	86,800	1955	Oct. 16, 1954	17.78	107,000
1940	Apr. 4, 1940	18.00	115,000				
				1956	Mar. 9, 1956	22.69	152,000
1941	Dec. 14, 1940	14.03	76,800	1957	Jan. 23, 1957	16.87	99,300
1942	Mar. 18, 1942	16.23	97,200	1958	July 15, 1958	15.03	83,900
1943	Dec. 30, 1942	21.80	157,000	1959	Jan. 22, 1959	b29.60	175,000
1944	Apr. 13, 1944	13.53	72,600	1960	Mar. 31, 1960	19.88	126,000
1945	Mar. 7, 1945	18.31	118,000				
				1961	Apr. 26, 1961	16.80	98,400
1946	May 28, 1946	20.28	139,000				

a Occurred Mar. 5, 1934; backwater from ice.
b Occurred Jan. 21, 1959; backwater from ice.

325. Redbank Creek at St. Charles, Pa.

Location.--Lat 40°59'40", long 79°23'40", on left bank 500 ft downstream from industrial railroad bridge at St. Charles, Clarion County, 0.3 mile downstream from Leatherwood Creek, and 3 miles west of New Bethlehem.

Drainage area.--528 sq mi.

Gage.--Nonrecording prior to July 10, 1940; recording thereafter. At site 500 ft upstream at datum 3.10 ft higher prior to July 10, 1940. Datum of gage is 973.14 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above by slope-area measurement at 35,200 cfs.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown prior to 1919. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Feb. 28, 1910	10.46	14,900
1911	Sept.15, 1911	9.81	13,300
1912	Oct. 2, 1911	14.7	25,200
1913	Mar. 26, 1913	12.16	19,000
1914	May 13, 1914	8.40	10,100
1915	Feb. 1, 1915	11.5	17,300
1916	Mar. 28, 1916	12.0	18,500
1917	Mar. 12, 1917	7.7	8,550
1918	Feb. 20, 1918	12.2	19,000
1919	Jan. 2, 1919	7.1	7,750
	May 10, 1919	8.20	10,200
	May 21, 1919	8.0	9,770
1920	Mar. 12, 1920	a14.0	-
	Mar. 12, 1920	10.3	15,500
	June 18, 1920	8.6	11,200
1921	Mar. 7, 1921	7.0	7,530
1922	Nov. 2, 1921	8.50	10,900
	Nov. 28, 1921	7.1	7,750
1923	Mar. 4, 1923	7.0	7,530
	May 12, 1923	10.8	15,600
1924	Dec. 7, 1923	6.8	7,110
	Jan. 3, 1924	a8.4	-
	June 29, 1924	11.56	18,500
	Sept.30, 1924	7.5	8,630
1925	Feb. 10, 1925	9.50	13,500
1926	Jan. 19, 1926	7.2	7,970
	Feb. 26, 1926	9.0	11,500
	June 15, 1926	6.9	7,320
	Sept. 5, 1926	11.2	16,600
1927	Jan. 22, 1927	10.1	15,000
	Mar. 8, 1927	8.2	10,200
	Mar. 21, 1927	8.1	10,000
1928	Dec. 14, 1927	12.8	21,000
	Mar. 30, 1928	7.3	8,190
	June 6, 1928	7.5	8,630
1929	Jan. 19, 1929	7.6	8,850
	Feb. 27, 1929	7.0	7,530
	Apr. 5, 1929	6.8	7,110
1930	Nov. 17, 1929	7.6	8,850
	Feb. 26, 1930	7.2	7,970
1931	Apr. 4, 1931	6.25	5,850
1932	Dec. 14, 1931	7.1	7,760
	Jan. 18, 1932	8.5	11,000
1933	Mar. 15, 1933	9.30	13,000
1934	Dec. 21, 1933	5.85	5,060
1935	Jan. 22, 1935	7.5	8,660
	May 7, 1935	8.55	11,200
	July 25, 1935	6.9	7,320
1936	Feb. 27, 1936	6.8	7,100
	Mar. 12, 1936	8.4	10,700
	Mar. 18, 1936	18.60	35,200
1937	Nov. 5, 1936	7.4	8,220
	Jan. 15, 1937	7.8	9,090
	Jan. 18, 1937	7.3	8,010
	Jan. 22, 1937	10.3	14,700
	Jan. 25, 1937	11.7	18,000
	Apr. 26, 1937	11.5	17,300
1938	Dec. 18, 1937	11.6	17,600
	Mar. 6, 1938	8.3	9,870
	Mar. 14, 1938	7.2	7,460
	June 27, 1938	7.2	7,460
1939	Mar. 13, 1939	7.1	7,250
1940	Mar. 31, 1940	9.4	12,400
	Apr. 20, 1940	8.0	9,210
1941	Aug. 15, 1941	8.81	5,410
1942	Mar. 9, 1942	10.35	7,750
1943	Dec. 30, 1942	14.88	14,800
	Apr. 20, 1943	10.46	8,050
	May 26, 1943	11.13	8,950
1944	Mar. 17, 1944	9.64	6,700
1945	Feb. 22, 1945	a13.61	-
	Feb. 23, 1945	11.78	10,000
	Feb. 27, 1945	11.55	9,700
	Mar. 3, 1945	12.13	10,400
	Mar. 7, 1945	12.07	10,400
	Mar. 22, 1945	11.15	9,100
1946	Feb. 27, 1946	11.12	8,950
	May 27, 1946	11.23	9,100
1947	June 8, 1947	8.56	5,300
1948	Feb. 14, 1948	11.32	9,250
	Apr. 12, 1948	10.50	8,050
	Apr. 14, 1948	11.55	9,700
1949	Dec. 16, 1948	10.24	7,600
1950	Jan. 7, 1950	9.92	7,150
	Jan. 10, 1950	11.11	8,950
	Feb. 15, 1950	9.82	7,000
	Mar. 28, 1950	10.62	8,200
1951	Nov. 5, 1950	10.01	7,300

a Backwater from ice.

Peak stages and discharges of Redbank Creek at St. Charles, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 4, 1950	10.94	9,080	1956	Mar. 8, 1956	11.45	9,740
	Jan. 4, 1951	10.38	8,240		May 13, 1956	14.07	14,300
	Mar. 4, 1951	9.72	7,120		Aug. 5, 1956	10.11	7,660
1952	Jan. 18, 1952	9.90	7,440	1957	Jan. 23, 1957	10.97	9,100
	Jan. 27, 1952	13.98	14,000		Apr. 6, 1957	11.33	9,580
	Feb. 5, 1952	10.18	7,920				
	Mar. 11, 1952	10.63	8,560	1958	July 15, 1958	13.31	12,900
	May 25, 1952	10.27	8,080				
				1959	Jan. 22, 1959	13.89	13,900
1953	May 26, 1953	11.63	10,200		Feb. 10, 1959	11.40	9,740
	May 31, 1953	13.18	12,700				
				1960	Dec. 13, 1959	9.98	7,500
1954	Mar. 1, 1954	12.36	11,400		Mar. 31, 1960	11.50	9,900
1955	Oct. 16, 1954	13.82	13,700	1961	Feb. 19, 1961	10.60	8,460
					Feb. 26, 1961	11.40	9,740
1956	Feb. 25, 1956	13.87	13,900		Mar. 5, 1961	9.66	7,020

OHIO RIVER MAIN STEM

330. Allegheny River near Rimer, Pa.

Location.--Lat 40°57'30", long 79°32'50", 800 ft upstream from dam at lock 9, 1.7 miles downstream from Redbank Creek, 2.0 miles upstream from Rimer, Armstrong County, and 6.8 miles upstream from Mahoning Creek.

Drainage area.--8,389 sq mi.

Gage.--Recording. Datum of gage is 810.75 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Chautauqua Lake and Piney Reservoir, and since December 1940 by Tionesta Creek Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	18.94	88,700	1942	Mar. 18, 1942	19.64	102,000
1940	Apr. 4, 1940	20.30	116,000	1943	Dec. 30, 1942	22.54	160,000
				1944	Apr. 13, 1944	18.37	79,700
1941	Dec. 14, 1940	18.44	79,700	1945	Mar. 7, 1945	20.97	130,000

MAHONING CREEK BASIN

340. Mahoning Creek at Punxsutawney, Pa.

Location.--Lat 40°56'21", long 79°00'21", on right bank 75 ft downstream from Williams Run, a quarter of a mile west of Punxsutawney, Jefferson County, and 1.9 miles downstream from Sawmill Run.

Drainage area.--158 sq mi.

Gage.--Recording. At site 2.9 miles upstream at datum 13.30 ft higher prior to Oct. 1, 1946. Datum of gage is 1,206.14 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended by logarithmic plotting.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges of Mahoning Creek at Punxsutawney, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	15.6	12,500	1951	Dec. 4, 1950	6.83	3,300
					Jan. 4, 1951	7.11	3,560
1939	Feb. 15, 1939	4.93	2,140		Mar. 30, 1951	6.18	2,800
1940	Mar. 19, 1940	6.50	3,170	1952	Jan. 1, 1952	5.91	2,560
	Mar. 31, 1940	8.86	5,030		Jan. 27, 1952	10.12	6,490
	Apr. 20, 1940	5.49	2,500		Mar. 11, 1952	6.74	3,220
					May 25, 1952	6.03	2,640
1941	Aug. 15, 1941	7.42	3,830				
	Aug. 26, 1941	5.48	2,500	1953	May 26, 1953	7.57	4,020
					May 31, 1953	9.38	5,790
1942	Mar. 9, 1942	6.40	2,830				
				1954	Mar. 1, 1954	8.85	5,190
1943	Dec. 30, 1942	10.86	6,460				
	Apr. 19, 1943	6.46	2,890	1955	Oct. 16, 1954	7.36	3,830
	May 12, 1943	6.85	3,070		Dec. 30, 1954	6.83	3,300
1944	Mar. 17, 1944	5.73	2,440	1956	Feb. 18, 1956	5.98	2,640
					Feb. 25, 1956	-	3,600
1945	Feb. 23, 1945	7.14	3,260		Mar. 8, 1956	7.22	3,650
	Feb. 27, 1945	8.12	3,990		May 13, 1956	9.87	6,290
	Mar. 3, 1945	8.71	4,470		Aug. 10, 1956	6.50	3,040
	Mar. 7, 1945	8.63	4,390		Aug. 12, 1956	8.03	4,400
	Mar. 22, 1945	7.16	3,330				
				1957	Jan. 23, 1957	6.56	3,130
1946	Feb. 27, 1946	6.69	3,010		Apr. 6, 1957	7.11	3,560
	May 27, 1946	6.96	3,200				
				1958	July 15, 1958	10.89	7,370
1947	May 18, 1947	6.15	2,800				
	June 8, 1947	7.01	3,470	1959	Jan. 22, 1959	9.90	6,290
					Feb. 10, 1959	7.10	3,560
1948	Feb. 14, 1948	7.9	4,300				
	Apr. 12, 1948	7.41	3,830	1960	Oct. 24, 1959	5.98	2,640
	Apr. 14, 1948	7.96	4,400		Dec. 13, 1959	-	2,600
					Mar. 30, 1960	8.02	4,400
1949	Dec. 16, 1948	5.76	2,480		May 8, 1960	6.68	3,220
1950	Jan. 10, 1950	7.26	3,740	1961	Feb. 19, 1961	7.17	3,650
	Mar. 27, 1950	6.04	2,640		Feb. 26, 1961	7.43	3,850
					Mar. 5, 1961	5.98	2,660
1951	Nov. 5, 1950	6.77	3,300				

345. Little Mahoning Creek at McCormick, Pa.

Location.--Lat 40°50'10", long 79°06'35", on left bank 200 ft downstream from highway bridge at McCormick, Indiana County, 1 mile west of Georgeville, 1.7 miles upstream from Ross Run, and 4 miles southeast of Smicksburg.

Drainage area.--87.4 sq mi.

Gage.--Nonrecording prior to May 10, 1940; recording thereafter. At site 200 ft upstream at same datum prior to May 10, 1940. Datum of gage is 1,164.88 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 14, 1940	8.40	2,180	1943	Apr. 20, 1943	7.85	2,160
	Mar. 19, 1940	9.6	3,070		May 12, 1943	8.65	2,740
	Mar. 31, 1940	10.1	3,480				
				1944	Jan. 4, 1944	9.58	3,560
1941	Mar. 4, 1941	a11.94	-		Feb. 23, 1944	a8.20	-
	Aug. 15, 1941	6.31	1,320		June 24, 1944	7.85	2,160
1942	Jan. 20, 1942	a8.03	-	1945	Dec. 25, 1944	a10.46	-
	Mar. 9, 1942	7.56	2,100		Feb. 17, 1945	a10.82	-
	Apr. 10, 1942	7.61	2,100		Feb. 23, 1945	8.68	2,740
					Feb. 27, 1945	9.14	3,060
1943	Dec. 30, 1942	10.77	4,670		Mar. 3, 1945	8.65	2,740
	Feb. 21, 1943	a8.45	-		Mar. 7, 1945	9.28	3,300

a Backwater from ice.

Peak stages and discharges of Little Mahoning Creek at McCormick, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 22, 1945	8.60	2,740	1954	Mar. 1, 1954	9.84	3,550
1946	Jan. 6, 1946	a9.03	-	1955	Oct. 16, 1954	11.30	5,180
	Feb. 27, 1946	a8.86	-				
	June 21, 1946	9.23	3,190	1956	Feb. 7, 1956	8.07	2,170
					Feb. 25, 1956	10.16	3,950
1947	Mar. 14, 1947	a9.00	-		Mar. 8, 1956	8.74	2,610
	Aug. 22, 1947	7.67	2,000		May 7, 1956	8.00	2,100
					May 13, 1956	8.03	2,100
1948	Feb. 14, 1948	9.56	3,370		July 2, 1956	8.75	2,690
	Apr. 12, 1948	9.44	3,190		July 20, 1956	9.58	3,370
	Apr. 14, 1948	9.70	3,460				
				1957	Jan. 23, 1957	9.10	2,930
1949	Jan. 6, 1949	7.64	1,720		Apr. 5, 1957	8.64	2,530
1950	Jan. 10, 1950	8.86	2,650	1958	Jan. 15, 1958	a10.00	-
					Aug. 3, 1958	7.80	1,960
1951	Nov. 5, 1950	9.80	3,530				
	Dec. 4, 1950	8.61	2,410	1959	Jan. 22, 1959	10.46	4,260
	Jan. 4, 1951	8.74	2,610		Feb. 10, 1959	8.78	2,690
	Jan. 15, 1951	8.47	2,450				
	Mar. 30, 1951	7.8	2,030	1960	Oct. 24, 1959	8.53	2,310
	Apr. 30, 1951	7.92	2,030		Dec. 13, 1959	7.92	2,030
					Mar. 30, 1960	9.35	3,190
1952	Jan. 27, 1952	11.42	5,300		May 8, 1960	-	2,100
	Mar. 11, 1952	7.98	2,100				
				1961	Feb. 19, 1961	-	4,800
1953	May 31, 1953	10.47	4,260		Feb. 26, 1961	8.48	2,450
	June 7, 1953	8.33	2,310		Aug. 3, 1961	12.71	5,060

a Backwater from ice.

350. Mahoning Creek near Dayton, Pa.

Location.--Lat 40°54'05", long 79°13'35", at Independence Bridge, three-quarters of a mile upstream from Foundry Run and 1¾ miles northeast of Dayton, Armstrong County.

Drainage area.--321 sq mi.

Gage.--Nonrecording. Datum of gage is 1,095.24 ft above mean sea level (general adjustment of 1907).

Stage-discharge relation.--Defined by current-meter measurements below 8,100 cfs and extended on basis of slope-area measurement at 22,800 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 22, 1917	a7.3	-	1924	Jan. 4, 1924	b7.12	b5,460
	Mar. 12, 1917	6.8	5,610		June 29, 1924	-	c11,000
1918	Oct. 20, 1917	6.8	5,610	1925	Feb. 12, 1925	8.1	7,980
	Feb. 15, 1918	7.1	6,130		May 11, 1925	6.6	5,270
	Feb. 20, 1918	9.6	11,000				
	Feb. 26, 1918	7.5	6,850	1926	Jan. 20, 1926	7.7	7,220
					Feb. 26, 1926	8.2	8,170
1919	Jan. 2, 1919	6.9	5,780		June 14, 1926	7.7	7,220
	May 10, 1919	7.4	6,670		Sept. 6, 1926	8.53	8,770
1920	Nov. 27, 1919	7.0	5,950	1927	Jan. 18, 1927	a9.6	-
	Mar. 5, 1920	8.0	7,790		Jan. 23, 1927	7.0	5,950
	Mar. 12, 1920	8.0	7,790		Mar. 8, 1927	7.3	6,490
	Mar. 17, 1920	6.8	5,610		Mar. 21, 1927	8.2	8,170
	June 18, 1920	7.8	7,410		May 19, 1927	6.8	5,610
1921	Sept.22, 1921	7.0	5,950	1928	Nov. 28, 1927	6.5	5,100
					Dec. 14, 1927	-	c10,000
1922	Nov. 2, 1921	7.6	7,030		Mar. 30, 1928	8.8	9,370
	Nov. 29, 1921	7.3	6,490		June 6, 1928	8.0	7,790
	Feb. 3, 1922	a7.7	-		July 6, 1928	7.2	6,310
	Apr. 15, 1922	7.9	7,600				
				1929	Feb. 27, 1929	8.1	7,980
1923	May 13, 1923	8.84	9,370		Apr. 6, 1929	7.65	7,030
	July 30, 1923	8.6	8,970		Apr. 25, 1929	7.2	6,310

a Backwater from ice.
b Mean daily.
c Estimate based on adjacent stations.

Peak stages and discharges of Mahoning Creek near Dayton, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Nov. 18, 1929	7.4	6,660	1936	Mar. 18, 1936	14.53	22,800
	Feb. 26, 1930	8.0	7,680				
				1937	Nov. 5, 1936	7.2	6,310
1931	Apr. 4, 1931	6.66	5,470		Jan. 22, 1937	7.9	7,600
					Jan. 25, 1937	8.1	7,980
1932	Jan. 19, 1932	7.1	6,150		Apr. 26, 1937	8.3	8,370
1933	Mar. 15, 1933	7.30	6,490	1938	Dec. 18, 1937	8.6	8,970
1934	Dec. 19, 1933	5.90	4,140	1939	Feb. 11, 1939	6.3	4,770
1935	May 7, 1935	6.39	4,960	1940	Mar. 19, 1940	7.3	6,490
					Mar. 31, 1940	8.4	8,570
1936	Feb. 27, 1936	6.55	5,270		Apr. 20, 1940	7.0	5,950
	Mar. 12, 1936	6.5	5,100				

360. Mahoning Creek at Mahoning Creek Dam, Pa.

Location.--Lat 40°55'40", long 79°17'30", on left bank at downstream side of highway bridge at McCrea Furnace, three-quarters of a mile downstream from Mahoning Creek Dam, Armstrong County, 1 mile southwest of Eddyville, and 2 miles upstream from Pine Run.

Drainage area.--344 sq mi.

Gage.--Nonrecording prior to Feb. 1, 1940; recording thereafter. Datum of gage is 1,003.39 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--8 ft.

Remarks.--Flow completely regulated since June 1941 by Mahoning Creek Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 3, 1939	6.5	5,420	1951	Jan. 6, 1951	7.30	7,690
1940	Mar. 31, 1940	7.83	9,300	1952	Jan. 30, 1952	7.52	8,280
				1953	June 2, 1953	7.39	7,200
1941	Apr. 5, 1941	5.64	3,640	1954	Mar. 3, 1954	6.64	5,360
1942	Mar. 8, 1942	8.10	10,400	1955	Feb. 25, 1955	6.07	4,060
1943	Jan. 2, 1943	7.25	7,540				
1944	May 25, 1944	5.63	3,630	1956	Apr. 11, 1956	5.96	3,860
1945	Mar. 8, 1945	7.32	7,690	1957	Apr. 10, 1957	6.85	5,840
				1958	May 9, 1958	6.54	5,130
1946	Mar. 1, 1946	5.78	3,910	1959	Jan. 24, 1959	6.00	3,960
1947	May 19, 1947	5.62	3,540	1960	Apr. 6, 1960	6.74	5,600
1948	Apr. 17, 1948	7.44	8,000				
1949	Jan. 30, 1949	6.51	5,420	1961	Mar. 3, 1961	7.39	7,100
1950	Feb. 18, 1950	6.61	5,680				

365. Allegheny River at Kittanning, Pa.

Location.--Lat 40°49'15", long 79°31'55", on right bank 600 ft upstream from dam at lock 7 at Kittanning, Armstrong County, 5½ miles upstream from Crooked Creek, 10 miles downstream from Mahoning Creek, and at mile 45.7.

Drainage area.--8,973 sq mi.

Gage.--Nonrecording prior to Apr. 19, 1939; recording thereafter. At site 4,000 ft downstream at different datum prior to Sept. 30, 1928. Datum of present gage is 771.32 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--23 ft.

Remarks.--Flow regulated by Chautauqua Lake, and since December 1940 by Tionesta Creek, since June 1952 by East Branch Clarion River, since 1924 by Piney, and since June 1941 by Mahoning Creek Reservoirs. Prior to 1904, records of stage from U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1806	Apr. 10, 1806	30	259,000	1917	Mar. 12, 1917	16.4	90,800
				1918	Feb. 20, 1918	24.0	177,000
1832	Feb. 9, 1832	a29	-	1919	May 11, 1919	17.9	106,000
				1920	Mar. 13, 1920	26.4	209,000
1865	Mar. 18, 1865	29.5	252,000				
				1921	Mar. 8, 1921	15.2	79,700
1874	Dec. 13, 1873	27	217,000	1922	Apr. 1, 1922	13.5	65,000
				1923	Mar. 5, 1923	17.4	101,000
1881	June 10, 1881	28	231,000	1924	Jan. 12, 1924	17.65	103,000
				1925	Feb. 12, 1925	20.02	129,000
1883	Feb. 5, 1883	29	245,000				
1884	Feb. 6, 1884	28	231,000	1926	Mar. 24, 1926	18.3	110,000
1885	Apr. 9, 1885	15.4	81,500	1927	Jan. 23, 1927	18.0	107,000
				1928	Dec. 1, 1927	22.0	152,000
1886	Jan. 6, 1886	17.6	103,000				
1887	Feb. 12, 1887	23.8	174,000	1935	Jan. 10, 1935	18.5	75,700
1888	Apr. 7, 1888	17.5	102,000				
1889	June 2, 1889	16.2	88,900	1936	Mar. 18, 1936	26.0	192,000
1890	May 24, 1890	24.2	179,000	1937	Jan. 25, 1937	24.7	174,000
				1938	Dec. 18, 1937	20.7	110,000
1891	Feb. 18, 1891	26.6	211,000	1939	Feb. 21, 1939	19.5	91,500
1892	June 6, 1892	19.3	121,000	1940	Apr. 5, 1940	21.05	119,000
1893	May 18, 1893	21.4	145,000				
1894	May 21, 1894	23.2	167,000	1941	Dec. 14, 1940	18.64	80,200
1895	Apr. 10, 1895	18.2	109,000	1942	Mar. 18, 1942	20.06	106,000
				1943	Dec. 30, 1942	25.29	182,000
1896	Mar. 31, 1896	18.2	109,000	1944	Mar.18,Apr.13, 1944	18.55	79,600
1897	Mar. 7, 1897	17.8	105,000				
1898	Mar. 24, 1898	20.6	136,000	1945	Mar. 7, 1945	22.56	144,000
1899	Nov. 12, 1898	15.0	77,900				
1900	Jan. 22, 1900	16.0	87,000	1946	May 28, 1946	23.15	152,000
				1947	Apr. 6, 1947	22.11	136,000
1901	Mar. 28, 1901	18.2	109,000	1948	Mar. 23, 1948	22.72	145,000
1902	Mar. 1, 1902	25.1	191,000	1949	Jan. 28, 1949	17.18	58,300
1903	Mar. 1, 1903	20.4	133,000	1950	Mar. 29, 1950	20.15	105,000
1904	Jan. 23, 1904	24.2	179,000				
1905	Mar. 20, 1905	28.8	241,000	1951	Jan. 4, 1951	21.53	126,000
				1952	Jan. 27, 1952	22.61	144,000
1906	Mar. 29, 1906	15.0	70,400	1953	May 31, 1953	21.33	123,000
1907	Mar. 15, 1907	16.5	83,900	1954	Jan. 28, 1954	18.53	78,000
1908	Feb. 16, 1908	24.8	183,000	1955	Oct. 16, 1954	21.63	128,000
1909	Apr. 30, 1909	23.9	176,000				
1910	Mar. 7, 1910	21.6	147,000	1956	Mar. 9, 1956	24.18	167,000
				1957	Jan. 24, 1957	20.17	105,000
1911	Jan. 15, 1911	19.7	125,000	1958	July 15, 1958	19.50	94,000
1912	Apr. 3, 1912	23.4	169,000	1959	Jan. 22, 1959	26.40	198,000
1913	Mar. 26, 1913	30.7	269,000	1960	Apr. 1, 1960	22.60	144,000
1914	Mar. 29, 1914	23.1	165,000				
1915	Feb. 2, 1915	19.2	120,000	1961	Feb. 20, 1961	20.58	112,000
1916	Mar. 29, 1916	24.3	181,000				

a Backwater from ice.

375. South Branch Plum Creek at Willet, Pa.

Location.--Lat 40°43'15", long 79°13'25", at highway bridge, 0.2 mile upstream from Mudlick Run, 0.6 mile southwest of Willet, Indiana County, 0.6 mile downstream from Sugarcamp Run, and 8 miles northwest of Indiana.

Drainage area.--30.0 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 7, 1942	6.8	751	1945	Feb.22,Mar.6, 1945	7.7	955
1943	Dec. 30, 1942	8.7	1,250				
1944	Mar. 23, 1944	6.1	611				
				1946	June 13, 1946	6.94	772

380. Crooked Creek at Idaho, Pa.

Location.--Lat 40°39'15", long 79°21'00", on right bank at downstream side of highway bridge at Idaho, Armstrong County, 1½ miles downstream from Plum Creek and 2½ miles west of Shelocta.

Drainage area.--191 sq mi.

Gage.--Recording. Datum of gage is 961.04 ft above mean sea level (Buffalo, Rochester and Pittsburgh Railway bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,100 cfs and extended to 12,400 cfs on basis of slope-area measurement at site 1.2 miles below gage, adjusted for drainage-area ratio.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	18.6	19,400	1945	Feb. 23, 1945	8.70	4,430
					Feb. 27, 1945	7.48	3,460
1937	Dec. 18, 1936	-	6,900		Mar. 3, 1945	7.05	3,090
					Mar. 7, 1945	9.92	5,510
1938	Mar. 15, 1938	6.51	2,800		Mar. 22, 1945	7.51	3,460
	Apr. 9, 1938	7.33	3,440		Apr. 5, 1945	6.31	2,600
					Sept.18, 1945	7.64	3,540
1939	Jan. 30, 1939	8.07	4,060				
	Feb. 3, 1939	7.59	3,690	1946	Oct. 2, 1945	6.61	2,810
	Feb. 10, 1939	6.88	3,140		Feb. 27, 1946	6.39	2,670
	June 22, 1939	11.40	7,170		June 13, 1946	10.00	5,600
					June 21, 1946	7.71	3,620
1940	Mar. 4, 1940	6.80	2,950		June 28, 1946	7.18	3,230
	Mar. 19, 1940	7.67	3,620				
	Mar. 31, 1940	8.84	4,520	1947	Apr. 26, 1947	6.24	2,530
	Apr. 20, 1940	9.61	5,240		May 18, 1947	6.38	2,670
1941	Mar. 4, 1941	5.90	2,320	1948	Feb. 14, 1948	10.70	6,230
					Apr. 13, 1948	10.44	5,960
1942	Feb. 7, 1942	7.46	3,460		June 19, 1948	6.36	2,670
	Mar. 9, 1942	-	-				
	Apr. 9, 1942	8.30	4,100	1949	Dec. 16, 1948	6.29	2,600
					Jan. 5, 1949	6.46	2,740
1943	Dec. 30, 1942	12.35	7,760		Jan. 24, 1949	6.30	2,600
	Mar. 12, 1943	6.70	2,880				
	Apr. 20, 1943	8.40	4,180	1950	Jan. 7, 1950	6.73	2,880
	May 12, 1943	7.10	3,160		Jan. 10, 1950	7.65	3,540
					Mar. 27, 1950	6.32	2,600
1944	Mar. 13, 1944	7.17	3,230		July 5, 1950	8.16	4,020
	Mar. 24, 1944	6.63	2,810				
	June 1, 1944	6.17	2,530	1951	Nov. 5, 1950	8.32	4,100
					Nov. 20, 1950	6.47	2,745
1945	Jan. 1, 1945	-	-		Dec. 4, 1950	10.60	6,140
	Feb. 16, 1945	7.25	3,230		Dec. 8, 1950	6.99	3,090

Peak stages and discharges of Crooked Creek at Idaho, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 4, 1951	8.78	4,520	1956	July 20, 1956	8.76	4,520
	Jan. 15, 1951	9.48	5,120		Aug. 5, 1956	8.57	4,340
	Mar. 30, 1951	7.73	3,620				
	July 23, 1951	6.37	2,670	1957	Jan. 23, 1957	7.53	3,460
					Apr. 5, 1957	10.67	6,300
1952	Dec. 21, 1951	7.13	3,160				
	Jan. 27, 1952	12.66	8,030	1958	Dec. 26, 1957	6.35	2,670
	Apr. 15, 1952	6.50	2,740		May 7, 1958	7.32	3,300
	May 21, 1952	6.41	2,670		July 23, 1958	7.64	3,540
	May 26, 1952	6.99	3,090				
				1959	Jan. 22, 1959	9.60	5,240
1953	May 31, 1953	8.89	4,610		Feb. 10, 1959	7.69	3,620
	June 7, 1953	7.71	3,620				
				1960	Oct. 24, 1959	7.02	3,090
1954	Mar. 1, 1954	8.87	4,610		Nov. 28, 1959	6.65	2,810
	Aug. 3, 1954	6.15	2,530		Dec. 12, 1959	7.20	3,230
					Mar. 30, 1960	8.87	4,610
1955	Oct. 5, 1954	7.87	3,780		May 8, 1960	8.48	4,260
	Oct. 16, 1954	15.12	12,400		June 12, 1960	6.30	2,600
	Dec. 18, 1954	7.27	3,300		June 14, 1960	6.60	2,810
	Dec. 30, 1954	7.28	3,300				
	Feb. 23, 1955	6.23	2,530	1961	Feb. 19, 1961	9.83	5,420
	Mar. 4, 1955	6.78	2,950		Feb. 24, 1961	6.71	2,880
					Feb. 26, 1961	6.96	3,090
1956	July 16, 1956	10.58	6,200		Mar. 5, 1961	6.49	2,740

390. Crooked Creek at Crooked Creek Dam, Pa.

(Published as "at Hileman's Farm" 1910-29, and as "near Ford City" 1930-39)

Location.--Lat 40°43'10", long 79°30'45", on right bank a quarter of a mile downstream from Crooked Creek Dam, Armstrong County, 3½ miles south of Ford City, and 6½ miles upstream from mouth.

Drainage area.--278 sq mi.

Gage.--Nonrecording prior to Dec. 5, 1939; recording thereafter. At site 2 miles downstream at different datum prior to July 31, 1933. At site 1½ miles downstream at different datum July 31, 1933, to Dec. 5, 1939. Datum of present gage is 799.51 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended above on basis of contracted-opening measurement at 21,000 cfs.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown. Flow regulated since May 1940 by Crooked Creek Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Feb. 28, 1910	9.3	9,500	1929	Feb. 26, 1929	12.20	15,000
				1930	Feb. 26, 1930	9.80	10,100
1911	Sept.14, 1911	10.6	12,100				
1912	Sept. 3, 1912	9.6	10,100	1931	Apr. 4, 1931	10.10	10,700
1913	Mar. 26, 1913	11.01	12,900	1932	Jan. 24, 1932	6.2	3,900
1914	Mar. 16, 1914	6.7	4,620	1933	Mar. 15, 1933	10.64	11,700
1915	Feb. 2, 1915	10.2	11,300	1934	Aug. 24, 1934	7.85	3,960
				1935	Mar.12,May 7, 1935	8.5	4,680
1916	Mar. 22, 1916	10.0	10,900				
1917	Jan. 22, 1917	10.7	12,300				
1918	Feb. 20, 1918	8.0	6,580	1936	Mar. 18, 1936	17.86	21,000
1919	May 10, 1919	7.5	6,040	1937	Apr. 26, 1937	13.2	11,400
1920	June 17, 1920	10.0	10,000	1938	Dec. 18, 1937	11.3	8,350
				1939	June 23, 1939	11.2	8,200
1921	Sept.21, 1921	9.5	9,400	1940	Apr. 21, 1940	8.47	6,160
1922	Apr. 15, 1922	9.28	9,000				
1923	May 13, 1923	9.6	9,540	1941	Jan. 3, 1941	5.62	2,920
1924	June 29, 1924	13.1	16,500	1942	Apr. 13, 1942	6.99	4,360
1925	Feb. 10, 1925	7.2	5,400	1943	Jan. 5, 1943	7.53	4,960
				1944	July 22, 1944	5.04	2,340
1926	Sept.24, 1926	10.07	10,200	1945	Mar. 9, 1945	7.83	5,320
1927	Mar. 21, 1927	8.75	8,100				
1928	Dec. 14, 1927	10.6	11,700	1946	June 22, 1946	6.81	4,010

Peak stages and discharges of Crooked Creek at Crooked Creek Dam, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Dec. 30, 1946	4.97	2,180	1956	Feb. 8, 1956, Apr. 10, 1956	7.68	4,270
1948	Apr. 17, 1948	8.07	5,660	1957	Apr. 8, 1957	8.05	4,540
1949	Jan. 31, 1949	7.10	4,370	1958	May 9, 1958	7.49	4,090
1950	Mar. 30, 1950	7.17	4,240	1959	Jan. 24, 1959	7.63	4,180
1951	Dec. 9, 1950	8.90	5,760	1960	Apr. 3, 1960	7.74	4,270
1952	Jan. 30, 1952	8.77	5,640	1961	Mar. 3, 1961	8.42	4,900
1953	June 2, 1953	7.10	3,820				
1954	Mar. 3, 1954	7.24	3,820				
1955	Oct. 18, 1954	8.35	4,900				

KISKIMINETAS RIVER BASIN

400. Stony Creek at Ferndale, Pa.
(Published as "at Johnstown," 1914-36)

Location.--Lat 40°17'10", long 78°55'10", on right bank 50 ft upstream from highway bridge at Ferndale, Cambria County, 0.4 mile downstream from Bens Creek, 1.2 miles upstream from Johnstown city limits, and 5.2 miles upstream from confluence with Little Conemaugh River.

Drainage area.--451 sq mi.

Gage.--Nonrecording prior to Jan. 30, 1940; recording thereafter. At site 3½ miles downstream at different datum prior to Mar. 19, 1936. At site 50 ft downstream at same datum Dec. 8, 1938, to Jan. 30, 1940. Datum of present gage is 1,183.84 ft above mean sea level, city of Johnstown datum.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended on basis of slope-area and contracted-opening measurements.

Bankfull stage.--18 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 30, 1914	7.85	5,840	1939	Feb. 3, 1939	8.8	9,280
1915	Jan. 7, 1915	10.7	10,600	1940	Mar. 31, 1940	13.3	23,900
1916	Mar. 28, 1916	11.3	11,700	1941	June 5, 1941	12.27	19,100
1917	Mar. 12, 1917	14.0	17,200	1942	Apr. 9, 1942	8.72	9,000
1918	Feb. 26, 1918	12.7	14,500	1943	Dec. 30, 1942	11.07	15,300
1919	May 10, 1919	8.15	6,380	1944	Mar. 17, 1944	7.90	7,140
1920	Mar. 12, 1920	11.2	11,600	1945	Mar. 6, 1945	11.97	18,100
1921	Mar. 3, 1921	8.98	7,670	1946	June 2, 1946	10.95	15,000
1922	Nov. 28, 1921	13.7	16,400	1947	June 8, 1947	6.85	4,980
1923	Feb. 2, 1923	7.1	4,850	1948	Apr. 14, 1948	9.78	12,100
1924	Mar. 29, 1924	16.9	23,000	1949	Jan. 26, 1949	8.15	7,800
1925	Feb. 11, 1925	10.0	9,450	1950	Mar. 28, 1950	9.90	12,400
1926	Feb. 22, 1926	9.2	8,080	1951	June 28, 1951	9.43	10,900
1927	Jan. 22, 1927	10.96	11,700	1952	Mar. 11, 1952	10.20	13,400
1928	May 1, 1928	13.23	16,000	1953	May 31, 1953	10.50	14,600
1929	Feb. 26, 1929	9.15	8,080	1954	Mar. 1, 1954	10.14	13,100
1930	Feb. 25, 1930	9.90	9,460	1955	Oct. 15, 1954	16.23	34,800
1931	Apr. 4, 1931	9.02	7,760	1956	Mar. 8, 1956	8.38	8,480
1932	Apr. 1, 1932	9.1	7,940	1957	Apr. 25, 1957	7.03	5,600
1933	Mar. 15, 1933	11.72	13,100	1958	Apr. 6, 1958	7.98	7,600
1934	Jan. 7, 1934	8.9	7,580	1959	Feb. 11, 1959	6.66	5,010
1935	Aug. 2, 1935	9.26	7,280	1960	Mar. 31, 1960	11.43	16,200
1936	Mar. 18, 1936	30.26	59,000	1961	Feb. 25, 1961	11.62	16,900

410. Little Conemaugh River at East Conemaugh, Pa.

Location.--Lat 40°20'35", long 78°53'05", on right bank 100 ft downstream from highway bridge at East Conemaugh, Cambria County, 0.3 mile downstream from Clapboard Run, and 2.5 miles upstream from confluence with Stony Creek.

Drainage area.--183 sq mi.

Gage.--Nonrecording prior to Feb. 1, 1940; recording thereafter. Datum of gage is 1,207.92 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs and extended on basis of slope-area measurement at 12,300 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 4,000 cfs. Flow partly regulated by reservoirs and diversion above station.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	-	28,800	1951	Dec. 4, 1950	5.55	4,120
					Dec. 8, 1950	6.38	5,820
1940	Mar. 30, 1940	8.80	11,800		Mar. 30, 1951	5.58	4,220
	Apr. 4, 1940	6.37	5,580		June 14, 1951	6.03	5,020
1941	Apr. 5, 1941	5.58	4,050	1952	Jan. 27, 1952	6.38	5,820
	June 5, 1941	7.19	7,530		Mar. 11, 1952	5.86	4,720
1942	Mar. 9, 1942	5.90	4,640	1953	Nov. 22, 1952	5.62	4,050
	Apr. 9, 1942	6.77	6,590		May 31, 1953	5.82	4,490
1943	Dec. 30, 1942	7.29	7,410	1954	Mar. 1, 1954	7.94	9,730
1944	Mar. 17, 1944	6.06	4,550	1955	Oct. 16, 1954	8.86	12,300
					Dec. 30, 1954	6.05	5,090
1945	Mar. 3, 1945	6.27	4,960		Mar. 1, 1955	6.16	5,330
	Mar. 6, 1945	8.03	9,350		Mar. 4, 1955	5.64	4,160
1946	June 2, 1946	6.29	5,800	1956	Feb. 25, 1956	6.36	5,810
	June 12, 1946	6.28	5,800				
				1957	Jan. 23, 1957	4.97	2,870
1947	June 8, 1947	4.83	2,950				
				1958	Aug. 1, 1958	5.41	3,630
1948	Apr. 12, 1948	6.44	6,010				
	Apr. 14, 1948	6.47	6,220	1959	Jan. 22, 1959	5.55	3,940
	June 19, 1948	6.17	5,590				
				1960	Mar. 31, 1960	7.00	7,390
1949	July 12, 1949	5.36	3,860		May 8, 1960	7.58	8,950
1950	Dec. 13, 1949	5.72	4,420	1961	Feb. 25, 1961	7.23	7,910
	Mar. 28, 1950	6.22	5,420		Apr. 16, 1961	6.02	4,970

415. Conemaugh River at Seward, Pa.

Location.--Lat 40°25'10", long 79°01'40", on left bank at highway bridge on State Highway 56 at Seward, Westmoreland County, 2 miles downstream from Findley Run and 9 miles northwest of Johnstown.

Drainage area.--715 sq mi.

Gage.--Recording. Datum of gage is 1,075.64 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements. Discharge of Mar. 18, 1936, determined by contracted-opening measurements.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges of Conemaugh River at Seward, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	26.4	90,000	1950	Mar. 28, 1950	10.80	20,400
1939	Feb. 3, 1939	9.00	15,100	1951	June 14, 1951	9.16	15,500
1940	Mar. 31, 1940	15.22	35,000	1952	Jan. 27, 1952	11.35	22,300
				1953	May 31, 1953	11.38	22,300
1941	June 5, 1941	13.15	28,200	1954	Mar. 1, 1954	13.33	28,500
1942	Apr. 9, 1942	10.07	18,200	1955	Oct. 16, 1954	19.20	54,000
1943	Dec. 30, 1942	12.70	26,500				
1944	Mar. 17, 1944	8.39	13,200	1956	Mar. 8, 1956	8.83	14,300
1945	Mar. 6, 1945	13.76	30,200	1957	Jan. 23, 1957	7.19	9,720
				1958	Apr. 7, 1958	7.86	11,700
1946	June 2, 1946	11.27	22,000	1959	Jan. 22, 1959	10.06	18,200
1947	June 8, 1947	6.75	8,650	1960	Mar. 31, 1960	13.27	26,300
1948	Apr. 14, 1948	11.04	21,000				
1949	Jan. 26, 1949	8.37	13,200	1961	Feb. 25, 1961	14.02	29,100

420. Blacklick Creek at Josephine, Pa.

Location.--Lat 40°28'25", long 79°11'00", on right bank on upstream side of old concrete dam at Josephine, Indiana County, 0.9 mile upstream from Two Lick Creek.

Drainage area.--192 sq mi.

Gage.--Nonrecording prior to Aug. 25, 1953; recording thereafter. Datum of gage is 975.82 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs and extended on basis of flow-over-dam measurement at 11,900 cfs.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 27, 1952	11.3	a8,720	1957	Jan. 23, 1957	7.74	2,970
					Apr. 4, 1957	8.46	3,980
1953	Mar. 24, 1953	8.2	3,020	1958	May 4, 1958	7.84	3,100
	Apr. 2, 1953	7.9	2,750		May 7, 1958	7.65	2,850
	May 31, 1953	11.3	8,720		July 22, 1958	8.84	4,430
					Aug. 1, 1958	8.96	4,740
1954	Mar. 1, 1954	10.15	b3,100		Aug. 3, 1958	8.69	4,280
	June 23, 1954	8.90	4,580				
				1959	Jan. 22, 1959	9.89	6,490
1955	Oct. 15, 1954	11.35	11,900		Feb. 10, 1959	8.18	3,560
	Dec. 30, 1954	9.78	6,230		Apr. 29, 1959	8.54	3,980
	Feb. 23, 1955	7.68	2,910				
	Mar. 1, 1955	7.81	3,030	1960	Nov. 28, 1959	7.82	3,030
	Mar. 4, 1955	8.70	4,280		Dec. 12, 1959	7.92	3,160
	June 8, 1955	7.61	2,790		Mar. 30, 1960	10.25	7,390
					May 8, 1960	10.08	7,070
1956	Feb. 2, 1956	8.30	3,700				
	Feb. 25, 1956	9.00	4,740	1961	Feb. 19, 1961	9.28	5,220
	Mar. 7, 1956	8.80	4,430		Feb. 26, 1961	10.12	7,070
	Apr. 3, 1956	9.46	5,570		Mar. 5, 1961	8.17	3,490
	July 16, 1956	10.69	9,250		Apr. 26, 1961	7.60	2,790

a Annual peak only.
b Maximum daily discharge.

425. Two Lick Creek at Graceton, Pa.

Location.--Lat 40°31'05", long 79°10'15", on right bank three-quarters of a mile upstream from highway bridge on road leading west from Graceton, Indiana County, 1 mile downstream from Tearing Run, and 1¼ miles upstream from Cherry Run.

Drainage area.--171 sq mi.

Gage.--Recording. Altitude of gage is 983 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurement below 4,500 cfs and extended to 12,900 cfs on basis of contracted-opening measurement at site 1.6 miles above gage, adjusted to gage site.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 21, 1951	6.83	2,670	1956	July 16, 1956	10.82	7,900
	Jan. 27, 1952	10.42	6,600		Aug. 5, 1956	7.61	3,500
	Apr. 15, 1952	6.62	2,480		Sept. 6, 1956	7.04	2,930
	May 21, 1952	6.49	2,390				
				1957	Jan. 23, 1957	7.52	3,400
1953	May 31, 1953	9.69	5,760		Feb. 4, 1957	6.30	2,320
					Apr. 4, 1957	8.81	4,740
1954	Mar. 1, 1954	9.26	5,290				
	June 23, 1954	6.84	2,750	1958	May 7, 1958	6.93	2,840
					July 22, 1958	6.40	2,400
1955	Oct. 6, 1954	-	-				
	Oct. 16, 1954	12.71	12,900	1959	Jan. 22, 1959	9.17	5,180
	Dec. 30, 1954	8.76	4,740		Feb. 10, 1959	7.02	2,930
	Feb. 23, 1955	6.36	2,400		Apr. 29, 1959	6.90	2,840
	Mar. 4, 1955	6.92	2,840				
				1960	Oct. 24, 1959	6.27	2,320
1956	Feb. 3, 1956	7.30	3,200		Dec. 12, 1959	6.73	2,660
	Feb. 7, 1956	7.81	3,700		Mar. 30, 1960	8.82	4,740
	Feb. 18, 1956	6.46	2,480		May 8, 1960	8.74	4,630
	Feb. 25, 1956	8.27	4,200				
	Mar. 8, 1956	8.42	4,300	1961	Feb. 19, 1961	9.14	5,070
	Apr. 3, 1956	7.20	3,110		Feb. 26, 1961	7.39	3,300
	July 2, 1956	7.10	3,110		Mar. 5, 1961	6.40	2,400

430. Blacklick Creek at Blacklick, Pa.

Location.--Lat 40°28'25", long 79°12'15", near left bank on downstream side of bridge at Gratton, a quarter of a mile northwest of Blacklick, Indiana County, and three-quarters of a mile downstream from Two Lick Creek.

Drainage area.--390 sq mi.

Gage.--Nonrecording. Datum of gage is 945.94 ft above mean sea level (Pennsylvania State Highway bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs and extended on basis of slope-area measurement at 51,700 cfs.

Remarks.--Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	Mar. 21, 1905	-	8,920	1910	Jan. 28, 1910	a13.4	16,100
					Feb. 28, 1910	10.2	13,400
1906	Dec. 3, 1905	11.2	16,900				
				1911	Jan. 14, 1911	10.2	13,400
1907	Mar. 14, 1907	15.4	45,400		Sept.15, 1911	9.6	11,000
1908	Feb. 15, 1908	11.6	18,500	1912	Oct. 2, 1911	8.2	7,730
	Mar. 7, 1908	9.9	11,700		Feb. 27, 1912	9.6	11,200
	Mar. 19, 1908	11.3	17,300		Mar. 21, 1912	11.1	16,500
					June 16, 1912	9.6	11,200
1909	Feb. 24, 1909	8.8	9,110		Sept. 3, 1912	12.9	25,500

a Backwater from ice; maximum discharge occurred before ice-gorge formed.

Peak stages and discharges of Blacklick Creek at Blacklick, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Jan. 8, 1913	10.5	13,500
	Jan. 12, 1913	9.0	9,760
	Mar. 27, 1913	8.7	9,100
	May 27, 1913	10.4	13,300
1914	Mar. 17, 1914	8.4	8,440
	May 6, 1914	8.0	7,580
1915	Jan. 7, 1915	10.72	14,100
	Feb. 2, 1915	9.47	10,900
1916	Oct. 19, 1915	10.7	14,100
	Dec. 18, 1915	10.5	13,500
	Jan. 2, 1916	9.0	9,760
	Mar. 28, 1916	8.8	9,320
1917	Jan. 22, 1917	11.3	15,800
	June 7, 1917	8.0	7,580
	Aug. 14, 1917	8.4	8,440
1918	Feb. 13, 1918	9.0	9,760
	Feb. 20, 1918	10.8	14,400
	Feb. 26, 1918	8.6	8,880
1919	Oct. 31, 1918	7.9	7,370
1920	Mar. 5, 1920	8.6	8,880
	Mar. 12, 1920	8.3	8,220
	June 17, 1920	10.5	13,700
1921	May 5, 1921	7.3	6,110
1922	Nov. 29, 1921	9.85	11,700
	Apr. 15, 1922	9.4	10,700
1923	May 13, 1923	9.5	11,000
1924	Jan. 3, 1924	b9.7	-
	Mar. 29, 1924	8.6	8,880
	May 9, 1924	8.2	8,000
	May 12, 1924	8.2	8,000
	June 29, 1924	12.2	21,500
1925	Feb. 11, 1925	7.2	5,900
1926	Sept. 5, 1926	8.9	9,540
1927	Jan. 22, 1927	9.40	10,700
	Mar. 21, 1927	9.1	9,990
	May 19, 1927	8.0	7,580
1928	Oct. 20, 1927	9.80	11,700
	Dec. 14, 1927	8.1	7,790
	Feb. 5, 1928	8.0	7,580
	Mar. 30, 1928	8.6	8,880
1929	Feb. 26, 1929	8.10	7,790
1930	Feb. 25, 1930	9.70	11,500
1931	Apr. 4, 1931	9.30	10,500
1932	Apr. 1, 1932	7.5	6,540
1933	Mar. 15, 1933	9.28	11,100
	May 10, 1933	8.4	8,940
1934	Mar. 3, 1934	8.57	9,400
	Sept.29, 1934	7.9	7,800
1935	May 10, 1935	8.3	8,400
1936	Feb. 27, 1936	8.5	8,910
	Mar. 18, 1936	15.88	51,700
1937	Jan. 25, 1937	8.8	9,100
	Apr. 26, 1937	9.0	10,700
1938	Oct. 28, 1937	8.0	7,670
	Dec. 18, 1937	10.3	13,700
1939	Jan. 31, 1939	7.8	7,130
1940	Mar. 19, 1940	8.65	9,400
	Mar. 31, 1940	11.5	18,100
	Apr. 20, 1940	8.7	9,360
1941	June 5, 1941	8.0	7,280
1942	Apr. 9, 1942	9.01	10,300
1943	Dec. 30, 1942	11.76	19,500
1944	Mar. 17, 1944	8.1	7,650
1945	Feb. 27, 1945	9.2	10,500
	Mar. 3, 1945	9.3	10,800
	Mar. 6, 1945	10.4	14,000
1946	June 13, 1946	11.65	18,500
1947	June 8, 1947	7.10	5,490
1948	Feb. 14, 1948	8.3	8,150
	Apr. 12, 1948	10.7	14,900
	June 19, 1948	9.1	10,300
1949	Jan. 24, 1949	7.65	6,520
1950	July 5, 1950	7.68	6,740
1951	Dec. 4, 1950	9.3	10,800
	Jan. 4, 1951	8.6	8,920
	Apr. 30, 1951	9.7	11,900
	June 13, 1951	8.6	8,920
	July 23, 1951	9.8	12,200

b Backwater from ice.

440. Conemaugh River at Tunnelton, Pa.

Location.--Lat 40°27'15", long 79°23'30", on right bank at downstream side of highway bridge at Tunnelton, Indiana County, 0.9 mile downstream from Boatyard Run, 2 miles downstream from Conemaugh River Dam, 2¾ miles southeast of Saltsburg, and 5.5 miles upstream from confluence with Loyalhanna Creek.

Drainage area.--1,358 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1952; recording thereafter. Datum of gage is 844.64 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges of Conemaugh River at Tunnelton, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	20.18	55,600	1951	Dec. 4, 1950	13.1	28,100
				1952	Jan. 27, 1952	14.8	34,300
1941	June 5, 1941	16.9	42,300	1953	June 1, 1953	11.26	21,300
1942	Apr. 10, 1942	15.3	36,200	1954	Mar. 3, 1954	10.60	19,000
1943	Dec. 30, 1942	19.6	53,100	1955	Oct. 19, 1954	13.27	28,400
1944	Mar. 17, 1944	11.6	22,800				
1945	Mar. 7, 1945	21.0	59,200	1956	Mar. 11, 1956	11.23	20,900
				1957	Apr. 10, 1957	9.82	16,500
1946	June 13, 1946	14.6	33,600	1958	May 9, 1958	10.07	17,400
1947	June 8, 1947	10.1	17,900	1959	Jan. 25, 1959	9.73	16,200
1948	Apr. 14, 1948	16.5	40,800	1960	Apr. 5, 1960	12.78	26,600
1949	Jan. 27, 1949	10.6	19,500				
1950	Mar. 28, 1950	12.9	27,300	1961	Mar. 4, 1961	12.81	26,600

450. Loyalhanna Creek at Kingston, Pa.

Location.--Lat 40°17'35", long 79°20'25", on right bank 60 ft downstream from bridge on State Highway 680, at Kingston, Westmoreland County, 100 ft downstream from Miller Run, 1.9 miles upstream from Ninemile Run, and 3 miles southeast of Latrobe.

Drainage area.--172 sq mi.

Gage.--Recording. Datum of gage is 1,014.16 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended on basis of contracted-opening measurement at 29,700 cfs.

Historical data.--Flood of Mar. 17 or 18, 1936, reached a stage of about 14.5 ft, from information by local residents (discharge, 21,000 cfs from rating curve extended above 8,200 cfs by logarithmic plotting). Maximum stage known since at least 1918, that of Oct. 15, 1954.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Trout Run Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 30, 1940	9.83	9,170	1951	June 28, 1951	10.73	10,500
				1952	Jan. 27, 1952	8.46	6,280
1941	June 5, 1941	10.06	9,830	1953	May 31, 1953	7.74	4,780
1942	Apr. 9, 1942	8.72	6,590	1954	Mar. 1, 1954	6.39	3,350
1943	Dec. 30, 1942	9.17	7,500	1955	Oct. 15, 1954	14.8	29,700
1944	May 7, 1944	7.61	4,760	1956	Feb.26,Aug.6, 1956	6.26	4,350
1945	Mar. 6, 1945	10.00	9,100				
1946	June 2, 1946	9.46	8,140	1957	June 13, 1957	5.68	3,510
1947	June 8, 1947	7.57	4,760	1958	Aug. 3, 1958	5.41	3,130
1948	Apr. 14, 1948	9.22	7,570	1959	Feb. 10, 1959	5.84	4,100
1949	Jan. 26, 1949	7.74	4,900	1960	Mar. 29, 1960	6.16	4,700
1950	Jan. 7, 1950	7.30	4,270	1961	Apr. 26, 1961	6.05	4,720

455. Loyalhanna Creek at New Alexandria, Pa.

Location.--Lat 40°23'40", long 79°25'55", at highway bridge at New Alexandria, Westmoreland County, 1¾ miles downstream from Crabtree Creek.

Drainage area.--265 sq mi.

Gage.--Nonrecording. Datum of gage is 917.26 ft above mean sea level, general adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements. Discharge of Mar. 18, 1936, determined by slope-area and contracted-opening measurements.

Remarks.--Only annual peaks are shown. Flow regulated by Trout Run Reservoir.

Peak stages and discharges of Loyalhanna Creek at New Alexandria, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept.15, 1911	12.0	11,400	1931	Apr. 4, 1931	10.3	7,480
				1932	Jan. 30, 1932	7.2	3,840
1920	June 17, 1920	8.70	5,520	1933	Mar. 15, 1933	12.3	10,000
				1934	Aug. 16, 1934	6.78	3,430
1921	Jan. 8, 1921	7.2	3,850	1935	Aug. 3, 1935	16.0	17,900
1922	Nov. 28, 1921	10.60	7,500				
1923	May 13, 1923	7.6	3,910	1936	Mar. 18, 1936	20.96	31,000
				1937	Apr. 26, 1937	15.09	15,900
1926	Sept.30, 1926	9.8	6,500	1938	Oct. 28, 1937	9.8	6,500
1927	Jan. 21, 1927	8.95	5,880	1939	Feb. 3, 1939	8.7	5,120
1928	Oct. 20, 1927	12.65	10,400	1940	Mar. 31, 1940	12.9	11,400
1929	Feb. 26, 1929	9.3	5,850				
1930	June 10, 1930	10.1	7,240				

470. Loyalhanna Creek at Loyalhanna Creek Dam, Pa.

Location.--Lat 40°27'50", long 79°27'05", on left bank at downstream side of highway bridge, 0.7 mile downstream from Loyalhanna Creek Dam, Westmoreland County, 1½ miles south of Saltsburg, and 4.0 miles upstream from confluence with Conemaugh River.

Drainage area.--292 sq mi.

Gage.--Recording. Datum of gage is 861.15 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown. Flow completely regulated since 1942 by Loyalhanna Creek and Trout Run Reservoirs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	9.90	10,700	1951	June 16, 1951	6.40	4,520
				1952	Jan. 30, 1952	6.41	4,520
1941	June 5, 1941	10.30	11,700	1953	June 2, 1953	6.15	3,920
1942	Apr. 10, 1942	6.75	4,560	1954	Mar. 3, 1954	6.19	3,920
1943	Jan. 2, 1943	6.35	4,020	1955	Oct. 18, 1954	6.90	4,780
1944	May 7, 1944	6.99	4,840				
1945	Mar. 9, 1945	7.96	6,980	1956	Mar. 10, 1956	6.58	4,310
				1957	Apr. 10, 1957	5.33	2,950
1946	June 3, 1946	6.46	4,480	1958	May 9, 1958	5.96	3,650
1947	June 9, 1947	6.22	4,060	1959	Jan. 24, 1959	5.36	3,050
1948	Apr. 17, 1948	6.76	4,920	1960	Apr. 7, 1960	7.12	4,860
1949	Jan. 30, 1949	6.44	4,520				
1950	Jan. 8, 1950	6.31	4,380	1961	Mar. 10, 1961	6.66	4,420

475. Kiskiminetas River at Avonmore, Pa.

Location.--Lat 40°32'05", long 79°27'55", at highway bridge at Avonmore, Westmoreland County, 1 mile above mouth at Long Run.

Drainage area.--1,723 sq mi.

Gage.--Nonrecording. Datum of gage is 805.64 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements.. Discharge for Mar. 18, 1936, determined by slope-area measurement.

Remarks.--Only annual peaks are shown. Flow regulated since 1905 by Hinckston Reservoir, since 1913 by Quemahoning Reservoir, and by a number of smaller reservoirs. Records prior to 1906 are from U.S. Weather Bureau.

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Peak stages and discharges of Kiskiminetas River at Avonmore, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 6, 1884	24.1	54,200	1914	Mar. 17, 1914	17.20	27,300
1885	Jan. 17, 1885	16.4	27,300	1915	Feb. 2, 1915	21.4	41,700
1886	Jan. 5, 1886	19.1	36,200	1916	Mar. 22, 1916	20.0	36,600
1887	Dec. 14, 1886	13.8	19,600	1917	Jan. 22, 1917	24.0	51,800
1888	Aug. 21, 1888	31.8	84,500	1918	Feb. 20, 1918	22.0	43,900
1889	June 1, 1889	29.8	76,500	1919	Jan. 2, 1919	16.2	24,300
1890	Mar.23,Apr.10, 1890	17.8	31,800	1920	Nov. 27, 1919	20.3	37,700
1891	Feb. 17, 1891	30.4	78,900	1921	Jan. 23, 1921	15.6	22,500
1892	Jan. 14, 1892	15.1	23,300	1922	Nov. 29, 1921	24.65	54,200
1893	Feb. 11, 1893	15.2	23,600	1923	May 13, 1923	18.0	29,800
1894	May 20, 1894	19.5	37,500	1924	Mar. 30, 1924	24.0	51,800
1895	Jan. 8, 1895	19.8	38,600	1925	Feb. 12, 1925	17.8	29,200
1902	Mar. 1, 1902	26.4	63,200	1926	Sept. 6, 1926	18.5	31,400
1903	Mar. 1, 1903	16.4	27,300	1927	Jan. 22, 1927	21.3	41,300
1904	Jan. 23, 1904	21.8	45,600	1928	Oct. 20, 1927	25.1	56,300
1905	Mar. 8, 1905	20.4	40,700	1929	Feb. 26, 1929	16.96	26,700
				1930	Feb. 25, 1930	23.3	48,800
1906	June 7, 1906	19.1	36,200				
1907	Mar. 14, 1907	33.8	98,900	1931	Apr. 4, 1931	20.2	37,300
1908	Mar. 19, 1908	30.8	80,500	1932	Apr. 1, 1932	18.3	30,600
1909	Feb. 24, 1909	17.2	29,800	1933	Mar. 15, 1933	23.0	47,600
1910	Feb. 28, 1910	19.2	36,500	1934	Sept.30, 1934	14.90	20,300
				1935	Aug. 4, 1935	18.6	33,800
1911	Sept.15, 1911	21.5	44,600				
1912	Mar. 21, 1912	28.0	69,400	1936	Mar. 18, 1936	47.2	185,000
1913	Jan. 8, 1913	22.21	44,700	1937	Apr. 26, 1937	28.8	80,400

485. Kiskiminetas River at Vandergrift, Pa.

Location.--Lat 40°36'20", long 79°33'15", on left bank a third of a mile upstream from bridge on State Highway 56 at Vandergrift, Westmoreland County, and 2 miles upstream from Pine Run.

Drainage area.--1,825 sq mi.

Gage.--Recording. Datum of gage is 769.40 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements. Maximum discharge of Mar. 18, 1936, by slope-area measurement.

Bankfull stage.--25 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1942 by Loyalhanna Creek Reservoir, since 1952 by Conemaugh River Reservoir, and by other reservoirs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	41.64	185,000	1950	Mar. 28, 1950	16.00	27,200
1938	Dec. 18, 1937	19.37	40,300	1951	Dec. 4, 1950	16.91	29,900
1939	Feb. 4, 1939	16.71	30,800	1952	Jan. 27, 1952	18.46	34,700
1940	Mar. 31, 1940	25.70	71,900	1953	June 2, 1953	14.99	24,200
1941	June 5, 1941	22.68	56,100	1954	Mar. 4, 1954	14.74	23,300
1942	Apr. 10, 1942	20.32	44,800	1955	Oct. 19, 1954	17.56	32,000
1943	Dec. 30, 1942	24.79	67,000				
1944	May 7, 1944	15.58	26,900	1956	Mar. 11, 1956	15.79	26,600
1945	Mar. 7, 1945	25.34	64,700	1957	Apr. 10, 1957	13.76	20,600
				1958	May 10, 1958	14.20	21,800
1946	June 3, 1946	17.57	32,000	1959	Jan. 25, 1959	13.44	19,400
1947	June 9, 1947	14.97	24,200	1960	Apr. 6, 1960	17.02	30,200
1948	Apr. 14, 1948	20.91	44,300				
1949	Jan. 27, 1949	14.25	21,800	1961	Mar. 4, 1961	17.37	31,400

490. Buffalo Creek near Freeport, Pa.

Location.--Lat 40°43'00", long 79°42'00", on right bank 0.5 mile upstream from Little Buffalo Creek and 3 miles north of Freeport, Armstrong County.

Drainage area.--137 sq mi.

Gage.--Nonrecording and crest-stage gage. Altitude of gage is 792 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended on basis of slope-area measurement at 14,000 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Aug. 15, 1941	4.7	1,880	1952	May 26, 1952	5.6	2,760
1942	Feb. 7, 1942	a5.5	2,650	1953	Mar. 24, 1953	5.63	2,790
	Mar. 9, 1942	a6.2	3,390		May 31, 1953	6.67	3,920
					June 7, 1953	5.21	2,400
1943	Dec. 30, 1942	7.9	5,610	1954	Mar. 1, 1954	5.73	2,890
	Mar. 12, 1943	4.9	2,060		Apr. 17, 1954	6.58	3,810
	Apr. 20, 1943	5.6	2,750	1955	Oct. 4, 1954	4.9	2,130
	June 17, 1943	5.2	2,350		Oct. 15, 1954	13.60	14,000
1944	Mar. 17, 1944	4.9	2,060		Dec. 18, 1954	5.2	2,400
					Dec. 30, 1954	4.8	2,040
1945	Feb. 22, 1945	8.1	5,910		Feb. 22, 1955	5.26	2,490
	Feb. 27, 1945	5.9	3,070		Mar. 4, 1955	4.79	2,040
	Mar. 3, 1945	5.5	2,660				
	Mar. 7, 1945	6.7	3,990	1956	Feb. 2, 1956	4.9	2,130
	Mar. 21, 1945	8.3	6,210		Feb. 7, 1956	6.60	3,810
	May 17, 1945	4.8	2,000		Feb. 18, 1956	5.5	2,690
					Feb. 25, 1956	7.54	4,830
1946	Feb. 27, 1946	6.4	3,630		Mar. 8, 1956	5.7	2,890
					Apr. 3, 1956	6.06	3,290
1947	June 7, 1947	5.0	2,180		Apr. 7, 1956	5.09	2,310
					May 12, 1956	5.7	2,890
1948	Feb. 14, 1948	6.83	4,110		June 24, 1956	9.20	7,020
	Apr. 14, 1948	6.70	4,110		July 16, 1956	5.5	2,690
					Aug. 5, 1956	5.3	2,490
1949	Dec. 16, 1948	5.78	2,960				
				1957	Jan. 23, 1957	5.99	3,190
1950	Jan. 6, 1950	5.0	2,180		Apr. 4, 1957	9.15	7,020
	Jan. 10, 1950	6.48	3,750				
	Feb. 14, 1950	5.0	2,180	1958	Dec. 21, 1957	6.00	3,190
	Mar. 27, 1950	5.0	2,180		May 7, 1958	5.67	2,890
					July 31, 1958	5.72	2,890
1951	Dec. 4, 1950	7.3	4,760				
	Dec. 8, 1950	6.1	3,290	1959	Jan. 22, 1959	7.3	4,590
	Jan. 4, 1951	5.1	2,270		Feb. 10, 1959	6.8	4,030
	Jan. 15, 1951	6.6	3,870				
	Feb. 1, 1951	4.9	2,090	1960	Dec. 12, 1959	5.25	2,390
					Mar. 30, 1960	7.47	4,830
1952	Jan. 1, 1952	5.0	2,180		June 14, 1960	5.15	2,390
	Jan. 27, 1952	9.3	7,170				
	Feb. 4, 1952	4.8	2,000	1961	Feb. 19, 1961	-	2,200
	Apr. 15, 1952	5.1	2,270		Feb. 25, 1961	4.9	2,100
	May 20, 1952	5.3	2,460		July 24, 1961	6.1	3,290

a Maximum observed.

495. Allegheny River at Natrona, Pa.

Location.--Lat 40°36'55", long 79°43'10", on right bank 550 ft upstream from dam at lock 4 at Natrona, Allegheny County, 6 miles downstream from Kiskiminetas River, and at mile 24.2.

Drainage area.--11,410 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 14, 1940; recording thereafter. Datum of gage is 736.74 ft above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurement

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	32.06	365,000	1950	Mar. 29, 1950	19.54	130,000
1939	Feb. 21, 1939	17.6	103,000	1951	Dec. 4, 1950	21.02	152,000
1940	Mar. 31, 1940	23.6	187,000	1952	Jan. 27, 1952	23.28	183,000
				1953	May 31, 1953	20.06	139,000
1941	Dec. 14, 1940	16.67	89,000	1954	Mar. 4, 1954	17.44	100,000
1942	Mar. 17, 1942	19.30	128,000	1955	Oct. 16, 1954	20.38	143,000
1943	Dec. 30, 1942	27.46	238,000				
1944	Mar. 18, 1944	17.91	108,000	1956	Mar. 9, 1956	22.97	178,000
1945	Mar. 7, 1945	24.77	203,000	1957	Jan. 24, 1957	18.58	118,000
				1958	July 15, 1958	17.27	98,500
1946	May 28, 1946	21.63	160,000	1959	Jan. 22, 1959	25.67	215,000
1947	Apr. 6, 1947	20.29	142,000	1960	Apr. 1, 1960	21.41	157,000
1948	Mar. 23, 1948	21.05	152,000				
1949	Jan. 28, 1949	16.01	77,400	1961	Apr. 26, 1961	18.54	116,000

MONONGAHELA RIVER BASIN

500. Tygart Valley River near Dailey, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 38°48'35", long 79°52'55", on right bank 50 ft downstream from highway bridge, 1,000 ft upstream from Stalnaker Run, 1 mile northeast of Dailey, Randolph County, and 2½ miles south of Beverly.

Drainage area.--187 sq mi.

Gage.--Nonrecording prior to Dec. 17, 1941; recording thereafter. A few feet upstream at same datum prior to Sept. 27, 1928. At site 50 ft upstream at same datum Sept. 27, 1928, to Dec. 16, 1941. Datum of gage is 1,940.09 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	10.3	5,070	1920	Jan. 23, 1920	10.1	4,990
					Mar. 19, 1920	9.5	4,450
1917	Jan. 20, 1917	11.20	5,980				
	Feb. 24, 1917	10.20	5,080	1921	May 30, 1921	11.00	5,600
	Mar. 12, 1917	13.4	7,510				
	Mar. 14, 1917	11.5	6,250	1922	Dec. 18, 1921	10.5	5,220
	May 29, 1917	9.5	4,450		Dec. 24, 1921	10.5	5,220
					Feb. 11, 1922	9.2	4,180
1918	Jan. 28, 1918	11.5	6,250		Feb. 20, 1922	9.6	4,540
	Feb. 20, 1918	9.5	4,450		Apr. 15, 1922	9.5	4,450
	Feb. 26, 1918	10.9	5,710				
	Mar. 13, 1918	15.9	11,300	1923	Feb. 2, 1923	11.70	6,150
	May 8, 1918	9.2	4,180		June 13, 1923	10.5	5,350
	May 25, 1918	13.2	7,940				
	June 29, 1918	10.4	5,260	1924	Dec. 28, 1923	10.0	4,900
					Jan. 1, 1924	10.3	5,170
1919	Jan. 1, 1919	12.1	6,470		Jan. 3, 1924	9.7	4,630
					Feb. 20, 1924	10.0	4,900
1920	Dec. 7, 1919	12.04	6,390		Mar. 29, 1924	11.5	6,250

Peak stages and discharges of Tygart Valley River near Dailey, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1924	May 12, 1924	13.6	8,420
	Sept. 30, 1924	9.60	4,540
1925	Mar. 19, 1925	9.85	4,700
1926	Oct. 25, 1925	9.06	4,090
	Jan. 22, 1926	9.50	4,470
	Feb. 15, 1926	9.50	4,450
1927	Dec. 22, 1926	9.6	4,540
	Feb. 6, 1927	10.06	4,920
	Feb. 19, 1927	10.5	5,350
	May 1, 1927	9.35	4,360
1928	May 1, 1928	11.2	5,980
	June 20, 1928	13.7	8,540
	June 22, 1928	10.03	4,900
1929	Dec. 1, 1928	11.84	6,240
1930	Oct. 3, 1929	11.20	5,760
	Nov. 18, 1929	10.0	4,900
1931	Aug. 23, 1931	7.35	2,880
1932	Jan. 30, 1932	9.10	4,090
	Feb. 4, 1932	17.2	13,100
	Mar. 17, 1932	12.4	7,100
	Mar. 28, 1932	10.9	5,710
	May 1, 1932	9.10	4,090
	July 5, 1932	10.1	4,990
1933	Jan. 22, 1933	9.30	4,270
	May 16, 1933	9.6	4,170
	July 27, 1933	9.60	4,540
1934	Mar. 3, 1934	12.5	7,200
1935	Jan. 21, 1935	10.8	5,620
	Mar. 12, 1935	10.5	5,350
	May 7, 1935	9.5	4,450
	Aug. 7, 1935	14.53	9,500
1936	Nov. 13, 1935	10.0	4,900
	Feb. 15, 1936	9.4	4,360
	Mar. 17, 1936	14.1	9,020
	Mar. 25, 1936	12.4	7,100
	Apr. 6, 1936	10.6	5,440
1937	Jan. 21, 1937	9.37	4,360
	Apr. 26, 1937	10.98	5,800
1938	Oct. 28, 1937	13.7	8,540
1939	Jan. 31, 1939	12.5	7,400
	Feb. 3, 1939	14.2	9,310
	Apr. 16, 1939	13.1	8,060
	July 21, 1939	9.5	4,470
1940	May 25, 1940	9.8	4,740
	June 19, 1940	10.0	4,920
1941	May 18, 1941	8.50	3,600
1942	Mar. 9, 1942	9.32	4,200
	Aug. 9, 1942	9.53	4,380
	Aug. 24, 1942	11.36	6,230
1943	Mar. 14, 1943	9.89	4,740
	July 30, 1943	12.70	7,760
1944	Feb. 23, 1944	13.35	8,600
	Apr. 12, 1944	9.52	4,380
	June 23, 1944	10.5	5,330
1945	Dec. 26, 1944	11.67	6,650
	Dec. 28, 1944	10.04	4,830
	Mar. 1, 1945	11.40	6,320
	Mar. 3, 1945	9.09	4,020
1946	Jan. 8, 1946	9.75	4,650
	May 27, 1946	9.62	4,470
1947	Mar. 15, 1947	9.08	4,020
	Mar. 25, 1947	9.72	4,560
1948	Feb. 14, 1948	12.59	7,640
	Feb. 27, 1948	9.21	4,110
	Apr. 14, 1948	10.54	5,330
1949	Dec. 16, 1948	10.37	5,230
1950	Feb. 1, 1950	10.98	5,800
	Mar. 13, 1950	9.27	4,140
	Apr. 24, 1950	9.53	4,320
	June 25, 1950	11.37	6,240
	Sept. 2, 1950	10.53	5,300
1951	Dec. 4, 1950	10.89	5,700
	Dec. 8, 1950	10.59	5,400
	Feb. 1, 1951	10.36	5,200
	Apr. 13, 1951	9.31	4,140
1952	Jan. 28, 1952	10.31	5,100
1953	Feb. 22, 1953	9.50	4,320
1954	Mar. 1, 1954	11.03	5,800
1955	Oct. 16, 1954	13.62	10,400
	Dec. 20, 1954	9.31	4,150
	Feb. 7, 1955	11.12	6,650
	Mar. 5, 1955	12.52	9,700
1956	Jan. 31, 1956	9.93	4,930
	Feb. 3, 1956	10.05	5,040
	Mar. 15, 1956	9.53	4,500
	May 28, 1956	11.44	7,250
	June 1, 1956	9.13	4,100
	Aug. 6, 1956	11.39	7,250
1957	Jan. 10, 1957	10.74	6,000
	Jan. 23, 1957	9.71	4,710
	Jan. 30, 1957	12.28	9,200
	Feb. 10, 1957	9.87	4,930
1958	Dec. 8, 1957	9.45	4,400
	July 25, 1958	9.55	4,600
	Aug. 9, 1958	10.46	5,710
1959	Jan. 22, 1959	9.85	4,820
1960	Mar. 31, 1960	11.25	6,850
	Apr. 4, 1960	10.02	5,040
1961	Feb. 19, 1961	8.99	4,000

505. Tygart Valley River near Elkins, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 38°55'30", long 79°52'45", on left bank 1.4 miles upstream from Leading Creek and 1.5 miles west of Elkins, Randolph County.

Drainage area.--272 sq mi.

Gage.--Nonrecording prior to Nov. 16, 1944; recording thereafter. At site 200 ft upstream at datum 1.00 ft higher prior to Nov. 16, 1944, but was corrected to present datum. Nov. 16, 1944, to Sept. 30, 1951, at site 200 ft upstream at same datum. Datum of gage is 1,893.95 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Dec. 26, 1944	12.97	7,600	1954	Mar. 2, 1954	10.58	5,240
	Dec. 28, 1944	10.52	5,150				
	Mar. 1, 1945	11.82	6,400	1955	Oct. 16, 1954	14.45	10,700
1946	Jan. 8, 1946	9.97	4,700		Feb. 7, 1955	12.33	7,350
	May 28, 1946	9.98	4,700		Mar. 6, 1955	13.35	9,040
1947	Mar. 25, 1947	10.44	5,020	1956	Jan. 30, 1956	13.10	8,560
	June 9, 1947	12.02	6,600		Feb. 3, 1956	11.87	6,780
					Mar. 15, 1956	10.51	5,200
1948	Feb. 14, 1948	14.13	8,810		May 29, 1956	11.77	6,660
	Mar. 24, 1948	12.27	6,900		Aug. 7, 1956	12.27	7,350
	Apr. 14, 1948	12.20	6,800				
				1957	Jan. 11, 1957	11.50	6,300
1949	Dec. 16, 1948	12.99	7,600		Jan. 30, 1957	13.63	9,360
					Feb. 10, 1957	12.53	7,650
1950	Feb. 1, 1950	12.50	7,100				
	Mar. 13, 1950	10.37	5,060	1958	Dec. 8, 1957	10.58	5,300
	June 25, 1950	11.46	6,100		May 6, 1958	10.87	5,600
					July 24, 1958	10.36	5,100
1951	Dec. 4, 1950	11.80	6,400				
	Dec. 8, 1950	10.46	5,150	1959	Jan. 22, 1959	10.48	5,200
	Feb. 2, 1951	11.65	6,200				
				1960	Mar. 31, 1960	13.02	8,400
1952	Jan. 28, 1952	11.57	6,200		Apr. 4, 1960	10.60	5,300
1953	Feb. 22, 1953	9.56	4,340	1961	Feb. 19, 1961	9.87	4,610

510. Tygart Valley River at Belington, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 39°01'45", long 79°56'10", on left bank opposite mouth of Mill Creek, a quarter of a mile downstream from highway bridge at Belington, Barbour County.

Drainage area.--408 sq mi, excluding that of Mill Creek.

Gage.--Nonrecording prior to Apr. 25, 1939; recording thereafter. At site a quarter of a mile upstream at same datum prior to Apr. 25, 1939. Datum of gage is 1,679.49 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Base for partial-duration series, 6,200 cfs.

Peak stages and discharges of Tygart Valley River at Belington, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 1888	21.7	21,200
1907a/	July 18, 1907	18.7	b16,500
1908	Jan. 12, 1908	13.0	8,780
	Feb. 15, 1908	14.0	9,580
	Mar. 2, 1908	12.4	7,970
	May 5, 1908	12.0	7,450
	May 7, 1908	11.9	7,320
	May 10, 1908	12.2	7,710
1909	Apr. 15, 1909	9.9	5,390
1910	Jan. 3, 1910	12.0	7,450
	June 17, 1910	15.0	10,700
	June 19, 1910	14.0	9,580
1911	Jan. 13, 1911	13.0	8,780
	Jan. 30, 1911	16.0	11,900
	Sept.16, 1911	13.9	10,000
1912	Feb. 27, 1912	11.0	6,240
	Mar. 15, 1912	13.0	8,780
	May 17, 1912	12.5	8,100
	July 25, 1912	20.30	18,400
1913	Mar. 27, 1913	11.7	7,080
	May 27, 1913	12.7	8,360
1914	Nov. 16, 1913	15.2	11,000
	Feb. 19, 1914	14.0	9,580
1915	Dec. 21, 1914	12.0	7,450
	Feb. 2, 1915	13.0	8,780
	Jan. 18, 1915	12.3	7,840
1916	Dec. 18, 1915	14.0	9,580
	Dec. 29, 1915	12.0	7,450
	Jan. 12, 1916	15.0	10,700
	Feb. 12, 1916	11.8	7,200
	Mar. 8, 1916	11.7	7,080
1917	Jan. 22, 1917	15.0	10,700
	Feb. 8, 1917	11.74	7,080
	Mar. 12, 1917	17.2	13,400
	May 28, 1917	12.0	7,450
1918	Jan. 29, 1918	12.7	8,360
	Feb. 9, 1918	11.63	6,960
	Feb. 27, 1918	12.3	7,840
	Mar. 14, 1918	19.6	17,100
1919	Dec. 11, 1918	11.5	6,840
	Jan. 2, 1919	15.0	b11,000
	July 17, 1919	12.0	7,450
1920	Dec. 7, 1919	16.0	11,900
	Jan. 9, 1920	12.4	7,970
	Jan. 23, 1920	16.38	13,400
	Mar. 20, 1920	14.7	10,400
	Apr. 21, 1920	13.0	8,780
1921	May 30, 1921	15.0	10,700
1922	Dec. 24, 1921	12.8	8,500
	Jan. 20, 1922	13.0	8,300
	Feb. 11, 1922	11.0	6,240
	Feb. 20, 1922	11.3	6,600
	Apr. 15, 1922	11.7	7,080
1923	Jan. 29, 1923	11.0	6,240
	Feb. 2, 1923	12.9	8,920
	June 14, 1923	11.0	6,240
1924	Dec. 24, 1923	12.0	7,450
	Dec. 28, 1923	13.0	8,780
	Dec. 31, 1923	13.0	8,780
	Jan. 3, 1924	13.0	8,780
	Feb. 20, 1924	13.4	9,340
	Mar. 30, 1924	13.2	9,060
	May 9, 1924	12.00	7,450
	May 13, 1924	17.3	13,500
	June 10, 1924	11.0	6,240
1925	Mar. 20, 1925	12.0	7,000
1926	Oct. 26, 1925	11.6	6,960
	Jan. 19, 1926	11.10	6,360
	Jan. 27, 1926	12.38	8,310
	Feb. 15, 1926	12.10	7,580
1927	Jan. 21, 1927	12.10	7,580
	Feb. 6, 1927	12.90	8,920
	Feb.19,20,1927	11.10	6,360
	Apr. 10, 1927	11.0	6,240
	May 1, 1927	12.3	7,840
1928	May 1, 1928	14.6	10,300
	June 21, 1928	13.95	9,580
1929	Dec. 1, 1928	12.68	8,680
	Feb. 26, 1929	12.0	7,450
	Mar. 6, 1929	10.98	6,240
	May 30, 1929	11.76	7,200
1930	Oct. 3, 1929	15.05	11,600
	Nov. 18, 1929	13.0	8,780
1931	May 23, 1931	10.56	6,160
1932	Jan. 30, 1932	12.0	7,450
	Feb. 4, 1932	19.5	16,900
	Mar. 18, 1932	14.90	10,600
	Mar. 28, 1932	12.78	8,500
1933	Mar. 15, 1933	11.50	6,840
	May 11, 1933	12.8	8,500
	May 17, 1933	13.1	8,920
1934	Mar. 4, 1934	15.0	10,700
1935	Jan. 21, 1935	12.62	8,230
	Mar. 12, 1935	13.40	9,340
	May 8, 1935	11.11	6,360
	July 9, 1935	12.03	7,450
	Aug. 8, 1935	13.83	9,900
1936	Nov. 13, 1935	12.3	7,840
	Jan. 3, 1936	12.77	8,500
	Jan. 10, 1936	11.03	6,240
	Feb. 15, 1936	11.41	6,720
	Mar. 17, 1936	16.6	12,600
	Mar. 24, 1936	17.22	13,400
	Apr. 7, 1936	13.0	8,780
	July 5, 1936	11.51	6,840
1937	Dec. 7, 1936	11.0	6,240
	Jan. 21, 1937	11.15	6,480
	Apr. 26, 1937	13.9	10,000
	Sept. 6, 1937	11.5	6,840
1938	Oct. 29, 1937	18.92	15,900
	Feb. 12, 1938	11.13	6,360
	May 21, 1938	11.65	6,960
	June 17, 1938	12.04	7,450
1939	Jan. 31, 1939	15.62	11,400
	Feb. 3, 1939	16.8	12,900
	Apr. 17, 1939	16.30	12,200
1940	Feb. 11, 1940	11.91	8,070
	Apr. 17, 1940	11.86	8,070
1941	Aug. 27, 1941	9.77	5,400
1942	Aug. 10, 1942	11.88	7,870
	Aug. 24, 1942	12.70	9,000
1943	Dec. 24, 1942	10.77	6,460
	July 31, 1943	10.85	6,460
1944	Feb. 23, 1944	13.94	10,900
	Apr. 13, 1944	11.31	7,090
1945	Dec. 26, 1944	14.30	11,600
	Dec. 28, 1944	11.41	7,220
	Jan. 1, 1945	12.25	8,280

a Partial year.
b Daily discharge.

Peak stages and discharges of Tygart Valley River at Belington, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 1, 1945	12.06	8,140	1954	Mar. 2, 1954	10.61	5,930
	Mar. 3, 1945	11.44	7,220	1955	Oct. 16, 1954	17.66	15,000
1946	Jan. 8, 1946	10.20	5,770		Dec. 30, 1954	11.99	7,780
1947	Mar. 15, 1947	11.19	6,720		Feb. 7, 1955	14.03	10,300
	Mar. 25, 1947	11.56	7,280		Mar. 6, 1955	14.10	10,400
	June 8, 1947	13.61	10,400	1956	Jan. 30, 1956	14.88	11,300
1948	Feb. 14, 1948	16.49	13,200		Feb. 3, 1956	13.20	9,340
	Feb. 27, 1948	11.04	6,700		Mar. 15, 1956	11.95	7,780
	Mar. 24, 1948	15.25	11,600		May 28, 1956	12.41	8,300
	Apr. 15, 1948	13.03	9,610		June 3, 1956	10.97	6,500
1949	Dec. 16, 1948	14.91	11,300		Aug. 7, 1956	12.67	8,690
	Jan. 27, 1949	11.45	7,220	1957	Jan. 10, 1957	12.19	7,890
1950	Nov. 29, 1949	11.33	6,790		Jan. 24, 1957	10.99	6,400
	Feb. 1, 1950	14.03	10,700		Jan. 30, 1957	14.52	11,000
	Mar. 13, 1950	11.60	7,150		Feb. 10, 1957	15.62	12,600
	June 25, 1950	13.33	9,530	1958	Dec. 8, 1957	12.09	7,760
1951	Dec. 4, 1950	13.00	9,050		May 6, 1958	12.19	7,890
	Feb. 1, 1951	13.37	9,690		May 8, 1958	10.95	6,400
	June 10, 1951	11.68	7,240		July 23, 1958	12.48	8,280
	June 13, 1951	10.95	6,400		Aug. 4, 1958	11.60	7,120
1952	Jan. 5, 1952	11.04	6,400		Aug. 9, 1958	11.74	7,240
	Jan. 28, 1952	13.04	9,050	1959	Jan. 22, 1959	12.70	8,540
1953	Jan. 9, 1953	9.92	5,170	1960	Dec. 13, 1959	10.90	6,280
	Feb. 22, 1953	9.91	5,170		Mar. 31, 1960	14.23	10,600
					Apr. 4, 1960	11.43	6,880
				1961	Feb. 19, 1961	11.02	6,400

515. Middle Fork River at Midvale, W. Va.
(Published as Middle Fork at Midvale, W. Va.)

Location.--Lat 38°56'20", long 80°05'25", at Midvale station on Coal & Coke Railway (Baltimore & Ohio), Randolph County, 1 mile downstream from Ellamore and 2 miles downstream from Laurel Creek.

Drainage area.--122 sq mi.

Gage.--Nonrecording. At site a third of a mile upstream at different datum prior to Jan. 20, 1936. Datum of gage is 1,812.59 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended on basis of logarithmic plotting.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Nov. 15, 1915	8.2	2,660	1919	Dec. 10, 1918	8.0	2,540
	Dec. 18, 1915	9.3	3,680		Jan. 2, 1919	11.0	4,420
	Dec. 29, 1915	7.55	2,320		July 16, 1919	9.0	3,140
	Jan. 2, 1916	7.65	2,320				
	Jan. 12, 1916	9.2	3,260	1920	Nov. 2, 1919	8.0	2,540
	Feb. 13, 1916	9.1	3,200		Dec. 7, 1919	11.0	4,420
	Mar. 7, 1916	9.0	3,140		Dec. 13, 1919	7.7	2,380
1917	Dec. 28, 1916	7.8	2,430		Jan. 9, 1920	9.0	3,140
	Jan. 22, 1917	10.4	4,020		Jan. 23, 1920	8.7	2,960
	Mar. 8, 1917	8.8	3,020		Mar. 19, 1920	9.62	3,500
	Mar. 12, 1917	10.67	4,220		Apr. 21, 1920	8.05	2,540
	May 27, 1917	9.0	3,140	1921	Mar. 3, 1921	9.0	3,140
1918	Dec. 25, 1917	8.54	2,840		May 30, 1921	9.10	3,200
	Jan. 12, 1918	7.65	2,320	1922	Nov. 1, 1921	8.0	2,540
	Jan. 28, 1918	16.5	8,500		Nov. 28, 1921	7.8	2,430
	Feb. 20, 1918	7.90	2,480		Dec. 18, 1921	7.70	2,380
	Feb. 26, 1918	9.90	3,700		Dec. 24, 1921	12.0	5,060
	Mar. 14, 1918	11.0	4,420		Jan. 19, 1922	7.85	2,430
	May 25, 1918	9.85	3,640		Feb. 11, 1922	10.0	3,760

Peak stages and discharges of Middle Fork River at Midvale, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Apr. 15, 1922	7.92	2,480
1923	Feb. 1, 1923	9.98	3,760
	Feb. 13, 1923	7.44	2,210
	June 25, 1923	8.02	2,540
1924	Dec. 23, 1923	8.3	2,720
	Dec. 28, 1923	10.0	3,760
	Dec. 31, 1923	10.0	3,760
	Jan. 3, 1924	9.0	3,140
	Feb. 20, 1924	9.98	3,760
	Mar. 29, 1924	9.76	3,640
	May 9, 1924	8.03	2,540
	May 12, 1924	15.0	7,300
	Sept.30, 1924	9.35	3,380
1925	Mar. 19, 1925	7.46	2,260
1926	Oct. 25, 1925	9.87	3,700
	Jan. 22, 1926	8.95	3,140
	Aug. 20, 1926	9.02	3,140
1927	Dec. 21, 1926	9.93	3,700
	Dec. 26, 1926	7.75	2,430
	Jan. 20, 1927	8.44	2,780
	Jan. 24, 1927	7.51	2,260
	Feb. 7, 1927	8.1	2,600
	Feb. 19, 1927	8.45	2,780
	Apr. 6, 1927	8.51	2,840
	Apr. 9, 1927	8.15	2,660
	Apr. 30, 1927	9.58	3,500
	May 17, 1927	7.50	2,260
	Aug. 9, 1927	8.64	2,900
1928	Oct. 20, 1927	8.8	3,020
	Apr. 30, 1928	13.8	6,320
	June 20, 1928	14.3	6,740
1929	Nov. 30, 1928	9.98	3,760
	Feb. 26, 1929	7.46	2,260
1930	Oct. 2, 1929	14.3	6,740
	Nov. 18, 1929	9.05	3,140
1931	Jan. 6, 1931	a7.5	-
	May 23, 1931	6.80	2,020
1932	Jan. 30, 1932	8.0	2,540
1932	Feb. 4, 1932	18.1	9,780
	Mar. 17, 1932	15.5	7,700
	Mar. 28, 1932	12.2	5,200
	July 6, 1932	8.60	2,900
1933	Mar. 15, 1933	8.7	2,960
	May 16, 1933	10.0	3,760
1934	Dec. 16, 1933	8.70	2,960
	Mar. 3, 1934	11.7	4,870
1935	Jan. 20, 1935	9.7	3,570
	Mar. 12, 1935	10.37	4,020
	May 14, 1935	9.25	3,260
	Aug. 7, 1935	13.67	6,260
1936	Nov. 13, 1935	8.90	3,080
	Jan. 3, 1936	9.87	3,700
	Feb. 5, 1936	7.81	2,530
	Mar. 17, 1936	11.72	5,470
	Mar. 24, 1936	17.72	10,600
	Apr. 6, 1936	9.4	3,700
	July 5, 1936	10.92	4,840
1937	Dec. 7, 1936	8.76	3,250
	Apr. 26, 1937	8.72	3,180
	June 22, 1937	10.00	4,150
	Sept. 5, 1937	8.53	3,040
1938	Oct. 28, 1937	14.68	7,960
	Dec. 18, 1937	8.43	2,960
	May 15, 1938	8.05	2,670
	May 21, 1938	8.69	3,180
1939	Jan. 20, 1939	10.7	4,690
	Feb. 3, 1939	18.5	11,400
	Apr. 16, 1939	14.0	7,360
1940	Feb. 11, 1940	9.8	4,050
	Apr. 17, 1940	8.0	2,750
	May 25, 1940	9.1	3,520
1941	Apr. 5, 1941	7.3	2,260
	May 17, 1941	8.1	2,820
1942	Mar. 9, 1942	9.44	3,750
	Aug. 4, 1942	8.36	3,030
	Aug. 23, 1942	12.00	5,750

a Backwater from ice.

520. Middle Fork River at Audra, W. Va.
(Published as Middle Fork at Audra, W. Va., prior to 1943)

Location.--Lat 39°02'25", long 80°04'10", on right bank at Audra, Barbour County, 600 ft upstream from highway bridge and 2.7 miles upstream from mouth.

Drainage area.--149 sq mi.

Gage.--Recording. Altitude of gage is 1,670 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Middle Fork River at Audra, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942a/	Mar. 9, 1942	7.70	3,660	1951	Dec. 4, 1950	8.89	4,920
	Aug. 3, 1942	7.07	3,080		Feb. 1, 1951	8.84	4,810
	Aug. 24, 1942	10.29	6,540	1952	Jan. 5, 1952	7.27	3,260
1943	Oct. 15, 1942	7.77	3,760		Jan. 27, 1952	8.36	4,370
1944	Feb. 23, 1944	9.90	6,060	1953	Jan. 8, 1953	6.34	2,360
	Apr. 12, 1944	7.56	3,560	1954	Jan. 16, 1954	7.25	3,170
	May 25, 1944	8.68	4,700	1955	Oct. 16, 1954	13.02	9,780
	June 23, 1944	10.17	6,420		Dec. 30, 1954	7.79	3,760
1945	Dec. 26, 1944	9.96	6,180		Feb. 7, 1955	8.46	4,480
	Jan. 1, 1945	8.67	4,700		Mar. 1, 1955	7.21	3,170
	Feb. 28, 1945	8.39	4,370		Mar. 5, 1955	8.14	4,060
	Mar. 3, 1945	7.65	3,560	1956	Jan. 30, 1956	9.03	5,030
1946	Jan. 7, 1946	7.21	3,170		Feb. 2, 1956	8.21	4,160
					Mar. 14, 1956	8.06	4,060
1947	Mar. 14, 1947	7.84	3,760		May 28, 1956	7.68	3,660
	Mar. 25, 1947	8.45	4,370		Aug. 6, 1956	10.24	6,420
	June 8, 1947	9.95	6,180	1957	Jan. 10, 1957	8.05	3,960
1948	Feb. 14, 1948	11.26	7,740		Jan. 29, 1957	11.10	7,500
	Feb. 26, 1948	8.34	4,260		Feb. 2, 1957	7.33	3,260
	Mar. 24, 1948	10.58	6,900		Feb. 10, 1957	10.65	6,900
	Apr. 13, 1948	7.76	3,760	1958	Dec. 8, 1957	7.57	3,560
1949	Dec. 16, 1948	9.76	5,360		May 5, 1958	7.54	3,460
	Jan. 24, 1949	7.18	3,170		July 23, 1958	9.10	5,140
	Jan. 26, 1949	7.38	3,360		Aug. 4, 1958	7.68	3,660
	Feb. 16, 1949	7.95	3,960	1959	Jan. 22, 1959	9.19	5,250
1950	Nov. 29, 1949	7.76	3,760	1960	Nov. 28, 1959	7.63	3,560
	Jan. 31, 1950	8.47	4,480		Jan. 3, 1960	7.34	3,260
	Mar. 12, 1950	7.52	3,460		Mar. 30, 1960	8.60	4,590
	Apr. 23, 1950	7.22	3,170	1961	June 10, 1961	7.78	3,760
	June 4, 1950	7.18	3,170		Aug. 12, 1961	7.99	3,960
	June 25, 1950	10.72	7,020				

a Partial year.

525. Sand Run near Buckhannon, W. Va.

Location.--Lat 38°57'50", long 80°09'10", on right bank 300 ft downstream from Left Fork, 4.5 miles southeast of Buckhannon, Upshur County, and 6 miles upstream from mouth.

Drainage area.--14.5 sq mi.

Gage.--Recording. Altitude of gage is 1,530 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs.

Remarks.--Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 8, 1947	4.94	1,310	1951	Dec. 4, 1950	4.68	733
1948	Feb. 14, 1948	4.54	1,000		Jan. 31, 1951	4.62	697
	Feb. 26, 1948	3.64	471		Apr. 12, 1951	3.98	395
	Mar. 24, 1948	5.28	1,320	1952	Jan. 27, 1952	4.17	508
	Apr. 13, 1948	4.08	566				
	June 8, 1948	4.55	802	1953	June 28, 1953	3.42	331
	June 13, 1948	3.87	479				
	Sept.21, 1948	3.74	430	1954	Jan. 16, 1954	3.08	273
1949	Dec. 16, 1948	4.13	588	1955	Oct. 15, 1954	6.26	2,580
	Jan. 5, 1949	3.64	394		Feb. 7, 1955	4.08	610
	Jan. 24, 1949	3.65	398		Mar. 5, 1955	3.97	556
	Jan. 26, 1949	3.68	408				
	Feb. 15, 1949	4.31	670	1956	Jan. 30, 1956	4.55	608
1950	Nov. 29, 1949	4.53	802		Feb. 2, 1956	3.65	378
	Dec. 13, 1949	3.58	373		Feb. 18, 1956	3.80	415
	Jan. 31, 1950	4.45	748		Mar. 14, 1956	4.85	673
	June 4, 1950	4.49	775		June 1, 1956	3.74	402
	June 25, 1950	6.18	2,000		Aug. 6, 1956	5.27	806

Peak stages and discharges of Sand Run near Buckhannon, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Dec. 14, 1956	3.89	440	1958	Aug. 3, 1958	4.46	582
	Jan. 10, 1957	3.59	365	1959	Jan. 22, 1959	3.79	415
	Jan. 29, 1957	4.66	634	1960	Nov. 28, 1959	4.18	517
	Feb. 1, 1957	3.57	357		Jan. 3, 1960	3.81	415
	Feb. 10, 1957	6.21	1,100		Mar. 28, 1960	3.55	352
1958	May 5, 1958	3.64	378	1961	Mar. 4, 1961	3.56	352
	July 23, 1958	3.92	440		June 9, 1961	4.55	608
	July 29, 1958	4.34	556				

535. Buckhannon River at Hall, W. Va.

Location.--Lat 39°03'05", long 80°06'50", on right bank a quarter of a mile upstream from highway bridge at Hall, Barbour County, and 1 mile upstream from Pecks Run.

Drainage area.--277 sq mi.

Gage.--Nonrecording prior to June 9, 1939; recording thereafter. At site a quarter of a mile downstream at datum 4.12 ft lower June 7, 1907, to May 25, 1909. At site 500 ft downstream at present datum Apr. 15, 1915, to June 8, 1939. Datum of gage is 1,369.15 ft above mean sea level (Baltimore & Ohio Railroad bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907a/	July 18, 1907	13.3	9,150	1922	Dec. 24, 1921	10.23	7,980
1908	Feb. 6, 1908	13.8	9,800	1923	Feb. 2, 1923	9.85	7,600
1909a/	Apr. 15, 1909	9.7	4,830	1924	Dec. 24, 1923	9.55	7,320
1915a/	Apr. 28, 1915	6.05	3,600		Dec. 28, 1923	8.0	5,550
1916	Nov. 16, 1915	7.5	5,060		Jan. 1, 1924	9.0	6,660
	Dec. 18, 1915	8.7	6,330		Jan. 3, 1924	9.0	6,660
	Jan. 2, 1916	7.3	4,860		Feb. 20, 1924	10.2	7,980
	Jan. 12, 1916	11.0	8,860		Mar. 30, 1924	8.6	6,220
	Feb. 13, 1916	8.7	6,330		May 13, 1924	12.50	10,500
	Mar. 8, 1916	7.4	4,960		Sept.30, 1924	7.5	5,060
	Mar. 23, 1916	7.4	4,960	1925	Mar. 19, 1925	7.10	4,670
1917	Dec. 29, 1916	7.2	4,770	1926	Oct. 26, 1925	8.1	5,660
	Jan. 22, 1917	9.9	7,650		Jan. 22, 1926	8.40	6,000
	Mar. 9, 1917	10.0	7,760		Feb. 15, 1926	7.85	5,350
	Mar. 12, 1917	11.7	9,630	1927	Dec. 22, 1926	9.00	6,660
	May 29, 1917	8.8	6,440		Jan. 21, 1927	7.8	5,350
1918	Jan. 29, 1918	9.5	7,210		Jan. 24, 1927	7.8	5,350
	Feb. 26, 1918	8.7	6,330		Feb. 20, 1927	8.0	5,550
	Mar. 14, 1918	14.7	12,200		May 1, 1927	7.5	5,060
	May 26, 1918	10.0	7,760		Aug. 1, 1927	7.0	4,570
1919	Dec. 11, 1918	7.00	4,570		Aug. 10, 1927	7.7	5,260
	Jan. 2, 1919	12.20	10,200	1928	Dec. 14, 1927	7.0	4,570
	July 16, 1919	10.1	7,870		Apr. 12, 1928	7.2	4,770
1920	Oct. 15, 1919	7.2	4,770		Apr. 30, 1928	9.4	7,100
	Nov. 2, 1919	8.8	6,440		June 20, 1928	7.4	4,960
	Dec. 8, 1919	8.0	5,550	1929	Dec. 1, 1928	8.55	6,220
	Dec. 14, 1919	7.7	5,260		Feb. 27, 1929	8.4	6,000
	Jan. 10, 1920	7.1	4,670		Mar. 6, 1929	7.1	4,670
	Jan. 23, 1920	10.70	8,530	1930	Oct. 3, 1929	12.45	10,400
	Mar. 20, 1920	8.0	5,550		Nov. 18, 1929	8.0	5,550
	Apr. 21, 1920	7.8	5,350	1931	Aug. 22, 1931	5.55	3,220
	July 25, 1920	7.2	4,770	1932	Jan. 30, 1932	8.0	5,550
1921	Mar. 3, 1921	6.00	3,600		Feb. 5, 1932	11.70	9,630
1922	Nov. 29, 1921	7.7	5,260				

a Partial year.

Peak stages and discharges of Buckhannon River at Hall, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 18, 1932	10.60	8,420
	Mar. 28, 1932	8.95	6,660
1933	Mar. 15, 1933	8.2	5,770
	Mar. 19, 1933	7.7	5,260
	May 11, 1933	9.8	7,540
	May 17, 1933	7.8	5,350
1934	Dec. 17, 1933	8.0	5,550
	Mar. 4, 1934	9.8	7,540
1935	Jan. 21, 1935	8.0	5,150
	Mar. 12, 1935	10.00	7,170
	Aug. 8, 1935	10.45	7,590
1936	Jan. 3, 1936	9.30	6,460
	Feb. 5, 1936	8.0	5,150
	Feb. 15, 1936	8.40	5,550
	Mar. 18, 1936	10.3	7,480
	Mar. 25, 1936	12.4	9,690
	Apr. 7, 1936	8.5	5,650
1937	Dec. 8, 1936	7.6	4,760
	Jan. 23, 1937	7.80	4,950
	Apr. 26, 1937	9.0	6,150
	June 22, 1937	9.92	7,070
1938	Oct. 29, 1937	14.70	12,200
	Dec. 18, 1937	8.6	5,750
	May 21, 1938	8.0	5,150
1939	Jan. 31, 1939	9.1	6,250
	Feb. 4, 1939	12.4	9,690
	Apr. 16, 1939	12.92	10,200
1940	Apr. 20, 1940	9.24	4,900
	May 25, 1940	9.30	5,060
1941	Aug. 27, 1941	8.96	4,490
1942	Aug. 24, 1942	10.48	6,920
1943	Oct. 15, 1942	9.18	4,750
	Dec. 23, 1942	9.44	5,070
	Mar. 20, 1943	9.56	5,250
	July 30, 1943	10.24	6,150
1944	Feb. 23, 1944	10.72	6,780
	Apr. 13, 1944	9.29	4,820
	June 24, 1944	9.91	5,660
1945	Dec. 26, 1944	11.77	8,320
	Jan. 1, 1945	10.57	6,640
	Mar. 1, 1945	9.76	5,520
	Mar. 3, 1945	9.68	5,380
1946	Jan. 8, 1946	8.57	3,850
1947	June 9, 1947	10.50	6,500
1948	Feb. 14, 1948	13.19	10,300
	Feb. 27, 1948	9.59	5,240
	Mar. 24, 1948	10.41	6,360
	Apr. 14, 1948	9.78	5,520
	July 23, 1948	9.87	5,660
1949	Dec. 16, 1948	11.42	8,100
	Jan. 27, 1949	9.55	5,400
	Feb. 16, 1949	9.37	5,100
1950	Nov. 29, 1949	9.05	4,530
	Feb. 1, 1950	11.40	8,100
	Mar. 13, 1950	9.81	5,700
	June 4, 1950	9.41	5,100
	June 25, 1950	13.02	10,500
1951	Dec. 4, 1950	11.19	7,800
	Feb. 1, 1951	11.19	7,800
1952	Jan. 28, 1952	10.95	7,500
1953	Jan. 9, 1953	8.57	3,970
1954	Jan. 17, 1954	8.94	4,390
1955	Oct. 16, 1954	11.80	8,700
	Dec. 30, 1954	9.31	4,950
	Feb. 7, 1955	10.77	7,200
	Mar. 6, 1955	10.17	6,300
1956	Jan. 30, 1956	11.21	7,800
	Feb. 3, 1956	9.77	5,700
	Mar. 15, 1956	9.52	5,250
	May 29, 1956	9.90	5,850
	June 2, 1956	9.35	5,100
	Aug. 6, 1956	11.59	8,400
1957	Dec. 14, 1956	9.55	5,300
	Jan. 11, 1957	9.28	4,880
	Jan. 30, 1957	11.78	8,380
	Feb. 2, 1957	9.13	4,600
	Feb. 10, 1957	11.82	8,380
1958	Dec. 8, 1957	9.79	5,580
	July 24, 1958	10.70	6,840
	Aug. 4, 1958	9.12	4,600
	Aug. 9, 1958	9.41	5,020
1959	Jan. 22, 1959	9.89	5,720
1960	Nov. 28, 1959	9.23	4,740
	Mar. 31, 1960	9.17	4,740
1961	June 10, 1961	9.91	5,720
	Aug. 13, 1961	9.07	4,600

545. Tygart Valley River at Philippi, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 39°09'00", long 80°02'25", on right bank at Philippi, Barbour County, 0.2 mile downstream from Anglins Run and 5 miles downstream from Buckhannon River.

Drainage area.--916 sq mi.

Gage.--Nonrecording prior to May 23, 1940; recording thereafter. Datum of gage is 1,280.55 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs.

Historical data.--Maximum stage known, 27.3 ft July 25, 1912, read on U.S. Weather Bureau gage a quarter of a mile downstream, or about 26 ft, present site and datum (discharge, about 37,000 cfs).

Remarks.--Base for partial-duration series, 12,000 cfs. Gage-height records collected in this vicinity since 1918 are contained in reports of U.S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940a/	Apr. 18, 1940	14.00	15,700	1951	Feb. 1, 1951	17.73	21,900
	Apr. 20, 1940	12.60	13,600		Mar. 8, 1951	12.27	12,600
	May 25, 1940	12.72	13,800		Apr. 13, 1951	12.12	12,300
					June 10, 1951	12.00	12,100
1941	Aug. 27, 1941	12.09	12,200				
				1952	Jan. 5, 1952	13.47	14,600
1942	Mar. 9, 1942	12.83	13,800		Jan. 28, 1952	17.80	22,000
	Aug. 10, 1942	12.44	13,100				
	Aug. 24, 1942	16.35	20,700	1953	Jan. 9, 1953	12.52	13,000
1943	Dec. 23, 1942	13.38	15,000	1954	Jan. 16, 1954	13.37	14,500
	Dec. 30, 1942	12.02	12,400				
	Jan. 19, 1943	11.81	12,100	1955	Oct. 16, 1954	24.10	33,600
	Mar. 14, 1943	12.22	12,800		Dec. 30, 1954	15.38	17,900
	Mar. 20, 1943	13.25	14,600		Feb. 7, 1955	17.99	22,400
	July 30, 1943	12.83	13,700		Mar. 1, 1955	12.99	13,800
					Mar. 6, 1955	16.85	20,300
1944	Feb. 23, 1944	17.53	22,100				
	Apr. 13, 1944	14.05	16,000	1956	Jan. 30, 1956	19.05	24,200
	June 24, 1944	13.65	15,200		Feb. 3, 1956	16.36	19,600
					Feb. 19, 1956	12.23	12,400
1945	Dec. 26, 1944	19.60	25,800		Mar. 9, 1956	11.97	12,100
	Dec. 28, 1944	15.12	17,900		Mar. 14, 1956	15.30	17,700
	Jan. 1, 1945	16.66	20,700		May 29, 1956	15.11	17,400
	Feb. 28, 1945	15.32	18,200		June 2, 1956	13.32	14,300
	Mar. 3, 1945	14.83	17,400		Aug. 6, 1956	18.05	22,400
1946	Jan. 8, 1946	12.05	12,400	1957	Dec. 14, 1956	13.67	15,000
					Jan. 10, 1957	14.92	17,000
1947	Mar. 15, 1947	13.48	15,100		Jan. 23, 1957	12.91	13,600
	Mar. 25, 1947	13.84	15,600		Jan. 29, 1957	19.50	25,100
	June 9, 1947	17.55	21,600		Feb. 2, 1957	13.59	14,800
					Feb. 10, 1957	21.30	28,300
1948	Feb. 14, 1948	22.72	30,900				
	Feb. 27, 1948	14.14	15,800	1958	Dec. 8, 1957	15.42	17,900
	Mar. 24, 1948	19.58	25,300		Dec. 27, 1957	12.56	13,100
	Apr. 15, 1948	15.51	18,000		May 6, 1958	14.48	16,400
	May 3, 1948	12.53	13,000		May 8, 1958	13.14	14,000
	July 23, 1948	12.34	12,600		July 23, 1958	16.75	20,300
					July 29, 1958	12.03	12,100
1949	Dec. 16, 1948	19.82	25,600		Aug. 4, 1958	14.09	15,700
	Jan. 25, 1949	13.08	14,000		Aug. 9, 1958	13.91	15,300
	Jan. 27, 1949	14.87	17,000				
	Feb. 16, 1949	13.32	14,300	1959	Jan. 22, 1959	16.64	19,900
1950	Nov. 29, 1949	14.46	16,400	1960	Nov. 28, 1959	13.32	14,300
	Dec. 13, 1949	12.13	12,300		Dec. 13, 1959	13.68	15,000
	Feb. 1, 1950	18.39	23,100		Jan. 4, 1960	12.77	13,500
	Mar. 13, 1950	15.09	17,400		Jan. 15, 1960	13.14	14,000
	Apr. 24, 1950	12.21	12,400		Mar. 31, 1960	17.03	20,600
	June 4, 1950	12.65	13,100		Apr. 5, 1960	12.90	13,600
	June 25, 1950	19.70	25,500				
				1961	Feb. 15, 1961	12.88	13,600
1951	Dec. 4, 1950	18.18	22,800		June 10, 1961	14.61	16,500

a Partial year.

560. Tygart Valley River at Tygart Dam, near Grafton, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 39°18'50", long 80°02'00", at Tygart Dam, 2.2 miles upstream from Threefork Creek and 2.4 miles upstream from Grafton, Taylor County.

Drainage area.--1,184 sq mi.

Gage.--Recording.

Remarks.--Records furnished by Corps of Engineers. Discharge computed from records of flow through gates and valves in Tygart Dam. Only annual peaks are shown. Flow completely regulated by Tygart Lake.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 2, 1939	-	20,000	1951	Feb. 5, 1951	-	17,700
1940	Apr. 22, 1940	-	12,100	1952	Jan. 30, 1952	-	a16,600
				1953	Jan. 13, 1953	-	11,400
1941	Apr. 7, 1941	-	8,680	1954	Mar. 16, 1954	-	11,500
1942	Aug. 29, 1942	-	12,400	1955	Mar. 10, 1955	-	17,200
	Sept.29, 1942	-	12,400				
1943	Oct. 30, 1942	-	14,000	1956	Feb. 10, 1956	-	18,300
1944	Mar. 23, 1944	-	11,500	1957	Feb. 14, 1957	-	17,300
1945	Mar. 5, 1945	-	19,700	1958	May 9, 1958	-	17,300
				1959	Jan. 25, 1959	-	12,000
1946	Jan. 10, 1946	-	12,700	1960	Apr. 8, 1960	-	18,200
1947	Mar. 18, 1947	-	10,500				
1948	Feb. 17, 1948	-	16,800	1961	Mar. 4, 1961	-	18,100
1949	Jan. 30, 1949	-	17,100				
1950	Feb. 5, 1950	-	17,300				

a Maximum daily discharge.

565. Tygart Valley River at Fetterman, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 39°21'00", long 80°02'30", at old highway bridge at Fetterman, Taylor County, three-quarters of a mile upstream from Otter Creek and 4 miles downstream from Tygart Dam.

Drainage area.--1,304 sq mi.

Gage.--Nonrecording prior to Oct. 15, 1932; recording thereafter. Datum of gage is 957.86 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 36,000 cfs and extended on basis of an average of a logarithmic extension, extension of velocity curve, and a slope-area measurement at 54,700 cfs.

Remarks.--Base for partial-duration series, 19,000 cfs. Flow completely regulated by Tygart Lake since May 1938.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Jan. 13, 1908	14.8	21,300	1912	Mar. 16, 1912	16.0	24,500
	Feb. 16, 1908	15.6	23,300		May 17, 1912	14.0	19,300
	Mar. 2, 1908	14.1	19,500		July 23, 1912	15.0	21,800
	May 5, 1908	14.9	21,500		July 25, 1912	29.1	74,300
	May 8, 1908	14.7	21,000				
	May 10, 1908	14.0	19,300	1913	Jan. 8, 1913	15.0	21,800
					Mar. 27, 1913	14.2	19,800
1909	Apr. 15, 1909	13.3	18,000		May 24, 1913	14.85	21,300
					May 28, 1913	15.3	22,600
1910	Jan. 3, 1910	16.6	25,700				
	Jan. 7, 1910	13.9	19,100	1914	Nov. 16, 1913	22.1	44,100
	Jan. 19, 1910	14.20	19,800		Feb. 19, 1914	16.1	24,800
	June 17, 1910	15.2	22,300				
	June 19, 1910	15.0	21,800	1915	Dec. 21, 1914	17.0	27,300
					Feb. 3, 1915	15.10	22,100
1911	Jan. 14, 1911	16.0	24,500				
	Jan. 30, 1911	21.5	41,800	1916	Dec. 18, 1915	17.15	27,900
	Sept.16, 1911	17.4	28,400		Dec. 29, 1915	14.4	20,300
					Jan. 2, 1916	14.40	20,300
1912	Oct. 8, 1911	15.10	22,100		Jan. 12, 1916	20.20	35,600
	Feb. 27, 1912	15.0	21,800		Feb. 13, 1916	18.0	30,200

Peak stages and discharges of Tygart Valley River at Fetterman, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 8, 1916	14.0	19,300	1927	Feb. 19, 1927	15.0	21,800
	Mar. 23, 1916	14.55	20,800		May 1, 1927	16.0	24,500
					May 19, 1927	14.09	19,500
1917	Jan. 22, 1917	21.10	37,800		Aug. 1, 1927	14.95	21,800
	May 9, 1917	16.60	26,200				
	Mar. 12, 1917	19.90	36,200	1928	Dec. 14, 1927	14.22	19,800
	May 28, 1917	16.70	26,500		May 1, 1928	19.15	32,600
					June 20, 1928	15.18	22,300
1918	Jan. 28, 1918	19.40	34,500				
	Feb. 26, 1918	16.50	25,900	1929	Dec. 1, 1928	15.54	23,400
	Mar. 13, 1918	24.10	51,900		Feb. 27, 1929	15.52	23,100
	May 26, 1918	14.00	19,300		Mar. 7, 1929	14.22	19,800
1919	Jan. 2, 1919	22.72	46,400	1930	Oct. 3, 1929	21.68	42,600
	July 17, 1919	14.6	20,800		Nov. 18, 1929	16.30	25,300
1920	Nov. 2, 1919	15.38	22,800	1931	May 23, 1931	12.12	15,500
	Dec. 7, 1919	15.40	22,800				
	Dec. 14, 1919	14.20	19,800	1932	Jan. 30, 1932	15.33	22,600
	Jan. 10, 1920	15.0	21,800		Feb. 4, 1932	22.6	46,000
	Jan. 23, 1920	18.0	30,200		Mar. 18, 1932	19.30	34,200
	Mar. 20, 1920	15.50	23,100		Mar. 28, 1932	17.72	29,300
	Apr. 21, 1920	15.0	21,800				
				1933	Mar. 15, 1933	16.10	24,800
1921	May 30, 1921	17.10	27,400		Mar. 19, 1933	15.18	22,300
					May 12, 1933	16.60	25,300
1922	Nov. 29, 1921	15.30	22,600		May 17, 1933	14.22	19,800
	Dec. 24, 1921	20.40	35,600				
	Jan. 20, 1922	14.00	19,300	1934	Dec. 17, 1933	16.10	24,800
	Mar. 15, 1922	15.30	22,600		Jan. 7, 1934	14.52	20,500
					Mar. 4, 1934	17.18	26,700
1923	Feb. 2, 1923	17.00	27,100				
				1935	Jan. 21, 1935	15.39	22,800
1924	Dec. 24, 1923	16.0	24,500		Mar. 12, 1935	19.20	31,300
	Dec. 29, 1923	15.7	23,700		May 7, 1935	14.85	21,300
	Jan. 1, 1924	16.5	25,900		Aug. 8, 1935	15.50	23,100
	Jan. 3, 1924	17.80	29,600				
	Feb. 20, 1924	20.33	37,600	1936	Dec. 9, 1935	18.72	32,300
	Mar. 29, 1924	18.5	31,700		Jan. 3, 1936	16.98	27,300
	May 12, 1924	22.60	46,000		Feb. 15, 1936	16.18	25,100
					Mar. 18, 1936	21.33	41,100
1925	Mar. 20, 1925	13.0	17,500		Mar. 24, 1936	24.85	54,700
					Apr. 6, 1936	16.66	26,500
1926	Oct. 17, 1925	14.70	21,000		July 5, 1936	15.28	22,600
	Oct. 25, 1925	15.0	21,800				
	Jan. 19, 1926	14.0	19,300	1937	Jan. 23, 1937	16.67	26,500
	Jan. 22, 1926	17.0	27,300		Feb. 9, 1937	14.23	19,800
	Feb. 15, 1926	16.6	26,100		Apr. 26, 1937	17.56	29,000
	Aug. 18, 1926	14.32	20,000				
				1938	Oct. 30, 1937	16.86	27,000
1927	Dec. 22, 1926	15.95	24,500		Dec. 20, 1937	15.95	24,500
	Jan. 21, 1927	16.31	25,300		May 22, 1938	15.07	22,100
	Jan. 24, 1927	14.21	19,800				
	Feb. 7, 1927	16.39	25,600	1939	Feb. 1, 1939	14.73	a21,000

a Annual peak.

570. Tygart Valley River at Colfax, W. Va.
(Published as "Tygart River" prior to 1961)

Location.--Lat 39°26'15", long 80°07'55", on right bank at highway bridge at Colfax, Marion County, 300 ft upstream from Guyses Run and 6 miles upstream from confluence with West Fork River. Records include flow of Guyses Run.

Drainage area.--1,366 sq mi, including that of Guyses Run.

Gage.--Recording. Datum of gage is 855.49 ft above mean sea level (Baltimore & Ohio Railroad datum).

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs.

Remarks.--Only annual peaks are shown. Flow partly regulated by Tygart Lake.

Peak stages and discharges of Tygart Valley River at Colfax, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939a/	June 23, 1939	9.03	6,570	1951	Feb. 5, 1951	14.34	18,600
1940	Apr. 18, 1940	b16.56	14,400	1952	Jan. 30, 1952	14.42	18,700
				1953	Jan. 13, 1953	11.77	12,100
1941	June 4, 1941	12.47	13,900	1954	Mar. 16, 1954	11.84	12,100
1942	Aug. 29, 1942	12.03	12,600	1955	Oct. 16, 1954	c14.52	15,700
1943	Dec. 30, 1942	13.43	16,200				
1944	Mar. 23, 1944	12.59	14,200	1956	Feb. 11, 1956	d14.58	17,900
1945	Jan. 1, 1945	15.52	22,000	1957	Feb. 14, 1957	e15.44	16,900
				1958	May 9, 1958	14.64	17,400
1946	Jan. 11, 1946	12.38	13,600	1959	Jan. 25, 1959	11.84	11,800
1947	Mar. 18, 1947	11.08	10,500	1960	Apr. 8, 1960	14.62	18,100
1948	Feb. 14, 1948	c16.95	22,500				
1949	Jan. 30, 1949	14.07	17,900	1961	Mar. 3, 1961	14.78	19,400
1950	Feb. 9, 1950	c15.20	19,800				

a Partial year. b Occurred Feb. 8, 1940; backwater from ice. c Occurred at different time on same day. d Occurred Feb. 8, 1956. e Occurred Dec. 14, 1956.

575. Skin Creek near Brownsville, W. Va.
(Published as "near Weston" prior to 1949)

Location.--Lat 38°58'30", long 80°26'40", on right bank 0.6 mile upstream from Glady Fork, 2.6 miles southeast of Brownsville, Lewis County, 3.0 miles upstream from mouth, and 4.7 miles southeast of Weston.

Drainage area.--25.7 sq mi.

Gage.--Nonrecording prior to Feb. 5, 1946; recording thereafter. Altitude of gage is 1,030 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of slope-area measurements at 1,400 cfs and 2,100 cfs.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 19, 1946	4.35	762	1952	Dec. 15, 1951	4.80	1,000
					Dec. 21, 1951	4.84	1,000
1947	June 8, 1947	5.61	1,350		Jan. 5, 1952	4.46	860
					Jan. 28, 1952	5.36	1,240
1948	Feb. 14, 1948	5.84	1,400				
	Feb. 26, 1948	4.41	842	1953	Jan. 8, 1953	4.09	720
	Mar. 24, 1948	5.06	1,140		May 22, 1953	4.35	765
	Apr. 13, 1948	5.89	1,370				
	June 13, 1948	5.49	1,100	1954	Mar. 1, 1954	4.22	760
	July 22, 1948	6.07	1,290				
	Aug. 5, 1948	4.59	826	1955	Oct. 15, 1954	7.81	2,000
	Sept.21, 1948	5.06	981		Dec. 30, 1954	5.47	1,280
					Feb. 6, 1955	5.28	1,200
1949	Dec. 15, 1948	6.00	1,480		Mar. 1, 1955	4.54	880
	Jan. 24, 1949	5.21	1,210		Mar. 5, 1955	5.52	1,280
	Jan. 26, 1949	4.57	902				
	Feb. 15, 1949	4.87	1,040	1956	Jan. 30, 1956	4.92	1,040
	Aug. 15, 1949	5.05	950		Feb. 3, 1956	4.64	920
	Aug. 18, 1949	5.20	1,010		Feb. 25, 1956	4.24	780
					Mar. 8, 1956	5.07	1,120
1950	Nov. 29, 1949	5.93	1,440		Mar. 14, 1956	5.89	1,440
	Dec. 13, 1949	4.94	1,080		Mar. 29, 1956	4.34	820
	Dec. 27, 1949	4.39	842		May 28, 1956	4.27	732
	Jan. 7, 1950	4.48	880		June 1, 1956	5.30	1,040
	Jan. 31, 1950	6.10	1,520		Aug. 6, 1956	6.26	1,360
	Mar. 13, 1950	4.08	728				
	June 4, 1950	6.57	1,450	1957	Dec. 14, 1956	6.15	1,560
	June 11, 1950	4.63	826		Dec. 24, 1956	4.22	760
	June 25, 1950	8.64	2,110		Jan. 10, 1957	4.38	840
					Jan. 23, 1957	4.21	760
1951	Nov. 4, 1950	5.19	1,110		Jan. 29, 1957	4.92	1,040
	Dec. 4, 1950	5.49	1,280		Feb. 1, 1957	4.41	840
	Jan. 14, 1951	4.21	766		Feb. 10, 1957	7.90	2,280
	Feb. 1, 1951	6.04	1,480		Apr. 22, 1957	4.24	756
	Mar. 7, 1951	4.58	920				
	Mar. 30, 1951	5.08	1,120	1958	Dec. 26, 1957	5.34	1,060
	Apr. 26, 1951	4.15	728		Feb. 27, 1958	4.93	934

Peak stages and discharges of Skin Creek near Brownsville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 5, 1958	4.53	717	1960	Nov. 28, 1959	5.46	1,080
	July 23, 1958	4.65	709		Jan. 3, 1960	5.18	1,030
	July 29, 1958	4.88	790		Jan. 13, 1960	4.99	952
	Aug. 3, 1958	5.12	845		Jan. 15, 1960	4.49	770
	Aug. 8, 1958	5.39	931		Feb. 26, 1960	4.40	734
					Apr. 3, 1960	4.85	852
1959	Jan. 20, 1959	4.78	878		Sept.12, 1960	6.99	1,480

580. West Fork River at Brownsville, W. Va.

Location.--Lat 39°00'10", long 80°28'35", on right bank at downstream side of highway bridge at Brownsville, Lewis County, 0.4 mile downstream from Skin Creek and 2.5 miles south of Weston.

Drainage area.--102 sq mi.

Gage.--Nonrecording and crest-stage gage prior to Aug. 15, 1949; recording thereafter. Datum of gage is 1,010.85 ft above mean sea level, unadjusted (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs and extended above on basis of a slope-area measurement and a contracted-opening measurement at 4,800 cfs.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 8, 1947	10.50	2,850	1954	July 22, 1954	10.42	2,360
1948	Feb. 14, 1948	14.01	4,540	1955	Oct. 15, 1954	14.23	4,640
	Mar. 24, 1948	10.65	2,850		Dec. 30, 1954	11.59	3,080
	Apr. 13, 1948	13.15	4,120		Feb. 7, 1955	11.60	3,080
	June 13, 1948	10.15	2,660		Mar. 5, 1955	11.34	2,900
	July 22, 1948	13.11	4,070	1956	Jan. 30, 1956	12.00	3,320
1949	Dec. 15, 1948	13.22	4,120		Feb. 18, 1956	10.82	2,600
	Jan. 24, 1949	11.03	3,040		Mar. 14, 1956	11.94	3,260
	Feb. 16, 1949	9.70	2,440		May 29, 1956	11.15	2,840
	Aug. 16, 1949	10.13	2,620		June 1, 1956	10.97	2,720
					Aug. 7, 1956	10.57	2,480
1950	Nov. 29, 1949	11.26	3,180				
	Dec. 13, 1949	10.24	2,660	1957	Dec. 14, 1956	13.40	4,160
	Jan. 31, 1950	12.81	3,920		Jan. 29, 1957	10.63	2,480
	June 4, 1950	12.32	3,670		Feb. 10, 1957	15.15	5,240
	June 25, 1950	17.20	6,420				
				1958	Dec. 26, 1957	10.26	2,300
1951	Nov. 4, 1950	9.30	2,260				
	Dec. 4, 1950	12.61	3,820	1959	May 14, 1959	9.71	1,980
	Feb. 1, 1951	13.36	4,230				
	Mar. 7, 1951	10.08	2,620	1960	Sept.12, 1960	11.27	2,900
1952	Jan. 28, 1952	12.12	3,570	1961	Mar. 5, 1961	10.82	2,600
1953	Jan. 8, 1953	8.31	1,800				

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585. West Fork River at Butcherville, W. Va.

Location.--Lat 39°05'25", long 80°28'05", on right bank at Butcherville, Lewis County, 0.5 mile upstream from Freemans Creek, 3,500 ft downstream from bridge on Weston-Clarksburg interurban electric railway, and 3 miles north of Weston.

Drainage area.--181 sq mi.

Gage.--Nonrecording prior to Apr. 7, 1939; recording thereafter. At site 3,500 ft upstream at interurban bridge prior to Feb. 17, 1937. At site 2,500 ft upstream Feb. 17, 1937, to Apr. 6, 1939. At datum 10.00 ft lower prior to Oct. 1, 1942. Datum of gage is 993.0 ft above mean sea level (State Road Commission bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs and extended above on basis of slope-area measurements at 18,000 cfs.

Remarks.--Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Oct. 1, 1915	18.90	6,040	1925a/	Mar. 19, 1925	15.53	4,020
	Dec. 18, 1915	17.19	5,020		May 11, 1925	14.92	3,860
	Dec. 29, 1915	16.03	4,400	1926	Oct. 17, 1925	16.0	4,400
	Jan. 12, 1916	22.35	8,520		Oct. 25, 1925	19.18	6,220
	Feb. 13, 1916	20.0	6,700		Nov. 8, 1925	15.16	4,000
	Feb. 25, 1916	16.9	4,850		Jan. 22, 1926	17.28	5,080
	Mar. 22, 1916	16.0	4,400		Feb. 14, 1926	17.0	4,900
1917	Dec. 28, 1916	18.08	5,560		July 7, 1926	17.28	5,080
	Jan. 22, 1917	22.9	8,920	1927	Nov. 16, 1926	22.87	8,920
	Mar. 8, 1917	17.95	5,500		Dec. 21, 1926	15.82	4,300
	Mar. 12, 1917	20.01	6,700		Dec. 26, 1926	14.88	4,350
	May 28, 1917	18.0	5,500		Jan. 21, 1927	16.76	4,800
1918	Jan. 28, 1918	20.0	6,700		Feb. 19, 1927	17.56	5,260
	Feb. 20, 1918	15.98	4,400		Apr. 30, 1927	16.50	4,650
	Feb. 26, 1918	17.81	5,380		Aug. 1, 1927	15.18	4,000
	Mar. 13, 1918	25.0	10,700				
	May 26, 1918	21.0	7,400	1928	Apr. 30, 1928	17.52	4,860
1919	Jan. 2, 1919	24.0	9,800	1929	Dec. 15, 1928	15.08	3,950
	June 26, 1919	18.37	5,740		Feb. 26, 1929	18.00	5,070
1920	Oct. 15, 1919	15.0	3,900	1930	Oct. 3, 1929	20.80	7,260
	Nov. 2, 1919	17.18	5,020		Nov. 3, 1929	16.40	4,600
	Nov. 26, 1919	14.72	3,760		Nov. 18, 1929	17.44	5,140
	Dec. 7, 1919	19.11	6,160				
	Dec. 14, 1919	16.15	4,500	1931	Apr. 1, 1931	11.40	2,300
	Jan. 23, 1920	19.0	6,100				
	Mar. 19, 1920	16.64	4,700	1932	Jan. 30, 1932	19.6	6,460
	Apr. 21, 1920	17.11	4,960		Feb. 4, 1932	20.8	7,260
	July 25, 1920	17.0	4,900		Mar. 17, 1932	20.0	6,700
					Mar. 28, 1932	19.0	6,100
1921	Aug. 3, 1921	13.98	3,450				
				1933	Mar. 15, 1933	16.05	4,400
1922	Nov. 1, 1921	16.99	4,900		Mar. 19, 1933	15.95	4,400
	Nov. 17, 1921	14.62	3,720		May 11, 1933	19.80	6,580
	Nov. 25, 1921	14.63	3,720		May 28, 1933	15.5	4,150
	Nov. 29, 1921	17.5	5,200				
	Dec. 24, 1921	21.22	7,560	1934	Dec. 17, 1933	15.85	4,300
	Mar. 15, 1922	19.0	6,100		Jan. 7, 1934	18.58	5,860
	June 12, 1922	14.41	3,630		Mar. 3, 1934	17.60	5,260
	June 18, 1922	17.35	5,140				
				1935	Jan. 21, 1935	18.56	4,010
1923	Dec. 17, 1922	17.42	5,140		Mar. 12, 1935	21.0	6,290
	Jan. 1, 1923	15.0	3,900		May 7, 1935	20.70	6,000
	Feb. 1, 1923	15.78	4,300		May 15, 1935	20.0	5,320
	Feb. 12, 1923	17.0	4,900		Aug. 7, 1935	20.64	5,900
	Apr. 14, 1923	15.48	4,150				
				1936	Jan. 3, 1936	20.50	5,800
1924	Dec. 23, 1923	15.87	4,350		Feb. 15, 1936	19.80	5,130
	Dec. 31, 1923	18.01	5,500		Mar. 17, 1936	22.1	7,360
	Jan. 3, 1924	18.84	5,980		Mar. 24, 1936	21.1	6,390
	Feb. 20, 1924	22.0	8,200		Apr. 6, 1936	21.04	6,290
	Mar. 29, 1924	16.25	4,500				
	May 12, 1924	22.66	8,760	1937	Nov. 5, 1936	19.2	4,560
	Sept.30, 1924	17.0	4,900		Dec. 7, 1936	19.2	4,560
					Jan. 10, 1937	18.2	3,650
1925a/	Jan. 20, 1925	15.25	4,000		Jan. 18, 1937	19.0	4,370

a Partial year.

Peak stages and discharges of West Fork River at Butcherville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 20, 1937	18.6	4,010	1949	Feb. 16, 1949	7.11	3,880
	Jan. 23, 1937	22.5	7,740		Aug. 16, 1949	7.08	3,880
	Feb. 8, 1937	22.2	7,450				
	Apr. 26, 1937	18.8	4,190	1950	Nov. 29, 1949	8.74	5,100
	June 22, 1937	21.4	6,680		Dec. 13, 1949	8.05	4,400
					Jan. 31, 1950	9.62	6,000
1938	Oct. 28, 1937	21.90	8,390		June 4, 1950	9.18	5,600
	Dec. 18, 1937	18.10	4,250		June 25, 1950	16.81	18,000
	May 20, 1938	19.18	5,420				
	June 17, 1938	19.20	5,420	1951	Nov. 4, 1950	7.55	4,040
					Dec. 4, 1950	10.00	6,400
1939	Feb. 3, 1939	21.8	7,650		Feb. 1, 1951	11.11	7,630
	Feb. 11, 1939	18.0	4,000		Mar. 7, 1951	7.28	3,770
	Mar. 5, 1939	18.40	4,360				
	Mar. 13, 1939	18.7	4,630	1952	Dec. 15, 1951	7.28	3,770
	Apr. 17, 1939	21.4	9,020		Dec. 21, 1951	7.20	3,680
					Jan. 28, 1952	8.84	5,200
1940	Mar. 31, 1940	18.72	5,660				
	Apr. 20, 1940	18.15	5,090	1953	Jan. 8, 1953	6.84	3,320
	May 31, 1940	19.17	6,260				
				1954	July 21, 1954	6.60	3,070
1941	Apr. 5, 1941	17.06	3,880				
	Aug. 27, 1941	17.87	4,760	1955	Oct. 16, 1954	10.97	7,500
					Dec. 30, 1954	8.73	5,100
1942	Aug. 24, 1942	16.54	3,270		Feb. 7, 1955	9.02	5,400
					Mar. 5, 1955	8.21	4,600
1943	Dec. 23, 1942	7.20	3,990				
	Dec. 28, 1942	8.00	4,870	1956	Jan. 30, 1956	9.24	5,600
	Feb. 1, 1943	7.02	3,770		Feb. 2, 1956	7.68	4,130
	Mar. 20, 1943	8.25	5,090		Feb. 18, 1956	8.58	5,000
					Mar. 8, 1956	7.49	3,950
1944	Feb. 23, 1944	9.71	6,860		Mar. 14, 1956	9.13	5,500
					May 28, 1956	7.26	3,770
1945	Oct. 21, 1944	9.07	6,140		June 1, 1956	7.87	4,310
	Dec. 26, 1944	10.54	7,820		Aug. 6, 1956	8.34	4,700
	Jan. 1, 1945	8.69	5,660				
	Feb. 27, 1945	8.46	5,420	1957	Dec. 14, 1956	11.58	8,280
	Mar. 3, 1945	7.45	4,210		Dec. 24, 1956	7.22	3,680
	Mar. 6, 1945	8.15	5,090		Jan. 29, 1957	7.61	4,040
	May 10, 1945	7.00	3,770		Feb. 10, 1957	12.95	10,400
	Aug. 24, 1945	7.43	4,210				
	Sept.18, 1945	8.31	5,200	1958	Dec. 26, 1957	8.00	4,400
					Feb. 27, 1958	7.32	3,770
1946	Feb. 14, 1946	7.08	3,880		July 23, 1958	9.54	5,900
					July 29, 1958	7.59	4,040
1947	June 8, 1947	8.12	4,980		Aug. 8, 1958	8.75	5,200
1948	Feb. 14, 1948	11.51	9,120	1959	Jan. 20, 1959	7.37	3,860
	Feb. 26, 1948	7.31	4,100		May 14, 1959	7.16	3,680
	Mar. 24, 1948	8.30	5,200				
	Apr. 13, 1948	9.45	6,500	1960	Nov. 28, 1959	7.16	3,680
	June 13, 1948	7.18	3,770		Jan. 3, 1960	7.30	3,770
	July 22, 1948	7.97	4,760		Jan. 15, 1960	7.23	3,680
	Sept.22, 1948	7.66	4,430		Sept.12, 1960	7.87	4,310
1949	Dec. 16, 1948	11.27	8,860	1961	Feb. 14, 1961	7.34	3,770
	Jan. 24, 1949	7.75	4,650		Mar. 5, 1961	8.18	4,600
	Jan. 26, 1949	7.86	4,760		June 9, 1961	7.23	3,680

590. West Fork River at Clarksburg, W. Va.

Location.--Lat 39°16'05", long 80°21'25", on right bank at Clarksburg waterworks three-quarters of a mile south of Clarksburg, Harrison County, and 1 mile upstream from Elk Creek.

Drainage area.--384 sq mi.

Gage.--Recording. Datum of gage is 931.82 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944. Nonrecording auxiliary gage Sept. 5, 1944, to June 12, 1954, at site 100 ft downstream; recording thereafter at site 500 ft downstream at datum 10 ft lower.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs. Variable submergence above a gage height of about 5.8 ft.

Remarks.--Only annual peaks are shown prior to 1941. Base for partial-duration series, 6,700 cfs.

Peak stages and discharges of West Fork River at Clarksburg, W.Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923a/	Apr. 14, 1923	4.70	7,280	1949	Jan. 27, 1949	5.01	7,670
1924	May 12, 1924	7.76	12,900				
1925	May 12, 1925	4.96	8,150	1950	Nov. 29, 1949	4.97	8,000
					Dec. 13, 1949	5.43	9,120
1926	Oct. 26, 1925	5.65	9,990		Feb. 1, 1950	6.58	9,960
1927	Nov. 16, 1926	7.26	12,100		Feb. 9, 1950	4.74	7,190
1928	Apr. 30, 1928	5.58	9,840		June 5, 1950	5.63	9,290
1929	Feb. 26, 1929	6.10	9,940		June 25, 1950	11.15	16,900
1930	Oct. 3, 1929	6.20	10,100				
				1951	Nov. 5, 1950	4.79	7,460
1931	Apr. 2, 1931	3.58	4,550		Dec. 4, 1950	7.15	10,100
1932	Jan.30,Mar.28, 1932	5.83	10,400		Jan. 15, 1951	4.90	7,730
					Feb. 1, 1951	8.78	14,400
1933	May 12, 1933	6.43	10,500		June 13, 1951	4.68	7,190
1934	Mar. 3, 1934	6.45	10,500				
1935	Mar. 12, 1935	6.00	9,750	1952	Dec. 15, 1951	4.71	7,190
					Dec. 21, 1951	4.74	7,190
1936	Mar. 18, 1936	6.58	10,900		Jan. 28, 1952	5.75	9,180
1937	Jan. 23, 1937	6.62	10,900				
1938	Oct. 29, 1937	7.9	13,000	1953	Jan. 9, 1953	4.31	6,140
1939	Apr. 17, 1939	8.22	13,500				
1940	May 31, 1940	5.98	9,750	1954	Mar. 2, 1954	3.89	4,440
1941	Mar. 12, 1941	4.5	6,800	1955	Oct. 16, 1954	7.57	10,600
	June 4, 1941	5.47	9,550		Dec. 30, 1954	5.78	8,950
					Feb. 7, 1955	6.35	9,630
1942	Apr. 10, 1942	3.99	5,530		Mar. 2, 1955	5.23	7,680
					Mar. 5, 1955	5.43	8,260
1943	Dec. 23, 1942	4.70	7,220				
	Dec. 30, 1942	5.30	8,720	1956	Jan. 30, 1956	7.22	10,500
	Feb. 1, 1943	4.89	7,720		Feb. 3, 1956	5.70	9,130
	Mar. 20, 1943	6.00	10,500		Feb. 19, 1956	5.44	8,260
	Apr. 20, 1943	4.48	6,720		Mar. 8, 1956	5.37	8,260
					Mar. 15, 1956	5.92	9,320
1944	Feb. 23, 1944	6.60	10,900		June 1, 1956	5.52	8,550
	June 23, 1944	4.82	7,470		Aug. 6, 1956	6.83	8,930
1945	Oct. 21, 1944	5.93	10,300	1957	Dec. 15, 1956	9.02	11,900
	Dec. 26, 1944	8.25	13,500		Dec. 24, 1956	4.84	6,700
	Jan. 1, 1945	5.88	10,300		Jan. 10, 1957	4.83	6,700
	Feb. 27, 1945	6.96	13,200		Jan. 30, 1957	4.89	6,830
	Mar. 3, 1945	5.17	8,470		Feb. 10, 1957	11.27	12,900
	Mar. 7, 1945	6.38	11,600				
	May 11, 1945	4.50	6,720	1958	Dec. 8, 1957	5.67	7,680
	Aug. 24, 1945	7.06	10,700		Dec. 27, 1957	5.80	8,550
	Sept.18, 1945	6.23	11,000		Feb. 27, 1958	5.13	6,960
					May 6, 1958	5.48	7,390
1946	Feb. 14, 1946	4.87	7,720		July 16, 1958	11.55	7,100
					July 24, 1958	13.25	8,580
1947	June 9, 1947	4.77	7,470		Aug. 9, 1958	12.25	7,680
1948	Feb. 14, 1948	10.13	15,800	1959	Jan. 21, 1959	5.23	6,960
	Mar. 24, 1948	5.00	7,670				
	Apr. 13, 1948	6.87	11,400	1960	Jan. 15, 1960	6.13	7,390
1949	Dec. 16, 1948	8.48	13,600	1961	Feb. 14, 1961	5.94	6,700

a Partial year.

595. Elk Creek at Quiet Dell, W. Va.

Location.--Lat 39°13'40", long 80°17'50", on left bank 200 ft downstream from highway bridge at Quiet Dell, Harrison County, and 0.9 mile upstream from Brushy Fork.

Drainage area.--84.6 sq mi.

Gage.--Nonrecording and crest-stage gages at site 200 ft upstream prior to June 29, 1958; recording thereafter. Datum of gage is 960.72 ft above mean sea level, adjustment of 1912 (State Road Commission bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs.

Remarks.--Base for partial-duration series, 980 cfs.

Peak stages and discharges of Elk Creek at Quiet Dell, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Jan. 3, 1944	7.48	1,530
	Feb. 23, 1944	10.80	3,430
	Mar. 20, 1944	7.34	1,440
	Mar. 24, 1944	6.75	1,230
	Apr. 27, 1944	7.00	1,310
	June 23, 1944	7.94	1,710
1945	Oct. 21, 1944	10.63	3,290
	Dec. 8, 1944	6.95	1,310
	Dec. 25, 1944	11.48	3,920
	Dec. 28, 1944	8.50	2,000
	Jan. 1, 1945	8.70	2,100
	Feb. 27, 1945	11.63	4,000
	Mar. 3, 1945	8.44	1,950
	Mar. 7, 1945	11.3	3,780
	Mar. 22, 1945	6.35	1,070
	May 10, 1945	7.80	1,660
	Aug. 4, 1945	7.60	1,210
	Aug. 24, 1945	13.96	3,600
	Sept.18, 1945	10.10	2,080
	Sept.21, 1945	8.00	1,350
1946	Nov. 15, 1945	6.60	1,150
	Nov. 20, 1945	7.0	1,310
	Nov. 29, 1945	7.42	1,490
	Feb. 14, 1946	9.26	2,440
	May 27, 1946	7.90	1,710
	June 19, 1946	8.13	1,800
1947	Sept. 6, 1947	6.19	980
1948	Jan. 2, 1948	9.13	2,310
	Feb. 5, 1948	-	a1,000
	Feb. 14, 1948	15.46	6,550
	Mar. 3, 1948	6.30	986
	Mar. 24, 1948	10.18	2,820
	Apr. 13, 1948	10.48	3,000
	May 3, 1948	10.44	2,940
	July 7, 1948	6.6	1,100
	July 22, 1948	6.4	1,020
	Aug. 5, 1948	7.2	1,330
1949	Nov. 29, 1948	6.5	1,060
	Dec. 15, 1948	11.0	3,300
	Jan. 6, 1949	6.7	1,140
	Jan. 26, 1949	8.47	1,910
	Feb. 16, 1949	7.3	1,380
	Apr. 14, 1949	6.9	1,210
1950	Nov. 29, 1949	7.9	1,460
	Dec. 13, 1949	8.5	1,710
	Dec. 27, 1949	7.6	1,350
	Jan. 7, 1950	8.3	1,630
	Jan. 31, 1950	9.8	2,320
	Feb. 9, 1950	9.0	1,920
	Mar. 13, 1950	7.3	1,230
	Mar. 21, 1950	7.4	1,270
	June 4, 1950	8.5	1,710
	June 25, 1950	8.8	1,840
1951	Nov. 5, 1950	8.0	1,500
	Dec. 4, 1950	11.36	3,460
	Jan. 15, 1951	8.1	1,630
	Feb. 1, 1951	11.9	3,790
	Feb. 22, 1951	7.0	1,140
	June 13, 1951	8.5	1,820
	June 23, 1951	6.6	990
	June 30, 1951	6.8	1,060
1951	July 24, 1951	11.6	3,600
1952	Dec. 15, 1951	8.45	1,770
	Dec. 21, 1951	7.80	1,490
	Dec. 31, 1951	7.10	1,180
	Jan. 2, 1952	8.05	1,580
	Jan. 27, 1952	9.47	2,330
	Mar. 11, 1952	6.28	981
	May 20, 1952	7.03	1,240
1953	Jan. 8, 1953	7.84	1,550
	Jan. 22, 1953	6.31	981
	Mar. 4, 1953	6.43	1,020
	Mar. 24, 1953	6.80	1,170
	May 6, 1953	9.15	2,180
1954	Apr. 17, 1954	6.14	926
1955	Oct. 15, 1954	13.80	5,090
	Dec. 30, 1954	10.90	2,990
	Feb. 7, 1955	9.79	2,380
	Mar. 5, 1955	7.65	1,430
1956	Jan. 30, 1956	10.94	2,760
	Feb. 3, 1956	9.42	2,160
	Feb. 7, 1956	8.00	1,580
	Feb. 18, 1956	8.60	1,830
	Feb. 25, 1956	7.58	1,430
	Mar. 8, 1956	7.75	1,500
	Mar. 13, 1956	7.25	1,280
	June 1, 1956	9.00	2,000
	Aug. 6, 1956	14.41	4,230
1957	Dec. 14, 1956	12.39	3,360
	Jan. 10, 1957	7.9	1,540
	Jan. 22, 1957	6.4	996
	Jan. 29, 1957	7.83	1,500
	Feb. 2, 1957	7.22	1,280
	Feb. 10, 1957	17.4	-
1958	Dec. 7, 1957	8.20	1,660
	Dec. 26, 1957	8.40	1,750
	Jan. 22, 1958	6.35	996
	Feb. 27, 1958	8.10	1,620
	Apr. 29, 1958	7.38	1,350
	May 5, 1958	8.45	1,750
	May 8, 1958	7.03	1,200
	July 16, 1958	8.01	1,670
	July 23, 1958	8.17	1,750
	July 29, 1958	6.30	993
	Aug. 8, 1958	8.19	1,750
1959	Jan. 16, 1959	6.28	993
	Jan. 20, 1959	7.40	1,430
	Feb. 11, 1959	7.42	1,430
	May 14, 1959	7.54	1,470
1960	Nov. 28, 1959	6.66	1,150
	Jan. 3, 1960	6.96	1,270
	Jan. 15, 1960	7.67	1,550
	Feb. 26, 1960	7.20	1,350
	Apr. 4, 1960	7.04	1,270
	Sept.12, 1960	8.10	1,710
1961	Dec. 30, 1960	6.34	993
	Feb. 14, 1961	7.61	1,510
	Feb. 26, 1961	6.36	1,030
	Mar. 22, 1961	6.39	1,030

a Maximum daily discharge.

599. Salem Fork above Jacobs Run, W. Va.

Location.--Lat 39°16'55", long 80°33'55", on right bank on Salem Fork, about 0.3 mile upstream from Jacobs Run in Salem, Harrison County.

Drainage area.--1.67 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,049.77 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter or indirect measurements to 430 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 22, 1955	4.91	430	1959	Apr. 10, 1959	1.80	160
				1960	Aug. 4, 1960	2.06	180
1956	Aug. 5, 1956	4.28	370				
1957	Dec. 14, 1956	3.7	320	1961	Feb. 25, 1961	1.26	120
1958	May 5, 1958	2.92	255				

600. Salem Fork subwatershed No. 11A (Varner Hollow Run) near Salem, W. Va.

Location.--Lat 39°18'25", long 80°34'25", at Mason Dam on Varner Hollow Run, a tributary to Jacobs Run, 0.8 mile upstream from mouth and 2 miles northwest of Salem, Harrison County.

Drainage area.--0.29 sq mi.

Gage.--Recording. Datum of gage is 1,127.27 ft above mean sea level (Soil Conservation Service bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 11 cfs.

Remarks.--Outflow from Soil Conservation Service reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 30, 1954	10.21	8.6	1958	May 5, 1958	11.98	9.8
	Feb. 6, 1955	10.25	a8.6	1959	Jan. 22, 1959	8.55	7.2
				1960	Jan. 15, 1960	9.83	8.2
1956	Aug. 6, 1956	13.95	11.0				
1957	Dec. 14, 1956	13.01	10.4	1961	Feb. 14, 1961	8.50	7.1

a Estimated.

600.3. Jacobs Run at Salem, W. Va.

Location.--Lat 39°17'20", long 80°33'50", on right bank, about 0.6 mile above mouth at Salem, Harrison County.

Drainage area.--1.78 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,050.47 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 22, 1955	3.34	295	1959	Apr. 10, 1959	0.53	69
				1960	Aug. 4, 1960	1.10	105
1956	Aug. 5, 1956	4.77	460				
1957	Dec. 14, 1956	2.7	230	1961	Feb. 25, 1961	.40	62
1958	May 5, 1958	1.95	165				

600.6. Salem Fork above Patterson Fork, at Salem, W. Va.

Location.--Lat 39°16'55", long 80°33'25", on right bank about 150 ft downstream from Baltimore & Ohio Railroad station, 800 ft downstream from Jacobs Run, and 1,500 ft upstream from Patterson Fork in Salem, Harrison County.

Drainage area.--4.79 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,039.53 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 22, 1955	6.33	740	1959	Apr. 10, 1959	1.66	255
				1960	Aug. 4, 1960	3.49	420
1956	Aug. 5, 1956	5.74	670				
1957	Dec. 14, 1956	4.77	550	1961	Feb. 25, 1961	.77	170
1958	May 5, 1958	3.38	410				

601. Salem Fork subwatershed No. 9 (West Branch Patterson Fork) near Salem, W. Va.

Location.--Lat 39°16'15", long 80°34'15", at Stonestreet Dam on West Branch Patterson Fork, 0.8 mile upstream from mouth and 1.2 miles southwest of Salem, Harrison County.

Drainage area.--0.92 sq mi.

Gage.--Recording. Datum of gage is 1,079.80 ft above mean sea level (Soil Conservation Service bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 25.8 cfs.

Remarks.--Outflow from Soil Conservation Service reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956a/	Jan. 30, 1956	16.37	19.4	1959	Apr. 10, 1959	15.44	17.5
	Aug. 6, 1956	16.44	19.4	1960	Aug. 4, 1960	16.80	20.1
1957	Dec. 14, 1956	19.80	25.8				
1958	May 5, 1958	17.61	21.6	1961	Aug. 11, 1961	14.08	15.0

a Partial year.

602. Patterson Fork at Salem, W. Va.

Location.--Lat 39°16'35", long 80°33'25", on right bank at highway bridge on Patterson Fork road, about 0.4 mile above mouth at Salem, Harrison County.

Drainage area.--3.06 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,045.53 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter and indirect measurements below 1,650 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 22, 1955	5.40	1,650	1959	Apr. 10, 1959	1.25	500
				1960	Aug. 4, 1960	-	a900
1956	Aug. 5, 1956	2.42	830				
1957	Dec. 14, 1956	2.90	960	1961	Feb. 25, 1961	.90	410
1958	May 5, 1958	1.79	650				

a Estimated.

605. Salem Fork at Salem, W. Va.

Location.--Lat 39°17'10", long 80°32'35", on left bank 0.2 mile downstream from Dog Run, 0.8 mile upstream from Cherrycamp Run, and 0.9 mile northeast of Salem, Harrison County.

Drainage area.--8.32 sq mi.

Gage.--Nonrecording at site 400 ft downstream prior to Apr. 20, 1951; recording thereafter. Datum of gage is 1,026.04 ft above mean sea level, adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and extended above on basis of slope-area measurement at 2,900 cfs.

Remarks.--Base for partial-duration series, 330 cfs. Flow slightly regulated by detention reservoirs since 1954.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950a/	June 25, 1950	13.6	2,900	1956	Aug. 1, 1956	5.65	362
					Aug. 5, 1956	9.92	1,590
1951a/	Jan. 14, 1951	6.7	525				
	Feb. 1, 1951	7.0	585	1957	Dec. 14, 1956	9.76	1,560
	Apr. 22, 1951	7.8	678		Jan. 10, 1957	6.56	594
	June 4, 1951	9.9	1,310		Feb. 9, 1957	7.07	748
	June 13, 1951	11.1	1,740				
	June 23, 1951	6.6	410	1958	Dec. 7, 1957	5.90	425
					Dec. 20, 1957	5.78	400
1952	Dec. 15, 1951	6.54	605		Dec. 26, 1957	5.59	350
	Dec. 30, 1951	5.72	375		Feb. 26, 1958	5.64	362
	May 26, 1952	7.30	830		May 5, 1958	8.14	1,030
					July 15, 1958	7.34	804
1953	Jan. 8, 1953	5.39	298		July 22, 1958	6.41	554
					Aug. 8, 1958	6.34	541
1954	June 16, 1954	6.16	489				
	Aug. 26, 1954	6.03	463	1959	Apr. 10, 1959	6.51	580
					May 4, 1959	6.18	502
1955	Oct. 15, 1954	7.19	776				
	Feb. 6, 1955	6.33	594	1960	Jan. 15, 1960	6.35	541
	Mar. 1, 1955	5.58	350		Mar. 30, 1960	5.68	375
	Aug. 22, 1955	11.88	2,280		Aug. 4, 1960	8.21	1,060
					Aug. 15, 1960	5.67	362
1956	Jan. 30, 1956	5.92	425				
	Feb. 2, 1956	5.60	350	1961	Feb. 25, 1961	5.61	350
	Mar. 8, 1956	6.02	450		Aug. 11, 1961	6.52	580
	Mar. 14, 1956	5.77	388				

a Partial year.

610. West Fork River at Enterprise, W. Va.

Location.--Lat 39°25'20", long 80°16'40", on left bank 150 ft downstream from highway bridge at Enterprise, Harrison County, and three-quarters of a mile upstream from Bingamon Creek.

Drainage area.--759 sq mi.

Gage.--Nonrecording at site 150 ft upstream prior to Oct. 23, 1932; recording thereafter. Datum of gage is 869.45 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended on basis of slope-area measurement at 31,400 cfs.

Historical data.--Flood in 1888 reached a stage of about 33 ft, present site and datum.

Remarks.--Base for partial-duration series, 12,000 cfs.

Peak stages and discharges of West Fork River at Enterprise, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1907a/	July 11, 1907	9.6	7,180
1908	Feb. 5, 1908	15.0	14,100
	Mar. 2, 1908	14.0	12,800
	Mar. 9, 1908	13.5	12,100
	May 5, 1908	16.4	16,000
1909	Feb. 16, 1909	10.9	8,780
1910	Jan. 19, 1910	13.6	12,200
1911	Jan. 30, 1911	17.6	17,700
1912	Jan. 19, 1912	13.8	12,500
	July 25, 1912	16.6	16,300
1913	Jan. 8, 1913	15.0	14,100
	Jan. 12, 1913	17.6	17,700
	Mar. 27, 1913	16.20	15,700
	May 23, 1913	16.0	15,400
	May 28, 1913	14.5	13,400
1914	Nov. 16, 1913	18.85	19,400
	Feb. 20, 1914	16.4	16,000
1915	Jan. 12, 1915	15.0	14,100
1916	Oct. 1, 1915	15.0	14,100
	Dec. 18, 1915	17.1	17,000
	Dec. 27, 1915	14.2	13,000
	Jan. 12, 1916	16.60	16,300
	Feb. 12, 1916	16.80	16,600
	Feb. 25, 1916	15.10	14,200
	Mar. 22, 1916	14.0	12,800
1917	Jan. 22, 1917	25.35	-
1918	Jan. 28, 1918	b24.65	-
	Mar. 14, 1918	21.75	-
1933a/	Mar. 14, 1933	15.88	16,000
	Mar. 19, 1933	15.98	16,100
	May 12, 1933	16.13	16,200
1934	Dec. 17, 1933	15.36	15,200
	Jan. 7, 1934	17.38	18,200
	Mar. 3, 1934	15.58	15,500
	Mar. 28, 1934	13.58	12,500
1935	Mar. 12, 1935	20.00	27,500
	May 7, 1935	15.27	15,000
	Aug. 3, 1935	13.50	12,400
	Aug. 7, 1935	17.68	18,600
	Sept. 3, 1935	15.47	15,400
1936	Jan. 3, 1936	15.40	16,500
	Feb. 15, 1936	b20.73	21,000
	Mar. 17, 1936	19.88	24,200
	Mar. 24, 1936	17.75	20,600
	Apr. 6, 1936	16.60	18,500
1937	Jan. 11, 1937	15.13	16,000
	Jan. 18, 1937	16.98	19,200
	Jan. 23, 1937	19.23	23,000
	Feb. 8, 1937	17.88	20,700
	Apr. 26, 1937	16.40	18,200
1938	Oct. 29, 1937	20.60	25,500
	Feb. 20, 1938	15.20	16,100
	Apr. 9, 1938	12.94	12,100
	May 22, 1938	14.54	15,000
1939	Jan. 30, 1939	14.63	15,100
	Feb. 3, 1939	20.40	25,100
	Mar. 13, 1939	13.56	13,300
	Apr. 17, 1939	21.57	27,300
1940	Mar. 31, 1940	16.27	18,600
	Apr. 20, 1940	16.38	18,800
	May 31, 1940	17.53	21,200
1941	Mar. 12, 1941	12.98	12,200
	June 4, 1941	17.66	21,800
1942	Apr. 10, 1942	12.32	11,000
1943	Dec. 30, 1942	18.13	22,800
	Feb. 1, 1943	14.42	14,900
	Mar. 20, 1943	16.70	19,400
	Apr. 19, 1943	15.20	16,400
1944	Feb. 23, 1944	16.79	17,900
	June 23, 1944	14.50	14,000
1945	Oct. 21, 1944	16.54	17,400
	Dec. 26, 1944	21.55	26,700
	Jan. 1, 1945	16.61	17,500
	Feb. 27, 1945	21.46	26,600
	Mar. 3, 1945	15.44	15,500
	Mar. 7, 1945	18.78	21,400
	May 11, 1945	13.79	12,900
	Aug. 25, 1945	17.13	18,400
	Sept.18, 1945	18.85	21,400
	Sept.24, 1945	15.88	16,300
1946	Feb. 14, 1946	13.35	12,300
	June 2, 1946	15.95	16,500
1947	June 9, 1947	10.60	8,240
1948	Jan. 2, 1948	15.70	15,800
	Feb. 14, 1948	25.56	31,400
	Mar. 24, 1948	14.00	13,300
	Apr. 13, 1948	21.31	24,500
1949	Dec. 16, 1948	21.51	24,200
	Jan. 27, 1949	14.01	12,700
1950	Dec. 13, 1949	15.8	15,400
	Jan. 31, 1950	18.6	19,600
	Feb. 9, 1950	15.3	14,000
	June 25, 1950	19.63	20,200
1951	Dec. 4, 1950	20.15	21,100
	Jan. 15, 1951	16.08	15,100
	Feb. 1, 1951	23.22	25,600
	June 13, 1951	17.8	17,500
1952	Dec. 21, 1951	14.05	12,200
	Jan. 28, 1952	15.77	14,700
1953	Jan. 9, 1953	12.88	10,800
1954	Aug. 26, 1954	9.57	6,660
1955	Oct. 16, 1954	19.88	20,600
	Dec. 30, 1954	16.88	16,300
	Feb. 7, 1955	18.28	18,200
1956	Jan. 30, 1956	19.20	19,600
	Feb. 3, 1956	-	c15,000
	Feb. 18, 1956	13.97	12,200
	Mar. 8, 1956	15.38	14,200
	Mar. 15, 1956	14.57	13,000
	Aug. 6, 1956	24.43	27,500
1957	Dec. 14, 1956	24.45	27,500
	Jan. 10, 1957	14.70	13,200
	Feb. 10, 1957	21.62	23,200
1958	Dec. 8, 1957	15.05	13,600
	Dec. 26, 1957	15.25	13,900
	May 5, 1958	17.05	16,400
	July 23, 1958	13.91	12,100
1959	Jan. 21, 1959	13.37	11,400
1960	Jan. 15, 1960	14.89	13,500
1961	Feb. 15, 1961	14.80	13,300

a Partial year. b Backwater from ice. c Daily mean discharge.

615. Buffalo Creek at Barrackville, W. Va.

Location.--Lat 39°30'15", long 80°10'20", near center of span on downstream side of highway bridge at Barrackville, Marion County, 1,700 ft upstream from Finchs Run.

Drainage area.--115 sq mi.

Gage.--Nonrecording prior to Dec. 6, 1940; recording thereafter. At datum 2.01 ft higher prior to June 4, 1943. Datum of gage is 882.42 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 9,500 cfs.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1908	May 5, 1908	8.2	3,280
1912	July 1912	18	11,600
1916	Dec. 17, 1915	10.5	5,350
	Mar. 22, 1916	9.3	4,220
1917	Dec. 27, 1916	9.35	4,310
	Jan. 22, 1917	14.22	9,490
1918	Feb. 26, 1918	11.02	5,850
1919	Jan. 2, 1919	11.46	6,400
1920	Nov. 1, 1919	10.64	5,450
	Nov. 26, 1919	10.04	4,850
	Dec. 7, 1919	8.5	3,520
	Dec. 9, 1919	8.69	3,700
1921	Mar. 3, 1921	8.47	3,250
1922	Nov. 1, 1921	9.46	4,400
	Dec. 24, 1921	10.9	5,750
	Mar. 15, 1922	9.8	4,670
	Sept. 2, 1922	13.5	8,650
1923	Feb. 13, 1923	8.20	3,100
1924a/	Mar. 29, 1924	11.88	6,840
	May 12, 1924	10.90	5,750
1933	Mar. 14, 1933	12.22	7,170
	Apr. 12, 1933	9.87	4,490
1934	Mar. 27, 1934	8.13	3,100
1935	Mar. 12, 1935	8.99	3,950
	May 2, 1935	9.10	4,040
1936	Mar. 17, 1936	11.08	5,960
	Apr. 6, 1936	10.8	5,650
1937	Jan. 18, 1937	11.2	6,070
	Apr. 26, 1937	8.8	3,780
1938	Oct. 28, 1937	8.7	3,700
	Feb. 20, 1938	9.39	4,310
	Apr. 9, 1938	8.64	3,610
1939	Jan. 30, 1939	9.26	4,220
	Feb. 3, 1939	11.56	6,510
	Apr. 17, 1939	8.74	3,700
	June 19, 1939	9.4	4,310
1940	Apr. 19, 1940	8.4	3,440
1941	June 4, 1941	10.3	5,150
1942	Apr. 9, 1942	10.80	5,650
	Aug. 23, 1942	8.78	3,780
1943	Dec. 30, 1942	11.20	6,070
	Mar. 7, 1943	9.40	4,310
	Apr. 19, 1943	9.32	4,220
1944	Mar. 17, 1944	11.70	4,510
1945	Dec. 26, 1944	12.73	5,310
	Jan. 1, 1945	10.53	3,550
	Feb. 22, 1945	10.80	3,790
	Feb. 27, 1945	13.50	6,000
	Mar. 3, 1945	11.39	4,270
	Mar. 6, 1945	12.01	4,750
	Mar. 22, 1945	10.85	3,790
	Sept. 18, 1945	11.35	4,270
1946	Mar. 27, 1946	10.87	3,870
	May 14, 1946	10.54	3,550
	June 2, 1946	15.30	7,620
1947	Jan. 15, 1947	10.71	3,710
1948	Jan. 1, 1948	11.75	4,590
	Feb. 14, 1948	14.07	6,920
	Mar. 24, 1948	10.87	3,870
	Apr. 12, 1948	16.00	9,300
	July 22, 1948	10.84	3,790
1949	Dec. 15, 1948	13.94	6,690
	Apr. 14, 1949	10.86	3,870
1950	Jan. 7, 1950	11.34	4,190
	Jan. 21, 1950	11.84	4,590
1951	Nov. 4, 1950	10.46	3,550
	Dec. 4, 1950	11.39	4,270
	Dec. 8, 1950	12.38	5,110
	Jan. 15, 1951	11.66	4,510
	Feb. 1, 1951	13.38	6,140
	June 13, 1951	15.36	8,520
1952	Jan. 27, 1952	11.25	4,110
1953	Jan. 8, 1953	11.48	4,350
	May 7, 1953	10.77	3,790
1954	Aug. 21, 1954	12.95	5,700
1955	Oct. 16, 1954	13.15	5,920
	Dec. 30, 1954	12.16	4,920
	Feb. 7, 1955	11.97	4,750
	Mar. 1, 1955	11.25	4,110
	Mar. 5, 1955	12.96	5,700
1956	Jan. 30, 1956	10.85	3,790
	Mar. 8, 1956	11.00	3,950
	May 28, 1956	15.90	9,170
	June 25, 1956	13.75	6,580
1957	Dec. 14, 1956	13.00	5,950
	Jan. 10, 1957	11.00	4,150
	Feb. 9, 1957	11.40	4,470
1958	Dec. 7, 1957	10.42	3,670
	Dec. 26, 1957	10.20	3,510
	May 5, 1958	11.30	4,390
	July 16, 1958	11.35	4,470
	Aug. 14, 1958	11.33	4,390
1959	Feb. 10, 1959	11.10	4,230
1960	Mar. 31, 1960	9.80	3,190
1961	June 3, 1961	11.10	4,230
	Aug. 11, 1961	10.75	3,990

a Partial year.

620. Monongahela River at lock 15, at Hoult, W. Va.

Location.--Lat 39°30'25", long 80°07'50", on right bank above spillway of dam at lock 15, at Hoult, Marion County, three-quarters of a mile downstream from Buffalo Creek, 2½ miles downstream from Fairmont, and 4 miles downstream from confluence of Tygart and West Fork Rivers.

Drainage area.--2,388 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1926; recording thereafter. Datum of gage is 849.58 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 50,000 cfs.

Remarks.--Gage heights prior to Dec. 6, 1940, furnished by Corps of Engineers. Only annual peaks are shown. Flow partly regulated by Tygart Lake since 1938.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	-	26	-	1941	June 4, 1941	14.73	35,800
				1942	Apr. 10, 1942	12.65	21,100
1915a/	Sept.19, 1915	10.75	10,600	1943	Dec. 30, 1942	14.87	37,600
				1944	Feb. 23, 1944	13.43	26,500
1916	Jan. 12, 1916	17.8	60,300	1945	Feb. 27, 1945	15.33	40,800
1917	Jan. 22, 1917	21.0	89,600	1946	June 2, 1946	13.90	30,000
1918	Mar. 14, 1918	21.1	90,500	1947	Jan. 22, 1947	11.21	13,100
1919	Jan. 2, 1919	21.2	91,500	1948	Feb. 14, 1948	17.00	56,000
1920	Jan. 23, 1920	16.8	51,600	1949	Dec. 16, 1948	15.46	42,400
				1950	Jan. 31, 1950	14.48	34,400
1921	May 30, 1921	13.9	28,700				
1922	Dec. 24, 1921	19.2	72,800	1951	Feb. 1, 1951	15.37	41,600
1923	Feb. 2, 1923	15.3	39,200	1952	Jan. 27, 1952	12.91	23,200
1924	May 12, 1924	19.86	79,300	1953	Jan. 9, 1953	12.50	20,600
1925	May 11, 1925	14.66	34,500	1954	Aug. 26, 1954	11.87	16,400
				1955	Oct. 16, 1954	15.36	41,400
1926	Feb. 15, 1926	16.31	47,400				
1927	Dec. 22, 1926	15.01	-	1956	Aug. 6, 1956	15.70	44,100
1928	May 1, 1928	15.58	-	1957	Dec. 14, 1956	16.48	51,300
1929	Feb. 27, 1929	15.90	-	1958	May 5, 1958	14.38	33,200
1930	Oct. 3, 1929	17.95	-	1959	Jan. 21, 1959	12.92	22,400
				1960	Jan. 15, 1950	13.03	23,000
1939	Feb. 3, 1939	15.40	41,500				
1940	Apr. 20, 1940	14.60	35,000	1961	Feb. 15, 1961	13.33	25,100

a Partial year.

625. Deckers Creek at Morgantown, W. Va.

Location.--Lat 39°37'45", long 79°57'10", on left bank at Kingwood Street, in Morgantown, Monongalia County, 0.6 mile upstream from mouth.

Drainage area.--63.2 sq mi.

Gage.--Nonrecording prior to May 8, 1946, recording thereafter. At site 150 ft downstream at present datum prior to June 20, 1956. Altitude of gage is 820 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and extended on basis of slope-area measurement at 5,680 cfs.

Remarks.--Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946a/	June 2, 1946	4.14	1,490	1955	Oct. 15, 1954	4.87	2,570
					Dec. 30, 1954	4.36	2,040
1947	June 8, 1947	3.60	1,080		Mar. 5, 1955	3.72	1,460
1948	Jan. 2, 1948	4.12	1,450	1956	May 27, 1956	4.75	2,120
	Feb. 14, 1948	4.52	1,790		July 27, 1956	4.31	1,460
	Apr. 13, 1948	5.79	3,080		Aug. 5, 1956	10.12	5,680
1949	Dec. 16, 1948	4.45	1,740	1957	Dec. 14, 1956	5.41	2,180
					Feb. 10, 1957	5.20	2,040
1950	Jan. 31, 1950	4.79	1,920				
				1958	May 5, 1958	5.26	2,110
1951	Dec. 4, 1950	4.47	1,720				
	Feb. 1, 1951	4.64	1,900	1959	Jan. 22, 1959	3.50	1,000
1952	Jan. 27, 1952	3.97	1,330	1960	Mar. 31, 1960	5.35	2,050
1953	Jan. 8, 1953	3.51	1,150	1961	Feb. 19, 1961	3.94	1,120
1954	Aug. 21, 1954	3.99	1,730				

a Partial year.

630. Monongahela River at lock 8, at Point Marion, Pa.

Location.--Lat 39°43'55", long 79°54'40", 700 ft upstream from dam at lock 8, 1 mile upstream from Point Marion, Fayette County, and 1.5 miles upstream from Cheat River.

Drainage area.--2,720 sq mi.

Gage.--Recording. Datum of gage is 782.50 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 56,000 cfs.

Remarks.--Only annual peaks are shown. Flow partly regulated by Tygart Lake since May 1938.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 27, 1929	18.77	53,300	1942	Aug. 24, 1942	15.97	27,200
1930	Oct. 3, 1929	20.39	69,700	1943	Dec. 30, 1942	17.92	44,600
				1944	Feb. 23, 1944	16.21	29,000
1931	Apr. 4, 1931	15.80	25,500	1945	Feb. 27, 1945	18.5	50,300
1932	Feb. 5, 1932	21.34	68,600				
1933	Mar. 14, 1933	19.78	53,900	1946	June 2, 1946	17.37	39,800
1934	Mar. 4, 1934	18.92	53,300	1947	Jan. 16, 1947	14.30	14,400
1935	Mar. 12, 1935	20.04	65,500	1948	Feb. 14, 1948	20.60	71,800
				1949	Dec. 16, 1948	18.59	51,300
1936	Mar. 18, 1936	22.33	90,400	1950	Jan. 31, 1950	17.40	39,800
1937	Apr. 26, 1937	19.13	56,300				
1938	Oct. 29, 1937	20.75	73,900	1951	Feb. 2, 1951	18.71	49,300
1939	Feb. 4, 1939	19.24	57,300	1952	Jan. 27, 1952	17.49	29,000
1940	Apr. 20, 1940	17.98	42,600	1953	Jan. 9, 1953	17.22	27,200
				1954	Aug. 26, 1954	15.82	17,100
1941	June 4, 1941	18.42	49,400	1955	Oct. 16, 1954	21.39	70,800

650. Dry Fork at Hendricks, W. Va.
(Published as "Dry Fork River" 1949-52)

Location.--Lat 39°04'20", long 79°37'20", on right bank at Hendricks, Tucker County, 0.4 mile upstream from confluence with Blackwater River.

Drainage area.--345 sq mi.

Gage.--Nonrecording prior to Dec. 21, 1941; recording thereafter. Datum of gage is 1,698.76 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended on basis of slope-area measurement at 47,000 cfs.

Remarks.--Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	July 4, 1941	6.45	7,900	1954	Mar. 1, 1954	7.47	10,100
					July 15, 1954	6.70	8,020
1942	May 16, 1942	6.75	8,400				
	May 22, 1942	6.29	7,100	1955	Oct. 15, 1954	15.23	47,000
	Aug. 24, 1942	6.45	7,350		Dec. 30, 1954	9.05	13,900
					Feb. 7, 1955	7.14	7,660
1943	Dec. 28, 1942	6.45	7,350		Mar. 1, 1955	6.99	7,380
					Mar. 5, 1955	7.74	9,400
1944	Feb. 22, 1944	9.82	18,100		Aug. 13, 1955	9.73	17,000
	Mar. 23, 1944	6.55	7,760		Aug. 18, 1955	9.58	16,600
	June 24, 1944	7.48	10,100				
				1956	Jan. 30, 1956	8.18	11,000
1945	Dec. 26, 1944	8.07	11,800		Feb. 2, 1956	8.10	11,000
	Jan. 1, 1945	6.83	8,280		Feb. 7, 1956	7.26	8,640
	Feb. 16, 1945	6.97	8,800		Feb. 18, 1956	6.83	7,280
	Feb. 27, 1945	6.84	8,280		Mar. 14, 1956	7.43	8,920
	Mar. 3, 1945	7.08	9,060		May 28, 1956	11.38	25,400
					June 3, 1956	7.12	8,080
1946	Jan. 7, 1946	7.36	9,840		Aug. 5, 1956	9.02	14,000
1947	June 8, 1947	6.63	7,760	1957	Jan. 10, 1957	7.72	9,800
					Jan. 23, 1957	8.16	11,300
1948	Feb. 14, 1948	9.80	18,100		Jan. 29, 1957	8.89	13,700
	Feb. 26, 1948	6.94	8,540		Feb. 10, 1957	9.32	15,300
	Mar. 24, 1948	7.57	10,400				
	Apr. 14, 1948	7.14	9,060	1958	Dec. 8, 1957	7.29	8,640
					Apr. 7, 1958	8.19	11,300
1949	Dec. 16, 1948	8.76	14,200		Aug. 3, 1958	6.71	7,020
	Jan. 26, 1949	6.36	7,240		Aug. 8, 1958	7.52	9,200
	June 17, 1949	8.82	14,200				
				1959	Jan. 22, 1959	7.93	10,400
1950	Jan. 31, 1950	6.80	8,280				
	Mar. 13, 1950	6.59	7,760	1960	Oct. 24, 1959	8.70	13,000
	Sept. 13, 1950	6.94	8,540		Mar. 31, 1960	9.28	15,300
					Apr. 4, 1960	8.42	12,000
1951	Dec. 4, 1950	7.01	8,800		May 8, 1960	6.88	7,540
	Dec. 7, 1950	7.98	11,500				
	Feb. 1, 1951	7.58	10,400	1961	Feb. 19, 1961	7.79	10,100
	June 13, 1951	7.79	10,900		Feb. 23, 1961	7.09	8,080
					Feb. 25, 1961	7.25	8,360
1952	Jan. 27, 1952	6.69	8,020				
1953	Feb. 21, 1953	6.48	7,500				

660. Blackwater River at Davis, W. Va.

Location.--Lat 39°07'35", long 79°28'10", on right bank three-eighths of a mile southwest of Davis, Tucker County, and half a mile downstream from Beaver Creek.

Drainage area.--86.2 sq mi.

Gage.--Nonrecording prior to Dec. 18, 1952, at site 60 ft downstream at present datum; recording thereafter. Datum of gage is 3,058.87 ft above mean sea level (levels by West Virginia Power and Transmission Co.).

Stage-discharge relation.--Defined by current-meter measurements below 6,600 cfs.

Remarks.--Records prior to May 17, 1942, furnished by West Virginia Power and Transmission Co. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges of Blackwater River at Davis, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1921a/	May 5, 1921	5.55	1,240
1922	Dec. 18, 1921	6.07	1,600
	Dec. 24, 1921	6.95	1,900
	Feb. 20, 1922	5.80	1,450
1923	Feb. 2, 1923	6.29	1,600
	Feb. 13, 1923	6.00	1,550
1924	Mar. 29, 1924	13.20	7,170
	May 12, 1924	b7.7	c2,520
1925	Feb. 12, 1925	5.12	1,060
1926	Aug. 19, 1926	6.78	1,880
1927	Jan. 21, 1927	6.84	1,850
	Feb. 7, 1927	b5.8	c1,450
1928	May 1, 1928	7.95	2,700
	June 20, 1928	5.76	c1,430
1929	Dec. 1, 1928	6.20	1,530
1930	Oct. 2, 1929	7.45	2,140
1931	Apr. 4, 1931	5.55	1,250
1932	Feb. 4, 1932	8.95	3,400
1933	Aug. 24, 1933	8.87	3,330
1934	Mar. 5, 1934	7.10	2,160
1935	Jan. 21, 1935	6.40	1,770
1936	Jan. 3, 1936	6.10	c1,440
	Feb. 26, 1936	6.98	c1,850
	Mar. 17, 1936	9.00	3,400
	Mar. 25, 1936	8.12	c2,460
	Apr. 6, 1936	6.28	c1,520
1937	Mar. 21, 1937	6.05	c1,420
	Apr. 26, 1937	6.8	1,990
1938	Oct. 28, 1937	11.44	5,220
1939	January 1939	-	c1,530
	Feb. 3, 1939	8.89	3,330
	April 1939	-	c1,560
1940	Feb. 11, 1940	7.20	2,220
	Mar. 4, 1940	6.28	c1,520
	Apr. 17, 1940	6.15	c1,460
1941	July 4, 1941	6.25	1,660
1942	Mar. 9, 1942	5.33	1,130
1943	Dec. 28, 1942	6.95	1,860
	Jan. 17, 1943	6.08	1,440
1944	Jan. 28, 1944	6.84	1,760
	Feb. 23, 1944	8.16	2,840
	Mar. 24, 1944	6.32	1,530
	June 24, 1944	6.22	1,480
1945	Oct. 21, 1944	6.30	1,530
	Dec. 25, 1944	6.70	1,940
1945	Jan. 1, 1945	6.10	1,440
	Feb. 27, 1945	6.36	1,580
	Mar. 7, 1945	6.14	1,440
1946	Jan. 7, 1946	6.45	1,770
1947	Mar. 25, 1947	5.55	1,350
1948	Feb. 14, 1948	8.0	2,700
	Apr. 14, 1948	5.86	1,440
1949	Dec. 16, 1948	8.18	2,630
	Jan. 26, 1949	6.00	1,520
	June 18, 1949	8.14	2,580
	June 28, 1949	5.92	1,480
1950	Feb. 2, 1950	6.3	1,720
	Mar. 13, 1950	6.45	1,770
	Mar. 28, 1950	6.4	1,770
	Apr. 24, 1950	6.0	1,550
1951	Dec. 8, 1950	6.35	1,770
	Feb. 1, 1951	7.52	2,400
	June 13, 1951	6.4	1,770
1952	Dec. 31, 1951	7.8	2,580
	Jan. 29, 1952	6.4	1,770
1953	Feb. 21, 1953	5.97	1,500
1954	Mar. 1, 1954	6.49	1,750
	Aug. 26, 1954	5.81	1,400
1955	Oct. 15, 1954	12.71	6,700
	Dec. 30, 1954	8.84	3,290
	Feb. 7, 1955	6.60	d1,810
	Mar. 1, 1955	5.95	1,500
	Mar. 6, 1955	5.94	1,450
	Aug. 13, 1955	7.76	2,580
	Aug. 18, 1955	12.78	6,800
1956	Jan. 30, 1956	7.07	2,110
	Feb. 3, 1956	8.22	2,860
	Feb. 18, 1956	5.79	1,400
	Mar. 14, 1956	5.95	1,500
	May 28, 1956	7.59	2,440
	Aug. 6, 1956	10.84	4,920
1957	Jan. 10, 1957	6.92	1,990
	Jan. 23, 1957	7.36	2,300
	Jan. 30, 1957	7.30	2,230
	Feb. 10, 1957	10.24	4,410
	June 13, 1957	6.07	1,550
1958	Dec. 8, 1957	6.50	1,750
	Apr. 7, 1958	8.58	3,140
1959	Jan. 22, 1959	7.32	2,230
1960	Oct. 24, 1959	7.44	2,300
	Mar. 31, 1960	9.86	4,170
	Apr. 4, 1960	8.64	3,140
	May 8, 1960	6.27	1,650
	May 28, 1960	5.94	1,450
1961	Feb. 19, 1961	8.16	2,860
	Feb. 24, 1961	7.37	2,300
	Apr. 16, 1961	5.85	1,400

a Partial year.
b Estimated gage height.
c Daily mean discharge.
d Backwater from ice.

675. Shavers Fork at Cheat Bridge, W. Va.

Location.--Lat 38°36'40", long 79°52'30", at highway bridge at Cheat Bridge, Randolph County.

Drainage area.--57.5 sq mi.

Gage.--Nonrecording. Altitude of gage is 3,550 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs.

Remarks.--Record furnished by West Virginia Power and Transmission Co. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	July 22, 1896	14	11,000	1924	May 12, 1924	8.60	4,210
				1925	Mar. 19, 1925	6.44	2,350
1922	June 12, 1922	5.19	1,490				
1923	Feb. 1, 1923	8.10	3,400	1926	Oct. 25, 1925	7.69	3,360

685. Shavers Fork at Flint, W. Va.

Location.--Lat 38°50'50", long 79°43'50", at Western Maryland Railway bridge half a mile south of Flint, Randolph County.

Drainage area.--124 sq mi.

Gage.--Recording. Datum of gage is 2,407.82 ft above mean sea level (levels by West Virginia Power and Transmission Co.).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended on basis of logarithmic plotting.

Remarks.--Records furnished by West Virginia Power and Transmission Co. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Mar. 19, 1925	6.08	3,450	1929	Nov. 30, 1928	7.47	5,330
				1930	Oct. 2, 1929	8.99	8,180
1926	Aug. 25, 1926	6.19	3,580				
1927	Nov. 16, 1926	7.16	4,970	1931	Apr. 11, 1931	6.79	4,320
1928	June 20, 1928	9.31	8,800	1932	Feb. 4, 1932	9.54	8,710

690. Shavers Fork at Parsons, W. Va.

Location.--Lat 39°05'45", long 79°40'40", on right bank at Parsons, Tucker County, 800 ft upstream from bridge on U.S. Highway 219 and 0.7 mile upstream from confluence with Black Fork.

Drainage area.--214 sq mi.

Gage.--Nonrecording prior to Apr. 4, 1942; recording thereafter. At site 800 ft downstream prior to Aug. 25, 1923, and at site 760 ft downstream from Aug. 25, 1923, to Sept. 30, 1926. Datum 3.00 ft lower prior to Oct. 1, 1926. Datum of gage is 1,634.87 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended on basis of conveyance-slope method.

Remarks.--Records furnished by West Virginia Power and Transmission Co., Oct. 1, 1921, to Sept. 30, 1926. Base for partial-duration series, 5,300 cfs.

Peak stages and discharges of Shavers Fork at Parsons, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 10, 1888	a12.5	25,000
1907	July 17, 1907	a12.5	25,000
1911	Jan. 30, 1911	9.9	12,300
1912	Oct. 18, 1911	7.4	6,330
	Feb. 27, 1912	7.4	6,330
	Mar. 16, 1912	7.3	6,110
	May 12, 1912	7.0	5,470
	July 22, 1912	7.6	6,790
	July 25, 1912	8.0	7,740
1913	Mar. 27, 1913	8.4	8,700
	Aug. 13, 1913	8.6	9,180
1914	Nov. 16, 1913	8.6	9,180
1915	Jan. 7, 1915	9.3	10,900
	Jan. 19, 1915	7.1	5,680
	Feb. 2, 1915	7.5	6,560
1916	Oct. 1, 1915	9.0	10,100
	Dec. 18, 1915	7.6	6,790
	Jan. 2, 1916	7.3	6,110
	Jan. 12, 1916	7.0	5,470
1917	Jan. 22, 1917	7.7	7,020
	Mar. 12, 1917	10.7	14,200
1918	Feb. 20, 1918	8.3	8,460
	Feb. 26, 1918	9.0	10,100
	Mar. 14, 1918	8.4	8,700
	June 29, 1918	7.2	5,890
1919	Dec. 10, 1918	7.2	b5,890
	Jan. 1, 1919	8.55	9,060
	July 16, 1919	7.1	5,680
1920	Nov. 1, 1919	7.25	5,890
	Dec. 7, 1919	8.7	9,420
	Jan. 23, 1920	7.1	5,680
	Mar. 13, 1920	7.85	7,380
	Mar. 20, 1920	8.15	8,100
1921	Nov. 14, 1920	7.4	6,350
	May 30, 1921	9.5	11,300
1922	Nov. 1, 1921	8.23	9,000
	Dec. 18, 1921	7.1	5,690
	Dec. 24, 1921	8.1	7,940
1923	Feb. 2, 1923	10.03	12,600
1924	Dec. 28, 1923	7.55	b6,120
	Mar. 29, 1924	8.06	b7,280
	May 12, 1924	10.60	14,800
1925	Mar. 19, 1925	7.10	4,880
1926	Oct. 25, 1925	8.5	8,400
1941	Apr. 6, 1941	6.22	5,490
1942	Dec. 24, 1941	6.56	5,440
	May 16, 1942	7.82	7,740
	Aug. 9, 1942	7.31	6,880
	Aug. 24, 1942	7.32	6,880
1943	Dec. 30, 1942	6.78	6,050
	July 30, 1943	6.86	6,210
1944	Feb. 23, 1944	8.46	8,920
	June 24, 1944	6.72	5,840
1945	Dec. 26, 1944	6.80	6,000
	Jan. 1, 1945	6.53	5,520
	Feb. 27, 1945	7.00	6,320
	Mar. 3, 1945	7.08	6,480
1946	Jan. 7, 1946	8.40	8,740
1947	June 9, 1947	6.45	5,380
1948	Feb. 14, 1948	7.79	7,660
	Feb. 26, 1948	7.04	6,320
	Mar. 24, 1948	8.08	8,200
	Apr. 14, 1948	7.09	6,480
1949	Dec. 16, 1948	8.09	8,200
1950	Sept. 2, 1950	7.26	6,800
1951	Dec. 4, 1950	6.65	5,410
	Mar. 31, 1951	7.12	6,230
	Apr. 12, 1951	7.48	6,950
	June 10, 1951	7.29	6,590
	June 13, 1951	7.27	6,590
1952	Jan. 28, 1952	6.60	5,410
	Mar. 11, 1952	6.69	5,570
1953	Feb. 21, 1953	7.80	7,490
1954	July 15, 1954	6.69	5,430
1955	Oct. 16, 1954	12.34	12,500
	Dec. 30, 1954	9.49	9,200
	Mar. 5, 1955	8.23	7,510
1956	May 28, 1956	8.06	7,380
1957	Jan. 23, 1957	7.70	6,920
	Jan. 29, 1957	8.74	8,400
	Feb. 10, 1957	7.91	7,240
1958	Dec. 8, 1957	6.62	5,400
	Apr. 7, 1958	7.15	6,360
	Aug. 8, 1958	7.20	6,360
1959	Jan. 22, 1959	8.45	8,400
1960	Mar. 31, 1960	7.92	7,630
	Apr. 4, 1960	9.74	10,900
	Sept. 11, 1960	6.46	5,300
1961	Feb. 26, 1961	10.27	12,100

a About.
b Daily mean discharge.

695. Cheat River near Parsons, W. Va.

Location.--Lat 39°07'20", long 79°40'50", on left bank 2 miles north of Parsons, Tucker County, and 3 miles downstream from confluence of Black and Shavers Forks.

Drainage area.--718 sq mi.

Gage.--Nonrecording prior to Aug. 17, 1944; recording thereafter. At site about 1,600 ft upstream at datum 1.13 ft higher prior to Aug. 17, 1944. Datum of gage is 1,589.66 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs and extended on basis of a slope-area measurement at 52,000 cfs.

Historical data.--The flood of Oct. 15, 1954, reached a stage of 20.8 ft, from floodmarks, at former site, which is 0.3 ft higher than the previously known maximum, that of July 1888 (discharge, 51,300 cfs).

Remarks.--Records for Oct. 1, 1922, to May 16, 1942, furnished by West Virginia Power and Transmission Co. Base for partial-duration series, 14,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913a/	Jan. 8, 1913	10.7	18,000	1927	Jan. 21, 1927	10.0	15,700
	July 10, 1913	10.6	17,600				
				1928	Apr. 30, 1928	12.47	24,400
1914	Nov. 14, 1913	13.4	28,000				
	Nov. 16, 1913	13.0	24,700	1929	Dec. 1, 1928	10.47	17,200
	Feb. 19, 1914	10.3	16,800				
	Apr. 26, 1914	10.4	17,100	1930	Oct. 2, 1929	14.2	31,200
1915	Jan. 7, 1915	13.0	24,700	1931	Apr. 4, 1931	8.43	11,200
	Jan. 19, 1915	11.48	20,300				
	Feb. 2, 1915	12.8	24,100	1932	Feb. 4, 1932	18.03	42,800
1916	Oct. 1, 1915	12.0	21,500	1933	May 16, 1933	11.33	20,200
	Dec. 18, 1915	10.88	18,100		Aug. 24, 1933	9.67	b14,700
	Jan. 12, 1916	13.05	24,900				
	Feb. 13, 1916	11.6	20,300	1934	Mar. 5, 1934	10.89	18,700
	Mar. 14, 1916	10.45	16,500				
	Mar. 22, 1916	12.5	23,100	1935	Jan. 20, 1935	10.68	18,000
	Sept.29, 1916	10.3	16,200		Mar. 12, 1935	9.8	b15,100
1917	Jan. 5, 1917	10.15	15,900	1936	Mar. 17, 1936	16.19	36,700
	Jan. 22, 1917	17.0	37,500		Mar. 25, 1936	11.80	b21,800
	Mar. 12, 1917	19.05	46,200		Apr. 6, 1936	9.5	b14,200
	May 29, 1917	11.05	18,400				
				1937	Apr. 26, 1937	11.28	20,100
1918	Feb. 20, 1918	12.2	22,100				
	Feb. 26, 1918	12.3	22,500	1938	Oct. 28, 1937	16.08	36,300
	Mar. 13, 1918	15.6	34,600				
				1939	Jan. 31, 1939	9.8	b16,200
1919	Dec. 10, 1918	9.75	14,700		Feb. 3, 1939	16.41	37,400
	Jan. 2, 1919	15.02	32,600		Feb. 11, 1939	9.25	b14,600
	July 16, 1919	10.0	15,300		Apr. 16, 1939	12.1	b24,600
1920	Dec. 7, 1919	11.37	19,500	1940	Feb. 11, 1940	11.47	22,200
	Jan. 9, 1920	10.4	16,500		Mar. 4, 1940	9.37	b14,900
	Jan. 24, 1920	10.0	15,300		Apr. 17, 1940	9.8	b16,200
	Mar. 13, 1920	9.88	15,000				
	Mar. 19, 1920	11.05	18,400	1941	July 4, 1941	9.26	14,700
	Apr. 21, 1920	9.84	14,700				
				1942	May 16, 1942	10.39	18,200
1921	Mar. 3, 1921	9.25	12,900		Aug. 9, 1942	9.78	16,400
					Aug. 24, 1942	9.95	17,100
1922	Nov. 1, 1921	10.0	15,300				
	Dec. 18, 1921	10.98	18,400	1943	Dec. 28, 1942	10.25	16,400
	Dec. 24, 1921	11.18	19,000				
	Feb. 11, 1922	9.98	15,300	1944	Feb. 23, 1944	14.3	32,300
					Mar. 24, 1944	9.92	15,200
1923	Feb. 1, 1923	11.0	19,000		June 24, 1944	11.7	21,700
1924	Dec. 28, 1923	11.7	b21,500	1945	Dec. 26, 1944	11.41	22,600
	Dec. 31, 1923	11.4	b20,400		Jan. 1, 1945	10.12	17,600
	Mar. 29, 1924	17.5	41,100		Feb. 16, 1945	9.57	15,800
	May 12, 1924	15.0	b36,200		Feb. 27, 1945	10.22	18,000
					Mar. 3, 1945	10.59	19,500
1925	Mar. 19, 1925	8.75	11,800				
				1946	Jan. 7, 1946	11.04	21,000
1926	Oct. 25, 1925	9.98	b15,700				
	Aug. 18, 1926	10.8	18,400	1947	Mar. 25, 1947	9.45	15,100

a Partial year.
b Daily mean discharge.

Peak stages and discharges of Cheat River near Parsons, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 9, 1947	9.43	15,100	1955	Mar. 5, 1955	10.71	19,800
					Aug. 13, 1955	11.29	22,400
1948	Feb. 14, 1948	13.40	31,100		Aug. 18, 1955	12.12	26,000
	Mar. 24, 1948	11.34	22,200				
	Apr. 14, 1948	10.11	17,600	1956	Jan. 30, 1956	11.09	21,500
					Feb. 3, 1956	10.79	20,200
1949	Dec. 16, 1948	12.81	27,000		Feb. 7, 1956	9.78	16,000
	Jan. 26, 1949	9.47	14,700		Mar. 14, 1956	9.87	16,400
	June 17, 1949	9.90	16,100		May 28, 1956	14.84	37,700
					June 3, 1956	9.45	14,600
1950	Jan. 31, 1950	9.87	16,100		Aug. 6, 1956	12.13	26,000
	Mar. 13, 1950	9.58	15,000				
	Apr. 24, 1950	9.37	14,400	1957	Jan. 10, 1957	10.37	18,500
					Jan. 23, 1957	11.10	21,500
1951	Dec. 4, 1950	10.07	16,800		Jan. 29, 1957	12.55	28,200
	Dec. 7, 1950	10.27	17,500		Feb. 10, 1957	13.45	31,800
	Feb. 1, 1951	10.82	19,300				
	June 10, 1951	9.28	14,000	1958	Dec. 8, 1957	10.17	17,700
	June 13, 1951	10.57	18,600		Apr. 7, 1958	11.36	22,900
					Aug. 8, 1958	10.40	18,500
1952	Jan. 28, 1952	10.14	16,800				
				1959	Jan. 22, 1959	11.52	23,300
1953	Feb. 21, 1953	10.00	16,400				
				1960	Oct. 24, 1959	10.30	18,100
1954	Mar. 1, 1954	9.80	15,700		Mar. 31, 1960	13.05	30,000
					Apr. 4, 1960	12.38	27,300
1955	Oct. 15, 1954	19.08	52,100				
	Dec. 30, 1954	12.81	29,100	1961	Feb. 19, 1961	10.56	19,400
	Feb. 7, 1955	9.39	14,600		Feb. 23, 1961	9.83	16,000
	Mar. 1, 1955	9.71	15,700		Feb. 26, 1961	11.51	23,300

700. Cheat River at Rowlesburg, W. Va.

Location.--Lat 39°20'50", long 79°40'00", on left bank 50 ft downstream from Baltimore & Ohio Railroad bridge at Rowlesburg, Preston County, and 300 ft upstream from Saltlick Creek. Records include flow of Saltlick Creek.

Drainage area.--972 sq mi, including that of Saltlick Creek.

Gage.--Nonrecording prior to Nov. 18, 1923, recording thereafter. At several sites within 500 ft of present site at various datums prior to Nov. 18, 1923. Datum of gage is 1,369.8 ft above mean sea level (Baltimore & Ohio RR. bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 42,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--12 ft.

Remarks.--Gage heights prior to 1923 furnished by U.S. Weather Bureau. Complete record furnished by the West Virginia Power and Transmission Co. Nov. 18, 1923, to June 30, 1942. Only annual peaks are shown prior to 1942. Base for partial-duration series, 20,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1844	July 6, 1844	a16.7	89,000				
				1924b/	Mar. 29, 1924	12.23	47,600
1888	July 10, 1888	a16.2	84,000	1925	Jan. 17, 1925	7.60	15,600
1911b/	Jan. 30, 1911	12.4	-	1926	Aug. 18, 1926	9.63	29,600
1912	July 25, 1912	13.2	-	1927	Jan. 21, 1927	9.36	26,900
1913	May 28, 1913	9.0	-	1928	Apr. 30, 1928	10.51	37,900
1914	Nov. 16, 1913	11.2	-	1929	Dec. 1, 1928	9.61	29,100
1915	Jan. 7, 1915	10.5	-	1930	Oct. 3, 1929	11.18	39,600
1916	Jan. 12, 1916	11.5	-	1931	Apr. 4, 1931	7.19	13,600
1917	Mar. 12, 1917	14.7	-	1932	Feb. 4, 1932	12.66	51,600
1918	Mar. 13, 1918	13.6	-	1933	Aug. 24, 1933	9.23	26,100
1919b/	Jan. 2, 1919	11.2	-	1934	Mar. 4, 1934	9.12	24,900
1920b/	Jan. 24, 1920	9.3	-	1935	Jan. 21, 1935	9.33	26,900
1921	May 30, 1921	7.90	16,800	1936	Mar. 17, 1936	11.95	46,000
1922b/	Dec. 24, 1921	8.96	-	1937	Apr. 26, 1937	9.27	26,100
				1938	Oct. 28, 1937	12.37	49,200

a Referred to present gage by relation curve.
b Partial year.

Peak stages and discharges of Cheat River at Rowlesburg, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 3, 1939	12.33	48,400	1952	Jan. 27, 1952	9.22	24,600
1940	Apr. 17, 1940	9.45	26,600				
				1953	Feb. 21, 1953	8.47	21,000
1941	July 4, 1941	8.41	19,500				
				1954	Mar. 1, 1954	8.12	18,000
1942	Aug. 24, 1942	9.04	23,200				
				1955	Oct. 16, 1954	15.67	66,300
1943	Dec. 28, 1942	9.40	26,200		Dec. 30, 1954	11.45	35,600
					Feb. 7, 1955	9.08	21,500
1944	Feb. 23, 1944	11.37	41,200		Mar. 1, 1955	9.14	21,500
	Mar. 24, 1944	8.72	21,000		Mar. 5, 1955	9.37	23,000
	June 24, 1944	10.09	32,500		Aug. 13, 1955	8.91	20,500
					Aug. 18, 1955	10.25	27,800
1945	Dec. 26, 1944	10.60	38,200				
	Jan. 1, 1945	9.47	27,000	1956	Jan. 30, 1956	10.43	29,100
	Feb. 27, 1945	9.53	27,000		Feb. 3, 1956	10.28	28,400
	Mar. 3, 1945	9.53	27,000		Feb. 7, 1956	8.98	21,000
	Mar. 7, 1945	8.76	21,600		Mar. 14, 1956	9.34	22,500
					May 28, 1956	12.56	43,700
1946	Jan. 8, 1946	9.36	26,200		June 3, 1956	8.86	20,500
					Aug. 6, 1956	12.30	41,600
1947	Mar. 25, 1947	8.64	20,300				
				1957	Jan. 10, 1957	9.79	25,300
1948	Feb. 14, 1948	11.95	46,000		Jan. 23, 1957	10.07	27,200
	Feb. 26, 1948	9.30	25,400		Jan. 30, 1957	10.78	31,700
	Mar. 24, 1948	10.48	37,000		Feb. 10, 1957	13.05	46,500
	Apr. 13, 1948	8.91	22,300				
				1958	Dec. 8, 1957	9.91	25,900
1949	Dec. 16, 1948	11.63	42,800		Apr. 7, 1958	9.57	24,100
	Jan. 26, 1949	9.11	23,800		Aug. 8, 1958	9.27	22,500
1950	Jan. 31, 1950	9.18	24,600	1959	Jan. 22, 1959	10.46	30,000
1951	Dec. 4, 1950	9.42	26,200	1960	Mar. 31, 1960	11.77	38,200
	Dec. 8, 1950	8.89	22,300		Apr. 4, 1960	10.72	31,200
	Feb. 1, 1951	10.59	38,200				
	June 13, 1951	9.80	29,700	1961	Feb. 19, 1961	9.60	25,900
					Feb. 26, 1961	9.89	27,500
1952	Dec. 31, 1951	8.89	22,300				

705. Big Sandy Creek at Rockville, W. Va.

Location.--Lat 39°37'15", long 79°42'20", on right bank just downstream from highway bridge at Rockville, Preston County, 5 miles upstream from mouth.

Drainage area.--200 sq mi.

Gage.--Nonrecording prior to Oct. 4, 1924; recording thereafter. Altitude of gage is 1,310 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above by velocity-area studies.

Bankfull stage.--15 ft.

Historical data.--Maximum stage known, 20.0 to 20.5 ft July 10, 1888 (discharge, 28,000 to 30,000 cfs).

Remarks.--Base for partial-duration series, 4,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909a/	June 5,6,1909	b8.1	b2,140	1913	Jan. 8, 1913	b10.8	b5,440
					Jan. 12, 1913	b11.2	b6,040
1910	Jan. 3, 1910	b10.5	b5,050				
	Jan. 18, 1910	b11.0	b5,700	1914	Nov. 16, 1913	b11.9	b7,270
	June 19, 1910	b11.5	b6,550				
				1915	Feb. 1, 1915	11.2	6,040
1911	Jan. 13, 1911	b15.6	b15,700				
	Jan. 30, 1911	b10.8	b5,440	1916	Dec. 18, 1915	b11.4	b6,380
					Mar. 22, 1916	14.85	13,600
1912	Mar. 21, 1912	b13.5	b10,600				
	July 24, 1912	b18.0	b21,300	1917	Dec. 27, 1916	b10.50	b5,050

a Partial year.
b Daily mean.

Peak stages and discharges of Big Sandy Creek at Rockville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 22, 1917	14.98	14,100
	Mar. 12, 1917	b10.72	b5,310
	June 7, 1917	b10.51	b5,050
1918a/	Feb. 13, 1918	b10.7	b5,310
	Feb. 20, 1918	b11.0	b5,700
	Feb. 26, 1918	12.8	9,050
1921a/	May 25, 1921	b11.4	b6,380
	May 29, 1921	b12.28	b8,000
1922	Nov. 28, 1921	10.17	6,300
	Dec. 24, 1921	12.41	8,250
1923	Apr. 14, 1923	10.20	4,770
1924	Jan. 3, 1924	b10.6	b7,120
	Mar. 29, 1924	12.9	9,250
1925	July 22, 1925	10.26	4,570
1926	Oct. 25, 1925	11.95	7,090
1927	June 4, 1927	10.93	5,440
1928	Oct. 20, 1927	11.39	6,380
	Apr. 30, 1928	b10.1	b4,820
1929	Feb. 26, 1929	9.93	c4,590
1930	Oct. 3, 1929	12.10	c7,650
1931	Apr. 4, 1931	11.39	c6,380
1932	Dec. 12, 1931	10.86	c5,570
1933	Mar. 14, 1933	14.20	c12,200
1934	Jan. 7, 1934	10.72	c5,310
1935	May 2, 1935	11.23	c6,040
1936	Feb. 26, 1936	b10.1	b5,000
	Mar. 17, 1936	13.17	9,900
1937	Apr. 26, 1937	10.87	c5,570
1938	Oct. 28, 1937	11.74	c6,910
1939	Feb. 3, 1939	12.85	c9,050
1940	Mar. 31, 1940	b10.14	b5,020
	May 31, 1940	b10.36	b5,450
	July 1, 1940	12.11	7,650
1941	June 4, 1941	14.77	c13,600
1942	Apr. 9, 1942	c11.66	c6,910
1943	Dec. 30, 1942	11.05	5,700
	Apr. 19, 1943	11.04	5,700
1944	Mar. 24, 1944	10.92	5,520
1945	Oct. 21, 1944	11.12	5,800
	Dec. 26, 1944	11.78	6,780
	Feb. 16, 1945	10.42	4,820
	Feb. 27, 1945	12.26	7,480
	Mar. 3, 1945	10.97	5,660
	Mar. 6, 1945	11.48	6,360
	May 10, 1945	11.60	6,500
1946	June 2, 1946	12.22	7,340
1947	July 19, 1947	10.28	4,680
1948	Jan. 2, 1948	12.03	7,450
	Feb. 14, 1948	12.89	9,250
	Apr. 13, 1948	13.32	10,100
	July 4, 1948	10.36	4,820
1949	Dec. 15, 1948	13.83	11,200
	Jan. 24, 1949	10.54	4,960
	Jan. 26, 1949	11.17	6,040
1950	Jan. 7, 1950	10.60	5,100
	Jan. 31, 1950	12.39	8,250
	Sept.22, 1950	11.19	6,040
1951	Dec. 4, 1950	10.98	5,700
	Feb. 1, 1951	11.08	5,870
	Apr. 30, 1951	10.41	4,820
	June 13, 1951	11.60	6,730
1952	Jan. 27, 1952	10.94	5,550
1953	Mar. 24, 1953	9.98	4,260
1954	Aug. 21, 1954	11.34	6,210
1955	Oct. 15, 1954	15.68	15,800
	Dec. 30, 1954	12.26	8,050
	Mar. 5, 1955	12.14	7,650
1956	Jan. 30, 1956	12.74	8,850
	Feb. 2, 1956	11.39	6,380
	Feb. 7, 1956	10.41	4,820
	Feb. 18, 1956	10.92	5,550
	May 27, 1956	12.94	9,250
	Aug. 6, 1956	16.97	19,400
1957	Dec. 14, 1956	13.20	9,900
	Jan. 10, 1957	11.61	6,730
	Feb. 10, 1957	11.20	6,040
1958	Dec. 26, 1957	11.23	6,040
	May 5, 1958	11.30	6,210
1959	Feb. 10, 1959	11.87	7,270
1960	Jan. 3, 1960	10.49	4,960
	Mar. 31, 1960	11.71	6,910
1961	Feb. 19, 1961	11.30	6,210
	Mar. 4, 1961	11.45	6,380

a Partial year.
b Daily mean.
c Annual peak only.

710. Cheat River near Pisgah, W. Va.

Location.--Lat 39°36'25", long 79°46'40", three-quarters of a mile upstream from Scotts Run, 2 miles downstream from Big Sandy Creek, 2½ miles southwest of Pisgah, Preston County, and 10 miles east of Morgantown.

Drainage area.--1,354 sq mi.

Gage.--Nonrecording prior to Nov. 14, 1927; recording thereafter. At site 150 ft upstream at same datum prior to Nov. 14, 1927. Datum of gage is 875.68 ft above mean sea level, datum of 1912 (levels by West Virginia Power and Transmission Co.).

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above.

Remarks.--Records furnished by West Virginia Power and Transmission Co. for the periods Sept. 7, 1927, to Nov. 23, 1933, Oct. 1, 1939, to Sept. 30, 1940, and Oct. 1, 1941, to June 30, 1942. Base for partial-duration series, 23,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 1, 1928	-	a50,000	1944	Feb. 23, 1944	20.61	49,200
					Mar. 24, 1944	17.22	30,600
1929	Dec. 1, 1928	17.68	32,500		June 24, 1944	18.00	34,500
	Feb. 27, 1929	-	b21,600				
				1945	Oct. 21, 1944	15.71	24,000
1930	Oct. 3, 1929	-	ab44,000		Dec. 26, 1944	20.43	47,900
	Nov. 19, 1929	-	b23,000		Jan. 1, 1945	17.86	34,000
					Feb. 16, 1945	15.68	24,000
1931	Apr. 5, 1931	13.92	17,300		Feb. 27, 1945	19.64	43,200
					Mar. 3, 1945	18.41	36,600
1932	Feb. 4, 1932	23.90	66,800		Mar. 7, 1945	17.51	32,100
	Mar. 18, 1932	16.62	b27,900				
	Apr. 1, 1932	15.85	b24,600	1946	Jan. 8, 1946	17.15	30,600
1933	Mar. 14, 1933	16.35	b26,600	1947	Mar. 15, 1947	15.97	25,200
	May 12, 1933	16.72	28,100		Mar. 25, 1947	16.22	26,100
1934	Mar. 5, 1934	17.12	c30,200	1948	Jan. 2, 1948	18.30	36,100
					Feb. 14, 1948	23.27	67,600
1935	Jan. 21, 1935	17.67	33,100		Feb. 26, 1948	17.07	30,100
	Mar. 12, 1935	17.63	32,600		Mar. 24, 1948	18.94	39,300
	May 7, 1935	16.80	28,600		Apr. 13, 1948	18.14	35,000
	Aug. 7, 1935	15.77	24,300				
				1949	Dec. 16, 1948	23.08	66,200
1936	Jan. 3, 1936	16.85	28,900		Jan. 26, 1949	17.99	34,500
	Jan. 9, 1936	16.15	25,700				
	Feb. 15, 1936	c24.65	-	1950	Nov. 29, 1949	16.44	27,000
	Feb. 27, 1936	a16.3	ab26,400		Jan. 31, 1950	18.70	38,200
	Mar. 17, 1936	23.92	72,000		Mar. 13, 1950	17.09	30,100
	Mar. 25, 1936	23.20	67,300		Apr. 24, 1950	16.23	26,100
	Apr. 6, 1936	18.15	35,500				
	July 5, 1936	15.82	24,300	1951	Dec. 4, 1950	18.39	36,600
					Feb. 1, 1951	20.54	48,500
1937	Dec. 7, 1936	16.15	25,900		June 13, 1951	19.39	42,000
	Jan. 23, 1937	16.52	27,300				
	Feb. 8, 1937	16.03	25,100	1952	Dec. 31, 1951	16.72	28,300
	Mar. 21, 1937	16.38	26,800		Jan. 3, 1952	16.11	25,700
	Apr. 26, 1937	18.38	36,900		Jan. 27, 1952	17.81	33,500
1938	Oct. 28, 1937	24.28	74,700	1953	Dec. 11, 1952	15.65	23,600
	Dec. 18, 1937	16.64	27,700		Feb. 22, 1953	15.56	23,600
	July 23, 1938	15.74	23,900				
				1954	Mar. 2, 1954	15.32	22,400
1939	Jan. 31, 1939	21.03	52,500				
	Feb. 3, 1939	24.28	74,700	1955	Oct. 16, 1954	30.10	127,000
	Feb. 11, 1939	16.52	27,300		Dec. 30, 1954	21.50	55,000
	Apr. 17, 1939	22.67	63,900		Feb. 7, 1955	17.36	31,600
					Mar. 1, 1955	16.81	28,800
1940	Feb. 10, 1940	c24.0	-		Mar. 5, 1955	17.86	34,000
	Mar. 4, 1940	16.22	26,100		Aug. 13, 1955	15.97	25,200
	Apr. 17, 1940	17.57	32,500		Aug. 18, 1955	16.91	29,200
	May 31, 1940	18.28	36,100				
				1956	Jan. 30, 1956	20.16	46,700
1941	June 4, 1941	19.97	45,500		Feb. 3, 1956	19.74	43,700
					Feb. 7, 1956	16.99	29,700
1942	May 17, 1942	15.76	24,400		Feb. 15, 1956	16.38	27,000
	Aug. 24, 1942	16.28	26,500		Mar. 14, 1956	16.92	29,200
					May 28, 1956	22.20	59,800
1943	Dec. 29, 1942	17.89	34,000		June 3, 1956	16.25	26,100

a Estimated.
b Daily mean discharge.
c Backwater from ice.

Peak stages and discharges of Cheat River near Pisgah, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Aug. 5, 1956	26.10	89,300	1957	Feb. 10, 1957	23.99	72,800
1957	Dec. 14, 1956	17.50	32,100	1958	Dec. 8, 1957	17.64	32,500
	Jan. 10, 1957	18.50	37,100		Dec. 26, 1957	16.18	26,100
	Jan. 23, 1957	17.80	33,500		Apr. 7, 1958	16.21	26,100
	Jan. 30, 1957	19.25	40,900		May 6, 1958	16.30	26,500
	Feb. 2, 1957	15.50	23,200		Aug. 8, 1958	15.96	25,200

715. Cheat River near Morgantown, W. Va.

Location.--Lat 39°40'00", long 79°51'45", at highway bridge at Uneva, 7 miles east of Morgantown, Monongalia County, and 10 miles upstream from mouth.

Drainage area.--1,380 sq mi, source not known but checked by J. E. Stewart of the West Virginia Power and Transmission Co. in 1924.

Gage.--Nonrecording. At same site or at site 1 mile downstream at different datums prior to Dec. 28, 1922. Datum of gage is 822.28 ft above mean sea level (levels by West Virginia Power and Transmission Co.).

Stage-discharge relation.--Defined by current-meter measurements below 58,000 cfs.

Remarks.--All records recomputed by West Virginia Power and Transmission Co. in 1931 and republished in WSP 803 (1936). Base for partial-duration series, 27,000 cfs. Only annual peaks are shown 1924-26.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 10, 1888	18.7	160,000	1912	Mar. 21, 1912	9.80	34,200
					July 25, 1912	13.00	64,800
1903	Dec. 12, 1902	11.4	31,500				
	Dec. 16, 1902	10.8	27,900	1913	Jan. 8, 1913	10.05	36,200
	Jan. 3, 1903	11.2	30,300		May 27, 1913	9.5	31,800
	Feb. 4, 1903	11.0	29,100				
	Feb. 16, 1903	11.9	34,500	1914	Nov. 16, 1913	11.59	50,300
	Feb. 28, 1903	13.94	49,400		Feb. 19, 1914	9.4	31,100
	Mar. 24, 1903	11.3	30,900				
				1915	Jan. 7, 1915	10.01	35,800
1904	Jan. 23, 1904	10.60	26,700		Feb. 2, 1915	11.50	49,400
1905	Jan. 13, 1905	11.4	31,500	1916	Oct. 2, 1915	9.2	29,600
	Mar. 10, 1905	14.05	50,200		Dec. 18, 1915	10.8	42,800
	Mar. 21, 1905	11.4	31,500		Dec. 29, 1915	9.0	28,100
					Jan. 2, 1916	9.75	33,800
1909	Apr. 14, 1909	9.10	28,800		Jan. 12, 1916	12.22	56,300
					Feb. 13, 1916	10.50	40,100
1910	Jan. 3, 1910	10.80	42,800		Mar. 22, 1916	9.8	34,200
	Jan. 19, 1910	10.0	35,800				
	June 19, 1910	12.98	64,800	1917	Jan. 22, 1917	13.0	64,800
					Mar. 12, 1917	13.73	73,000
1911	Jan. 13, 1911	12.12	55,300		May 29, 1917	9.6	32,600
	Jan. 30, 1911	14.54	83,000				
	Apr. 5, 1911	9.30	30,000	1923	Jan. 29, 1923	7.94	25,800
	Aug. 31, 1911	9.83	34,600				
				1924	Mar. 29, 1924	13.99	86,300
1912	Oct. 8, 1911	9.3	30,300	1925	Jan. 17, 1925	7.21	21,000
	Feb. 22, 1912	10.3	38,400				
	Feb. 27, 1912	10.40	39,200	1926	Oct. 25, 1925	8.93	33,200
	Mar. 16, 1912	11.0	44,600				

720. Dunkard Creek at Shannopin, Pa.

Location.--Lat 39°45'30", long 79°58'20", on left bank at Shannopin, Greene County, 1.4 miles north of Dunkard, 3.5 miles upstream from mouth, and 4 miles southwest of Greensboro.

Drainage area.--229 sq mi.

Gage.--Recording. Altitude of gage is 806 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above on basis of slope-area measurement at 16,800 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 4, 1941	14.02	16,800	1951	Dec. 8, 1950	9.91	6,500
					Jan. 15, 1951	9.85	6,280
1942	Apr. 10, 1942	9.29	5,890		Feb. 1, 1951	11.42	10,100
					June 13, 1951	11.00	9,100
1943	Dec. 30, 1942	11.25	9,740				
	Mar. 7, 1943	8.98	5,380	1952	Jan. 27, 1952	10.40	7,640
	Apr. 20, 1943	9.76	6,810				
	July 26, 1943	9.43	6,070	1953	Jan. 9, 1953	9.37	5,420
					May 7, 1953	10.65	7,700
1944	Mar. 5, 1944	8.10	4,020				
				1954	Apr. 17, 1954	7.56	2,880
1945	Dec. 26, 1944	10.14	7,400				
	Jan. 1, 1945	8.96	5,380	1955	Oct. 16, 1954	11.15	9,570
	Feb. 27, 1945	9.98	7,200		Dec. 30, 1954	10.08	6,490
	Mar. 3, 1945	9.38	6,070		Feb. 7, 1955	10.13	6,740
	Mar. 7, 1945	10.55	8,440		Mar. 5, 1955	10.70	8,180
	Sept.19, 1945	9.03	5,380				
				1956	Jan. 30, 1956	9.60	6,120
1946	June 2, 1946	11.26	9,960		Mar. 8, 1956	9.23	5,400
					May 28, 1956	11.60	10,400
1947	June 9, 1947	8.19	4,160		Aug. 6, 1956	9.33	5,580
1948	Jan. 2, 1948	9.24	5,740	1957	Dec. 14, 1956	9.85	6,520
	Feb. 14, 1948	11.04	9,630				
	Apr. 12, 1948	11.00	9,630	1958	Apr. 30, 1958	9.06	5,220
	Apr. 14, 1948	10.73	8,910				
				1959	Jan. 22, 1959	8.97	5,040
1949	Dec. 16, 1948	10.33	8,000		Feb. 10, 1959	10.27	7,520
1950	Jan. 7, 1950	9.05	5,390	1960	Mar. 31, 1960	8.54	4,200
1951	Nov. 5, 1950	9.65	5,840	1961	Feb. 15, 1961	8.28	3,880
	Dec. 4, 1950	10.54	7,870				

725. Monongahela River at Greensboro, Pa.

Location.--Lat 39°47'15", long 79°55'15", on left bank on land guide wall 750 ft upstream from dam at lock 7, at Greensboro, Greene County, 0.2 mile upstream from Georges Creek, 2.2 miles downstream from Dunkard Creek, 4.3 miles downstream from Cheat River, and at mile 84.8.

Drainage area.--4,407 sq mi.

Gage.--Recording. Datum of gage is 767.55 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--23 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1926 by Lake Lynn and since 1938 by Tygart Lake.

Peak stages and discharges of Monongahela River at Greensboro, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 1888	36	-	1949	Dec. 16, 1948	25.3	115,000
				1950	Jan. 31, 1950	20.37	77,600
1936	Mar. 18, 1936	28.4	137,000				
				1951	Feb. 1, 1951	23.02	99,000
1939	Feb. 4, 1939	25.72	118,000	1952	Jan. 27, 1952	19.5	69,200
1940	May 31, 1940	20.30	79,400	1953	May 7, 1953	17.31	44,300
				1954	Mar. 2, 1954	16.42	34,500
1941	June 4, 1941	24.28	108,000	1955	Oct. 16, 1954	28.93	140,000
1942	Aug. 24, 1942	18.19	55,100				
1943	Dec. 30, 1942	20.86	85,400	1956	Aug. 6, 1956	24.54	110,000
1944	Feb. 23, 1944	19.8	74,400	1957	Feb. 10, 1957	23.58	103,000
1945	Dec. 26, 1944	22.74	100,000	1958	May 6, 1958	18.94	63,000
				1959	Jan. 22, 1959	18.78	61,900
1946	June 2, 1946	19.05	64,100	1960	Mar. 31, 1960	19.60	70,200
1947	Mar. 15, 1947	16.93	39,800				
1948	Feb. 14, 1948	26.60	124,000	1961	Mar. 22, 1961	18.52	58,600

730. South Fork Tenmile Creek at Jefferson, Pa.

Location.--Lat 39°55'25", long 80°04'25", on right bank at downstream side of highway bridge, 1 mile southwest of Jefferson, Greene County, and 3¼ miles downstream from Ruff Creek.

Drainage area.--180 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1938; recording thereafter. Datum of gage is 852.54 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended on basis of slope-area measurement at 13,800 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Jan. 30, 1932	7.70	3,220	1941	June 4, 1941	18.45	13,800
1933	Jan. 26, 1933	9.3	4,550	1942	Mar. 9, 1942	10.33	4,900
	Mar. 14, 1933	11.58	6,620		Apr. 9, 1942	10.72	5,200
	Mar. 19, 1933	9.3	4,550				
	Mar. 21, 1933	10.0	5,180	1943	Dec. 30, 1942	16.15	10,600
	Apr. 12, 1933	10.7	5,810		Apr. 19, 1943	10.85	5,280
					July 28, 1943	10.93	5,360
1934	Mar. 3, 1934	9.7	4,910				
	Apr. 4, 1934	12.4	7,400	1944	Mar. 5, 1944	9.84	4,530
1935	Feb. 23, 1935	10.12	5,270	1945	Jan. 1, 1945	10.28	4,900
	Mar. 12, 1935	9.6	4,820		Feb. 27, 1945	9.40	4,240
					Mar. 3, 1945	9.41	4,240
1936	Feb. 25, 1936	9.0	4,010		Mar. 6, 1945	13.27	8,090
	Mar. 17, 1936	13.54	7,830				
	Apr. 6, 1936	10.7	5,370	1946	June 2, 1946	13.45	8,180
1937	Nov. 4, 1936	13.8	8,100	1947	Jan. 15, 1947	7.92	3,440
	Jan. 15, 1937	10.0	4,810				
	Jan. 18, 1937	9.4	4,330	1948	Feb. 14, 1948	11.61	6,560
	Jan. 22, 1937	12.0	6,480		Apr. 14, 1948	11.10	6,110
	Jan. 25, 1937	9.7	4,570				
	Apr. 26, 1937	9.4	4,330	1949	Dec. 16, 1948	10.23	5,340
					Jan. 26, 1949	8.75	4,160
1938	Dec. 18, 1937	9.0	4,010				
	Jan. 25, 1938	9.4	4,330	1950	Jan. 7, 1950	10.48	5,570
	Feb. 20, 1938	10.8	5,450				
				1951	Nov. 4, 1950	11.00	6,020
1939	Apr. 17, 1939	10.40	4,660		Dec. 4, 1950	11.57	6,560
	June 29, 1939	12.25	5,950		Dec. 7, 1950	9.63	4,780
					Jan. 15, 1951	10.01	5,120
1940	Mar. 4, 1940	10.36	4,660		Feb. 1, 1951	11.93	6,830
	Mar. 30, 1940	9.52	4,080		Mar. 4, 1951	8.73	4,060
	Apr. 20, 1940	10.28	5,450		Apr. 30, 1951	11.72	6,650
	July 1, 1940	9.90	5,130				
	Aug. 29, 1940	9.93	5,130	1952	Jan. 27, 1952	12.24	7,100
1941	Nov. 27, 1940	9.18	4,570	1953	May 7, 1953	10.88	5,930

Peak stages and discharges of South Fork Tenmile Creek at Jefferson, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 17, 1954	6.70	2,510	1956	July 27, 1956	16.03	10,900
					Aug. 6, 1956	12.30	7,190
1955	Oct. 15, 1954	14.39	9,180				
	Dec. 30, 1954	10.70	5,750	1957	Apr. 18, 1957	7.74	3,260
	Feb. 6, 1955	10.19	5,300				
	Mar. 1, 1955	8.78	4,140	1958	May 4, 1958	8.08	3,580
	Mar. 5, 1955	12.00	6,920				
	May 28, 1955	9.07	4,380	1959	Jan. 22, 1959	9.81	4,940
					Feb. 10, 1959	12.10	7,010
1956	Jan. 30, 1956	9.35	4,620				
	Feb. 7, 1956	9.15	4,460	1960	Sept.11, 1960	8.32	3,740
	Feb. 18, 1956	8.76	4,140				
	Mar. 8, 1956	9.51	4,700	1961	Apr. 26, 1961	11.61	6,560
	Mar. 29, 1956	9.25	4,460		May 8, 1961	8.82	4,140
	May 28, 1956	9.33	4,540		June 3, 1961	9.29	4,540

740. Dunlap Creek at Allison, Pa.

Location.--Lat 39°59'20", long 79°52'30", at highway bridge at Allison, Fayette County, 1¾ miles north of Republic, 2.6 miles upstream from Cox Run and 3.7 miles downstream from Lilly Run.

Drainage area.--33.1 sq mi.

Gage.--Nonrecording. Altitude of gage is 900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 200 cfs and extended on basis of slope-area measurement at 1,300 cfs.

Remarks.--Base for partial-duration series, 310 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	3.6	725	1947	June 6, 1947	4.08	660
	Apr. 19, 1943	3.40	635				
	May 20, 1943	2.75	374	1948	Jan. 2, 1948	4.25	765
	May 26, 1943	2.95	446		Feb. 14, 1948	4.54	885
	May 31, 1943	3.00	465		Apr. 14, 1948	5.06	945
1944	Mar. 7, 1944	2.60	317	1949	Dec. 16, 1948	3.3	341
	Mar. 23, 1944	3.2	540		Jan. 26, 1949	3.90	535
1945	Oct. 21, 1944	2.6	317	1950	Jan. 7, 1950	4.30	642
	Dec. 26, 1944	3.71	775		Jan. 31, 1950	4.0	544
	Jan. 1, 1945	-	a500		July 13, 1950	3.5	386
	Feb. 22, 1945	2.80	385		Sept.14, 1950	3.35	355
	Feb. 27, 1945	3.0	460		Sept.22, 1950	6.17	1,300
	Mar. 3, 1945	3.1	500				
	Mar. 6, 1945	4.3	970	1951	Nov. 4, 1950	4.51	570
	Mar. 22, 1945	3.25	490		Dec. 4, 1950	5.43	960
	Sept.18, 1945	2.80	325		Jan. 15, 1951	4.0	405
	Sept.23, 1945	3.0	395		Feb. 1, 1951	4.6	610
					June 13, 1951	5.0	780
1946	June 2, 1946	4.73	965				
	June 19, 1946	4.32	805				

a Estimated daily discharge.

745. Redstone Creek at Waltersburg, Pa.

Location.--Lat 39°58'45", long 79°45'50", near center of span on downstream side of highway bridge at Waltersburg, Fayette County, 500 ft upstream from Bolden Run and 1 mile upstream from Allen Run.

Drainage area.--73.7 sq mi.

Gage.--Nonrecording and crest-stage gages. Datum of gage is 883.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended on basis of contracted-opening measurement of peak flow of 4,400 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	6.38	2,050	1952	Jan. 27, 1952	6.00	1,720
1944	May 26, 1944	5.75	1,750	1953	May 7, 1953	5.13	1,380
1945	Dec. 25, 1944	7.0	2,350	1954	Apr. 17, 1954	3.80	735
	Mar. 6, 1945	7.21	2,450				
	Sept.23, 1945	6.35	2,050	1955	Oct. 15, 1954	11.83	4,400
					Mar. 5, 1955	7.65	2,440
1946	June 2, 1946	7.84	2,750				
	June 19, 1946	6.5	2,100	1956	Aug. 6, 1956	8.95	3,080
1947	Aug. 3, 1947	7.59	2,440	1957	Dec. 14, 1956	4.40	1,000
1948	Apr. 12, 1948	6.64	2,000	1958	May 4, 1958	5.75	1,640
	Apr. 14, 1948	7.10	2,220				
				1959	Feb. 10, 1959	9.18	3,160
1949	Jan. 26, 1949	6.03	1,720				
				1960	Dec. 12, 1959	5.66	1,750
1950	Sept.21, 1950	7.29	2,310				
				1961	Apr. 26, 1961	7.01	2,800
1951	Dec. 3, 1950	6.98	2,180				
	June 13, 1951	7.56	2,440				

750. Monongahela River at Charleroi, Pa.

Location.--Lat 40°08'30", long 79°53'35", on right bank on land guide wall 1,100 ft upstream from dam at lock 4, at Charleroi, Washington County, half a mile downstream from Maple Creek, and at mile 41.5.

Drainage area.--5,213 sq mi.

Gage.--Recording. Datum of gage is 735.33 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--24 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1926 by Lake Lynn and since 1938 by Tygart Lake.

Peak stages and discharges of Monongahela River at Charleroi, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 11, 1888	26.1	156,000	1947	Mar. 15, 1947	8.91	39,600
				1948	Feb. 14, 1948	19.0	118,000
1934	Mar. 4, 1934	14.35	85,500	1949	Dec. 16, 1948	17.85	109,000
1935	Mar. 13, 1935	17.0	108,000	1950	Feb. 1, 1950	14.84	88,400
1936	Mar. 18, 1936	22.47	138,000	1951	Feb. 2, 1951	17.32	106,000
1937	Apr. 27, 1937	16.84	107,000	1952	Jan. 27, 1952	14.04	82,300
1938	Oct. 29, 1937	20.17	127,000	1953	May 7, 1953	10.70	55,800
1939	Feb. 4, 1939	19.05	120,000	1954	Mar. 2, 1954	8.25	33,300
1940	Apr. 20, 1940	15.06	93,600	1955	Oct. 16, 1954	21.07	140,000
1941	June 5, 1941	20.85	133,000	1956	Aug. 6, 1956	20.10	130,000
1942	Apr. 10, 1942	10.92	58,100	1957	Feb. 10, 1957	16.82	102,000
1943	Dec. 30, 1942	17.65	112,000	1958	May 6, 1958	12.49	70,300
1944	Feb. 23, 1944	12.12	66,000	1959	Jan. 22, 1959	12.30	68,700
1945	Feb. 27, 1945	16.52	100,000	1960	Mar. 31, 1960	14.14	83,100
1946	June 2, 1946	13.80	79,600	1961	Feb. 26, 1961	10.74	55,800

755. Youghiogheny River near Oakland, Md.

Location.--Lat 39°25'19", long 79°25'32", on left bank 200 ft downstream from Baltimore & Ohio Railroad bridge, 250 ft downstream from Little Youghiogheny River, 1¼ miles northwest of Oakland, Garrett County, and 1½ miles upstream from Dunkard Lick Run.

Drainage area.--134 sq mi.

Gage.--Nonrecording prior to Aug. 1, 1946; recording thereafter. At site 200 ft upstream at same datum prior to Aug. 1, 1946. Datum of gage is 2,353.11 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended on the basis of logarithmic plotting.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	March 1936	15.3	-	1948	Feb. 14, 1948	8.38	5,700
					Mar. 24, 1948	5.84	2,420
1942	Mar. 9, 1942	6.1	2,320		Apr. 13, 1948	7.44	4,240
	Apr. 10, 1942	6.37	2,590		July 17, 1948	5.44	2,040
	May 7, 1942	6.37	2,590		July 20, 1948	5.43	2,040
	May 16, 1942	5.86	2,150				
	Aug. 24, 1942	6.08	2,320	1949	Dec. 16, 1948	9.77	7,800
					Jan. 6, 1949	-	-
1943	Dec. 23, 1942	6.1	2,320		Jan. 27, 1949	6.61	3,230
	Dec. 29, 1942	7.59	3,780		July 13, 1949	6.49	3,110
	Jan. 17, 1943	5.75	2,070				
	Feb. 5, 1943	6.10	2,320	1950	Nov. 29, 1949	6.30	2,890
	Apr. 19, 1943	6.12	2,320		Jan. 31, 1950	6.82	3,470
					Feb. 9, 1950	5.54	2,040
1944	Jan. 28, 1944	6.9	3,050		Mar. 13, 1950	6.13	2,660
	Feb. 22, 1944	7.52	3,670		May 5, 1950	5.91	2,380
	Mar. 7, 1944	6.55	2,770				
	Mar. 24, 1944	7.0	3,150	1951	Dec. 4, 1950	6.21	2,720
					Jan. 4, 1951	5.68	2,160
1945	Dec. 26, 1944	8.20	4,490		Jan. 15, 1951	6.21	2,720
	Jan. 1, 1945	6.7	2,860		Feb. 1, 1951	7.76	4,800
	Feb. 16, 1945	6.4	2,590		June 14, 1951	6.74	3,380
	Feb. 27, 1945	8.28	4,610				
	Mar. 3, 1945	7.1	3,250	1952	Dec. 31, 1951	5.79	2,270
	Mar. 7, 1945	7.5	3,670		Jan. 3, 1952	5.74	2,220
	May 11, 1945	6.0	2,230		Jan. 27, 1952	6.56	3,150
	Aug. 24, 1945	5.9	2,150				
	Sept. 2, 1945	5.9	2,150	1953	Jan. 24, 1953	6.19	2,700
					Feb. 21, 1953	5.53	2,020
1946	Jan. 7, 1946	5.72	1,990				
				1954	Mar. 14, 1954	5.10	1,640
1947	Mar. 15, 1947	6.46	3,110				
	Mar. 25, 1947	5.46	2,040	1955	Oct. 16, 1954	12.16	11,800
					Dec. 30, 1954	7.88	4,790
1948	Jan. 2, 1948	7.46	4,380		Mar. 1, 1955	5.75	2,230

Peak stages and discharges of Youghiogheny River near Oakland, Md.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 5, 1955	5.81	2,290	1958	Apr. 7, 1958	5.93	2,410
	Mar. 22, 1955	6.22	2,730		May 6, 1958	5.77	2,250
	Aug. 18, 1955	6.33	2,860				
				1959	Jan. 15, 1959	5.65	2,130
1956	Jan. 30, 1956	7.77	4,650		Jan. 22, 1959	6.04	2,530
	Feb. 3, 1956	7.66	4,510		Feb. 11, 1959	5.84	2,360
	Feb. 18, 1956	6.22	2,730				
	Mar. 14, 1956	5.65	2,130	1960	Dec. 13, 1959	5.69	2,210
	May 28, 1956	9.45	7,120		Jan. 3, 1960	5.54	2,080
	Aug. 6, 1956	10.00	8,000		Jan. 15, 1960	5.78	2,300
					Mar. 31, 1960	8.84	6,180
1957	Dec. 14, 1956	6.13	2,630		Apr. 4, 1960	6.24	2,770
	Jan. 10, 1957	7.38	4,140				
	Jan. 23, 1957	6.76	3,370	1961	Feb. 19, 1961	8.34	5,450
	Jan. 29, 1957	6.07	2,570		Feb. 26, 1961	7.06	3,730
	Feb. 10, 1957	8.18	5,220		Mar. 22, 1961	6.58	3,060
					Aug. 2, 1961	5.83	2,350
1958	Dec. 8, 1957	7.04	3,710		Aug. 12, 1961	9.17	6,680
	Dec. 26, 1957	6.85	3,480				

765. Youghiogheny River at Friendsville, Md.

Location.--Lat 39°39'17", long 79°24'27", on left bank 0.6 mile upstream from bridge on State Highway 42 at Friendsville, Garrett County, and 1¼ miles upstream from Bear Creek.

Drainage area.--295 sq mi.

Gage.--Nonrecording at site 0.6 mile downstream prior to Dec. 4, 1940; recording thereafter. At datum 16.24 ft lower prior to Sept. 1, 1922, 16.29 ft lower Sept. 1, 1922, to Apr. 30, 1932, and 14.59 ft lower Jan. 31, to Dec. 3, 1940. Datum of gage is 1,487.33 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended on basis of slope-area measurement at 13,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Gage heights Sept. 1, 1922, to Sept. 30, 1926, furnished by Pennsylvania Department of Forests and Waters. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1899	May 19, 1899	10.3	8,380	1942	Apr. 10, 1942	5.48	4,480
1900	June 18, 1900	7.1	3,060	1943	Dec. 30, 1942	6.18	6,620
				1944	Mar. 24, 1944	a5.97	5,360
1901	Nov. 26, 1900	9.5	6,900	1945	Feb. 27, 1945	7.21	8,380
1902	Mar. 1, 1902	11.5	10,800				
1903	Feb. 16, 1903	9.0	6,030	1946	Jan. 7, 1946	5.22	3,720
1904	Jan. 23, 1904	9.4	6,720	1947	Mar. 15, 1947	b6.03	4,260
1905	Dec. 25, 1904	8.6	5,360	1948	Apr. 13, 1948	6.80	7,420
				1949	Dec. 16, 1948	7.97	10,400
1923	Feb. 3, 1923	11.9	11,600	1950	Jan. 31, 1950	6.11	6,280
1924	Mar. 29, 1924	14.2	15,600				
1925	Feb. 14, 1925	5.0	625	1951	Feb. 1, 1951	6.55	6,820
				1952	Jan. 27, 1952	c5.89	5,630
1926	Oct. 17, 1925	7.0	2,920	1953	Jan. 24, 1953	c5.25	3,880
1927	Jan. 21, 1927	8.75	5,690	1954	Jan. 21, 1954	4.60	2,430
1928	May 1, 1928	9.82	7,440	1955	Oct. 16, 1954	8.99	13,000
1929	Apr. 10, 1929	8.60	5,360				
1930	Oct. 2, 1929	10.0	7,810	1956	Aug. 6, 1956	8.54	11,800
				1957	Feb. 10, 1957	6.98	7,850
1931	Sept.26, 1931	7.7	3,950	1958	Dec. 26, 1957	6.08	5,730
				1959	Jan. 22, 1959	5.48	4,360
1940	Feb.11,Apr.17, 1940	8.1	7,440	1960	Mar. 30, 1960	7.36	8,760
				1961	Feb. 19, 1961	6.70	7,180
1941	June 4, 1941	6.97	7,780				

a Occurred Jan. 28; backwater from ice.
b Occurred Mar. 14; backwater from ice.
c Some regulation at peak.

775. Youghiogheny River at Youghiogheny River Dam, Pa.

Location.--Lat 39°48'20", long 79°21'50", on right bank 800 ft upstream from bridge on State Highway 281, a quarter of a mile downstream from Youghiogheny River Dam, Somerset County, a quarter of a mile south of Confluence, and 0.7 mile upstream from Casselman River.

Drainage area.--436 sq mi.

Gage.--Recording. Datum of gage is 1,310.17 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--33 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Deep Creek Reservoir and since 1943 by Youghiogheny River Reservoirs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	11.70	8,660	1951	Feb. 3, 1951	7.70	5,100
				1952	Jan. 31, 1952	8.10	5,860
1941	June 4, 1941	15.94	11,100	1953	Feb. 4, 1953	7.02	4,200
1942	Apr. 10, 1942	9.82	7,530	1954	June 18, 1954	5.35	1,880
1943	Dec. 30, 1942	-	a8,380	1955	Oct. 25, 1954	8.05	5,700
1944	Feb. 24, 1944	-	a6,400				
1945	Mar. 9, 1945	10.37	10,200	1956	June 3, 1956	7.62	5,100
				1957	Feb. 13, 1957	6.72	3,810
1946	Jan. 8, 1946	b8.88	a5,060	1958	May 9, 1958	7.80	5,400
1947	Mar. 15, 1947	8.08	5,650	1959	Mar. 18, 1959	c8.81	3,660
1948	Mar. 5, 1948	11.28	13,700	1960	Apr. 7, 1960	d10.24	5,230
1949	Jan. 30, 1949	8.42	6,340				
1950	Feb. 4, 1950	8.53	6,500	1961	Mar. 12, 1961	8.16	6,130

a Daily mean discharge. b Occurred Jan. 7, 1946; backwater from Casselman River. c Occurred Feb. 10, 1959; backwater from Casselman River. d Occurred Mar. 30, 1960; backwater from Casselman River.

780. Casselman River at Grantsville, Md.

Location.--Lat 39°42'08", long 79°08'12", on left bank at downstream side of highway bridge, 0.3 mile upstream from Slaubough Run, 0.7 mile downstream from U.S. Highway 40, and 1.0 mile northeast of Grantsville, Garrett County.

Drainage area.--62.5 sq mi.

Gage.--Recording. Altitude of gage is 2,090 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended on basis of contracted-opening measurement at 5,150 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Jan. 1, 1948	4.60	1,690	1952	Dec. 31, 1951	a4.16	1,300
	Apr. 12, 1948	5.37	2,360		Jan. 2, 1952	4.60	1,690
	July 4, 1948	8.13	5,110		Jan. 26, 1952	3.92	1,140
					Mar. 11, 1952	5.14	2,180
1949	Dec. 15, 1948	4.60	1,690				
	Jan. 26, 1949	4.13	1,250	1953	Mar. 24, 1953	3.82	1,110
					May 6, 1953	3.73	1,040
1950	Jan. 31, 1950	3.71	1,000				
	Mar. 27, 1950	4.56	1,650	1954	Mar. 1, 1954	4.50	1,610
	Sept.21, 1950	6.68	3,620				
				1955	Oct. 15, 1954	10.70	8,400
1951	Dec. 4, 1950	3.79	1,080		Dec. 30, 1954	5.16	2,190
	Dec. 7, 1950	4.21	1,370		Mar. 1, 1955	4.95	2,000
	Feb. 1, 1951	3.71	1,000		Mar. 5, 1955	5.21	2,240
	Mar. 30, 1951	3.76	1,040		Mar. 22, 1955	3.92	1,160
	June 10, 1951	4.00	1,220		June 8, 1955	4.06	1,260
	June 13, 1951	4.80	1,870		Aug. 19, 1955	3.83	1,100

a Backwater from ice.

Peak stages and discharges of Casselman River at Grantsville, Md.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Jan. 30, 1956	-	-	1959	Feb. 10, 1959	4.62	1,720
	Feb. 2, 1956	-	-				
	Feb. 18, 1956	4.21	1,380	1960	Nov. 28, 1959	3.84	1,120
	May 27, 1956	4.53	1,630		Dec. 12, 1959	3.70	1,020
	Aug. 6, 1956	6.25	3,180		Jan. 3, 1960	4.08	1,290
					Mar. 30, 1960	5.63	2,620
1957	Dec. 14, 1956	4.54	1,640		Apr. 4, 1960	4.08	1,290
	Jan. 10, 1957	4.44	1,560		May 8, 1960	4.50	1,620
	Jan. 23, 1957	4.01	1,220				
	Feb. 10, 1957	4.80	1,870	1961	Feb. 19, 1961	b6.19	1,980
					Feb. 25, 1961	6.20	3,130
1958	Dec. 26, 1957	4.38	1,510		Mar. 4, 1961	4.36	1,510
	Apr. 6, 1958	4.73	1,810		Apr. 16, 1961	4.27	1,440
	May 5, 1958	4.43	1,480				

b Occurred Feb. 18, 1961; backwater from ice.

785. Big Piney Run near Salisbury, Pa.

Location.--Lat 39°43'32", long 79°02'57", on left bank an eighth of a mile upstream from Little Piney Run, a quarter of a mile north of Maryland-Pennsylvania State line and 2½ miles southeast of Salisbury, Somerset County.

Drainage area.--24.5 sq mi.

Gage.--Recording. Altitude of gage is 2,240 cfs (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended on basis of slope-area measurements at 4,100 and 6,850 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Mar. 14, 1933	6.10	1,910	1943	Jan. 18, 1943	3.60	467
	Apr. 19, 1933	4.03	512		Apr. 19, 1943	4.10	780
	May 9, 1933	4.03	512		May 21, 1943	5.08	1,330
1934	Jan. 7, 1934	5.1	968	1944	Jan. 28, 1944	a7.20	500
					Feb. 22, 1944	a8.87	600
1935	Jan. 22, 1935	3.97	463		May 7, 1944	3.88	628
	Feb. 15, 1935	4.05	494				
				1945	Feb. 16, 1945	3.88	628
1936	Feb. 27, 1936	a6.96	850		Feb. 27, 1945	4.42	904
	Mar. 11, 1936	5.59	1,420		Mar. 3, 1945	4.37	875
	Mar. 17, 1936	7.50	4,100		Mar. 6, 1945	4.25	807
	Mar. 25, 1936	4.17	543		Sept.18, 1945	3.96	682
					Sept.23, 1945	4.19	774
1937	Oct. 17, 1936	4.29	600				
	Jan. 10, 1937	4.88	915	1946	May 27, 1946	3.72	532
	Jan. 23, 1937	4.26	578		June 2, 1946	3.68	508
	Apr. 26, 1937	7.63	4,300		June 19, 1946	4.26	813
1938	Oct. 28, 1937	6.04	1,860	1947	Mar. 14, 1947	c4.88	634
1939	Feb. 3, 1939	b5.28	578	1948	Jan. 1, 1948	3.97	689
					Feb. 14, 1948	c6.29	592
1940	Mar. 30, 1940	4.30	600		Apr. 13, 1948	4.26	813
	Aug. 27, 1940	5.69	1,510				
				1949	Jan. 26, 1949	3.61	466
1941	Apr. 5, 1941	4.58	745				
	June 4, 1941	5.38	1,260	1950	Mar. 27, 1950	4.12	796
					Sept.21, 1950	-	1,300
1942	Mar. 9, 1942	a4.60	560				
	Apr. 9, 1942	4.05	494	1951	Dec. 7, 1950	4.58	998
	May 16, 1942	4.67	1,050		Mar. 30, 1951	3.64	484
	June 5, 1942	4.03	731		June 13, 1951	4.10	780
	June 11, 1942	3.86	616				
	July 1, 1942	4.38	881	1952	Dec. 22, 1951	(a)	600
					Jan. 2, 1952	4.30	835
1943	Oct. 15, 1942	6.21	2,250		Mar. 11, 1952	5.13	1,360
	Dec. 30, 1942	4.46	927				

a Backwater from ice.
b Occurred Jan. 3, 1939; backwater from ice.
c Occurred at different time than peak discharge; backwater from ice.

Peak stages and discharges of Big Piney Run near Salisbury, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Nov. 21, 1952	3.95	675	1958	Dec. 26, 1957	3.62	509
	Jan. 24, 1953	3.78	568		Apr. 6, 1958	4.15	765
	Mar. 24, 1953	3.76	556		May 5, 1958	3.93	655
1954	Mar. 1, 1954	5.58	1,690	1959	Jan. 21, 1959	a4.02	-
	July 15, 1954	4.12	735		Feb. 10, 1959	3.58	463
1955	Oct. 15, 1954	8.56	6,850	1960	Oct. 24, 1959	3.86	599
	Dec. 30, 1954	4.40	892		Mar. 28, 1960	a5.61	-
	Mar. 5, 1955	4.46	927		Mar. 30, 1960	4.96	1,260
	Mar. 22, 1955	3.79	564		Apr. 4, 1960	3.93	655
	May 24, 1955	4.28	824		May 8, 1960	4.81	1,140
	June 8, 1955	5.64	1,740				
	Aug. 18, 1955	4.38	881	1961	Feb. 19, 1961	a6.12	750
					Feb. 25, 1961	5.18	1,400
1956	Aug. 6, 1956	4.30	835		Mar. 4, 1961	3.68	510
					Apr. 16, 1961	4.62	1,020
1957	Feb. 10, 1957	3.47	443				

a Backwater from ice.

790. Casselman River at Markleton, Pa.

Location.--Lat 39°51'35", long 79°13'40", on right bank at downstream side of highway bridge at Markleton, Somerset County, 2 miles southwest of Casselman and 7 miles downstream from Coxes Creek.

Drainage area.--382 sq mi.

Gage.--Nonrecording prior to Nov. 19, 1940; recording thereafter. Datum of gage is 1,655.29 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter and slope-area measurements, and summation of flows at nearby stations.

Bankfull stage.--21 ft.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Jan. 7, 1915	8.2	11,800	1924	May 12, 1924	8.9	14,310
	Jan. 19, 1915	7.3	8,820		June 29, 1924	8.8	13,900
	Feb. 2, 1915	8.2	11,800				
	Feb. 15, 1915	8.1	11,500	1925	Feb.12,May 11, 1925	6.5	6,320
	June 2, 1915	7.4	9,140				
1916	Dec. 18, 1915	7.3	8,820	1926	Nov. 13, 1925	7.4	9,140
	Jan. 2, 1916	8.6	13,200		Jan. 19, 1926	7.5	9,460
	Mar. 22, 1916	8.9	14,300		Feb. 22, 1926	7.4	9,140
	Mar. 27, 1916	7.5	9,460				
				1927	Jan. 21, 1927	7.2	8,500
1917	Dec. 28, 1916	7.5	9,460		June 5, 1927	7.4	9,140
	Jan. 22, 1917	10.0	19,000				
	Mar. 12, 1917	8.5	12,900	1928	Oct. 20, 1927	7.7	10,100
					Apr. 30, 1928	10.0	19,000
1918	Feb. 13, 1918	8.4	12,500				
	Feb. 20, 1918	9.2	15,400	1929	Feb.26,May 29, 1929	7.0	7,860
	Feb. 26, 1918	9.70	17,600				
1919	Jan. 2, 1919	7.8	10,500	1930	Oct. 3, 1929	7.6	9,800
1920	Nov. 26, 1919	7.8	10,500	1931	Apr. 4, 1931	7.4	9,140
	Mar. 5, 1920	7.1	8,180				
	Mar. 12, 1920	8.4	12,500	1932	Apr. 1, 1932	7.2	8,500
	Mar. 17, 1920	7.3	8,820				
	June 17, 1920	8.0	11,200	1933	Mar. 14, 1933	9.8	18,000
					May 10, 1933	8.5	12,900
1921	Mar. 3, 1921	7.5	9,460				
				1934	Jan. 7, 1934	8.1	11,500
1922	Nov. 28, 1921	7.55	9,110		Aug. 16, 1934	8.7	13,600
1923	Feb. 2, 1923	6.6	6,620	1935	Jan. 22, 1935	7.6	9,800
1924	Jan. 3, 1924	8.2	11,800	1936	Feb. 26, 1936	8.2	11,800
	Mar. 29, 1924	12.17	33,300		Mar. 12, 1936	7.8	10,500
	Apr. 6, 1924	7.7	10,100		Mar. 17, 1936	16.4	35,800

Peak stages and discharges of Casselman River at Markleton, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 10, 1937	8.3	12,200	1949	Dec. 16, 1948	7.18	8,740
	Jan. 25, 1937	7.3	8,820		Jan. 26, 1949	7.23	8,740
	Apr. 26, 1937	9.8	18,000	1950	Mar. 28, 1950	7.55	9,570
1938	Oct. 28, 1937	10.0	19,000	1951	Dec. 8, 1950	7.46	9,270
	Mar. 15, 1938	7.3	8,820		June 13, 1951	7.69	10,200
1939	Feb. 3, 1939	8.7	12,500	1952	Jan. 26, 1952	7.05	8,170
1940	Mar. 31, 1940	7.8	9,950		Mar. 11, 1952	8.54	12,800
	Apr. 20, 1940	7.4	8,880	1953	May 31, 1953	7.61	9,940
1941	Apr. 5, 1941	6.96	8,370	1954	Mar. 1, 1954	8.36	12,500
	June 5, 1941	10.24	18,700	1955	Oct. 15, 1954	14.06	50,000
1942	Mar. 9, 1942	7.35	9,520		Dec. 30, 1954	8.05	11,200
	Apr. 10, 1942	7.09	8,650		Mar. 4, 1955	8.45	12,500
1943	Oct. 15, 1942	8.18	12,000		June 8, 1955	7.30	9,030
	Dec. 30, 1942	8.42	12,600	1956	Feb. 2, 1956	7.24	8,740
1944	May 7, 1944	6.77	7,830	1957	Dec. 14, 1956	7.78	10,600
1945	Feb. 16, 1945	7.03	8,380	1958	Dec. 26, 1957	6.89	8,180
	Feb. 27, 1945	8.63	13,300		May 5, 1958	7.51	9,630
	Mar. 3, 1945	7.88	11,000	1959	Feb. 10, 1959	8.17	11,800
	Mar. 6, 1945	8.05	11,400	1960	Mar. 30, 1960	9.12	15,500
1946	June 2, 1946	7.24	8,940		May 8, 1960	7.50	9,630
1947	June 31, 1947	6.98	8,380	1961	Feb. 19, 1961	8.56	13,300
1948	Jan. 2, 1948	7.24	8,740		Feb. 25, 1961	8.91	14,600
	Apr. 13, 1948	8.16	11,800				
	July 4, 1948	7.01	8,170				

800. Laurel Hill Creek at Ursina, Pa.

Location.--Lat 39°49'15", long 79°19'15", on right bank 500 ft downstream from bridge on State Highway 53, at Ursina, Somerset County, and 2.7 miles upstream from mouth.

Drainage area.--121 sq mi.

Gage.--Nonrecording prior to July 18, 1939; recording thereafter. At bridge half a mile downstream at datum 6.20 ft lower prior to July 18, 1939. Datum of present gage is 1,335.26 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 6,100 cfs and extended on basis of slope-area measurement at 10,900 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	June 28, 1914	6.2	3,250	1920	Mar. 13, 1920	6.8	3,900
1915	Jan. 7, 1915	6.99	4,140		June 17, 1920	7.2	4,410
1916	Dec. 18, 1915	6.1	3,150	1921	Jan. 23, 1921	6.1	3,110
	Jan. 2, 1916	6.6	3,680	1922	Nov. 28, 1921	6.3	3,330
	Mar. 22, 1916	8.0	5,630		Dec. 24, 1921	6.31	3,330
1917	Jan. 22, 1917	8.2	5,970	1923	July 11, 1923	5.1	2,070
	Mar. 12, 1917	6.0	3,050	1924	Jan. 3, 1924	a7.3	-
	June 7, 1917	7.1	4,270		Feb. 22, 1924	a6.6	-
1918	Feb. 12, 1918	a6.3	-		Mar. 5, 1924	a6.8	-
	Feb. 20, 1918	8.0	5,630		Mar. 29, 1924	9.30	8,090
	Feb. 26, 1918	6.0	3,000		May 12, 1924	6.1	3,110
1919	Jan. 2, 1919	6.1	3,110		June 29, 1924	6.2	3,220
1920	Nov. 26, 1919	6.2	3,220	1925	Jan. 31, 1925	a6.0	-
					Feb. 9, 1925	a7.9	4,300

a Backwater from ice.

Peak stages and discharges of Laurel Hill Creek at Ursina, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1925	July 22, 1925	6.2	3,220
1926	Oct. 25, 1925	6.66	3,780
1927	Jan. 21, 1927	8.0	5,630
1928	Oct. 19, 1927	8.2	4,970
	Dec. 14, 1927	6.4	3,440
1929	June 28, 1929	5.15	2,170
1930	Oct. 3, 1929	7.1	4,270
1931	Apr. 4, 1931	5.76	2,780
1932	Mar. 31, 1932	5.95	3,000
1933	Mar. 14, 1933	7.5	4,860
	May 10, 1933	7.0	4,140
1934	Aug. 16, 1934	6.6	3,660
1935	May 2, 1935	6.7	3,910
	Aug. 2, 1935	6.86	4,190
1936	Feb. 27, 1936	8.4	6,570
	Mar. 12, 1936	6.1	3,150
	Mar. 17, 1936	10.28	10,300
	Aug. 30, 1936	6.6	3,780
1937	Jan. 10, 1937	6.5	3,650
	Jan. 18, 1937	6.0	3,030
	Jan. 22, 1937	6.7	3,910
	Jan. 25, 1937	6.3	3,390
	Apr. 26, 1937	7.5	5,070
1938	Oct. 28, 1937	7.6	5,230
	Dec. 16, 1937	6.3	3,390
1939	Feb. 3, 1939	7.58	4,910
1940	Feb. 11, 1940	a4.96	-
	Mar. 30, 1940	6.28	6,510
	Apr. 20, 1940	4.37	3,340
1941	Mar. 4, 1941	a4.85	-
	Apr. 5, 1941	4.34	3,260
	June 4, 1941	7.98	9,400
1942	Jan. 19, 1942	a5.69	-
	Apr. 9, 1942	4.57	3,580
1943	Dec. 30, 1942	5.81	5,660
	Aug. 13, 1943	5.20	4,640
1944	Jan. 28, 1944	a5.62	-
1944	Apr. 23, 1944	4.24	3,100
1945	Feb. 11, 1945	a6.13	-
	Feb. 27, 1945	5.60	5,320
	Mar. 3, 1945	5.43	4,980
	Mar. 6, 1945	5.96	6,000
1946	Jan. 7, 1946	4.78	3,960
	Feb. 15, 1946	a5.53	-
	June 2, 1946	5.12	4,470
	June 19, 1946	4.53	3,540
1947	Mar. 14, 1947	a5.55	-
	June 8, 1947	4.97	4,220
	July 31, 1947	5.87	5,830
1948	Jan. 2, 1948	4.58	3,620
	Feb. 14, 1948	a4.97	-
	Apr. 13, 1948	5.48	5,150
	July 4, 1948	4.63	3,700
1949	Dec. 15, 1948	4.64	3,700
	Jan. 26, 1949	4.80	3,680
	Aug. 18, 1949	5.20	4,360
1950	Apr. 24, 1950	4.31	2,900
1951	June 13, 1951	5.53	4,900
1952	Jan. 27, 1952	5.54	4,900
	Mar. 11, 1952	4.91	3,850
1953	Mar. 24, 1953	3.78	2,180
1954	Mar. 1, 1954	3.58	1,920
	Sept.15, 1954	3.62	1,920
1955	Oct. 15, 1954	10.63	10,900
	Dec. 30, 1954	5.80	4,690
	Mar. 1, 1955	5.31	4,040
	Mar. 4, 1955	6.31	5,340
1956	Feb. 3, 1956	4.60	3,130
	Aug. 6, 1956	7.04	6,250
1957	Dec. 14, 1956	4.24	2,700
1958	May 4, 1958	4.43	2,940
1959	Feb. 10, 1959	5.48	4,300
1960	Mar. 31, 1960	5.42	4,170
1961	Feb. 19, 1961	4.73	3,260
	Feb. 25, 1961	6.12	5,080

a Backwater from ice.

810. Youghiogheny River below Confluence, Pa.

Location.--Lat 39°49'40", long 79°22'25", on left bank 1.0 mile downstream from Casselman River and 1½ miles downstream from Confluence, Somerset County.

Drainage area.--1,029 sq mi.

Gage.--Recording. Datum of gage is 1,302.77 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs and extended on basis of slope-area measurement at 69,500 cfs.

Bankfull stage.--25 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Deep Creek Reservoir and since 1943 by Youghiogheny River Reservoir.

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Peak stages and discharges of Youghiogheny River below Confluence, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	21.6	85,000	1951	June 13, 1951	9.94	16,200
				1952	Mar. 11, 1952	10.69	18,900
1941	June 4, 1941	16.42	43,800	1953	May 31, 1953	8.22	11,400
1942	Apr. 10, 1942	10.45	17,800	1954	Mar. 1, 1954	9.30	14,400
1943	Dec. 30, 1942	12.17	24,500	1955	Oct. 15, 1954	19.92	69,500
1944	Mar. 25, 1944	9.18	14,100				
1945	Feb. 27, 1945	11.50	21,700	1956	Aug. 6, 1956	9.82	15,900
				1957	Dec. 14, 1956	9.49	15,000
1946	Jan. 7, 1946	9.67	15,600	1958	May 5, 1958	9.53	15,000
1947	July 31, 1947	8.98	13,600	1959	Feb. 10, 1959	10.21	17,200
1948	Apr. 13, 1948	10.50	18,200	1960	Mar. 30, 1960	11.91	23,300
1949	Jan. 26, 1949	9.00	13,600				
1950	Mar. 28, 1950	8.99	13,600	1961	Feb. 26, 1961	11.45	21,300

815. Youghiogheny River at Ohiopyle, Pa.

Location.--Lat 39°52'15", long 79°29'51", at steel highway bridge in Ohiopyle, Fayette County, 0.6 mile upstream from Beaver Creek.

Drainage area.--1,062 sq mi.

Gage.--Recording. Datum of gage is 1,198.91 ft above mean sea level, unadjusted (furnished by West Penn Power Co.).

Stage-discharge relation.--Defined by current-meter measurements below 15,100 cfs and extended by velocity-area studies.

Remarks.--Only annual peaks are shown. Flow regulated by Deep Creek Reservoir and since 1943 by Youghiogheny River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 1, 1928	8.23	32,300	1940	Mar. 31, 1940	7.79	27,400
1929	Feb. 27, 1929	6.28	18,100				
1930	Oct. 3, 1929	7.33	25,200	1941	June 5, 1941	9.34	40,400
				1942	Apr. 10, 1942	6.69	19,400
1931	Apr. 4, 1931	6.27	16,700	1943	Dec. 30, 1942	7.72	26,600
1932	Apr. 1, 1932	7.11	22,200	1944	Mar. 25, 1944	6.02	15,200
1933	Mar. 14, 1933	8.94	36,800	1945	Feb. 27, 1945	-	24,400
1934	Jan. 7, 1934	7.03	21,800				
1935	Jan. 22, 1935	7.18	22,900	1946	Jan. 7, 1946	6.34	17,300
				1947	July 31, 1947	5.71	13,400
1936	Mar. 18, 1936	13.30	82,100	1948	Apr. 13, 1948	6.70	19,400
1937	Apr. 26, 1937	10.74	54,200	1949	Jan. 26, 1949	5.92	14,600
1938	Oct. 28, 1937	8.88	36,300	1950	Mar. 28, 1950	5.86	14,300
1939	Feb. 3, 1939	8.15	30,100				

825. Youghiogheny River at Connellsville, Pa.

Location.--Lat 40°01'05", long 79°35'40", on left bank at downstream side of Crawford Avenue Bridge in Connellsville, Fayette County, three-quarters of a mile upstream from Mounts Creek.

Drainage area.--1,326 sq mi.

Gage.--Nonrecording prior to Aug. 15, 1928; recording thereafter. At site 0.4 mile downstream at different datum July 8, 1958, to Sept. 8, 1959. Datum of gage is 860.13 ft above mean sea level (Baltimore & Ohio RR. bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 55,000 cfs and extended by logarithmic plotting.

Bankfull stage.--16 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Reservoir. Gage-height records prior to 1907 from U.S. Weather Bureau.

Peak stages and discharges of Youghiogheny River at Connellsville, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1860	Apr. 12, 1860	16.5	47,000	1926	Feb. 23, 1926	10.4	23,000
				1927	Jan. 22, 1927	11.8	29,100
1888	Aug. 21, 1888	17.8	52,000	1928	May 1, 1928	13.7	39,000
				1929	Feb. 27, 1929	10.17	19,200
1891	Feb. 17, 1891	14.7	39,900	1930	Oct. 3, 1929	12.0	30,700
1892	Jan. 15, 1892	10.2	22,400				
1893	Feb. 11, 1893	9.8	20,800	1931	Apr. 4, 1931	9.95	21,400
1894	Feb. 10, 1894	8.9	17,400	1932	Apr. 1, 1932	11.00	25,900
1895	Jan. 8, 1895	12.0	29,400	1933	Mar. 14, 1933	14.9	46,900
				1934	Mar. 4, 1934	10.77	25,000
1896	July 25, 1896	15.0	41,100	1935	Jan. 22, 1935	10.83	25,000
1897	Feb. 23, 1897	16.7	47,700				
1898	Aug. 11, 1898	11.2	26,300	1936	Mar. 18, 1936	20.28	92,500
1899	May 18, 1899	13.0	33,300	1937	Apr. 26, 1937	15.87	55,100
				1938	Oct. 28, 1937	14.35	44,600
1901	Nov. 26, 1900	11.7	28,200	1939	Feb. 3, 1939	13.37	38,200
1902	Feb. 28, 1902	15.8	44,200	1940	Mar. 31, 1940	13.16	37,000
1903	Feb. 28, 1903	12.7	32,100				
1904	Mar. 1, 1904	13.7	36,000	1941	June 5, 1941	17.02	63,600
1905	Mar. 21, 1905	12.0	29,400	1942	Mar. 9, 1942	10.62	23,700
				1943	Dec. 30, 1942	12.80	34,800
1906	Jan. 23, 1906	10.9	25,100	1944	Mar. 25, 1944	9.20	17,900
1907	Mar. 14, 1907	18.4	54,400	1945	Feb. 27, 1945	12.42	32,600
1908	Feb. 15, 1908	14.4	44,600				
1909	Feb. 24, 1909	9.36	19,100	1946	June 2, 1946	10.7	24,200
1910	June 19, 1910	13.09	36,300	1947	July 31, 1947	8.75	16,400
				1948	Apr. 13, 1948	11.40	27,900
1911	Jan. 14, 1911	12.68	33,900	1949	Jan. 26, 1949	9.81	20,300
1912	Mar. 21, 1912	17.28	66,000	1950	Mar. 28, 1950	8.94	16,700
1913	Jan. 8, 1913	13.50	38,800				
1914	Nov. 16, 1913	11.50	27,400	1951	June 13, 1951	10.62	23,700
1915	Jan. 7, 1915	12.13	31,100	1952	Jan.27,Mar.11, 1952	10.64	23,700
1916	Mar. 22, 1916	15.0	48,700	1953	Mar. 24, 1953	7.94	12,800
1917	Jan. 22, 1917	15.2	50,000	1954	Mar. 1, 1954	9.21	17,900
1918	Feb. 20, 1918	14.0	42,000	1955	Oct. 16, 1954	21.96	103,000
1919	Jan. 1, 1919	11.51	27,700				
1920	Mar. 13, 1920	12.13	30,000	1956	Aug. 6, 1956	13.98	42,400
				1957	Dec. 14, 1956	10.18	21,900
1921	Mar. 3, 1921	10.1	22,400	1958	May 6, 1958	9.72	19,900
1922	Dec. 24, 1921	11.5	27,700	1959	Feb. 11, 1959	9.45	18,200
1923	Feb. 2, 1923	8.9	18,000	1960	Mar. 31, 1960	12.82	35,200
1924	Mar. 29, 1924	20.5	84,000				
1925	May 10, 1925	9.70	20,900	1961	Feb. 26, 1961	12.02	30,400

830. Green Lick Run at Green Lick Reservoir, Pa.

Location.--Lat 40°06'20", long 79°30'05", on left bank at upstream end of Green Lick Reservoir, Fayette County, 1.3 miles upstream from Latter Run and 2½ miles southeast of Mount Pleasant.

Drainage area.--3.07 sq mi.

Gage.--Recording. Datum of gage is 1,254.7 ft above mean sea level (Pennsylvania RR. bench mark).

Stage-discharge relation.--Defined by current-meter measurements. Maximum discharge of record determined by slope-area measurement.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 130 cfs. Only annual peaks are shown prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 26, 1929	2.21	126	1934	Mar. 3, 1934	2.44	186
1930	Oct. 2, 1929	2.69	266	1935	Aug. 2, 1935	2.85	332
1931	May 7, 1931	2.77	298	1936	Mar. 17, 1936	3.18	508
1932	Mar. 31, 1932	2.32	153	1937	Apr. 25, 1937	2.46	191
1933	Mar. 13, 1933	2.67	260	1938	July 18, 1938	3.21	526

Peak stages and discharges of Green Lick Run at Green Lick Reservoir, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 3, 1939	2.40	174	1951	Apr. 29, 1951	2.49	200
1940	Mar. 30, 1940	2.73	282		June 13, 1951	2.70	270
1941	June 4, 1941	3.20	520	1952	Jan. 27, 1952	2.50	203
					May 25, 1952	2.61	238
1942	Mar. 9, 1942	2.72	278		June 22, 1952	2.28	143
	Aug. 28, 1942	2.24	134				
				1953	May 6, 1953	2.32	153
1943	Dec. 29, 1942	2.48	197				
	Aug. 13, 1943	a5.1	1,400	1954	Aug. 16, 1954	3.11	466
1944	May 24, 1944	a5.42	590	1955	Oct. 15, 1954	5.06	860
					Dec. 29, 1954	2.52	209
1945	Dec. 25, 1944	2.53	213		Mar. 1, 1955	2.31	151
	Feb. 27, 1945	2.28	143		June 8, 1955	2.58	229
	Mar. 6, 1945	2.54	216				
				1956	Jan. 30, 1956	2.26	138
1946	June 2, 1946	2.40	174		Feb. 2, 1956	2.25	136
	July 1, 1946	3.24	546		Mar. 7, 1956	2.54	216
					Apr. 3, 1956	2.40	174
1947	June 7, 1947	2.70	270		Aug. 5, 1956	2.83	324
	July 31, 1947	2.68	263		Sept. 6, 1956	2.73	282
1948	Feb. 14, 1948	2.36	164	1957	Apr. 18, 1957	1.93	74
	Apr. 12, 1948	2.40	174				
	July 4, 1948	2.33	156	1958	May 3, 1958	2.10	103
1949	Aug. 18, 1949	2.66	256	1959	Feb. 10, 1959	2.38	169
1950	Dec. 12, 1949	2.34	158	1960	Mar. 29, 1960	2.26	138
	Jan. 6, 1950	2.43	183		June 22, 1960	2.68	256
1951	Dec. 3, 1950	2.30	148	1961	Feb. 18, 1961	2.32	153
	Feb. 1, 1951	2.42	180		Apr. 25, 1961	2.47	194

a Backwater from debris.

835. Youghiogheny River at Sutersville, Pa.

Location.--Lat 40°14'25", long 79°48'25", on left bank 500 ft upstream from highway bridge at Sutersville, Westmoreland County, and 2.1 miles downstream from Sewickley Creek.

Drainage area.--1,715 sq mi.

Gage.--Nonrecording prior to May 31, 1939; recording thereafter. At site 500 ft downstream at same datum prior to May 31, 1939. Datum of gage is 733.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--20 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 3, 1921	12.8	22,000	1936	Mar. 18, 1936	30.65	100,000
1922	Nov. 29, 1921	19.1	47,200	1937	Apr. 26, 1937	22.8	59,000
1923	Feb. 14, 1923	11.4	17,600	1938	Oct. 29, 1937	20.3	49,000
1924	Mar. 30, 1924	28.0	80,800	1939	Feb. 4, 1939	18.5	42,000
1925	Feb. 8, 1925	12.26	20,400	1940	Mar. 31, 1940	18.40	41,600
1926	Feb. 23, 1926	12.5	21,100	1941	June 5, 1941	27.34	78,000
1927	Jan. 22, 1927	14.50	28,500	1942	Apr. 10, 1942	14.46	29,400
1928	Oct. 20, 1927	18.50	45,000	1943	Dec. 30, 1942	19.86	49,500
1929	Feb. 27, 1929	12.17	20,500	1944	Mar. 24, 1944	12.15	21,800
1930	Oct. 3, 1929	16.9	36,200	1945	Mar. 7, 1945	18.84	45,300
1931	Apr. 4, 1931	14.0	26,700	1946	June 2, 1946	14.61	29,900
1932	Apr. 1, 1932	15.3	31,500	1947	June 8, 1947	11.59	20,000
1933	Mar. 14, 1933	21.06	56,900	1948	Apr. 14, 1948	17.13	36,800
1934	Mar. 4, 1934	23.0	31,000	1949	Jan. 27, 1949	13.38	24,300
1935	Jan. 22, 1935	15.3	30,800	1950	Jan. 7, 1950	11.43	18,100

Peak stages and discharges of Youghiogheny River at Sutersville, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 14, 1951	14.99	29,500	1957	Dec. 15, 1956	13.18	23,400
1952	Jan. 27, 1952	16.07	33,200	1958	May 6, 1958	12.66	21,900
1953	Mar. 24, 1953	10.44	15,300	1959	Feb. 11, 1959	14.53	27,600
1954	Mar. 2, 1954	12.02	19,900	1960	Mar. 31, 1960	17.60	38,400
1955	Oct. 16, 1954	32.5	108,000	1961	Feb. 26, 1961	15.63	31,200
1956	Aug. 6, 1956	21.30	52,800				

840. Abers Creek near Murrysville, Pa.

Location.--Lat 40°27'01", long 79°42'50", on right bank at downstream side of highway bridge, 30 ft upstream from small tributary, 2 miles northwest of Murrysville, Westmoreland County, and 5¼ miles northwest of Export.

Drainage area.--4.39 sq mi.

Gage.--Recording. At site 800 ft upstream at different datum prior to Oct. 1, 1950. Datum of gage is 936.73 ft above mean sea level (Pennsylvania Department of Highways bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and extended above by contracted-opening determination of peak flow at 1,600 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 5, 1949	2.41	135	1956	Feb. 25, 1956	5.40	500
					July 21, 1956	4.70	310
1950	June 3, 1950	3.19	272		Aug. 5, 1956	4.27	224
	June 25, 1950	3.24	283				
	July 5, 1950	6.09	1,600	1957	Apr. 4, 1957	4.28	226
					Apr. 5, 1957	4.74	322
1951	Dec. 3, 1950	4.51	274				
	Jan. 15, 1951	5.32	490	1958	July 22, 1958	4.72	320
	May 17, 1951	4.88	372		Aug. 1, 1958	4.40	260
	June 13, 1951	5.14	445				
	July 22, 1951	4.28	231	1959	Aug. 28, 1959	6.98	1,100
					Aug. 30, 1959	4.12	215
1952	Jan. 26, 1952	4.94	386				
	Mar. 11, 1952	4.22	221	1960	Oct. 8, 1959	3.33	108
	June 22, 1952	6.59	1,000				
				1961	Apr. 25, 1961	4.13	222
1953	July 5, 1953	4.67	308		July 17, 1961	4.63	310
					July 25, 1961	4.10	215
1954	Apr. 16, 1954	4.29	226		July 29, 1961	4.62	300
1955	Oct. 15, 1954	6.68	950				

845. Turtle Creek at Trafford, Pa.

Location.--Lat 40°23'15", long 79°45'55", at Trafford, Westmoreland County, 500 ft upstream from Brush Creek and 5.8 miles upstream from mouth.

Drainage area.--55.9 sq mi.

Gage.--Nonrecording prior to Nov. 12, 1938; recording Nov. 13, 1938, to Sept. 2, 1946; nonrecording Sept. 3, 1946, to Nov. 12, 1947; recording thereafter. At site 1 mile upstream at different datum prior to Oct. 1, 1938. Oct. 1, 1938, to Sept. 2, 1946, gage at present site and datum; Sept. 3, 1946, to Nov. 12, 1947, gage at site 50 ft downstream at datum 4.0 ft lower. Datum of gage is 765.08 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended on basis of slope-area measurement at 5,200 cfs. Peak discharge of Oct. 15, 1954, from slope-area measurement 1.2 miles upstream.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 22, 1917	4.5	1,530	1935	Feb. 26, 1935	4.1	1,270
					Mar. 12, 1935	4.1	1,270
1918	Oct. 19, 1917	4.6	1,590		Aug. 3, 1935	6.98	3,220
	Feb. 11, 1918	4.2	1,350				
				1936	Jan. 9, 1936	4.0	1,210
1919	July 15, 1919	7.10	3,280		Feb. 25, 1936	7.0	3,220
					Mar. 17, 1936	7.65	3,700
1920	Nov. 26, 1919	6.6	2,930				
	June 17, 1920	4.9	1,770	1937	Oct. 10, 1936	5.0	1,830
					Nov. 4, 1936	5.2	1,950
1921	Mar. 6, 1921	3.3	860		Jan. 15, 1937	6.0	2,150
					Jan. 18, 1937	4.5	1,530
1922	Nov. 28, 1921	4.8	1,710		Jan. 22, 1937	5.8	2,370
					Jan. 24, 1937	5.4	2,090
1923	May 12, 1923	5.2	1,950		Apr. 25, 1937	5.9	2,440
					July 16, 1937	4.8	1,710
1924	Jan. 3, 1924	4.4	1,470				
	May 12, 1924	4.2	1,350	1938	Dec. 17, 1937	4.5	1,530
	June 29, 1924	6.2	2,650				
				1939	Jan. 30, 1939	5.37	1,360
1925	Feb. 7, 1925	-	a800				
				1940	Mar. 4, 1940	5.19	1,245
1926	Jan. 18, 1926	4.2	1,350		Mar. 30, 1940	5.40	1,385
	Feb. 14, 1926	4.0	1,230		Apr. 3, 1940	5.23	1,290
	Feb. 25, 1926	4.0	1,230		Apr. 20, 1940	6.65	2,380
	Sept. 5, 1926	5.4	2,090		May 31, 1940	5.46	1,420
					Aug. 6, 1940	5.33	1,360
1927	Feb. 25, 1927	5.0	1,830				
	Mar. 20, 1927	4.0	1,230	1941	June 5, 1941	5.31	1,320
					Aug. 15, 1941	5.62	1,540
1928	Oct. 19, 1927	-	b2,200		Aug. 26, 1941	6.31	2,110
	Nov. 28, 1927	-	b1,400				
	Dec. 14, 1927	-	b1,400	1942	Mar. 9, 1942	5.40	1,390
	Mar. 30, 1928	5.4	2,090		Apr. 9, 1942	6.85	2,570
	July 5, 1928	6.4	2,790				
	July 13, 1928	5.6	2,230	1943	Oct. 15, 1942	5.70	1,610
					Nov. 1, 1942	5.45	1,420
1929	Feb. 26, 1929	6.8	3,070		Dec. 30, 1942	8.20	4,040
	Apr. 16, 1929	4.4	1,470		May 25, 1943	5.68	1,610
					July 22, 1943	5.67	1,570
1930	Feb. 26, 1930	5.00	1,830		July 28, 1943	6.25	2,080
1931	Apr. 3, 1931	5.4	2,090	1944	Mar. 12, 1944	5.19	1,260
	June 23, 1931	4.2	1,330				
				1945	Jan. 1, 1945	5.15	1,220
1932	Dec. 24, 1931	3.8	1,090		Mar. 6, 1945	6.73	2,480
1933	Jan. 26, 1933	4.3	1,390	1946	Mar. 15, 1946	5.42	1,390
	Mar. 15, 1933	8.5	4,420		May 27, 1946	10.05	5,200
	Apr. 12, 1933	5.0	1,810		June 2, 1946	6.73	1,630
	May 10, 1933	7.2	3,380				
	May 14, 1933	4.7	1,630	1947	June 8, 1947	6.40	1,520
	July 24, 1933	5.8	2,370				
	Aug. 10, 1933	4.7	1,630	1948	Feb. 14, 1948	6.62	2,200
					Apr. 12, 1948	6.84	2,430
1934	Mar. 4, 1934	4.4	1,450		Apr. 14, 1948	6.98	2,580
	Apr. 4, 1934	4.1	1,270		June 13, 1948	5.77	1,450
	Aug. 9, 1934	6.0	2,510		June 26, 1948	6.72	2,280
	Aug. 11, 1934	4.9	1,750				
	Sept.29, 1934	4.8	1,690	1949	Dec. 15, 1948	5.23	1,040

a Estimated maximum discharge.
b Daily mean discharge.

Peak stages and discharges of Turtle Creek at Trafford, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 6, 1950	5.52	1,230	1951	June 13, 1951	6.64	2,230
	June 3, 1950	6.13	1,770		June 28, 1951	6.43	2,040
	June 25, 1950	7.33	2,860		July 23, 1951	5.60	1,310
	July 5, 1950	9.21	4,430				
				1952	Dec. 21, 1951	6.44	1,230
1951	Dec. 3, 1950	6.99	2,580		Jan. 26, 1952	8.29	2,670
	Dec. 8, 1950	5.70	1,390		Feb. 4, 1952	6.79	1,470
	Jan. 15, 1951	7.56	3,140		Apr. 13, 1952	6.46	1,230
	Feb. 1, 1951	6.30	1,900		June 22, 1952	7.33	1,880
	Feb. 7, 1951	5.65	1,350				
	Mar. 7, 1951	5.53	1,270	1955	Oct. 15, 1954	-	7,360
	June 10, 1951	5.88	1,560				

850. Monongahela River at Braddock, Pa.

Location.--Lat 40°23'30", long 79°51'30", near right bank on river guide wall 380 ft upstream from dam at lock 2, at Braddock, Allegheny County, 1,700 ft downstream from Turtle Creek, and 11.2 miles upstream from confluence with Allegheny River.

Drainage area.--7,337 sq mi.

Gage.--Recording. At site 700 ft upstream at same datum prior to Aug. 13, 1951. Datum of gage is 707.16 ft above mean sea level, adjustment of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--26 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	38.8	210,000	1950	Feb. 1, 1950	23.07	102,000
1939	Feb. 4, 1939	27.2	147,000	1951	Feb. 2, 1951	25.3	129,000
1940	Apr. 20, 1940	23.86	115,000	1952	Jan. 28, 1952	23.09	118,000
				1953	May 8, 1953	20.16	68,500
1941	June 5, 1941	31.20	201,000	1954	Mar. 2, 1954	18.43	46,100
1942	Apr. 10, 1942	21.23	81,800	1955	Oct. 16, 1954	30.63	200,000
1943	Dec. 30, 1942	29.96	170,000				
1944	Mar. 24, 1944	21.18	81,800	1956	Aug. 6, 1956	26.57	164,000
1945	Mar. 7, 1945	27.22	134,000	1957	Feb. 11, 1957	22.34	112,000
				1958	May 6, 1958	21.24	84,900
1946	June 3, 1946	22.42	96,200	1959	Jan. 23, 1959	21.15	84,900
1947	Mar. 15, 1947	19.21	53,900	1960	Mar. 31, 1960	22.25	108,000
1948	Apr. 14, 1948	26.22	144,000				
1949	Dec. 16, 1948	24.99	130,000	1961	Feb. 20, 1961	20.94	80,200

CHARTIERS CREEK BASIN

855. Chartiers Creek at Carnegie, Pa.

Location.--Lat 40°24'00", long 80°05'55", on right bank 200 ft upstream from highway bridge at Carnegie, Allegheny County, 0.2 mile downstream from Robinson Run, and 9.0 miles upstream from mouth.

Drainage area.--257 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1933; recording thereafter. At site half a mile downstream at different datum prior to Dec. 15, 1931. Jan. 8, 1932, to Oct. 26, 1936, at site 1 mile downstream at different datum. Datum of present gage is 762.03 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (Pennsylvania RR. bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--15 ft.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges of Chartiers Creek at Carnegie, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	10.0	5,400
	Feb. 25, 1916	7.2	2,860
	Mar. 7, 1916	7.4	3,020
	Mar. 22, 1916	11.1	6,510
1917	Jan. 5, 1917	6.9	2,630
	Jan. 22, 1917	a12.0	-
	Mar. 11, 1917	7.6	3,180
1918	Feb. 9, 1918	a10.5	-
	Feb. 20, 1918	7.2	2,860
	Feb. 26, 1918	7.4	3,020
1919	Jan. 2, 1919	7.0	2,700
	July 15, 1919	8.2	3,680
1920	Nov. 2, 1919	8.5	3,950
	Nov. 27, 1919	12.3	7,860
	Dec. 9, 1919	7.9	3,420
	Dec. 13, 1919	7.5	3,100
	Jan. 9, 1920	6.9	2,630
	Jan. 21, 1920	8.1	3,590
	Apr. 21, 1920	6.8	2,560
	June 17, 1920	16.1	12,800
1921	Mar. 7, 1921	8.5	3,950
	Sept.21, 1921	11.5	6,950
1922	Nov. 28, 1921	7.9	3,420
	Dec. 24, 1921	8.5	3,950
	Apr. 1, 1922	9.61	5,000
	Apr. 15, 1922	9.2	4,600
1923	Apr. 14, 1923	7.1	2,780
	May 13, 1923	8.5	3,950
1924	Dec. 23, 1923	9.0	4,400
	Jan. 3, 1924	9.9	5,300
	Jan. 11, 1924	7.4	3,020
	Jan. 16, 1924	9.1	4,500
	Mar. 5, 1924	7.6	3,180
	Mar. 29, 1924	10.0	5,400
	May 12, 1924	8.8	4,220
	June 29, 1924	10.2	5,600
	Sept.29, 1924	7.9	3,420
1925	Feb. 7, 1925	6.0	2,050
1926	Feb. 15, 1926	8.8	4,220
	Feb. 19, 1926	8.9	4,310
	Feb. 25, 1926	8.6	4,040
	Sept. 5, 1926	11.3	6,560
1927	Nov. 16, 1926	10.5	5,650
	Jan. 22, 1927	8.7	3,810
	Feb. 24, 1927	7.2	2,540
	Mar. 21, 1927	8.2	3,360
	June 5, 1927	9.9	4,990
1928	Nov. 17, 1927	9.8	4,880
	Nov. 28, 1927	7.6	2,860
	Dec. 16, 1927	9.8	4,880
	Feb. 15, 1928	8.0	3,180
	Mar. 30, 1928	11.0	6,200
	June 22, 1928	12.22	7,660
	July 5, 1928	8.1	3,270
	July 14, 1928	10.8	5,980
	July 21, 1928	9.0	4,080
1929	Feb. 26, 1929	12.20	7,660
	Apr. 17, 1929	7.2	2,540
1930	Nov. 18, 1929	9.2	4,280
	Feb. 26, 1930	7.6	2,860
1931	Apr. 4, 1931	10.03	5,100
1932	Jan. 30, 1932	4.8	2,390
1933	Jan. 26, 1933	5.6	3,010
	Mar. 15, 1933	10.0	8,200
	Mar. 21, 1933	6.7	4,150
	Apr. 12, 1933	7.0	4,480
	May 10, 1933	6.7	4,150
1936	Mar. 17, 1936	11.0	b9,600
1941	June 5, 1941	6.85	3,090
1942	Mar. 9, 1942	8.17	4,380
	Mar. 17, 1942	8.00	4,180
	Apr. 9, 1942	11.00	7,380
1943	Dec. 30, 1942	12.30	8,700
	Apr. 20, 1943	6.20	2,580
	July 28, 1943	11.14	7,020
1944	Mar. 7, 1944	8.88	4,850
	Mar. 24, 1944	7.18	3,230
1945	Jan. 1, 1945	8.48	4,450
	Feb. 14, 1945	7.02	3,050
	Feb. 22, 1945	7.16	3,230
	Mar. 3, 1945	7.10	3,140
	Mar. 6, 1945	13.49	12,200
	May 17, 1945	8.89	4,920
1946	May 27, 1946	6.14	2,270
1947	June 8, 1947	8.33	4,280
1948	Feb. 14, 1948	7.00	3,050
	Apr. 14, 1948	8.94	4,920
	June 12, 1948	6.81	2,870
1949	Dec. 16, 1948	6.86	2,960
	Jan. 28, 1949	6.57	2,690
1950	Jan. 7, 1950	6.73	2,780
	Mar. 23, 1950	6.67	2,780
	June 25, 1950	8.39	4,160
	July 5, 1950	9.41	5,100
	Sept.22, 1950	7.10	3,030
1951	Nov. 4, 1950	7.15	3,110
	Dec. 4, 1950	11.31	7,160
	Dec. 8, 1950	8.82	4,520
	Jan. 15, 1951	10.80	6,560
	Feb. 1, 1951	7.52	3,350
	Feb. 7, 1951	6.95	2,950
	Mar. 7, 1951	7.15	3,110
	Apr. 29, 1951	6.81	2,790
	June 25, 1951	6.55	2,650
	June 28, 1951	6.85	2,810
1952	Jan. 27, 1952	10.33	6,000
	Feb. 5, 1952	7.18	3,110
1953	May 7, 1953	7.07	3,030
1954	June 16, 1954	8.08	3,890
1955	Oct. 16, 1954	11.55	7,520
	Feb. 7, 1955	7.64	3,340
	Mar. 4, 1955	9.15	4,900
	Aug. 13, 1955	7.77	3,520
1956	Nov. 16, 1955	7.88	3,610
	Feb. 7, 1956	7.43	3,160
	Feb. 18, 1956	6.87	2,720
	Feb. 25, 1956	8.84	4,500
	Mar. 8, 1956	8.59	4,300
	June 19, 1956	7.46	3,250
	June 25, 1956	7.52	3,250
	Aug. 6, 1956	16.37	13,500
1957	Apr. 4, 1957	10.74	5,630
1958	May 4, 1958	6.28	2,770
	Aug. 4, 1958	7.77	3,820
1959	Jan. 22, 1959	10.30	6,250
	Feb. 10, 1959	7.76	3,820
1960	Mar. 31, 1960	5.6	2,070
1961	Feb. 19, 1961	6.30	2,590
	Apr. 26, 1961	11.23	7,180

a Backwater from ice.
b Annual peak only.

860. Ohio River at Sewickley, Pa.

Location.--Lat 40°31'50", long 80°11'20", on left bank 200 ft upstream from highway bridge at Sewickley, Allegheny County, 0.5 mile upstream from Narrows Run, 1.5 miles upstream from Dashields Dam, and 11.8 miles downstream from confluence of Allegheny and Monongahela Rivers.

Drainage area.--19,500 sq mi.

Gage.--Nonrecording prior to Nov. 22, 1933; recording thereafter. Datum of gage is 690.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 6, 1934	12.51	202,000	1948	Apr. 15, 1948	19.89	277,000
1935	Mar. 13, 1935	15.7	225,000	1949	Dec. 17, 1948	13.11	189,000
				1950	Mar. 29, 1950	11.86	172,000
1936	Mar. 18, 1936	34.75	574,000				
1937	Apr. 27, 1937	23.93	334,000	1951	Dec. 5, 1950	18.58	259,000
1938	Dec. 19, 1937	17.07	242,000	1952	Jan. 28, 1952	20.27	282,000
1939	Feb. 4, 1939	15.50	222,000	1953	June 1, 1953	9.80	137,000
1940	Apr. 21, 1940	18.73	262,000	1954	Mar. 4, 1954	9.75	137,000
				1955	Oct. 16, 1954	22.76	318,000
1941	June 5, 1941	16.68	234,000				
1942	Mar. 10, 1942	13.54	194,000	1956	Mar. 9, 1956	16.34	230,000
1943	Dec. 31, 1942	27.39	400,000	1957	Feb. 11, 1957	12.86	168,000
1944	Mar. 18, 1944	10.95	159,000	1958	May 9, 1958	10.54	152,000
1945	Mar. 7, 1945	23.61	331,000	1959	Jan. 23, 1959	19.67	274,000
				1960	Apr. 1, 1960	17.62	246,000
1946	June 3, 1946	13.57	195,000				
1947	Apr. 7, 1947	10.68	155,000	1961	Feb. 27, 1961	12.48	180,000

BEAVER RIVER BASIN

865. Mahoning River at Alliance, Ohio

Location.--Lat 40°55'55", long 81°05'45", at Webb Avenue Bridge in Alliance, Stark County, 0.2 mile upstream from waterworks dam and 4 miles upstream from Beech Creek.

Drainage area.--87.9 sq mi.

Gage.--Recording. Datum of gage is 1,037.3 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,310 cfs and extended on basis of flow-over-dam measurement at 9,740 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 6, 1942	3.64	1,160	1945	Feb. 27, 1945	3.40	990
	Feb. 17, 1942	3.99	1,420		Mar. 3, 1945	3.95	1,380
	Mar. 9, 1942	3.67	1,160		Mar. 7, 1945	5.32	2,720
	Mar. 14, 1942	4.25	1,640		Mar. 22, 1945	3.78	1,270
	Apr. 10, 1942	4.33	1,720		May 18, 1945	3.91	1,340
1943	Dec. 27, 1942	3.7	1,200	1946	Feb. 27, 1946	5.85	3,320
	Dec. 30, 1942	5.5	2,960		May 27, 1946	7.90	7,000
	Feb. 11, 1943	3.6	1,130				
	Mar. 17, 1943	4.2	1,590	1947	Jan. 21, 1947	3.58	1,130
	Mar. 20, 1943	3.65	1,160		Jan. 31, 1947	4.29	1,680
	Apr. 20, 1943	3.6	1,130		Apr. 5, 1947	3.33	955
					June 7, 1947	5.89	3,440
1944	Mar. 7, 1944	3.33	955				
				1948	Feb. 14, 1948	5.50	2,960
1945	Feb. 16, 1945	3.97	1,380		Mar. 20, 1948	3.87	1,300
	Feb. 22, 1945	4.77	2,120		Apr. 12, 1948	4.06	1,460

Peak stages and discharges of Mahoning River at Alliance, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 14, 1948	4.11	1,500	1955	Mar. 1, 1955	3.57	1,100
	May 5, 1948	4.24	1,640		Mar. 5, 1955	3.80	1,270
	Aug. 13, 1948	4.60	1,960		Mar. 11, 1955	3.50	1,060
					Mar. 22, 1955	3.61	1,130
1949	Dec. 16, 1948	4.54	1,910		Apr. 20, 1955	4.17	1,540
	Jan. 28, 1949	4.04	1,460				
				1956	Feb. 7, 1956	4.22	1,590
1950	Jan. 11, 1950	3.58	1,130		Feb. 12, 1956	3.55	1,100
	Feb. 14, 1950	4.27	1,640		Feb. 25, 1956	6.33	3,960
	Feb. 23, 1950	3.53	1,100		Mar. 8, 1956	4.24	1,640
	Mar. 23, 1950	3.46	1,020		May 7, 1956	4.34	1,720
	Apr. 5, 1950	3.33	955		May 12, 1956	5.95	3,560
	June 25, 1950	5.90	3,440		May 28, 1956	3.40	990
					Aug. 6, 1956	4.33	1,720
1951	Dec. 3, 1950	5.65	3,080				
	Dec. 8, 1950	3.38	990	1957	Jan. 23, 1957	3.76	1,240
	Jan. 4, 1951	4.87	2,220		Apr. 5, 1957	5.72	3,200
	Jan. 15, 1951	3.62	1,130		Apr. 9, 1957	4.04	1,460
	Feb. 12, 1951	4.37	1,720		July 9, 1957	4.03	1,460
	Feb. 21, 1951	4.14	1,540				
	Mar. 4, 1951	3.90	1,340	1958	Apr. 30, 1958	3.32	920
	Mar. 19, 1951	3.78	1,270		May 5, 1958	3.42	990
	Mar. 31, 1951	3.81	1,270		July 12, 1958	3.42	990
					Aug. 1, 1958	7.80	6,760
1952	Jan. 1, 1952	3.36	955				
	Jan. 18, 1952	4.27	1,640	1959	Jan. 21, 1959	9.11	9,740
	Jan. 27, 1952	6.83	4,730		Feb. 10, 1959	5.76	3,320
	Feb. 4, 1952	4.44	1,820		Apr. 29, 1959	3.42	990
	Mar. 11, 1952	4.25	1,640		June 27, 1959	3.82	1,270
	Apr. 15, 1952	3.82	1,270				
				1960	Dec. 13, 1959	3.68	1,190
1953	May 23, 1953	5.26	2,660		Mar. 29, 1960	3.89	1,330
1954	Apr. 17, 1954	3.55	1,100	1961	Feb. 26, 1961	4.02	1,440
					Mar. 9, 1961	3.57	1,110
1955	Oct. 16, 1954	6.15	3,820		Apr. 17, 1961	3.32	940
	Feb. 22, 1955	4.16	1,540				

870. Beech Creek near Bolton, Ohio

Location.--Lat 40°55'50", long 81°08'50", at county highway bridge, 1½ miles upstream from Little Beech Creek, 1¾ miles southwest of Bolton, and 2½ miles west of Alliance, Stark County.

Drainage area.--18.8 sq mi; length of main stream, 9.20 miles; average slope main stream, 27 ft per mile; average slope main stream and tributaries, 38.0 ft per mile; slope at gage, 18.2 ft per mile; length divided by average width of basin, 4.50.

Gage.--Recording. Altitude of gage is 1,045 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,180 cfs.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943a/	July 7, 1943	5.31	820	1947	Jan. 30, 1947	4.95	648
	July 22, 1943	4.55	514		Apr. 5, 1947	5.20	735
					May 25, 1947	4.18	412
1944	Mar. 7, 1944	4.23	426		June 2, 1947	5.80	975
	Apr. 11, 1944	4.2	412		June 7, 1947	6.78	1,420
	Sept. 4, 1944	4.2	412				
				1948	Feb. 14, 1948	6.10	1,100
1945	Mar. 3, 1945	4.58	530		Mar. 19, 1948	5.30	775
	Mar. 6, 1945	5.00	665		Apr. 11, 1948	5.35	795
	Mar. 20, 1945	4.56	514		Apr. 14, 1948	4.27	413
	May 17, 1945	6.35	1,240		May 5, 1948	5.08	700
1946	Oct. 23, 1945	4.33	454	1949	Dec. 16, 1948	5.70	935
	Feb. 14, 1946	4.14	400		Jan. 28, 1949	5.02	665
	Feb. 26, 1946	6.15	1,120				
	May 27, 1946	6.00	1,060	1950	Jan. 10, 1950	5.10	700

a For period May 13 to Sept. 30.

Peak stages and discharges of Beech Creek near Bolton, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 14, 1950	4.70	560	1951	Mar. 4, 1951	4.93	648
	Feb. 23, 1950	4.26	413		Mar. 30, 1951	4.47	475
	Apr. 4, 1950	5.00	665				
	June 10, 1950	6.10	1,100	1952	Jan. 27, 1952	6.70	1,370
	June 24, 1950	8.27	2,210				
				1953	May 23, 1953	7.3	1,670
1951	Dec. 3, 1950	b4.90	600				
	Jan. 3, 1951	4.84	612	1954	Apr. 27, 1954	5.05	682
	Jan. 15, 1951	4.60	525				
	Feb. 12, 1951	b5.68	500	1959	Jan. 21, 1959	7.6	-
	Feb. 21, 1951	4.83	612				

b Backwater from ice.

880. Deer Creek at Limaville, Ohio

Location.--Lat 40°58'45", long 81°09'35", 0.6 mile west of Limaville, Stark County, and 2½ miles upstream from flow line of Berlin Reservoir.

Drainage area.--31.9 sq mi.

Gage.--Nonrecording prior to Oct. 22, 1941; recording thereafter. Datum of gage is 1,046.8 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,010 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	7.32	622	1948	Feb. 14, 1948	8.36	1,220
	Mar. 14, 1942	7.23	604		Apr. 12, 1948	7.07	587
	Apr. 10, 1942	7.44	680		May 5, 1948	7.45	748
1943	Dec. 30, 1942	8.14	978	1949	Dec. 16, 1948	7.75	890
	Feb. 11, 1943	7.15	570		Jan. 28, 1949	6.98	569
	Mar. 17, 1943	7.35	641				
	July 7, 1943	7.95	888	1950	Jan. 10, 1950	8.00	1,020
					Jan. 16, 1950	7.30	683
1944	Feb. 22, 1944	7.1	558		Feb. 14, 1950	7.57	792
	Apr. 11, 1944	7.2	590		Feb. 23, 1950	6.81	500
	May 27, 1944	7.25	607		Apr. 4, 1950	6.90	534
	June 4, 1944	7.72	780		June 24, 1950	8.36	1,220
1945	Feb. 22, 1945	a10.18	-	1951	Dec. 3, 1950	8.46	1,280
	Mar. 3, 1945	6.86	517		Jan. 4, 1951	7.92	965
	Mar. 6, 1945	7.90	965		Feb. 12, 1951	9.49	700
	Mar. 20, 1945	7.80	915		Feb. 21, 1951	7.14	624
	May 17, 1945	7.88	965		Mar. 4, 1951	6.83	517
1946	Feb. 27, 1946	8.34	1,220	1952	Jan. 26, 1952	9.33	b1,530
	May 28, 1946	7.45	748				
				1953	May 22, 1953	8.28	b1,190
1947	Jan. 30, 1947	7.24	663				
	Apr. 2, 1947	7.00	569	1954	Mar. 25, 1954	6.70	b468
	May 25, 1947	7.02	569				
	June 2, 1947	8.40	1,250	1955	Oct. 16, 1954	8.48	b1,310
	June 7, 1947	8.04	1,050				
	Aug. 16, 1947	7.20	643	1959	Jan. 21, 1959	14.0	-

a Backwater from ice.
b Annual peak only.

885. Mahoning River near Deerfield, Ohio

Location.--Lat 40°59'35", long 81°03'55", at highway bridge, 1 mile upstream from Willow Creek and 2½ miles southwest of Deerfield, Portage County.

Drainage area.--175 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,230 cfs.

Historical data.--Flood of March 1913 reached stage equivalent to gage height of 19.0 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	June 29, 1924	18.2	11,400	1928	Dec. 14, 1927	15.6	8,160
1925	Feb. 24, 1925	8.47	2,300	1929	Feb. 27, 1929	13.6	6,140
				1930	Jan. 13, 1930	10.3	3,490
1926	Feb. 26, 1926	12.8	5,420				
1927	Jan. 20, 1927	12.4	5,100	1931	Apr. 23, 1931	8.0	2,030

895. Mill Creek near Berlin Center, Ohio

Location.--Lat 41°00'00", long 80°58'10", at county bridge, 1 mile upstream from flow line of Berlin Reservoir, 1¼ miles upstream from Turkeybroth Creek, and 2 miles southwest of Berlin Center, Mahoning County. Records include flow of unnamed tributary 150 ft below gage.

Drainage area.--19.7 sq mi, including that of unnamed tributary. Length of main stream, 7.39 miles; average slope main stream, 12 ft per mile; average slope main stream and tributaries, 26.6 ft per mile; slope at gage, 10.2 ft per mile; length divided by average width of basin, 2.77.

Gage.--Nonrecording prior to Oct. 22, 1941; recording thereafter. At site 100 ft downstream at same datum Apr. 24, 1947, to Sept. 10, 1952. Datum of gage is 1,032.9 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,520 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 16, 1942	4.39	603	1948	Feb. 14, 1948	5.12	815
	Mar. 14, 1942	4.21	543		Mar. 19, 1948	4.45	568
	Apr. 10, 1942	4.24	558		Apr. 12, 1948	4.67	633
					Apr. 14, 1948	4.28	520
1943	Dec. 30, 1942	5.08	833		May 5, 1948	5.41	950
	Feb. 11, 1943	4.25	558				
	Mar. 16, 1943	4.3	573	1949	Dec. 16, 1948	5.41	950
	Mar. 19, 1943	4.3	573		Jan. 28, 1949	4.50	584
	Apr. 19, 1943	4.4	603				
				1950	Feb. 13, 1950	4.56	600
1944	Apr. 11, 1944	4.16	528				
				1951	Dec. 3, 1950	a5.11	700
1945	Mar. 3, 1945	4.27	558		Jan. 4, 1951	4.34	536
	Mar. 6, 1945	5.20	870		Feb. 21, 1951	4.38	552
	Mar. 20, 1945	4.51	635		Mar. 4, 1951	4.53	600
	May 17, 1945	4.40	603		Mar. 30, 1951	4.36	536
1946	Feb. 27, 1946	6.00	1,280	1952	Jan. 18, 1952	5.10	815
	May 21, 1946	4.40	603		Jan. 26, 1952	5.94	1,250
	May 26, 1946	4.18	543		Mar. 11, 1952	4.60	616
	May 27, 1946	6.92	1,900				
				1953	Apr. 10, 1953	5.11	780
1947	Jan. 30, 1947	4.89	767		May 22, 1953	6.38	1,540
	June 7, 1947	6.08	1,340				
	Aug. 16, 1947	4.24	505	1954	Apr. 17, 1954	4.12	399

a Backwater from ice.

Peak stages and discharges of Mill Creek near Berlin Center, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Oct. 15, 1955	6.60	1,680	1957	Apr. 8, 1957	4.80	570
	Feb. 22, 1955	4.63	590		June 29, 1957	4.82	570
	Mar. 1, 1955	5.08	780		July 9, 1957	5.48	860
	Mar. 4, 1955	4.47	512				
	Mar. 11, 1955	5.14	802	1958	Apr. 29, 1958	4.73	552
	Apr. 19, 1955	5.34	900		July 11, 1958	6.10	1,210
					July 31, 1958	6.35	1,380
1956	Feb. 7, 1956	5.23	850				
	Feb. 25, 1956	6.09	1,340	1959	Jan. 21, 1959	6.70	1,700
	Mar. 8, 1956	4.43	512		Feb. 10, 1959	6.08	1,220
	May 12, 1956	6.70	1,750		May 28, 1959	5.15	705
	July 4, 1956	4.68	610				
	July 24, 1956	4.49	530	1960	Mar. 28, 1960	5.10	685
	Aug. 6, 1956	5.11	780				
				1961	Feb. 25, 1961	5.22	734
1957	Apr. 4, 1957	5.93	1,120		Mar. 9, 1961	4.71	538

905. Mahoning River below Berlin Dam, near Berlin Center, Ohio
(Published as Mahoning River near Berlin Center prior to 1943)

Location.--Lat 41°02'55", long 81°00'05", 600 ft downstream from Berlin Dam and 3¼ miles northwest of Berlin Center, Mahoning County.

Drainage area.--249 sq mi. At site used prior to Oct. 1, 1942, 247 sq mi. Channel slope, principal stream, 6.3 ft per mile; channel slope, tributary, 28.2 ft per mile; longest watercourse, 30.4 miles; mean elevation of land, 1,110 ft above mean sea level; average land slope, 211 ft per mile.

Gage.--Nonrecording prior to Nov. 29, 1930; recording thereafter. Datum of gage is 958.0 ft above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1942, at site 1¾ miles upstream at datum 966.15 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District). At site 200 ft downstream at datum 8.00 ft lower than present datum Oct. 1, 1942, to May 11, 1949.

Stage-discharge relation.--Defined by current-meter measurements below 4,820 cfs at site in use prior to 1942. Ratings in use after 1942 are defined throughout by current-meter measurements.

Remarks.--Flow regulated by Berlin Reservoir (91,150 acre-ft, 249 sq mi) after Dec. 27, 1942. Base for partial-duration series, 2,000 cfs. Only annual peaks are shown after 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Apr. 22, 1931	5.15	1,820	1937	Jan. 22, 1937	10.31	7,580
					Jan. 25, 1937	10.97	8,630
1932	Dec. 14, 1931	6.12	2,510		Mar. 21, 1937	5.87	2,340
	Jan. 17, 1932	7.59	3,950		Apr. 22, 1937	6.47	2,870
	May 12, 1932	5.92	2,340		Apr. 26, 1937	5.76	2,250
	July 16, 1932	6.04	2,420		May 26, 1937	8.90	5,540
					July 11, 1937	6.26	2,690
1933	Dec. 31, 1932	5.48	2,010				
	Mar. 14, 1933	9.40	6,260	1938	Dec. 18, 1937	7.03	3,340
	Apr. 12, 1933	6.04	2,420		Mar. 6, 1938	7.45	3,840
	June 5, 1933	6.41	2,780		Mar. 14, 1938	7.56	3,950
					Mar. 17, 1938	7.58	3,950
1934	Apr. 5, 1934	7.68	4,060		Apr. 9, 1938	7.90	4,280
	Sept. 8, 1934	8.61	5,130		May 19, 1938	10.70	8,180
					May 24, 1938	5.91	2,340
1935	Jan. 21, 1935	5.57	2,090		Aug. 4, 1938	7.92	4,280
	Feb. 15, 1935	a7.3	-				
	Feb. 25, 1935	6.48	2,870	1939	Jan. 31, 1939	7.10	3,440
	Mar. 12, 1935	6.00	2,420		Feb. 20, 1939	7.50	3,840
	May 3, 1935	5.96	2,420		Feb. 28, 1939	6.07	2,510
	May 7, 1935	5.99	2,420		Mar. 12, 1939	9.82	6,840
	Aug. 4, 1935	6.72	3,150		Apr. 18, 1939	6.69	3,060
	Aug. 7, 1935	6.26	2,690				
				1940	Mar. 4, 1940	10.38	7,730
1936	Feb. 26, 1936	a12.5	-		Mar. 19, 1940	5.97	2,420
	Feb. 27, 1936	8.70	5,260		Mar. 30, 1940	6.24	2,600
	Mar. 24, 1936	9.86	6,980		Apr. 21, 1940	9.14	5,820
					May 24, 1940	6.19	2,600
1937	Nov. 5, 1936	6.10	2,510		May 31, 1940	5.57	2,090
	Jan. 15, 1937	10.20	7,430				

a Backwater from ice.

Peak stages and discharges of Mahoning River below Berlin Dam, near Berlin Center, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 29, 1940	8.01	4,390	1949	Jan. 29, 1949	5.87	2,850
	Feb. 14, 1941	5.54	2,010	1950	Feb. 17, 1950	4.76	2,480
1942	Feb. 5, 1942	5.90	2,340	1951	Dec. 12, 1950	5.94	4,360
	Feb. 17, 1942	6.59	2,960	1952	Feb. 7, 1952	5.22	3,120
	Mar. 9, 1942	6.34	2,690	1953	May 25, 1953	4.84	2,610
	Mar. 14, 1942	7.28	3,640	1954	Apr. 29, 1954	5.01	2,820
	Apr. 10, 1942	8.16	4,630	1955	Feb. 24, 1955	5.05	2,900
1943	Jan. 1, 1943	5.16	2,360	1956	May 14, 1956	5.34	3,360
1944	June 5, 1944	5.58	2,600	1957	Apr. 10, 1957	4.96	2,750
1945	Mar. 23, 1945	4.12	1,360	1958	May 8, 1958	3.75	1,280
				1959	Jan. 24, 1959	5.23	3,200
1946	May 30, 1946	5.83	2,750	1960	Apr. 6, 1960	4.87	2,640
1947	June 9, 1947	6.55	3,550				
1948	May 7, 1948	4.02	1,260	1961	Apr. 18, 1961	3.58	1,100

915. Mahoning River at Pricetown, Ohio

Location.--Lat 41°07'50", long 80°58'24", a quarter of a mile south of Mahoning-Trumbull County line, 0.3 mile downstream from Milton Dam, half a mile southwest of Pricetown, Mahoning County, and 3 miles upstream from Kale Creek.

Drainage area.--276 sq mi.

Gage.--Nonrecording prior to Aug. 14, 1929; recording thereafter. Datum of gage is 905.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs.

Remarks.--Flow regulated by Milton Reservoir (29,150 acre-ft, 276 sq mi) throughout period of record, and by Berlin Reservoir (91,150 acre-ft, 249 sq mi) after Dec. 27, 1942. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Jan. 14, 1930	10.64	4,130	1946	June 1, 1946	8.15	2,750
				1947	June 10, 1947	9.37	3,430
1931	Apr. 23, 1931	6.32	1,780	1948	May 10, 1948	5.25	1,230
1932	Jan. 18, 1932	10.14	3,830	1949	Jan. 30, 1949	7.80	2,530
1933	Mar. 15, 1933	12.92	5,510	1950	Feb. 25, 1950	7.67	2,480
1934	Apr. 5, 1934	9.93	3,720				
1935	Aug. 7, 1935	7.20	2,230	1951	Feb. 24, 1951	8.28	2,810
				1952	Feb. 8, 1952	8.97	3,220
1936	Mar. 25, 1936	11.54	4,670	1953	May 28, 1953	7.68	2,500
1937	Jan. 25, 1937	15.01	6,770	1954	Apr. 30, 1954	7.75	2,560
1938	May 20, 1938	10.62	4,050	1955	Feb. 26, 1955	7.70	2,500
1939	Mar. 14, 1939	7.40	2,340				
1940	Mar. 5, 1940	12.22	5,090	1956	May 18, 1956	8.49	2,940
				1957	Apr. 11, 1957	8.27	2,830
1941	Dec. 29, 1940	10.54	4,060	1958	Aug. 16, 1958	5.29	1,240
1942	Apr. 10, 1942	10.62	4,120	1959	Feb. 16, 1959	7.90	2,320
1943	Jan. 2, 1943	8.24	2,750	1960	Apr. 7, 1960	7.98	2,540
1944	Oct. 1, 1943	2.83	316				
1945	Mar. 21, 1945	5.10	1,190	1961	Apr. 19, 1961	5.13	1,110

920. Kale Creek near Pricetown, Ohio

Location.--Lat 41°08'25", long 80°59'45", at bridge 0.4 mile north of Mahoning-Trumbull County line, 1½ miles northwest of Pricetown, in Trumbull County, 2¼ miles upstream from mouth, and 3½ miles south of Newton Falls.

Drainage area.--20.9 sq mi. Length of main stream, 10.5 miles; average slope main stream, 10 ft per mile; average slope main stream and tributaries, 35.1 ft per mile; slope at gage, 2.1 ft per mile; length divided by average width of basin, 5.30.

Gage.--Nonrecording prior to June 27, 1941; recording thereafter. Datum of gage is 914.7 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941a/	July 19, 1941	5.40	1,020	1952	Jan. 18, 1952	5.34	1,010
	July 31, 1941	4.67	618		Jan. 27, 1952	6.08	1,520
					Feb. 4, 1952	4.91	774
1942	Feb. 5, 1942	4.44	535		Mar. 11, 1952	5.32	980
	Feb. 17, 1942	4.45	535		Apr. 15, 1952	4.50	600
	Mar. 14, 1942	4.63	618				
	Apr. 10, 1942	4.76	662	1953	May 23, 1953	5.23	760
1943	Dec. 28, 1942	4.45	535	1954	Mar. 1, 1954	5.18	740
	Dec. 30, 1942	4.90	735		Mar. 25, 1954	5.02	660
	Feb. 11, 1943	4.52	555		Apr. 17, 1954	4.66	538
					Apr. 27, 1954	5.25	760
1944	Apr. 11, 1944	4.65	618				
	May 27, 1944	8.3	3,630	1955	Oct. 16, 1954	6.71	1,990
					Feb. 11, 1955	4.26	512
1945	Mar. 7, 1945	4.44	535		Feb. 22, 1955	4.43	585
	Mar. 19, 1945	4.68	640		Mar. 4, 1955	4.62	645
	May 17, 1945	5.05	818		Mar. 22, 1955	4.26	512
1946	Oct. 24, 1945	4.93	762	1956	Nov. 16, 1955	4.53	625
	Feb. 27, 1946	5.27	930		Feb. 7, 1956	5.19	925
	May 28, 1946	5.88	1,350		Feb. 12, 1956	4.56	625
					Feb. 25, 1956	5.91	1,370
1947	Jan. 20, 1947	4.47	602		Mar. 8, 1956	4.77	708
	Jan. 30, 1947	4.86	795		Apr. 3, 1956	4.69	685
	Apr. 21, 1947	4.69	720		May 12, 1956	5.89	1,370
	June 2, 1947	5.24	1,010		June 25, 1956	4.51	605
	June 7, 1947	5.64	1,240		July 17, 1956	6.43	1,790
	Aug. 16, 1947	6.12	1,540		Sept.16, 1956	4.31	530
1948	Feb. 14, 1948	5.24	1,010	1957	Jan. 23, 1957	5.16	900
	Apr. 12, 1948	4.26	520		Apr. 4, 1957	5.89	1,340
	May 5, 1948	5.09	925		June 29, 1957	5.35	1,010
					July 9, 1957	6.05	1,440
1949	Jan. 28, 1949	4.40	580				
				1958	Dec. 7, 1957	4.68	685
1950	Jan. 10, 1950	5.53	1,180		Dec. 26, 1957	4.24	512
	Jan. 16, 1950	4.90	820		Apr. 29, 1958	4.86	752
	Feb. 14, 1950	5.18	980		July 15, 1958	5.70	1,210
	Mar. 27, 1950	4.28	540		July 31, 1958	6.48	1,780
	Apr. 5, 1950	4.48	625				
	June 4, 1950	4.23	520	1959	Jan. 21, 1959	8.52	3,890
					Feb. 10, 1959	6.76	2,010
1951	Dec. 3, 1950	b5.78	-		Mar. 15, 1959	4.64	665
	Dec. 8, 1950	4.39	558		June 26, 1959	6.18	1,540
	Jan. 4, 1951	5.10	c870				
	Feb. 13, 1951	b4.64	-	1960	Oct. 1, 1959	5.15	900
	Mar. 4, 1951	4.88	774		Dec. 13, 1959	5.36	1,010
	Mar. 30, 1951	4.53	621		Jan. 13, 1960	4.26	516
					Mar. 30, 1960	6.04	1,430
1952	Dec. 9, 1951	4.30	519				
	Dec. 30, 1951	4.37	538	1961	Feb. 26, 1961	5.55	1,090

a For period May 21 to Sept. 30 only.
b Ice jam.
c Maximum known peak discharge. Annual peak may have occurred during ice jam of Dec. 3.

921. Hinkley Creek near Charlestown, Ohio

Location.--Lat 41°09'10", long 81°10'15", at culvert on State Highway 5, 2.6 miles east of intersection of State Highways 5 and 14 and 1.3 miles southwest of Charlestown, Portage County.

Drainage area.--10.8 sq mi. Length of main stream, 8.6 miles; average slope main stream, 22 ft per mile; average slope main stream and tributaries, 29.7 ft per mile; slope at gage, 50 ft per mile; length divided by average width of basin, 6.98.

Gage.--Crest-stage gage. Altitude of gage is 986 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 156 cfs and by indirect measurements to 2,400 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	11.71	376	1955	-	12.35	522
1948	-	10.96	238				
1949	-	10.35	152	1956	-	12.62	584
1950	-	10.74	206	1957	-	12.36	492
				1958	-	11.82	364
1951	-	11.11	263	1959	June 26, 1959	15.69	2,400
1952	-	12.20	486	1960	-	12.02	412
1953	-	10.76	206				
1954	-	11.10	263	1961	-	11.90	386

925. West Branch Mahoning River near Newton Falls, Ohio

Location.--Lat 41°10'18", long 81°01'18", in Portage County, 2½ miles southwest of Newton Falls, Trumbull County, 6 miles upstream from mouth, and 7 miles downstream from Silver Creek.

Drainage area.--97.8 sq mi.

Gage.--Nonrecording prior to Aug. 30, 1929; recording thereafter. At site 75 ft upstream at same datum prior to Aug. 30, 1929. Datum of gage is 912.2 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 5,390 cfs.

Remarks.--Only annual peaks are shown prior to 1930. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926a/	Aug. 22, 1926	9.1	2,550	1937	Jan. 18, 1937	7.70	1,560
1927	Mar. 21, 1927	9.8	3,310		Jan. 22, 1937	8.62	2,100
1928	Dec. 1, 1927	11.1	5,000		Jan. 25, 1937	10.41	4,050
1929	Feb. 26, 1929	11.8	6,090		Mar. 21, 1937	7.62	1,510
1930	Jan. 3, 1930	7.47	1,460	1938	Dec. 18, 1937	8.12	1,760
	Jan. 13, 1930	7.85	1,610		Mar. 6, 1938	8.53	2,020
					Mar. 15, 1938	7.10	1,300
1931	Apr. 23, 1931	6.16	996		Apr. 9, 1938	8.73	2,180
					May 19, 1938	11.01	4,860
1932	Apr. 26, 1932	7.44	1,340		Aug. 5, 1938	8.37	1,950
1933	Mar. 14, 1933	10.00	3,550	1939	Jan. 31, 1939	8.08	1,760
					Feb. 20, 1939	8.63	2,100
1934	Apr. 4, 1934	7.94	1,660		Mar. 1, 1939	7.68	1,560
					Mar. 12, 1939	9.47	2,970
1935	Aug. 8, 1935	7.00	1,220		Apr. 19, 1939	7.85	1,610
1936	Feb. 27, 1936	b9.76	-	1940	Mar. 4, 1940	8.90	2,360
	Mar. 24, 1936	9.59	3,080		Mar. 19, 1940	7.16	1,340
					Apr. 20, 1940	9.63	3,080
1937	Jan. 15, 1937	9.86	3,430		June 9, 1940	7.59	1,510

a For partial year, June 8 to Sept. 30.
b Backwater from ice.

Peak stages and discharges of West Branch Mahoning River near Newton Falls, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 30, 1940	8.8	2,330	1951	Dec. 8, 1950	7.60	1,430
					Jan. 4, 1951	-	c2,200
1942	Feb. 7, 1942	7.11	1,300		Feb. 13, 1951	-	c1,500
	Feb. 17, 1942	8.20	1,850		Feb. 22, 1951	8.38	1,800
	Mar. 14, 1942	7.65	1,530		Mar. 4, 1951	8.30	1,740
	Mar. 17, 1942	7.34	1,380		Mar. 24, 1951	7.31	1,330
	Apr. 10, 1942	8.84	2,330		Mar. 31, 1951	8.35	1,800
1943	Dec. 28, 1942	8.45	1,950	1952	Nov. 24, 1951	7.72	1,470
	Dec. 31, 1942	9.11	2,550		Dec. 10, 1951	7.54	1,390
	Feb. 11, 1943	7.77	1,610		Jan. 1, 1952	8.55	1,930
	Apr. 20, 1943	7.38	1,420		Jan. 18, 1952	9.62	2,880
	May 21, 1943	9.53	2,970		Jan. 27, 1952	10.98	4,850
					Feb. 4, 1952	8.81	2,080
1944	Mar. 7, 1944	8.21	1,820		Mar. 11, 1952	9.44	2,650
	Mar. 24, 1944	7.08	1,300		Apr. 15, 1952	7.69	1,470
	Apr. 12, 1944	8.70	2,180				
	May 25, 1944	7.25	1,340	1953	May 23, 1953	8.31	1,740
1945	Feb. 23, 1945	9.84	3,310	1954	Mar. 26, 1954	7.98	1,470
	Mar. 7, 1945	8.17	1,820		Apr. 28, 1954	8.25	1,560
	Mar. 20, 1945	8.89	2,360				
	Mar. 22, 1945	7.63	1,510	1955	Oct. 16, 1954	10.57	3,180
	May 18, 1945	8.82	2,270		Feb. 22, 1955	8.17	1,350
					Mar. 5, 1955	8.87	1,740
1946	Oct. 24, 1945	7.60	1,510		Mar. 11, 1955	9.84	2,390
	Feb. 27, 1946	9.38	2,860				
	May 28, 1946	8.48	2,020	1956	Nov. 16, 1955	10.61	3,180
					Feb. 26, 1956	9.59	2,690
1947	Jan. 21, 1947	7.85	1,540		Mar. 8, 1956	9.20	2,260
	Jan. 31, 1947	8.92	2,320		May 12, 1956	10.15	3,480
	Apr. 2, 1947	8.89	2,320		Aug. 6, 1956	7.82	1,380
	Apr. 21, 1947	8.43	1,900				
	May 22, 1947	7.85	1,540	1957	Jan. 23, 1957	9.58	2,420
	May 26, 1947	7.80	1,540		Apr. 5, 1957	10.42	3,250
	June 3, 1947	9.62	3,010		June 29, 1957	10.60	3,500
					July 9, 1957	8.65	1,700
1948	Feb. 14, 1948	8.17	1,760				
	Mar. 20, 1948	7.36	1,370	1958	Apr. 29, 1958	7.96	1,420
	May 5, 1948	8.94	2,320		July 15, 1958	8.70	1,760
					Aug. 1, 1958	8.79	1,820
1949	Jan. 28, 1949	7.75	1,540				
	Feb. 16, 1949	7.30	1,330	1959	Jan. 22, 1959	13.60	8,340
					Feb. 10, 1959	11.74	5,060
1950	Jan. 7, 1950	7.33	1,330		Mar. 16, 1959	7.97	1,390
	Jan. 11, 1950	9.20	2,440		Apr. 29, 1959	7.95	1,380
	Jan. 16, 1950	9.13	2,340		June 26, 1959	10.82	3,660
	Feb. 14, 1950	9.36	2,650				
	Mar. 23, 1950	7.45	1,360	1960	Oct. 1, 1959	8.28	1,510
	Mar. 27, 1950	8.43	1,800		Dec. 13, 1959	9.68	2,310
	Apr. 5, 1950	7.89	1,550		Mar. 30, 1960	10.30	2,960
	Apr. 25, 1950	8.06	1,640				
				1961	Feb. 26, 1961	8.25	1,400
1951	Dec. 4, 1950	b10.66	3,100				

b Backwater from ice.
c About.

926. Ordnance Creek near Newton Falls, Ohio

Location.--Lat 41°11'20", long 81°01'05", at culvert on State Highway 5, 0.6 mile upstream from West Branch Mahoning River, in Portage County, 0.8 mile west of Portage-Trumbull County line, and 2 miles west of Newton Falls.

Drainage area.--0.16 sq mi. Length of main stream, 0.79 mile; average slope main stream, 106 ft per mile; slope at gage, 82 ft per mile; length divided by average width of basin, 3.83.

Gage.--Recording. Datum of gage is 932.61 ft above mean sea level (levels by Ravenna Arsenal, U.S. Army).

Stage-discharge relation.--Defined by current measurements below 14 cfs and indirect measurements at 99 and 103 cfs.

Remarks.--Only annual peaks are shown.

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Peak stages and discharges of Ordnance Creek near Newton Falls, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Aug. 18, 1950	4.65	18	1956	May 12, 1956	6.98	103
				1957	June 28, 1957	5.46	82
1951	July 27, 1951	4.67	18	1958	July 31, 1958	5.10	42
1952	Jan. 17, 1952	4.38	10	1959	Jan. 21, 1959	5.54	92
1953	Apr. 10, 1953	4.78	23	1960	Mar. 29, 1960	4.92	30
1954	Apr. 26, 1954	5.06	40				
1955	Mar. 11, 1955	5.06	40	1961	-	a5.32	a63

a Estimated.

930. Eagle Creek at Phalanx Station, Ohio

Location.--Lat 41°15'40", long 80°57'16", at highway bridge, 1 mile north of Phalanx Station, Trumbull County, 2 miles downstream from Tinker Creek, and 4 miles upstream from mouth.

Drainage area.--97.0 sq mi.

Gage.--Nonrecording prior to Sept. 14, 1929; recording thereafter. Datum of gage is 887.42 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 1,000 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Oct. 25, 1926	11.2	2,580	1943	May 21, 1943	9.56	1,540
1928	Dec. 1, 1927	12.2	4,000		June 17, 1943	11.06	2,580
1929	Feb. 27, 1929	12.9	5,950				
				1944	Mar. 7, 1944	9.65	1,420
1930	Jan. 3, 1930	9.43	1,330		Apr. 12, 1944	10.72	2,200
	Jan. 9, 1930	8.77	1,140				
	Jan. 14, 1930	10.16	1,760	1945	Feb. 23, 1945	a11.1	-
	Feb. 25, 1930	8.72	1,120		Mar. 7, 1945	9.18	1,260
					Mar. 22, 1945	9.12	1,220
1931	Apr. 23, 1931	7.38	816		May 18, 1945	10.85	2,280
1932	Jan. 18, 1932	9.13	1,220	1946	Feb. 14, 1946	8.67	1,120
	Apr. 9, 1932	8.55	1,090		Feb. 27, 1946	11.09	2,540
					May 21, 1946	10.08	1,720
1933	Mar. 14, 1933	10.97	2,460		May 28, 1946	9.73	1,460
1934	Mar. 5, 1934	9.37	1,330	1947	Jan. 21, 1947	9.11	1,220
					Jan. 31, 1947	10.40	1,960
1938	Mar. 6, 1938	10.43	2,000		Apr. 2, 1947	10.60	2,120
	Mar. 17, 1938	8.44	1,040		Apr. 21, 1947	9.86	1,580
	Apr. 9, 1938	10.78	2,280		May 22, 1947	8.80	1,140
					May 26, 1947	9.78	1,520
1939	Feb. 1, 1939	8.90	1,170		May 29, 1947	8.92	1,170
	Feb. 20, 1939	10.60	2,220		June 3, 1947	11.53	2,880
	Mar. 1, 1939	10.44	2,000		June 8, 1947	8.34	1,020
	Mar. 13, 1939	10.60	2,220				
	Apr. 19, 1939	9.63	1,420	1948	Feb. 15, 1948	8.47	1,060
					Mar. 20, 1948	9.90	1,580
1940	Mar. 5, 1940	9.10	1,220		Apr. 15, 1948	8.81	1,140
	Mar. 19, 1940	10.60	2,120		May 6, 1948	9.40	1,330
	Apr. 21, 1940	11.63	2,920				
	May 25, 1940	10.00	1,640	1949	Jan. 29, 1949	8.96	1,200
	June 1, 1940	9.34	1,330				
				1950	Jan. 11, 1950	9.66	1,460
1941	Dec. 30, 1940	10.5	2,040		Jan. 16, 1950	10.80	2,280
					Feb. 15, 1950	11.10	2,540
1942	Feb. 7, 1942	10.18	1,940		Mar. 23, 1950	8.98	1,200
	Feb. 17, 1942	10.54	2,160		Mar. 27, 1950	10.79	2,280
	Mar. 14, 1942	8.59	1,100		Apr. 5, 1950	8.81	1,140
	Mar. 17, 1942	10.72	2,300		Apr. 24, 1950	11.08	2,540
	Apr. 10, 1942	10.76	2,360				
				1951	Dec. 4, 1950	11.67	3,040
1943	Dec. 28, 1942	10.55	2,160		Dec. 8, 1950	9.23	1,460
	Dec. 31, 1942	10.85	2,440		Jan. 4, 1951	10.83	2,280
	Feb. 11, 1943	9.88	1,740		Feb. 13, 1951	9.97	1,610
	Apr. 20, 1943	9.74	1,600		Feb. 22, 1951	10.09	1,720
	May 9, 1943	9.48	1,480		Mar. 4, 1951	10.51	2,040

a Backwater from ice.

Peak stages and discharges of Eagle Creek at Phalanx Station, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 24, 1951	8.34	1,020	1956	Feb. 26, 1956	10.95	1,990
	Mar. 31, 1951	10.56	2,120		Mar. 8, 1956	10.86	1,920
1952	Nov. 24, 1951	9.87	1,580		Apr. 4, 1956	10.39	1,660
	Dec. 10, 1951	8.99	1,200		May 13, 1956	11.56	2,460
	Jan. 1, 1952	10.41	1,960		June 19, 1956	8.67	1,050
	Jan. 18, 1952	11.23	2,620		July 27, 1956	9.43	1,240
	Jan. 27, 1952	11.78	3,130		Aug. 6, 1956	9.57	1,320
	Feb. 4, 1952	10.65	2,120	1957	Jan. 23, 1957	11.24	3,020
	Mar. 11, 1952	10.85	2,280		Apr. 5, 1957	11.40	3,340
	Apr. 16, 1952	8.32	1,020		Apr. 24, 1957	11.52	3,520
1953	Jan. 19, 1953	6.55	650		June 29, 1957	11.38	3,340
1954	Mar. 2, 1954	9.86	1,430	1958	Apr. 29, 1958	9.67	1,430
	Mar. 26, 1954	10.70	1,810		July 16, 1958	10.78	2,320
	Apr. 27, 1954	9.86	1,430	1959	Jan. 22, 1959	13.12	6,700
1955	Oct. 16, 1954	11.97	2,840		Feb. 10, 1959	12.31	4,820
	Jan. 7, 1955	8.67	1,050		Mar. 16, 1959	9.80	1,480
	Feb. 12, 1955	8.79	1,070		Apr. 29, 1959	10.31	1,810
	Feb. 23, 1955	9.84	1,390	1960	Dec. 13, 1959	11.14	2,760
	Mar. 4, 1955	10.96	1,990		Mar. 30, 1960	11.65	3,560
	Mar. 12, 1955	10.63	1,760	1961	Feb. 19, 1961	9.97	1,580
	Mar. 23, 1955	9.80	1,390		Feb. 26, 1961	11.12	2,730
1956	Nov. 17, 1955	9.98	1,470		Apr. 26, 1961	10.64	2,140
	Feb. 12, 1956	9.10	1,160				

940. Mahoning River at Leavittsburg, Ohio

Location.--Lat 41°14'20", long 80°52'50", at Leavittsburg, Trumbull County, 350 ft downstream from Duck Creek and 1¼ miles downstream from Eagle Creek.

Drainage area.--580 sq mi.

Gage.--Nonrecording prior to July 2, 1941; recording thereafter. Datum of gage is 871.25 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 18,200 cfs.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by Milton Reservoir (29,150 acre-ft, 276 sq mi) throughout period of record, and by Berlin Reservoir (91,150 acre-ft, 249 sq mi) after Dec. 27, 1942. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a24	-	1951	Dec. 4, 1950	13.01	6,990
				1952	Jan. 27, 1952	15.88	9,720
1937	Jan. 26, 1937	17.8	-	1953	May 23, 1953	8.04	2,760
				1954	Apr. 28, 1954	10.86	4,600
1942	Apr. 11, 1942	13.84	7,650	1955	Oct. 16, 1954	14.20	7,820
1943	Dec. 31, 1942	12.3	6,360				
1944	Apr. 12, 1944	11.78	5,930	1956	May 13, 1956	15.02	8,620
1945	May 18, 1945	b11.9	5,340	1957	Apr. 5, 1957	14.17	7,820
				1958	July 16, 1958	11.83	5,240
1946	Feb. 27, 1946	11.88	6,020	1959	Jan. 22, 1959	19.37	20,300
1947	June 3, 1947	14.04	7,890	1960	Mar. 30, 1960	13.87	7,170
1948	May 6, 1948	9.72	4,210				
1949	Jan. 29, 1949	8.62	3,380	1961	Feb. 26, 1961	10.59	4,310
1950	Feb. 15, 1950	13.51	7,440				

a About; maximum stage known.
b Occurred Feb. 23, 1945; backwater from ice.

945. Mahoning River at Warren, Ohio

Location.--Lat 41°14'37", long 80°49'39", at dam 200 ft downstream from Erie Railroad (Shenango Branch) crossing and 200 ft upstream from Summit Street Bridge in Warren, Trumbull County.

Drainage area.--599 sq mi.

Gage.--Recording. Datum of gage is 867.16 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs.

Remarks.--Regulated by Milton Reservoir (29,150 acre-ft, 276 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Feb. 10, 1925	6.00	7,220	1931	Apr. 23, 1931	5.47	3,640
				1932	Jan. 31, 1932	5.32	3,470
1926	Feb. 27, 1926	6.60	8,750	1933	Mar. 15, 1933	6.95	7,270
1927	Mar. 22, 1927	6.70	8,990	1934	Apr. 5, 1934	5.64	3,990
1928	Dec. 15, 1927	7.00	9,960	1935	Aug. 4, 1935	5.88	4,550
1929	Feb. 27, 1929	7.20	10,500				
1930	Jan. 14, 1930	6.09	7,330				

949. Walnut Creek at Cortland, Ohio

Location.--Lat 41°19'45", long 80°43'30", at Main Street Bridge in Cortland, Trumbull County, 1.8 miles upstream from mouth.

Drainage area.--9.12 sq mi. Length of main stream, 5.3 miles; average slope main stream, 17 ft per mile; average slope main stream and tributaries, 26 ft per mile; slope at gage, 41 ft per mile; length divided by average width of basin, 3.08.

Gage.--Recording. Altitude of gage is 1,000 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 2, 1947	3.33	590	1955	Oct. 15, 1954	4.60	1,200
1948	Mar. 19, 1948	2.91	380				
1949	Jan. 5, 1949	2.44	205	1956	June 24, 1956	4.1	775
1950	June 3, 1950	4.12	856	1957	June 29, 1957	4.06	715
				1958	July 15, 1958	4.19	800
1951	Dec. 3, 1950	4.02	740	1959	Jan. 21, 1959	5.06	1,470
1952	Jan. 27, 1952	4.09	745	1960	Mar. 29, 1960	4.03	698
1953	Jan. 18, 1953	2.90	185				
1954	Mar. 25, 1954	3.85	625	1961	Apr. 26, 1961	4.12	753

955. Mosquito Creek below Mosquito Creek Dam, near Cortland, Ohio

Location.--Lat 41°18'00", long 80°45'25", 100 ft downstream from Mosquito Creek Dam, three-quarters of a mile upstream from Confusion Run, 2 miles downstream from Walnut Creek, and 3 miles southwest of Cortland, Trumbull County.

Drainage area.--97.4 sq mi.

Gage.--Nonrecording prior to Aug. 23, 1943; recording thereafter. Datum of gage is 873.98 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). At site 900 ft downstream at datum 6.63 ft lower prior to Feb. 15, 1951.

Stage-discharge relation.--Defined by current-meter measurements below 1,150 cfs.

Remarks.--Flow regulated by Mosquito Creek Reservoir (104,100 acre-ft, 97.4 sq mi) since October 1943. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Jan. 22, 1927	10.0	1,340	1951	Mar. 12, 1951	3.58	665
1928	Dec. 1, 1927	10.0	1,340	1952	Feb. 7, 1952	4.14	1,030
1929	Jan. 19, 1929	11.5	1,890	1953	July 29, 1953	3.05	437
1944	July 22, 1944	6.17	299	1954	July 14, 1954	2.75	334
1945	July 13, 1945	a6.63	209	1955	Mar. 7, 1955	3.90	837
1946	May 29, 1946	b7.55	355	1956	May 17, 1956	3.53	633
1947	June 5, 1947	9.66	1,280	1957	Apr. 11, 1957	3.54	608
1948	Aug. 29, 1948	6.83	431	1958	Aug. 29, 1958	2.76	295
1949	July 29, 1949	5.74	282	1959	Feb. 16, 1959	3.90	832
1950	Apr. 11, 1950	c8.08	575	1960	May 16, 1960	3.19	470
				1961	May 1, 1961	3.82	856

a Occurred Feb. 22, 1945; backwater from ice.
b Occurred Feb. 27, 1946; backwater from ice.
c Occurred Apr. 4, 1950; backwater from ice.

960. Mosquito Creek at Niles, Ohio

Location.--Lat 41°11'02", long 80°45'39", at dam in Niles, Trumbull County, half a mile upstream from mouth.

Drainage area.--139 sq mi.

Gage.--Nonrecording prior to July 5, 1929; recording thereafter. Control is concrete dam. Datum of gage is 857.26 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District).

Stage-discharge relation.--Defined by current-meter measurements below 2,760 cfs.

Remarks.--Flow regulated by Mosquito Creek Reservoir (104,100 acre-ft, 97.4 sq mi) since October 1943. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Jan. 15, 1930	4.13	1,680	1942	Apr. 10, 1942	4.68	2,380
				1943	Dec. 30, 1942	5.16	3,080
1931	Apr. 4, 1931	3.32	839	1944	Apr. 12, 1944	3.16	656
1932	May 12, 1932	3.64	1,120	1945	Feb. 23, 1945	3.29	780
1933	Mar. 16, 1933	4.30	1,880				
1934	Mar. 7, 1934	3.19	661	1946	May 28, 1946	3.60	1,070
1935	Aug. 2, 1935	3.32	790	1947	June 8, 1947	3.98	1,500
				1948	May 5, 1948	3.12	622
1936	Mar. 25, 1936	5.15	2,970	1949	Jan. 28, 1949	2.85	420
1937	Jan. 25, 1937	5.11	2,900	1950	Mar. 27, 1950	3.67	1,130
1938	Apr. 10, 1938	4.22	1,760				
1939	Feb. 21, 1939	3.86	1,370	1951	Dec. 4, 1950	3.68	1,180
1940	Apr. 21, 1940	4.69	2,360				
				1959	Jan. 21, 1959	4.35	1,950
1941	Dec. 30, 1940	3.37	873				

975. Meander Creek at Mineral Ridge, Ohio

Location.--Lat 41°09'26", long 80°46'31", three-eighths of a mile upstream from highway bridge, three-quarters of a mile downstream from Mineral Ridge Dam, and 1 mile northwest of Mineral Ridge, Trumbull County.

Drainage area.--84.9 sq mi.

Gage.--Recording. Datum of gage is 854.81 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs.

Remarks.--Flow regulated by Meander Creek Reservoir (32,410 acre-ft, 84.9 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Jan. 14, 1930	5.30	960	1941	Dec. 30, 1940	5.55	778
				1942	Mar. 9, 1942	7.51	1,740
1931	May 25, 1931	2.51	67	1943	Dec. 30, 1942	9.04	2,880
1932	Jan. 30, 1932	4.43	620	1944	Apr. 12, 1944	5.6	800
1933	Mar. 14, 1933	7.38	2,050	1945	Mar. 7, 1945	8.15	2,250
1934	Sept.30, 1934	4.60	217				
1935	May 4, 1935	5.97	950	1946	May 28, 1946	12.1	5,500
				1947	Feb. 3, 1947	6.62	1,190
1936	Mar. 24, 1936	8.51	2,480	1948	May 5, 1948	6.96	1,380
1937	Jan. 25, 1937	9.18	3,040	1949	Jan. 28, 1949	6.82	1,290
1938	Apr. 9, 1938	7.22	1,570	1950	Feb. 14, 1950	6.88	1,350
1939	Mar. 12, 1939	7.85	1,980				
1940	Apr. 20, 1940	8.63	2,560	1951	Feb. 21, 1951	6.88	1,350

980. Mahoning River at Youngstown, Ohio

Location.--Lat 41°06'41", long 80°40'25", 400 ft upstream from Bridge Street Bridge in Youngstown, Mahoning County, and three-quarters of a mile upstream from Mill Creek.

Drainage area.--899 sq mi. Channel slope, principal stream, 3.1 ft per mile; channel slope, tributary, 23.8 ft per mile; longest watercourse, 82.2 miles; mean elevation of land, 1,038 ft above mean sea level; average land slope, 158 ft per mile.

Gage.--Nonrecording prior to Nov. 16, 1926; recording thereafter. At site 400 ft downstream at same datum prior to Nov. 16, 1926. Datum of gage is 826.53 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District).

Stage-discharge relation.--Defined by current-meter measurements below 16,900 cfs. Peaks after 1943 have been corrected for backwater from Mill Creek when backwater existed; peaks prior to 1943 may be in error from unknown amounts of backwater.

Bankfull stage.--12 ft.

Remarks.--Flow regulated by Milton Reservoir (29,150 acre-ft, 276 sq mi) since 1916, Meander Creek Reservoir (32,410 acre-ft, 84.9 sq mi) since 1929, Berlin Reservoir (91,150 acre-ft, 249 sq mi) since December 1942, and Mosquito Creek Reservoir (104,100 acre-ft, 97.4 sq mi) since October 1943. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 2, 1910	a16.3	b20,200	1922	Apr. 15, 1922	8.4	6,320
				1923	May 13, 1923	7.6	5,440
1911	Oct. 2, 1910	a14.3	b16,600	1924	July 1, 1924	11.6	11,800
				1925	Feb. 24, 1925	9.0	7,000
1913	Mar. 26, 1913	a26.5	b42,500				
1914	May 13, 1914	a14.2	b16,400	1926	Feb. 26, 1926	10.7	10,500
1915	Feb. 2, 1915	a12.4	b13,200	1927	Mar. 22, 1927	11.8	12,400
				1928	Dec. 14, 1927	12.7	14,000
1916	Jan. 3, 1916	a13.8	b15,500	1929	Apr. 5, 1929	12.6	13,800

a From U.S. Weather Bureau records adjusted to present datum.
b Estimated from stage-discharge relation developed later for Geological Survey gage by Corps of Engineers.

Peak stages and discharges of Mahoning River at Youngstown, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Jan. 14, 1930	10.7	10,600	1947	June 3, 1947	10.51	9,660
				1948	May 6, 1948	c7.80	5,800
1931	Apr. 4, 1931	6.35	4,420	1949	Jan. 28, 1949	c7.45	5,000
1932	Jan. 19, 1932	8.36	7,160	1950	Feb. 15, 1950	c11.17	9,800
1933	Mar. 15, 1933	11.50	11,900				
1934	Apr. 6, 1934	7.11	5,340	1951	Feb. 22, 1951	9.42	8,120
1935	Jan. 23, 1935	7.52	5,900	1952	Jan. 27, 1952	c13.62	13,400
				1953	May 23, 1953	c7.68	5,080
1936	Mar. 25, 1936	14.31	16,900	1954	Apr. 27, 1954	8.52	5,930
1937	Jan. 25, 1937	14.92	17,600	1955	Oct. 17, 1954	e10.67	8,400
1938	Apr. 9, 1938	10.96	10,800				
1939	Mar. 13, 1939	10.22	9,480	1956	May 13, 1956	c13.20	-
1940	Apr. 21, 1940	12.78	13,900		May 14, 1956	12.17	11,800
				1957	Apr. 5, 1957	11.52	10,800
1941	Dec. 31, 1940	9.59	8,490	1958	July 16, 1958	9.08	7,190
1942	Apr. 10, 1942	11.92	11,700	1959	Jan. 22, 1959	f18.62	16,900
1943	Dec. 30, 1942	c14.04	13,300	1960	Mar. 30, 1960	11.75	10,900
1944	Apr. 13, 1944	8.95	7,560				
1945	Mar. 21, 1945	d8.92	6,900	1961	Feb. 27, 1961	c7.75	-
					Feb. 27, 1961	7.5	5,050
1946	May 28, 1946	c14.16	11,400				

c Backwater from Mill Creek. d Occurred Mar. 7, 1945; backwater from Mill Creek.
e Occurred Oct. 16, 1954; backwater from Mill Creek. f Backwater from ice.

985. Mill Creek at Youngstown, Ohio

Location.--Lat 41°04'20", long 80°41'25", in Mill Creek Park in Youngstown, Mahoning County, 2½ miles upstream from mouth.

Drainage area.--68.4 sq mi.

Gage.--Recording. Datum of gage is 898.52 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,720 cfs.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	-	7,140	1950	Feb. 23, 1950	2.90	630
					Mar. 23, 1950	2.82	590
1944	Apr. 11, 1944	3.18	512		Mar. 26, 1950	2.90	630
					Apr. 5, 1950	2.66	512
1945	Feb. 17, 1945	3.42	605		Apr. 26, 1950	3.03	702
	Feb. 22, 1945	4.45	1,160				
	Mar. 3, 1945	3.37	592	1951	Dec. 4, 1950	4.59	1,740
	Mar. 7, 1945	4.95	1,480		Dec. 7, 1950	3.21	800
	Mar. 21, 1945	4.08	960		Jan. 4, 1951	3.88	1,240
	Apr. 5, 1945	3.29	556		Feb. 13, 1951	3.83	1,210
					Feb. 21, 1951	3.49	980
1946	Oct. 23, 1945	3.21	524		Mar. 4, 1951	3.14	764
	Feb. 27, 1946	5.08	1,590		Mar. 19, 1951	3.38	920
	May 21, 1946	3.90	850		Mar. 30, 1951	3.40	920
	May 27, 1946	9.00	6,100				
				1952	Jan. 1, 1952	2.89	630
1947	Jan. 20, 1947	2.80	580		Jan. 18, 1952	3.83	1,210
	Jan. 30, 1947	3.42	920		Jan. 27, 1952	5.30	2,600
	Apr. 16, 1947	2.68	521		Feb. 4, 1952	3.58	1,280
	Apr. 21, 1947	2.70	530		Mar. 11, 1952	3.28	1,060
	June 3, 1947	2.67	516		Apr. 15, 1952	3.43	1,170
	June 7, 1947	4.80	1,900				
				1953	Jan. 28, 1953	2.50	535
1948	Feb. 14, 1948	3.13	758		Mar. 25, 1953	2.57	577
	Mar. 19, 1948	2.91	636		Apr. 10, 1953	2.82	733
	Apr. 12, 1948	2.92	641		May 22, 1953	4.88	2,280
	Apr. 14, 1948	3.92	1,240				
	May 5, 1948	3.31	860	1954	Mar. 30, 1954	2.68	549
					Apr. 17, 1954	2.81	626
1949	Dec. 16, 1948	3.77	1,140		Apr. 27, 1954	2.64	527
	Jan. 28, 1949	3.38	920				
				1955	Oct. 16, 1954	5.50	2,920
1950	Jan. 10, 1950	2.71	535		Dec. 30, 1954	2.77	602
	Feb. 14, 1950	4.23	1,480		Feb. 22, 1955	3.35	1,010

Peak stages and discharges of Mill Creek at Youngstown, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 1, 1955	2.78	608	1957	Jan. 23, 1957	3.28	830
	Mar. 4, 1955	2.84	646		Apr. 4, 1957	6.50	3,230
	Mar. 11, 1955	2.98	737		Apr. 9, 1957	4.05	1,250
	Mar. 22, 1955	3.05	785		June 29, 1957	3.09	725
	Apr. 20, 1955	3.36	1,010				
	Apr. 26, 1955	2.63	522	1958	Apr. 29, 1958	3.46	912
					July 11, 1958	4.07	1,250
1956	Feb. 7, 1956	3.28	830		July 15, 1958	4.21	1,340
	Feb. 12, 1956	3.36	858		Aug. 1, 1958	5.35	2,210
	Feb. 26, 1956	5.07	1,930				
	Mar. 8, 1956	3.54	968	1959	Jan. 22, 1959	7.49	4,290
	Apr. 3, 1956	4.28	1,400		Feb. 10, 1959	6.00	2,740
	May 13, 1956	5.97	2,740				
	June 18, 1956	3.32	830	1960	Dec. 12, 1959	3.38	874
	June 24, 1956	3.36	858		Feb. 11, 1960	3.11	730
	July 17, 1956	3.12	725		Mar. 29, 1960	4.41	1,470
	July 27, 1956	2.86	602				
	Aug. 6, 1956	3.90	1,160	1961	Feb. 26, 1961	2.95	650

995. Mahoning River at Lowellville, Ohio

Location.--Lat 41°02'10", long 80°32'10", at Lowellville, Mahoning County, 1 mile upstream from Ohio-Pennsylvania State line and 3 miles downstream from Yellow Creek.

Drainage area.--1,076 sq mi.

Gage.--Nonrecording prior to Oct. 26, 1944; recording thereafter. At site 300 ft downstream at same datum prior to Oct. 26, 1944. Datum of gage is 796.84 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 17,500 cfs.

Remarks.--Flow regulated by several reservoirs. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a17.8	-	1952	Jan. 27, 1952	11.95	16,200
				1953	May 22, 1953	7.65	7,230
1944	Apr. 13, 1944	8.0	8,150	1954	Apr. 27, 1954	7.53	7,050
1945	Mar. 21, 1945	8.44	8,580	1955	Oct. 16, 1954	10.97	13,300
1946	May 27, 1946	13.73	20,000	1956	May 13, 1956	11.45	14,200
1947	June 3, 1947	8.96	9,770	1957	Apr. 5, 1957	10.24	12,200
1948	May 5, 1948	7.54	7,050	1958	July 17, 1958	8.27	7,940
1949	Jan. 28, 1949	7.10	6,330	1959	Jan. 21, 1959	14.43	21,000
1950	Feb. 15, 1950	9.67	11,400	1960	Mar. 31, 1960	10.20	11,600
1951	Feb. 21, 1951	8.71	9,210	1961	Feb. 27, 1961	7.55	5,610

a Maximum known.

1000. Shenango River near Turnerville, Pa.

Location.--Lat 41°30'45", long 80°28'25", at single-span steel highway bridge half a mile east of Turnerville, Crawford County.

Drainage area.--152 sq mi.

Gage.--Recording prior to Oct. 1, 1918; nonrecording thereafter. At datum 5.62 ft higher prior to Oct. 1, 1919. Datum of gage is 970.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Shenango River near Turnerville, Pa.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 19, 1912	12.5	2,970	1918	Mar. 15, 1918	7.6	3,450
1913	Mar. 26, 1913	16.4	11,000	1919	May 11, 1919	6.92	2,900
1914	May 13, 1914	7.1	2,930	1920	Mar. 13, 1920	13.4	4,180
1915	Feb. 3, 1915	7.1	2,930				
				1921	Mar. 29, 1921	10.8	1,610
1916	Mar. 28, 1916	8.2	4,180	1922	Nov. 3, 1921	11.5	2,040
1917	Jan. 7, 1917	6.5	2,340				

1010. Sugar Run at Pymatuning Dam, Pa.

Location.--Lat 41°29'50", long 80°27'55", on right bank at highway bridge at Pymatuning Dam, Crawford County, a quarter of a mile upstream from mouth, and 1¾ miles northwest of Jamestown.

Drainage area.--9.34 sq mi.

Gage.--Nonrecording prior to Oct. 17, 1938; recording thereafter. Datum of gage is 984.58 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended on basis of slope-area measurement at 1,970 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 15, 1935	2.95	405	1946	Feb. 27, 1946	3.20	417
					May 21, 1946	2.63	273
1936	Mar. 24, 1936	4.0	820				
				1947	Mar. 14, 1947	a3.64	-
1937	Jan. 15, 1937	2.5	280		Apr. 5, 1947	3.58	635
	Jan. 18, 1937	2.6	309		May 25, 1947	2.60	266
	Jan. 21, 1937	4.1	870		June 2, 1947	3.71	680
	Jan. 24, 1937	4.3	970		July 14, 1947	3.47	576
	Apr. 26, 1937	3.3	518		July 17, 1947	4.50	1,070
	Sept. 4, 1937	6.8	2,800				
				1948	Feb. 14, 1948	a2.88	300
1938	Dec. 18, 1937	3.5	500		Mar. 19, 1948	3.05	377
	Mar. 5, 1938	3.2	417		Apr. 28, 1948	3.11	390
	Mar. 17, 1938	2.6	266				
	Apr. 8, 1938	3.1	390	1949	Mar. 23, 1949	2.09	156
1939	Feb. 19, 1939	2.54	252	1950	Jan. 16, 1950	2.67	302
	Feb. 28, 1939	2.70	290		Feb. 13, 1950	2.96	388
	Mar. 12, 1939	2.58	261		Mar. 26, 1950	3.10	431
					Apr. 4, 1950	2.86	357
1940	Jan. 14, 1940	a3.66	-		Apr. 25, 1950	2.59	280
	Feb. 12, 1940	a4.15	-		June 3, 1950	3.42	524
	Mar. 3, 1940	a3.96	-				
	Mar. 18, 1940	a4.60	-	1951	Dec. 3, 1950	3.58	586
	Apr. 20, 1940	3.65	542		Dec. 7, 1950	2.58	278
	May 31, 1940	2.73	297		Jan. 3, 1951	2.79	336
					Feb. 12, 1951	2.53	265
1941	Aug. 26, 1941	2.37	214		June 13, 1951	2.88	363
1942	Feb. 16, 1942	a2.75	-	1952	Nov. 23, 1951	2.61	287
	Mar. 9, 1942	a2.86	-		Jan. 18, 1952	3.34	561
	Mar. 16, 1942	4.39	1,020		Jan. 26, 1952	4.17	856
	Apr. 10, 1942	2.93	386		Feb. 4, 1952	2.86	364
	May 16, 1942	2.92	383		Mar. 11, 1952	2.50	257
1943	Feb. 11, 1943	2.85	326	1953	Jan. 18, 1953	2.01	145
	Apr. 19, 1943	2.78	309				
	May 8, 1943	2.76	304	1954	Mar. 1, 1954	3.68	696
					Apr. 16, 1954	2.74	325
1944	Apr. 11, 1944	3.18	417				
	May 23, 1944	2.81	316	1955	Oct. 15, 1954	5.84	1,970
					Dec. 18, 1954	2.54	268
1945	Feb. 22, 1945	a4.57	950		Mar. 4, 1955	3.07	434
					Apr. 25, 1955	2.94	390
1946	Oct. 23, 1945	2.70	290		Aug. 11, 1955	3.77	702

a Backwater from ice.

1015. Shenango River at Pymatuning Dam, Pa.

Location.--Lat 41°29'55", long 80°27'30", on left bank 500 ft downstream from Sugar Run, 550 ft downstream from Pymatuning Dam, Crawford County, and 1½ miles northwest of Jamestown.

Drainage area.--167 sq mi.

Gage.--Recording. Datum of gage is 970.00 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Pymatuning Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 15, 1935	5.74	516	1949	Jan. 28, 1949	5.92	575
				1950	Apr. 4, 1950	7.75	1,180
1936	Apr. 1, 1936	6.80	880				
1937	Sept. 4, 1937	9.2	1,540	1951	Dec. 3, 1950	6.77	880
1938	Mar. 17, 1938	6.74	768	1952	Jan. 26, 1952	7.64	1,120
1939	Feb. 28, 1939	6.67	768	1953	Sept.29, 1953	5.74	518
1940	Apr. 20, 1940	7.51	1,090	1954	Apr.30,May 2, 1954	6.97	940
1941	Dec. 30, 1940	7.23	1,000	1955	Oct. 15, 1954	8.75	1,430
1942	Mar. 11, 1942	8.32	1,340				
1943	June 6,7,1943	8.00	1,220	1956	June 22, 1956	7.34	1,030
1944	Mar. 21, 1944	7.05	940	1957	June 29, 1957	8.52	1,360
1945	Sept.25, 1945	7.05	940	1958	July 15, 1958	8.88	1,460
				1959	Jan. 21, 1959	8.15	1,280
1946	Mar. 7, 1946	7.19	1,000	1960	Mar. 29, 1960	6.88	910
1947	June 2, 1947	8.46	1,360				
1948	Mar. 27, 1948	7.51	1,090	1961	Apr. 26, 1961	7.84	1,180

1020. Shenango River near Jamestown, Pa.

Location.--Lat 41°27'30", long 80°25'30", at Frye Bridge, 2 miles downstream from Jamestown, Mercer County.

Drainage area.--181 sq mi.

Gage.--Nonrecording. Datum of gage is 955.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs and extended by logarithmic plotting.

Remarks.--Only annual peaks are shown. Flow regulated since October 1932 by Pymatuning Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	14.2	-	1927	Jan. 23, 1927	8.38	2,530
				1928	Dec. 1, 1927	8.00	2,330
1920	Mar. 13, 1920	9.6	3,040	1929	Jan. 20, 1929	9.10	2,790
				1930	Jan. 14, 1930	7.8	2,180
1921	Mar. 29, 1921	6.7	1,680				
1922	Nov. 3, 1921	7.4	2,000	1931	Apr. 4, 1931	5.63	1,240
1923	Jan. 21, 1923	6.85	1,720	1932	May 9, 1932	7.71	2,130
1924	May 10, 1924	7.4	2,030	1933	Mar. 14, 1933	5.6	1,240
1925	Feb. 11, 1925	8.60	2,630	1934	Jan. 1, 1934	4.74	886
1926	Sept.27, 1926	7.7	2,180				

1025. Little Shenango River at Greenville, Pa.

Location.--Lat 41°25'15", long 80°22'35", on left bank 1,500 ft downstream from Williamson Crossing Bridge, 1 mile northeast of Greenville, Mercer County, and 2 miles upstream from mouth.

Drainage area.--104 sq mi.

Gage.--Nonrecording Jan. 1, 1914, to Nov. 4, 1915; recording Nov. 4, 1915, to Sept, 30, 1918; nonrecording Nov. 7, 1919, to Aug. 31, 1923, and Nov. 19, 1925, to June 20, 1934; recording thereafter. At site 1 mile downstream at datum 8.96 ft lower prior to June 21, 1934. Datum of present gage is 953.46 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended on basis of slope-area measurement at 6,200 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	4.6	1,510
	Apr. 9, 1914	5.4	2,070
	Apr. 26, 1914	5.2	1,930
	May 12, 1914	6.4	2,770
1915	Jan. 7, 1915	5.9	2,420
	Feb. 2, 1915	8.0	3,890
	Aug. 4, 1915	6.41	2,770
1916	Jan. 2, 1916	6.8	a3,050
1917	June 9, 1917	5.3	a2,000
1918	Mar. 14, 1918	6.1	a2,560
1920	Mar. 11, 1920	6.8	3,070
	June 17, 1920	5.2	1,920
1921	Mar. 28, 1921	4.5	1,420
1922	Nov. 2, 1921	5.55	2,210
	Feb. 13, 1922	b7.60	-
1923	Jan. 21, 1923	5.6	2,210
1926	Jan. 19, 1926	b5.2	-
	Feb. 26, 1926	b9.60	-
	Sept.25, 1926	5.1	1,850
1927	Oct. 25, 1926	5.6	2,210
	Nov. 16, 1926	5.0	1,780
	Jan. 20, 1927	b7.85	-
	Jan. 22, 1927	6.2	2,640
	Mar. 21, 1927	5.4	2,070
1928	Dec. 1, 1927	7.05	3,220
	Dec. 14, 1927	6.2	2,640
	Dec. 30, 1927	4.7	1,560
	June 6, 1928	4.9	1,700
1929	Jan. 19, 1929	5.8	2,350
	Feb. 27, 1929	6.0	2,490
	Apr. 5, 1929	5.4	2,070
	May 3, 1929	7.0	3,220
1930	Nov. 18, 1929	5.0	1,790
	Jan. 12, 1930	4.72	1,580
	Jan. 14, 1930	5.5	2,140
	Feb. 13, 1950	5.0	1,790
1931	May 23, 1931	3.84	970
1932	Jan. 18, 1932	4.9	1,720
1933	Mar. 14, 1933	5.86	2,420
	Apr. 12, 1933	4.65	1,510
1934	Jan. 2, 1934	4.5	1,440
	Mar. 4, 1934	b4.65	-
1935	Feb. 16, 1935	5.66	1,280
1936	Feb. 27, 1936	b7.50	-
	Mar. 25, 1936	10.81	4,440
1937	Jan. 15, 1937	8.66	2,890
	Jan. 25, 1937	11.00	4,600
	Apr. 26, 1937	8.76	2,960
1938	Dec. 18, 1937	8.67	2,780
	Mar. 6, 1938	7.45	2,030
	Apr. 9, 1938	7.38	2,030
1939	Feb. 20, 1939	7.05	1,810
	Mar. 1, 1939	6.61	1,610
1940	Feb. 12, 1940	6.63	1,610
	Apr. 20, 1940	8.45	2,600
1941	Dec. 29, 1940	5.75	1,230
1942	Feb. 7, 1942	6.86	1,760
	Feb. 17, 1942	8.69	2,780
	Mar. 9, 1942	8.52	2,660
	Mar. 14, 1942	6.88	1,560
	Mar. 17, 1942	7.96	2,140
	Apr. 10, 1942	8.91	2,900
	May 16, 1942	7.19	1,920
	May 23, 1942	6.60	1,610
1943	Dec. 30, 1942	8.38	2,360
	Feb. 11, 1943	7.48	2,080
	Apr. 20, 1943	6.95	1,810
1944	Apr. 12, 1944	6.90	1,760
1945	Feb. 23, 1945	9.73	3,460
	Feb. 27, 1945	7.48	2,080
1946	Oct. 24, 1945	6.52	1,560
	Feb. 27, 1946	7.54	2,080
	May 28, 1946	12.26	6,200
1947	Apr. 2, 1947	6.94	1,840
	Apr. 5, 1947	6.93	1,840
	June 3, 1947	7.07	1,960
1948	Feb. 14, 1948	7.42	2,140
	Mar. 20, 1948	7.32	2,080
	Mar. 22, 1948	7.16	2,020
	Apr. 12, 1948	6.47	1,600
	Apr. 28, 1948	6.57	1,660
1949	Jan. 6, 1949	5.86	1,300
1950	Jan. 16, 1950	6.70	1,720
	Feb. 14, 1950	8.74	3,030
	Mar. 27, 1950	9.22	3,420
	Apr. 5, 1950	6.40	1,550

a Annual peak only.
b Backwater from ice.

Peak stages and discharges of Little Shenango River at Greenville, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 26, 1950	6.34	1,500	1956	Nov. 16, 1955	9.58	3,500
					Feb. 25, 1956	9.22	3,190
1951	Dec. 4, 1950	10.14	3,920		Mar. 8, 1956	7.41	2,040
	Dec. 8, 1950	6.97	1,820		May 12, 1956	7.37	2,040
	Jan. 4, 1951	9.55	3,500		Aug. 5, 1956	8.30	2,580
	Feb. 13, 1951	7.29	1,980				
	Mar. 4, 1951	7.01	1,820	1957	Jan. 23, 1957	8.99	3,050
					Apr. 5, 1957	7.89	2,340
1952	Nov. 23, 1951	6.35	1,520		June 29, 1957	7.73	2,220
	Jan. 18, 1952	8.96	3,050				
	Jan. 27, 1952	11.00	4,750	1958	July 15, 1958	13.50	7,580
	Feb. 4, 1952	6.83	1,720				
	May 12, 1952	7.95	2,400	1959	Jan. 22, 1959	14.30	8,540
					Feb. 10, 1959	10.30	4,100
1953	June 1, 1953	5.07	920		Apr. 29, 1959	7.47	2,100
1954	Mar. 1, 1954	9.0	3,050	1960	Dec. 13, 1959	8.96	3,050
	Apr. 17, 1954	6.95	1,820		Mar. 30, 1960	9.74	3,580
					May 9, 1960	6.69	1,690
1955	Oct. 16, 1954	12.73	6,620				
	Feb. 22, 1955	7.18	1,920	1961	Feb. 19, 1961	7.13	1,890
	Mar. 4, 1955	7.34	1,980		Apr. 26, 1961	7.56	2,160
	Apr. 26, 1955	7.21	1,920				

1029. Clear Creek at Dilworth, Ohio

Location.--Lat 41°26'40", long 80°39'55", at bridge on State Highway 90, at Dilworth, Trumbull County, and 1.1 miles south of Gustavus.

Drainage area.--0.91 sq mi. Length of main stream, 1.42 miles; average slope main stream, 50 ft per mile; average slope main stream and tributaries, 48 ft per mile; slope at gage, 50 ft per mile; length divided by average width of basin, 2.22.

Gage.--Crest-stage gage. Altitude of gage is 1,034 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 52 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 7, 1947	11.09	327	1955	-	10.70	186
1948	-	10.10	63				
1949	-	9.0	13	1956	-	10.19	75
1950	-	10.22	80	1957	-	10.26	86
				1958	July 14, 1958	11.55	749
1951	-	10.35	103	1959	Jan. 21, 1959	10.60	158
1952	-	10.33	100	1960	-	9.84	40
1953	-	9.83	40				
1954	-	10.12	66	1961	-	(a)	32

a Peak stage did not reach bottom of gage, discharge less than amount shown.

1030. Pymatuning Creek near Orangeville, Pa.

Location.--Lat 41°18'40", long 80°28'40", on right bank 2 miles upstream from mouth, 3 miles southeast of Orangeville, Mercer County, and 3 miles north of Sharpsville.

Drainage area.--169 sq mi.

Gage.--Nonrecording prior to June 18, 1934; recording thereafter. At site 1,500 ft downstream at datum 0.62 ft higher prior to June 18, 1934. Datum of present gage is 873.35 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended by logarithmic plotting.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown. Backwater from Shenango River affects peak stages.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a16.0	-	1939	Feb. 21, 1939	8.39	1,670
1914	May 13, 1914	8.0	4,200	1940	Apr. 21, 1940	9.65	2,750
1915	Feb. 3, 1915	9.1	6,200	1941	Dec. 30, 1940	7.87	1,460
1916	Mar. 28, 1916	7.6	3,640	1942	Apr. 11, 1942	9.64	2,750
1917	June 10, 1917	6.6	2,370	1943	Dec. 30, 1942	10.46	4,000
1918	Mar. 15, 1918	8.2	4,500	1944	Apr. 13, 1944	9.42	2,550
1919	May 11, 1919	7.75	3,920	1945	Feb. 23, 1945	10.15	3,550
1920	Mar. 13, 1920	8.9	5,800	1946	May 28, 1946	9.37	2,540
1921	Mar. 29, 1921	6.4	2,150	1947	June 4, 1947	9.77	3,010
1922	Apr. 1, 1922	6.80	2,610	1948	Mar. 23, 1948	9.74	2,890
1923	Jan. 21, 1923	6.5	2,260	1949	Jan. 28, 1949	8.01	1,310
1926	Feb. 27, 1926	7.55	3,640	1950	Feb. 15, 1950	9.90	3,130
1927	Jan. 23, 1927	8.60	5,200	1951	Dec. 4, 1950	10.31	3,400
1928	Dec. 2, 1927	7.82	3,920	1952	Jan. 27, 1952	10.52	4,000
1929	Apr. 5, 1929	8.60	5,200	1953	Mar. 25, 1953	6.96	900
1930	Jan. 14, 1930	7.51	3,500	1954	Mar. 3, 1954	9.52	2,090
1931	Apr. 4, 1931	5.05	1,170	1955	Oct. 16, 1954	10.73	3,650
1932	Jan. 15, 1932	6.3	1,910	1956	Nov. 16, 1955	10.80	3,600
1933	Mar. 15, 1933	7.7	2,980	1957	June 29, 1957	9.84	2,220
1934	Mar. 6, 1934	7.60	1,700	1958	July 15, 1958	11.77	5,200
1935	Jan. 22, 1935	7.24	1,180	1959	Jan. 22, 1959	b13.32	5,360
1936	Mar. 25, 1936	10.68	4,300	1960	Mar. 31, 1960	10.71	3,440
1937	Jan. 25, 1937	10.41	3,850	1961	Apr. 27, 1961	10.17	2,700
1938	Apr. 10, 1938	9.16	2,200				

a Maximum stage known, backwater from Shenango River.
b Backwater from Shenango River.

1035. Shenango River at Sharpsville, Pa.

Location.--Lat 41°16'00", long 80°28'20", on left bank 700 ft upstream from Erie Railroad bridge at Sharpsville, Mercer County, and 3 miles downstream from Pymatuning Creek.

Drainage area.--588 sq mi.

Gage.--Recording. Datum of gage is 861.57 ft above mean sea level, datum of 1929, New York-Pennsylvania supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Maximum stage known, 19.3 ft Mar. 26, 1913, from Pymatuning survey profile map.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Pymatuning Reservoir.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	7.03	4,570	1951	Dec. 5, 1950	10.61	10,300
1940	Apr. 21, 1940	9.08	7,880	1952	Jan. 27, 1952	12.04	12,800
				1953	Mar. 25, 1953	-	-
1941	Dec. 30, 1940	6.62	4,200	1954	Mar. 2, 1954	8.64	7,070
1942	Apr. 11, 1942	9.33	8,200	1955	Oct. 16, 1954	12.64	13,900
1943	Dec. 30, 1942	10.35	9,960				
1944	Apr. 13, 1944	7.64	5,600	1956	Nov. 17, 1955	9.28	8,170
1945	Feb. 23, 1945	9.91	9,160	1957	Jan. 24, 1957	8.57	7,070
				1958	July 16, 1958	13.97	12,900
1946	May 28, 1946	10.57	10,300	1959	Jan. 22, 1959	15.97	15,700
1947	June 4, 1947	8.32	6,650	1960	Mar. 31, 1960	10.97	8,980
1948	Mar. 20, 1948	7.06	4,900				
1949	Jan. 28, 1949	6.60	4,220	1961	Apr. 27, 1961	9.42	7,040
1950	Feb. 15, 1950	9.83	9,000				

1040. Shenango River at Sharon, Pa.

Location.--Lat 41°13'55", long 80°30'35", at Chestnut Street Bridge in Sharon, Mercer County, 500 ft upstream from Pine Run.

Drainage area.--608 sq mi.

Gage.--Nonrecording prior to Apr. 1, 1915; recording Apr. 1, 1915, to May 23, 1919; nonrecording May 24, 1919, to Aug. 18, 1927; recording thereafter. Datum of gage is 840.00 ft above mean sea level (preliminary levels of 1905).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated by Pymatuning Reservoir since October 1932.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 2, 1910	12.81	a13,600	1924	Jan. 12, 1924	10.80	7,340
				1925	Feb. 10, 1925	11.3	8,130
1911	Sept.16, 1911	-	a13,000				
1912	Mar. 19, 1912	10.30	8,420	1926	Feb. 27, 1926	9.64	5,660
1913	Mar. 26, 1913	18.1	25,200	1927	Jan. 22, 1927	10.50	6,890
1914	May 13, 1914	-	9,930	1928	Dec. 2, 1927	12.30	9,760
1915	Feb. 2, 1915	-	12,700	1929	Apr. 5, 1929	12.00	9,250
				1930	Jan. 14, 1930	10.5	6,900
1916	Mar. 28, 1916	-	10,200				
1917	Jan. 6, 1917	-	7,120	1931	Apr. 4, 1931	7.15	3,000
1918	Mar. 15, 1918	-	16,000	1932	Jan. 18, 1932	8.82	4,680
1919	May 11, 1919	-	11,300	1933	Mar. 15, 1933	10.65	7,050
1920	Mar. 13, 1920	13.3	13,200	1934	Mar. 6, 1934	9.62	5,670
				1935	Jan. 22, 1935	7.73	3,490
1921	Mar. 29, 1921	8.4	4,230				
1922	Nov. 3, 1921,	8.80	4,690	1936	Mar. 25, 1936	13.40	11,900
	Apr. 1, 1922			1937	Jan. 26, 1937	13.52	12,400
1923	Jan. 22, 1923	8.9	4,810	1938	Dec. 19, 1937	10.59	7,400

a Maximum daily discharge.

1045. Shenango River at New Castle, Pa.

Location.--Lat 41°00'00", long 80°21'05", at West Washington Street Bridge, at New Castle, Lawrence County.

Drainage area.--792 sq mi.

Gage.--Nonrecording. Datum of gage is 787.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs and extended by logarithmic plotting.

Remarks.--Only annual peaks are shown. Flow regulated by Pymatuning Reservoir since October 1932.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	17.82	33,000	1924	Jan. 12, 1924	-	8,560
1914	May 14, 1914	-	9,480	1925	Feb. 10, 1925	9.3	10,200
1915	Feb. 3, 1915	-	13,800				
				1926	Feb. 26, 1926	7.7	7,050
1916	Mar. 29, 1916	-	10,600	1927	Jan. 23, 1927	8.7	8,960
1917	Jan. 7, 1917	-	7,980	1928	Dec. 2, 1927	9.60	10,800
1918	Mar. 16, 1918	-	12,000	1929	Apr. 6, 1929	11.10	14,200
1919	May 11, 1919	-	10,200	1930	Jan. 15, 1930	8.25	8,260
1920	Mar. 13, 1920	9.60	10,800				
				1931	Apr. 5, 1931	5.36	3,920
1921	Mar. 29, 1921	6.7	5,340	1932	Jan. 18, 1932	6.8	5,980
1922	Apr. 1, 1922	6.87	5,660	1933	Mar. 15, 1933	8.48	8,800
1923	Jan. 22, 1923	6.5	5,020	1934	Aug. 9, 1934	6.20	4,920

1050. Neshannock Creek at Eastbrook, Pa.

Location.--Lat 41°02'30", long 80°18'20", at single-span wooden highway bridge at Eastbrook station of Pennsylvania Railroad, in Lawrence County.

Drainage area.--228 sq mi.

Gage.--Nonrecording. Datum of gage is 877.53 ft unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	May 10, 1919	5.8	5,000	1922	Apr. 14, 1922	4.44	2,480
1920	Mar. 12, 1920	7.2	6,690	1923	May 12, 1923	4.3	2,400
1921	June 29, 1921	3.7	1,660	1946	May 28, 1946	-	a10,000

a Slope-area measurement.

1055. Beaver River at Wampum, Pa.
(Published as "at Newport" 1914-18)

Location.--Lat 40°53'15", long 80°20'05", on right bank at downstream side of bridge on State Highway 288 at Wampum, Lawrence County, 2¾ miles upstream from Connoquenessing Creek.

Drainage area.--2,235 sq mi.

Gage.--Nonrecording prior to Nov. 16, 1938; recording thereafter. At site 1 mile upstream at datum 0.84 ft higher prior to Sept. 30, 1918. Datum of present gage is 736.24 ft above mean sea level (Pennsylvania Railroad bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 24,000 cfs and extended on basis of contracted-opening measurement at 48,000 cfs.

Bankfull stage.--25 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1942 by Berlin, since 1916 by Milton, since 1944 by Mosquito Creek, since 1929 by Meander Creek, and since 1933 by Pymatuning Reservoirs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	29.9	87,000	1945	Mar. 22, 1945	13.77	21,000
1915	Feb. 2, 1915	17.6	37,900	1946	May 28, 1946	a21.53	50,100
				1947	June 3, 1947	12.06	17,000
1916	Mar. 27, 1916	16.0	31,200	1948	Apr. 14, 1948	12.13	17,000
1917	Jan. 6, 1917	13.5	21,300	1949	Jan. 28, 1949	11.54	15,800
1918	Feb. 20, 1918	15.4	28,800	1950	Feb. 15, 1950	a15.55	23,500
1933	Mar. 15, 1933	16.06	24,300	1951	Dec. 4, 1950	a15.00	22,300
1934	Aug. 9, 1934	12.7	17,300	1952	Jan. 27, 1952	a19.90	36,700
1935	Aug. 3, 1935	10.5	13,900	1953	May 22, 1953	10.70	13,700
				1954	Mar. 3, 1954	10.87	14,100
1936	Mar. 25, 1936	19.22	34,000	1955	Oct. 16, 1954	a20.61	41,400
1937	Jan. 25, 1937	21.44	48,000				
1938	Apr. 10, 1938	15.0	22,100	1956	Feb. 26, 1956	a15.49	23,200
1939	Mar. 13, 1939	14.90	21,900	1957	Apr. 5, 1957	a15.99	24,100
1940	Apr. 21, 1940	17.72	29,200	1958	July 17, 1958	13.77	20,900
				1959	Jan. 22, 1959	a24.86	49,900
1941	Dec. 31, 1940	10.87	15,600	1960	Mar. 31, 1960	a15.79	24,000
1942	Apr. 11, 1942	15.19	25,300				
1943	Dec. 30, 1942	a20.54	40,900	1961	June 10, 1961	9.82	12,600
1944	Apr. 13, 1944	12.29	17,400				

a Backwater from Connoquenessing Creek.

1060. Connoquenessing Creek at Hazen, Pa.
(Published as "near Hazen" prior to 1929)

Location.--Lat 40°49'00", long 80°14'35", on right bank at downstream side of highway bridge at Hazen, Beaver County, half a mile upstream from Brush Creek.

Drainage area.--356 sq mi.

Gage.--Nonrecording prior to June 23, 1941; recording thereafter. Datum of gage is 852.31 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	8.5	5,450	1918	Oct. 25, 1917	7.0	4,100
	Jan. 2, 1916	9.1	6,000		Feb. 20, 1918	a11.0	-
	Mar. 26, 1916	8.0	5,000				
1917	Jan. 5, 1917	8.2	5,180	1919	May 10, 1919	8.6	5,540

a Backwater from ice.

Peak stages and discharges of Connoquenessing Creek at Hazen, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 5, 1920	a15	-
	Mar. 11, 1920	9.9	6,800
	June 17, 1920	8.4	5,360
1921	Mar. 8, 1921	7.3	4,370
1922	Mar. 7, 1922	9.65	6,500
	Apr. 15, 1922	9.6	6,500
1923	May 13, 1923	13.2	11,600
1924	Dec. 6, 1923	10.3	7,400
	Jan. 17, 1924	11.0	8,240
	May 9, 1924	10.7	7,880
	June 29, 1924	16.66	23,000
	Sept.30, 1924	10.1	7,130
1925	Feb. 9, 1925	11.35	8,300
1926	Feb. 25, 1926	8.9	5,800
	Sept. 5, 1926	11.6	8,500
	Sept.24, 1926	10.7	7,850
1927	Nov. 16, 1926	10.6	7,730
	Jan. 19, 1927	a10.6	-
	Jan. 22, 1927	10.4	7,490
	Mar. 21, 1927	9.5	6,460
	May 19, 1927	10.4	7,490
1928	Nov. 18, 1927	13.0	10,700
	Dec. 14, 1927	12.4	9,920
	Mar. 30, 1928	9.2	6,140
	June 6, 1928	10.1	7,130
	July 14, 1928	8.2	5,080
	July 20, 1928	11.2	8,440
1929	Feb. 26, 1929	11.80	9,160
	Apr. 5, 1929	9.6	6,580
1930	Oct. 3, 1929	9.0	6,080
	Nov. 18, 1929	8.3	5,380
	Jan. 12, 1930	8.0	5,080
	Feb. 26, 1930	12.0	9,400
1931	Apr. 4, 1931	7.35	4,480
1932	Jan. 23, 1932	7.7	4,780
1933	Mar. 15, 1933	13.1	10,600
1934	Aug. 9, 1934	9.38	6,520
1935	May 7, 1935	9.08	5,940
1936	Feb. 26, 1936	a10.7	-
	Mar. 17, 1936	12.45	9,560
1937	Nov. 5, 1936	10.1	7,620
	Jan. 15, 1937	9.3	6,430
	Jan. 22, 1937	12.90	10,700
	Jan. 25, 1937	13.01	10,900
	Apr. 26, 1937	12.9	10,700
	Aug. 22, 1937	8.7	5,550
1938	Dec. 18, 1937	12.00	9,530
	Mar. 15, 1938	9.05	5,880
	Apr. 9, 1938	11.00	8,240
1939	Jan. 30, 1939	8.80	5,660
	Mar. 12, 1939	11.6	9,010
1940	Mar. 4, 1940	11.8	9,270
	Apr. 20, 1940	13.9	12,200
1941	July 19, 1941	9.18	6,040
	Aug. 15, 1941	8.80	5,600
1942	Mar. 9, 1942	11.53	8,840
1942	Mar. 14, 1942	9.00	5,800
	Mar. 17, 1942	8.53	5,250
	Apr. 10, 1942	9.20	6,020
1943	Dec. 30, 1942	12.11	9,670
	Apr. 20, 1943	8.48	5,250
1944	Mar. 7, 1944	8.06	4,810
1945	Jan. 1, 1945	a13.58	-
	Feb. 14, 1945	a11.82	-
	Feb. 16, 1945	8.84	5,580
	Feb. 22, 1945	12.48	10,200
	Feb. 27, 1945	8.98	5,800
	Mar. 7, 1945	11.02	8,190
	Mar. 22, 1945	11.94	9,390
	Apr. 5, 1945	8.56	5,360
1946	Feb. 27, 1946	11.58	8,970
	May 28, 1946	10.88	8,060
1947	June 7, 1947	11.28	8,580
1948	Feb. 14, 1948	10.93	8,060
	Apr. 12, 1948	10.48	7,550
	Apr. 14, 1948	11.44	8,710
	Aug. 12, 1948	9.70	6,590
1949	Dec. 16, 1948	9.31	6,130
	Jan. 28, 1949	8.30	5,030
1950	Jan. 6, 1950	8.56	5,280
	Jan. 10, 1950	10.59	7,670
	Feb. 14, 1950	9.75	6,700
	Apr. 26, 1950	9.31	6,100
1951	Dec. 4, 1950	12.53	10,200
	Dec. 8, 1950	11.38	8,710
	Jan. 15, 1951	10.38	7,420
1952	Jan. 27, 1952	14.54	13,000
	Feb. 4, 1952	8.41	5,060
1953	Mar. 24, 1953	8.81	5,500
1954	Mar. 1, 1954	8.51	5,170
	Apr. 17, 1954	9.96	6,940
	June 17, 1954	8.48	5,170
1955	Oct. 16, 1954	15.51	18,200
	Feb. 22, 1955	8.56	5,270
1956	Feb. 7, 1956	10.62	7,730
	Feb. 12, 1956	8.76	5,510
	Feb. 26, 1956	12.47	10,300
	Mar. 8, 1956	9.63	6,470
	Apr. 3, 1956	9.02	5,750
	May 12, 1956	11.12	8,380
	June 24, 1956	10.45	7,470
	Aug. 6, 1956	11.07	8,380
1957	Jan. 23, 1957	9.00	5,750
	Apr. 5, 1957	13.86	13,400
	Apr. 9, 1957	8.54	5,150
1958	May 8, 1958	8.43	5,030
	Aug. 1, 1958	10.91	8,120
1959	Jan. 22, 1959	12.65	10,400
	Feb. 10, 1959	11.07	8,380
1960	Mar. 30, 1960	10.53	7,600
	May 8, 1960	9.08	5,870
	June 14, 1960	8.61	5,270
1961	Feb. 19, 1961	8.99	5,750

a Backwater from ice.

1065. Slippery Rock Creek at Wurtemburg, Pa.

Location.--Lat 40°53'00", long 80°13'55", on left bank at highway bridge at Camp Elwood, 2 miles north of Wurtemburg, Lawrence County, and 2.8 miles upstream from mouth.

Drainage area.--398 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1940; recording thereafter. Prior to Sept. 30, 1922, at site 1½ miles downstream at datum 13.77 ft lower and Oct. 1, 1922, to Sept. 30, 1940, at site 2 miles downstream at datum 18.92 ft lower. Datum of present gage is 831.40 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 26, 1912	a6.9	-
	Mar. 16, 1912	6.0	4,780
	Mar. 30, 1912	6.2	5,250
	Apr. 3, 1912	6.4	5,730
	Apr. 30, 1912	6.0	4,780
	July 24, 1912	5.65	4,020
	Aug. 26, 1912	8.17	10,800
	Sept. 3, 1912	6.9	7,050
1913	Jan. 8, 1913	8.0	10,300
	Jan. 12, 1913	7.1	7,630
	Jan. 18, 1913	6.0	4,780
	Jan. 24, 1913	5.8	4,330
	Feb. 28, 1913	5.8	4,330
	Mar. 26, 1913	10.21	17,800
1914	Nov. 14, 1913	6.2	4,910
	Jan. 30, 1914	5.6	3,710
	Mar. 16, 1914	5.6	3,710
	Mar. 28, 1914	5.8	4,100
	Apr. 8, 1914	5.7	3,900
	Apr. 26, 1914	6.8	6,240
	May 13, 1914	6.4	5,340
1915	Jan. 7, 1915	6.5	5,560
	Jan. 19, 1915	5.8	4,100
	Feb. 2, 1915	8.5	10,700
	Aug. 4, 1915	5.9	4,300
1916	Dec. 18, 1915	6.2	5,250
	Jan. 2, 1916	6.8	6,780
	Mar. 8, 1916	5.6	3,910
	Mar. 27, 1916	6.9	7,050
1917	Jan. 5, 1917	6.5	5,980
	June 7, 1917	6.3	5,490
	July 15, 1917	5.4	3,530
1918	Oct. 19, 1917	5.6	3,710
	Oct. 25, 1917	6.6	5,780
	Oct. 30, 1917	5.8	4,100
	Dec. 25, 1917	a6.64	-
	Feb. 13, 1918	a11.0	-
	Feb. 20, 1918	8.3	10,100
	Mar. 15, 1918	6.2	4,910
1919	May 11, 1919	6.2	4,990
1920	Mar. 5, 1920	6.1	4,770
	Mar. 13, 1920	8.9	11,000
	June 18, 1920	5.9	4,350
1921	June 23, 1921	5.57	3,760
1922	Nov. 2, 1921	5.77	4,150
	Feb. 13, 1922	a6.52	-
1922	Feb. 21, 1922	5.55	3,760
	Mar. 7, 1922	5.8	4,150
	Apr. 15, 1922	5.5	3,570
1923	Jan. 21, 1923	7.9	6,400
	May 13, 1923	8.4	7,550
1924	Dec. 6, 1923	6.8	4,070
	Mar. 5, 1924	6.5	3,530
	May 9, 1924	8.3	7,320
	Sept.30, 1924	7.8	6,170
1925	Feb. 10, 1925	8.1	6,860
1926	Feb. 26, 1926	7.7	5,950
	Sept. 5, 1926	9.0	9,000
1927	Oct. 25, 1926	6.5	3,530
	Nov. 17, 1926	6.8	4,070
	Jan. 20, 1927	8.62	8,030
	Mar. 21, 1927	7.6	5,730
1928	Nov. 18, 1927	-	b8,500
	Dec. 1, 1927	9.1	9,250
	Dec. 14, 1927	11.80	18,200
	Mar. 14, 1928	6.8	4,070
	June 6, 1928	6.8	4,070
	June 19, 1928	6.6	3,710
1929	Nov. 20, 1928	6.5	3,530
	Dec. 1, 1928	7.2	4,880
	Jan. 19, 1929	6.8	4,070
	Feb. 27, 1929	9.9	11,500
	Apr. 5, 1929	9.7	10,900
	May 3, 1929	7.1	4,670
	July 10, 1929	7.4	5,300
1930	Nov. 18, 1929	7.6	5,730
	Dec. 13, 1929	6.5	3,530
	Jan. 13, 1930	8.0	6,630
	Feb. 26, 1930	6.7	3,890
1931	June 8, 1931	5.85	2,930
1932	Dec. 13, 1931	7.1	4,670
	Jan. 18, 1932	7.2	4,880
	Jan. 26, 1932	6.5	3,530
1933	-	(c)	-
1934	Mar. 4, 1934	6.6	3,710
	Aug. 9, 1934	10.38	13,000
1935	Jan. 22, 1935	7.64	5,730
	May 8, 1935	7.22	4,880

a Backwater from ice.
b Estimated daily discharge.
c Maximum occurred in period of no gage-height record.

Peak stages and discharges of Slippery Rock Creek at Wurtemburg, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 26, 1936	7.8	6,170
	Mar. 17, 1936	6.9	4,270
	Mar. 25, 1936	9.04	9,000
1937	Nov. 5, 1936	6.8	4,070
	Jan. 15, 1937	8.2	7,090
	Jan. 22, 1937	10.2	12,400
	Jan. 25, 1937	12.05	19,000
	Apr. 26, 1937	10.0	11,800
	Aug. 12, 1937	6.7	3,890
1938	Dec. 18, 1937	8.8	8,510
	Mar. 6, 1938	7.4	5,300
	Mar. 15, 1938	7.0	4,470
	Apr. 9, 1938	8.4	7,550
1939	Jan. 30, 1939	8.6	8,030
	Mar. 1, 1939	6.7	3,890
	Mar. 12, 1939	8.8	8,510
1940	Mar. 4, 1940	6.7	3,890
	Mar. 19, 1940	7.4	5,300
	Mar. 31, 1940	6.9	4,270
	Apr. 21, 1940	9.5	8,450
	June 1, 1940	6.5	3,530
1941	Feb. 15, 1941	a6.0	-
	Mar. 4, 1941	a9.0	-
	July 31, 1941	5.2	3,410
1942	Feb. 6, 1942	a6.75	-
	Feb. 17, 1942	5.62	4,950
	Mar. 9, 1942	6.98	7,770
	Mar. 15, 1942	5.83	5,310
	Apr. 10, 1942	5.81	5,310
1943	Dec. 23, 1942	a6.41	-
	Dec. 30, 1942	8.59	11,700
	Feb. 11, 1943	4.95	3,900
	Mar. 12, 1943	5.32	4,450
	Apr. 20, 1943	5.20	4,290
	June 17, 1943	5.42	4,610
1944	Jan. 28, 1944	a10.83	-
	Apr. 12, 1944	4.62	3,390
1945	Dec. 26, 1944	a4.98	-
	Feb. 16, 1945	a10.0	-
	Feb. 22, 1945	a10.65	-
	Feb. 23, 1945	7.46	8,970
	Feb. 27, 1945	6.05	5,670
	Mar. 4, 1945	5.34	4,450
	Mar. 7, 1945	6.35	6,270
	Mar. 22, 1945	6.13	5,870
	Apr. 5, 1945	5.71	5,130
1946	Oct. 3, 1945	4.82	3,680
	Feb. 27, 1946	7.41	8,730
	May 28, 1946	8.51	11,500
1947	Mar. 14, 1947	a6.10	-
	June 8, 1947	4.66	3,460
1948	Feb. 14, 1948	6.32	6,040
	Apr. 14, 1948	6.52	6,500
	Apr. 28, 1948	5.42	4,220
1949	Dec. 16, 1948	6.43	6,270
	Jan. 6, 1949	5.13	3,780
1949	Jan. 28, 1949	5.98	5,390
1950	Jan. 7, 1950	5.71	4,780
	Jan. 11, 1950	6.10	5,600
	Feb. 14, 1950	7.12	7,450
	Feb. 23, 1950	5.02	3,510
	Mar. 27, 1950	5.97	5,130
	Apr. 26, 1950	6.83	6,730
1951	Dec. 4, 1950	7.22	7,700
	Dec. 8, 1950	6.37	5,860
	Jan. 4, 1951	6.64	6,280
	Jan. 15, 1951	5.22	3,680
	Feb. 13, 1951	5.89	4,850
	Feb. 21, 1951	5.35	3,980
	Mar. 4, 1951	6.31	5,650
	Apr. 30, 1951	6.95	7,200
1952	Jan. 18, 1952	6.29	5,650
	Jan. 27, 1952	8.53	11,000
	Feb. 5, 1952	6.24	5,450
	Apr. 16, 1952	5.26	3,830
	May 12, 1952	5.92	4,850
	May 26, 1952	5.27	3,830
1953	May 23, 1953	5.68	4,480
1954	Mar. 1, 1954	5.50	4,140
	Apr. 17, 1954	6.84	6,730
	June 17, 1954	6.13	5,250
1955	Oct. 16, 1954	10.23	13,500
	Dec. 18, 1954	5.10	3,530
	Dec. 30, 1954	5.20	3,680
	Feb. 22, 1955	5.91	4,850
	Mar. 5, 1955	5.53	4,140
	Apr. 26, 1955	6.15	5,450
1956	Feb. 12, 1956	5.76	4,490
	Feb. 26, 1956	8.36	10,100
	Mar. 8, 1956	5.86	4,770
	Apr. 3, 1956	6.06	5,140
	Apr. 8, 1956	5.46	4,120
	May 12, 1956	6.34	5,530
	June 22, 1956	9.06	12,000
	July 4, 1956	5.13	3,520
	July 17, 1956	6.23	5,330
	July 20, 1956	5.41	3,900
	Aug. 5, 1956	6.98	6,960
1957	Jan. 23, 1957	6.37	5,760
	Apr. 4, 1957	7.22	7,380
	Apr. 9, 1957	6.23	5,370
1958	July 11, 1958	5.32	3,820
	July 16, 1958	6.78	6,560
	July 31, 1958	6.20	5,370
1959	Jan. 22, 1959	10.45	14,000
	Feb. 10, 1959	7.7	8,300
	Apr. 2, 1959	5.09	3,530
1960	Dec. 13, 1959	6.49	5,940
	Feb. 11, 1960	5.28	3,820
	Mar. 30, 1960	7.84	8,500
	May 9, 1960	6.03	4,990
	June 15, 1960	5.37	3,900
1961	Feb. 19, 1961	5.61	4,290

a Backwater from ice.

1075. Beaver River at Beaver Falls, Pa.

Location.--Lat 40°45'45", long 80°18'55", on left bank at Beaver Falls, Beaver County, 200 ft upstream from pumping plant of Beaver Valley Water Co., 5.5 miles upstream from mouth, and 7 miles downstream from Connoquenessing Creek.

Drainage area.--3,106 sq mi.

Gage.--Nonrecording prior to Dec. 3, 1941; recording thereafter. At site 200 ft downstream at same datum prior to Dec. 3, 1941. Datum of gage is 727.48 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 60,000 cfs and extended by logarithmic plotting.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown. Flow regulated since 1942 by Berlin, since 1916 by Milton, since 1943 by Mosquito Creek, since 1929 by Meander Creek, and since 1933 by Pymatuning Reservoirs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 27, 1913	17.4	103,000	1949	Jan. 28, 1949	8.99	25,800
				1950	Feb. 15, 1950	10.86	36,400
1936	Mar. 25, 1936	12.1	48,800				
1937	Jan. 25, 1937	13.8	64,500	1951	Dec. 4, 1950	10.75	40,500
1938	Apr. 9, 1938	11.0	39,700	1952	Jan. 27, 1952	13.16	56,000
1939	Mar. 13, 1939	11.1	40,500	1953	May 23, 1953	8.61	20,800
1940	Apr. 21, 1940	12.1	48,800	1954	Apr. 17, 1954	9.53	26,700
				1955	Oct. 16, 1954	13.33	58,500
1941	Dec. 30, 1940	8.3	20,100				
1942	Mar. 15, 1942	10.25	34,000	1956	Feb. 26, 1956	11.33	40,200
1943	Dec. 30, 1942	13.15	57,800	1957	Apr. 5, 1957	11.71	43,400
1944	Apr. 13, 1944	8.93	24,900	1958	Aug. 1, 1958	9.69	28,100
1945	Feb. 23, 1945	10.54	36,200	1959	Jan. 22, 1959	14.42	69,900
				1960	Mar. 31, 1960	10.99	37,800
1946	May 28, 1946	12.96	56,200				
1947	June 8, 1947	9.15	27,200	1961	Feb. 19, 1961	8.28	19,200
1948	Apr. 15, 1948	9.80	31,200				

RACCOON CREEK BASIN

1080. Raccoon Creek at Moffatts Mill, Pa.

Location.--Lat 40°37'40", long 80°20'20", on left bank at downstream side of highway bridge at Moffatts Mill, Beaver County, 1.4 miles downstream from Gums Run, 4 miles south of Vanport, and 4.2 miles upstream from mouth.

Drainage area.--178 sq mi.

Gage.--Nonrecording prior to July 31, 1932; recording thereafter. Datum of gage is 719.16 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs and extended by logarithmic plotting.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 2,500 cfs. Only annual peaks are shown prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 22, 1916	a6.2	a3,370	1920	June 17, 1920	a6.49	a3,820
1917	Jan. 22, 1917	7.9	6,090				
1918	Feb. 20, 1918	5.8	2,790	1921	Sept.21, 1921	6.1	3,220
1919	May 10, 1919	a4.87	a1,620	1922	Apr. 15, 1922	9.8	10,000
1920	Mar. 5, 1920	b9.8	-	1923	May 13, 1923	8.6	7,440

a Daily mean.
b Backwater from ice.

Peak stages and discharges of Raccoon Creek at Moffatts Mill, Pa.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	June 29, 1924	9.4	9,120	1950	July 6, 1950	7.55	4,970
1925	Feb. 8, 1925	5.35	2,175	1951	Dec. 4, 1950	7.06	4,210
1926	Sept. 5, 1926	7.7	5,760		Dec. 8, 1950	6.82	3,810
1927	Nov. 17, 1926	6.60	3,970		Jan. 4, 1951	6.26	3,190
1928	Mar. 30, 1928	8.50	7,240		Jan. 15, 1951	7.24	4,350
1929	Feb. 25, 1929	6.20	3,370		Mar. 7, 1951	6.37	3,310
1930	Feb. 24, 1930	a6.03	a3,140	1952	Dec. 21, 1951	5.73	2,580
1931	June 7, 1931	7.27	5,100		Jan. 27, 1952	9.71	8,590
1932	Mar. 22, 1932	4.90	1,620		Feb. 4, 1952	6.05	2,850
1942	Mar. 9, 1942	6.91	4,450		May 26, 1952	5.83	2,680
	Mar. 17, 1942	6.15	3,300	1953	June 17, 1953	5.45	2,260
	Apr. 10, 1942	7.06	4,770	1954	Apr. 17, 1954	4.42	1,300
1943	Dec. 30, 1942	6.58	3,970	1955	Oct. 16, 1954	8.42	6,250
	Mar. 12, 1943	5.64	2,580		Feb. 7, 1955	6.21	3,070
	Mar. 20, 1943	5.67	2,580		Mar. 4, 1955	6.58	3,550
	Apr. 20, 1943	5.63	2,580	1956	Feb. 26, 1956	7.25	4,350
1944	Mar. 7, 1944	6.03	3,140		Mar. 8, 1956	6.42	3,310
1945	Jan. 1, 1945	6.64	4,030		June 25, 1956	5.8	2,630
	Feb. 14, 1945	6.72	4,130		Aug. 6, 1956	8.52	6,430
	Feb. 22, 1945	6.48	3,820	1957	Apr. 5, 1957	8.47	6,430
	Mar. 7, 1945	8.23	6,660	1958	May 5, 1958	5.85	2,680
	Mar. 22, 1945	6.50	3,820	1959	Jan. 22, 1959	7.74	5,110
	Apr. 5, 1945	5.92	2,930		Feb. 10, 1959	6.00	2,850
1946	May 27, 1946	7.50	5,430	1960	May 8, 1960	5.48	2,350
1947	June 7, 1947	6.41	3,670	1961	Apr. 26, 1961	6.41	3,310
1948	Feb. 14, 1948	b6.31	-				
	Apr. 12, 1948	7.36	5,260				
1949	Jan. 28, 1949	5.34	2,190				

a Daily mean.
b Backwater from ice.

OHIO RIVER MAIN STEM

1085. Ohio River at Montgomery Island Dam, Pa.

Location.--Lat 40°38'50", long 80°23'20", on left bank at Montgomery Island Dam, Beaver County, 2.2 miles downstream from Raccoon Creek, 5½ miles southwest of Beaver, and at mile 31.7.

Drainage area.--22,960 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 653.6 ft above mean sea level, adjustment of 1912. Auxiliary gage at lock 7, 4.8 miles downstream, at datum 6.4 ft lower.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--32 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 11, 1942	29.8	231,000	1947	Apr. 7, 1947	24.2	163,000
1943	Dec. 31, 1942	46.8	438,000	1948	Apr. 15, 1948	39.0	332,000
1944	Mar. 18, 1944	24.7	169,000	1949	Dec. 17, 1948	28.6	207,000
1945	Mar. 7, 1945	42.8	396,000	1950	Mar. 29, 1950	26.7	187,000
1946	May 29, 1946	30.1	225,000	1951	Dec. 5, 1950	36.6	297,000

1090. Lisbon Creek at Lisbon, Ohio

Location.--Lat 40°46'55", long 80°45'50", at City Water Works of Lisbon, Columbiana County, 800 ft upstream from bridge on State Highway 164 and 1 mile upstream from mouth.

Drainage area.--6.08 sq mi. Length of main stream, 4.65 miles; average slope main stream, 50 ft per mile; average slope main stream and upper reaches, 67.5 ft per mile; slope at gage, 28 ft per mile; length divided by width of basin, 3.56.

Gage.--Recording. Datum of gage is 963.28 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs and extended on basis of indirect measurements at 510, 782, and 1,500 cfs.

Remarks.--Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 30, 1947	6.95	253	1954	June 16, 1954	7.67	542
	June 8, 1947	7.58	426				
				1955	Oct. 15, 1954	8.30	855
1948	Feb. 14, 1948	7.25	322				
	Apr. 11, 1948	7.00	253	1956	Feb. 6, 1956	4.68	554
	Apr. 14, 1948	7.15	294		Feb. 11, 1956	3.14	175
	Aug. 12, 1948	6.65	165		Feb. 25, 1956	5.84	782
					Mar. 8, 1956	-	a300
1949	Jan. 28, 1949	6.68	172		May 6, 1956	4.02	416
					May 12, 1956	5.24	680
1950	Jan. 10, 1950	6.63	168		Aug. 5, 1956	3.40	260
	Feb. 14, 1950	6.92	252				
	Apr. 25, 1950	6.68	180	1957	Apr. 4, 1957	4.39	510
	June 25, 1950	8.83	1,130		July 8, 1957	3.06	172
1951	Dec. 3, 1950	6.88	239	1958	Jan. 25, 1958	3.10	190
	Dec. 7, 1950	7.05	298		Apr. 29, 1958	3.47	282
	Jan. 4, 1951	6.89	242		June 10, 1958	3.59	312
	Mar. 4, 1951	6.69	182		July 11, 1958	3.13	198
	Mar. 19, 1951	6.58	155		July 31, 1958	7.47	1,500
	Mar. 30, 1951	6.79	212		Aug. 3, 1958	3.11	192
1952	Jan. 18, 1952	6.85	230	1959	Jan. 21, 1959	5.64	811
	Jan. 26, 1952	7.43	442		Feb. 10, 1959	3.68	335
	Feb. 4, 1952	6.87	236		June 26, 1959	4.66	573
	Mar. 11, 1952	6.68	180				
				1960	Mar. 28, 1960	2.98	160
1953	May 15, 1953	6.67	178		June 12, 1960	3.08	185
	May 22, 1953	7.41	434		June 14, 1960	3.03	172
1954	Mar. 25, 1954	6.61	162	1961	Feb. 25, 1961	3.37	258

a About.

1095. Little Beaver Creek near East Liverpool, Ohio

Location.--Lat 40°40'32", long 80°32'23", at Grimms Bridge, 1½ miles upstream from Island Run, 4 miles upstream from mouth, and 4 miles northeast of East Liverpool, Columbiana County.

Drainage area.--505 sq mi.

Gage.--Nonrecording prior to Sept. 21, 1926, recording thereafter. Datum of gage is 702.77 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 15,500 cfs and extended on basis of slope-area measurement at 25,000 cfs.

Bankfull stage.--Flow is within banks at all stages.

Historical data.--Maximum stage known, about 20 ft.

Remarks.--Only annual peaks are shown prior to 1927. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges of Little Beaver Creek near East Liverpool, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 2, 1916	10.5	7,700
1917	Jan. 5, 1917	9.5	5,750
1918	Feb. 20, 1918	11.3	9,380
1919	May 10, 1919	10.4	7,500
1920	Mar. 5, 1920	11.6	10,000
1921	Apr. 30, 1921	9.7	6,130
1922	Apr. 15, 1922	9.8	6,320
1923	May 13, 1923	14.6	17,000
1924	Jan. 16, 1924	14.0	15,500
1925	Feb. 8, 1925	8.9	4,680
1926	Feb. 25, 1926	12.1	11,100
1927	Jan. 19, 1927	11.6	10,000
	Jan. 22, 1927	11.6	10,000
	Mar. 21, 1927	11.06	8,960
	May 19, 1927	10.90	8,540
	June 4, 1927	9.06	5,030
1928	Nov. 17, 1927	10.42	7,500
	Dec. 1, 1927	11.05	8,750
	Dec. 14, 1927	11.7	10,200
	Dec. 16, 1927	10.37	7,500
	Feb. 15, 1928	10.75	8,330
	Mar. 30, 1928	10.00	6,700
	June 21, 1928	10.06	6,900
	July 20, 1928	9.21	5,210
1929	Jan. 25, 1929	9.32	5,390
	Feb. 26, 1929	14.4	16,500
	May 3, 1929	13.05	13,200
1930	Nov. 18, 1929	11.18	9,170
	Jan. 13, 1930	10.28	7,300
	Feb. 26, 1930	13.14	13,400
	Mar. 8, 1930	9.30	5,390
1931	June 8, 1931	8.31	3,990
1932	Jan. 18, 1932	9.46	5,970
1933	Mar. 15, 1933	15.01	18,100
	Mar. 21, 1933	9.50	5,750
1934	Mar. 4, 1934	9.50	5,750
	Apr. 4, 1934	10.48	8,070
1935	May 7, 1935	9.94	6,510
	Aug. 7, 1935	12.10	11,300
1936	Feb. 26, 1936	a12.95	10,200
	Mar. 24, 1936	12.22	11,400
1937	Oct. 9, 1936	11.35	9,590
	Nov. 4, 1936	11.14	8,960
	Jan. 15, 1937	12.77	12,700
	Jan. 18, 1937	9.59	5,940
	Jan. 22, 1937	14.48	16,800
	Jan. 25, 1937	15.69	20,100
	Apr. 22, 1937	9.23	5,210
	Apr. 26, 1937	11.83	10,500
1938	Dec. 18, 1937	10.12	6,900
	Mar. 15, 1938	10.35	7,500
	Mar. 17, 1938	9.51	5,750
	Apr. 9, 1938	10.48	7,700
	May 19, 1938	11.94	11,400
	May 22, 1938	9.28	5,390
	Aug. 8, 1938	11.05	8,750
1939	Jan. 30, 1939	10.14	6,900
	Feb. 15, 1939	9.41	5,570
	Mar. 13, 1939	-	b12,000
	Apr. 11, 1939	-	b6,000
	Apr. 15, 1939	-	b5,300
	Apr. 18, 1939	-	b8,600
1940	Mar. 4, 1940	12.66	12,600
	Mar. 19, 1940	9.24	5,210
	Apr. 20, 1940	14.01	15,800
	May 21, 1940	9.68	6,130
1941	July 12, 1941	9.20	5,210
	July 19, 1941	17.4	25,000
1942	Mar. 9, 1942	9.57	5,940
	Mar. 14, 1942	10.58	7,910
	Apr. 10, 1942	9.90	6,510
	May 16, 1942	9.21	5,210
	Aug. 1, 1942	9.32	5,390
1943	Dec. 30, 1942	13.95	15,500
	Mar. 12, 1943	9.37	5,570
1944	Apr. 12, 1944	9.13	5,030
1945	Feb. 23, 1945	a10.24	7,100
	Feb. 27, 1945	9.12	5,030
	Mar. 3, 1945	9.10	5,030
	Mar. 7, 1945	11.98	10,900
	Mar. 22, 1945	10.70	8,120
	Apr. 5, 1945	9.45	5,570
1946	Feb. 27, 1946	12.35	11,800
	May 27, 1946	17.23	24,400
1947	Jan. 30, 1947	9.51	5,750
	June 7, 1947	13.98	15,500
1948	Feb. 14, 1948	11.00	8,750
	Apr. 12, 1948	10.28	7,300
	Apr. 14, 1948	11.32	9,380
1949	Jan. 28, 1949	9.93	6,510
1950	Jan. 6, 1950	9.56	5,940
	Jan. 10, 1950	9.38	5,570
	Feb. 14, 1950	11.65	10,000
	Mar. 26, 1950	9.08	5,030
	Apr. 26, 1950	9.72	6,130
1951	Dec. 3, 1950	12.67	12,500
	Dec. 6, 1950	11.03	8,750
	Jan. 4, 1951	10.19	7,100
	Jan. 15, 1951	9.85	6,320
	Feb. 13, 1951	9.76	6,320
	Mar. 20, 1951	9.29	5,390
1952	Jan. 27, 1952	14.06	15,800
	Feb. 4, 1952	10.32	7,300
	Apr. 16, 1952	9.69	6,130
1953	May 23, 1953	10.37	7,500
1954	Apr. 17, 1954	10.00	6,700
	June 16, 1954	9.19	5,210
1955	Oct. 15, 1954	16.24	21,500
	Dec. 30, 1954	9.14	5,110
	Feb. 22, 1955	9.72	6,140
	Mar. 4, 1955	9.93	6,510
1956	Feb. 7, 1956	10.83	8,330
	Feb. 26, 1956	11.27	9,380
	Mar. 8, 1956	10.54	7,700
	May 13, 1956	13.30	13,900
	Aug. 6, 1956	10.82	8,330
1957	Jan. 23, 1957	9.19	5,270
	Apr. 4, 1957	13.42	14,100
	Apr. 9, 1957	9.52	5,780
1958	Apr. 29, 1958	10.26	6,610
	July 11, 1958	10.90	7,710
	Aug. 1, 1958	14.67	17,000
1959	Jan. 22, 1959	14.70	17,000
	Feb. 10, 1959	12.12	11,200
	June 26, 1959	9.10	5,110
1960	Mar. 29, 1960	9.90	6,240
1961	Feb. 26, 1961	9.31	5,460

a Backwater from ice.
b Estimated.

1100. Yellow Creek near Hammondsville, Ohio

Location.--Lat 40°32'15", long 80°43'35", 1,000 ft upstream from Lowery Run, 0.9 mile upstream from Bush Creek, and 1.65 miles southwest of Hammondsville, Jefferson County.

Drainage area.--148 sq mi.

Gage.--Recording. Datum of gage is 692.1 ft above mean sea level (Ohio State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,480 cfs.

Historical data.--A stage of about 12 ft occurred in 1935. Highest flood is reported by residents to have occurred in 1912.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 29, 1940	7.27	2,760	1951	Jan. 4, 1951	6.79	2,630
	July 15, 1941	7.22	2,700		Jan. 15, 1951	7.81	3,600
	July 19, 1941	8.43	4,260		Feb. 21, 1951	6.41	2,270
	Aug. 15, 1941	7.08	2,590		Mar. 4, 1951	6.79	2,630
					Mar. 7, 1951	6.18	2,100
1942	Mar. 14, 1942	7.24	2,760		Mar. 19, 1951	6.68	2,540
	Apr. 9, 1942	8.0	3,690		Mar. 30, 1951	6.52	2,360
	May 16, 1942	6.58	2,100		Apr. 29, 1951	8.93	4,820
1943	Dec. 30, 1942	8.58	4,560	1952	Jan. 27, 1952	12.17	9,580
	Mar. 12, 1943	6.97	2,430		Feb. 4, 1952	7.97	3,820
	Mar. 20, 1943	7.22	2,700		Mar. 11, 1952	6.40	2,260
	Apr. 20, 1943	7.47	3,000		Apr. 15, 1952	6.36	2,220
	Aug. 14, 1943	6.43	2,000		Aug. 16, 1952	7.30	3,100
1944	Mar. 7, 1944	7.63	3,180	1953	June 17, 1953	5.84	1,800
	May 22, 1944	6.68	2,200				
				1954	June 17, 1954	6.11	2,000
1945	Feb. 16, 1945	7.42	2,880				
	Feb. 22, 1945	6.70	2,200	1955	Oct. 16, 1954	8.37	4,250
	Mar. 3, 1945	6.60	2,120		Dec. 30, 1954	6.69	2,540
	Mar. 7, 1945	9.40	5,100		Mar. 4, 1955	9.07	5,060
	Mar. 22, 1945	7.50	2,980				
	Apr. 5, 1945	6.45	2,000	1956	Feb. 7, 1956	6.75	2,620
	May 18, 1945	7.02	2,480		Feb. 25, 1956	9.35	5,420
					Mar. 8, 1956	7.13	2,910
1946	Feb. 27, 1946	7.43	2,880		May 27, 1956	7.23	3,000
	May 28, 1946	7.83	3,300		June 1, 1956	7.35	3,200
					Aug. 6, 1956	6.85	2,620
1947	Jan. 31, 1947	6.60	2,190				
	June 7, 1947	8.73	4,300	1957	Apr. 5, 1957	9.04	4,940
1948	Feb. 14, 1948	8.10	3,630	1958	May 4, 1958	6.70	2,540
	Apr. 12, 1948	10.50	6,750				
	Apr. 14, 1948	8.88	4,680	1959	Jan. 21, 1959	b9.51	-
	Aug. 12, 1948	6.74	2,520		Jan. 22, 1959	b8.64	4,480
					Feb. 10, 1959	7.78	3,600
1949	Jan. 28, 1949	6.63	2,190				
				1960	Mar. 29, 1960	6.06	1,970
1950	Jan. 6, 1950	7.08	2,610				
	Feb. 14, 1950	7.08	2,610	1961	Feb. 18, 1961	b6.62	-
					Feb. 26, 1961	6.23	2,120
1951	Dec. 4, 1950	-	a3,700		Apr. 26, 1961	6.40	2,260
	Dec. 8, 1950	7.36	3,200		June 2, 1961	6.14	2,040

a About.
b Backwater from ice.

1105. Yellow Creek at Hammondsville, Ohio

Location.--Lat 40°33'15", long 80°42'30", at highway bridge one-fifth of a mile southwest of Hammondsville, Jefferson County, and 1,000 ft above North Fork.

Drainage area.--169 sq mi.

Gage.--Nonrecording. At site 300 ft downstream at datum 1.26 ft higher Apr. 5 to Sept. 30, 1931. Altitude of gage is 680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,900 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	10.8	5,190	1926	Sept.24, 1926	13.0	7,470
1917	Jan. 5, 1917	8.6	3,340	1927	Jan. 22, 1927	10.2	4,650
1918	Feb. 20, 1918	10.6	5,010	1928	Dec. 14, 1927	11.5	5,870
1919	July 17, 1919	12.6	7,030	1929	Feb. 26, 1929	13.2	7,590
1920	June 17, 1920	13.2	7,710	1930	Nov. 18, 1929	10.93	5,280
1921	Mar. 7, 1921	8.2	3,020	1931	Apr. 4, 1931	7.68	2,650
1922	Apr. 15, 1922	10.0	4,470	1932	Jan. 23, 1932	8.10	3,730
1923	May 12, 1923	12.6	7,030	1933	Mar. 19, 1933	8.32	3,910
1924	Jan. 16, 1924	12.6	7,030	1934	Mar. 3, 1934	10.0	5,200
1925	Feb. 8, 1925	a12.0	4,140	1935	Aug. 7, 1935	12.6	7,610

a Backwater from ice.

SHORT CREEK BASIN

1115. Short Creek near Dillonvale, Ohio

Location.--Lat 40°11'35", long 80°44'05", at bridge on State Highway 150, 2.1 miles east of Dillonvale, Jefferson County, 2.2 miles downstream from Jug Run, and 2.7 miles upstream from Little Short Creek.

Drainage area.--124 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1941; recording thereafter. Datum of gage is 676.1 ft above mean sea level (State of Ohio bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,300 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 16, 1942	6.35	2,460	1946	Oct. 12, 1945	4.94	1,700
	Apr. 9, 1942	7.35	3,660		Feb. 27, 1946	4.25	1,310
					May 27, 1946	4.72	1,580
1943	Dec. 30, 1942	6.18	2,280				
	Jan. 4, 1943	4.80	1,340	1947	June 8, 1947	6.38	2,810
	Mar. 12, 1943	5.12	1,620				
	Mar. 20, 1943	7.23	3,380	1948	Feb. 14, 1948	6.65	2,990
	Apr. 19, 1943	7.25	3,380		Apr. 14, 1948	6.84	3,170
	July 7, 1943	4.98	1,430				
				1949	Dec. 15, 1948	4.21	1,380
1944	Mar. 7, 1944	5.84	1,940		Jan. 24, 1949	5.00	1,850
	Apr. 8, 1944	6.56	2,660		Apr. 14, 1949	7.14	3,460
1945	Feb. 13, 1945	5.09	1,820	1950	Jan. 6, 1950	5.67	2,270
	Feb. 22, 1945	5.57	2,170		Feb. 14, 1950	4.80	1,730
	Feb. 27, 1945	4.64	1,510		June 25, 1950	6.00	2,480
	Mar. 3, 1945	4.97	1,750		July 5, 1950	5.96	2,480
	Mar. 6, 1945	8.77	6,500				
	Mar. 21, 1945	5.97	2,230	1951	Dec. 3, 1950	5.61	2,020
	Apr. 5, 1945	6.07	2,310		Dec. 7, 1950	5.37	1,910
	May 18, 1945	4.87	1,480		Jan. 15, 1951	7.81	4,350

Peak stages and discharges of Short Creek near Dillonvale, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 4, 1951	4.29	1,340	1956	May 27, 1956	4.12	1,350
	Mar. 7, 1951	4.50	1,440		June 25, 1956	4.27	1,450
	Mar. 19, 1951	4.88	1,650				
	Mar. 30, 1951	4.91	1,650	1957	Jan. 23, 1957	4.84	1,710
					Apr. 4, 1957	6.51	2,770
1952	Jan. 27, 1952	8.15	5,120				
	Feb. 4, 1952	6.50	2,670	1958	May 4, 1958	5.60	2,160
1953	June 17, 1953	6.24	2,420	1959	Jan. 21, 1959	7.54	3,930
					Feb. 10, 1959	6.37	2,670
1954	Mar. 29, 1954	3.00	690				
				1960	Feb. 11, 1960	3.56	1,080
1955	Oct. 16, 1954	8.35	5,540				
	Dec. 30, 1954	4.71	1,550	1961	Feb. 26, 1961	4.11	1,360
	Mar. 4, 1955	5.22	1,810		Mar. 5, 1961	4.07	1,340
					Mar. 9, 1961	5.05	1,850
1956	Feb. 18, 1956	4.42	1,390		Apr. 23, 1961	4.38	1,490
	Feb. 25, 1956	6.83	2,960		Apr. 26, 1961	8.44	5,630
	Mar. 8, 1956	5.43	1,980		June 2, 1961	4.47	1,360
	May 2, 1956	4.34	1,450				

WHEELING CREEK BASIN

1120. Wheeling Creek at Elm Grove, W. Va.

Location.--Lat 40°02'40", long 80°39'40", on right bank at highway bridge at Elm Grove, Ohio County, 500 ft downstream from Little Wheeling Creek.

Drainage area.--282 sq mi.

Gage.--Recording. Datum of gage is 667.59 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8,500 cfs and extended on basis of slope-area measurements at 18,500 and 22,100 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 5, 1941	13.08	20,300	1951	Jan. 15, 1951	11.62	15,900
					Feb. 1, 1951	8.05	7,700
1942	Mar. 9, 1942	9.10	9,090				
	Mar. 16, 1942	7.69	6,310	1952	Jan. 27, 1952	9.22	10,000
	Apr. 9, 1942	8.85	8,480				
				1953	May 7, 1953	6.77	6,740
1943	Dec. 30, 1942	13.67	22,100				
	Mar. 6, 1943	7.75	6,520	1954	Apr. 17, 1954	4.39	3,240
	Apr. 19, 1943	9.71	10,800				
	May 31, 1943	10.36	12,600	1955	Oct. 16, 1954	9.90	11,600
	July 28, 1943	-	a18,500		Dec. 30, 1954	7.47	6,850
					Mar. 5, 1955	9.47	10,700
1944	Mar. 5, 1944	7.95	6,920				
				1956	Feb. 18, 1956	7.04	6,000
1945	Jan. 1, 1945	9.12	9,280		Mar. 8, 1956	7.90	7,530
	Mar. 3, 1945	8.01	6,920		May 28, 1956	8.89	9,410
	Mar. 6, 1945	12.67	19,100		July 27, 1956	9.05	9,600
	May 17, 1945	8.54	7,970				
				1957	Apr. 18, 1957	7.78	7,360
1946	June 2, 1946	9.75	11,000				
				1958	May 4, 1958	7.23	6,340
1947	June 7, 1947	7.23	5,460				
				1959	Jan. 21, 1959	9.60	10,900
1948	Feb. 14, 1948	8.45	7,760		Feb. 10, 1959	9.87	11,600
	Apr. 14, 1948	8.37	7,760				
				1960	Feb. 11, 1960	5.78	4,240
1949	Dec. 15, 1948	7.38	5,800				
				1961	Apr. 25, 1961	9.53	11,100
1950	Jan. 7, 1950	7.95	6,920		May 8, 1961	7.25	6,940
					June 3, 1961	7.10	6,770
1951	Dec. 4, 1950	9.47	10,700				

a Estimated.

1125. Ohio River at Wheeling, W. Va.

Location.--Lat 40°06'15", long 80°42'15", at lock 12 at Warwood, 3 miles upstream from Wheeling, Ohio County.

Drainage area.--24,800 sq mi, approximately.

Gage.--Nonrecording. Prior to 1916, at wharf at Wheeling at datum 610.1 ft above mean sea level, Sandy Hook datum. Datum of gage is 610.8 ft above mean sea level.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 7, 1884	52.1	464,000	1913	Mar. 28, 1913	51.1	452,000
1905	Mar. 22, 1905	42.7	364,000	1936	Mar. 19, 1936	55.5	466,000
				1937	Jan. 26, 1937	48.7	384,000
1906	Apr. 1, 1906	a26.6	a189,000				
1907	Mar. 15, 1907	50.1	439,000	1943	Dec. 31, 1942	-	418,000

a Maximum daily mean.

1135. Ohio River at Bellaire, Ohio

Location.--Lat 39°59'05", long 80°44'20", in sec.28, T.2 N., R.2 W., on right bank 1.9 miles downstream from Baltimore & Ohio Railroad bridge at Bellaire and at mile 96.4.

Drainage area.--25,170 sq mi, approximately.

Gage.--Nonrecording prior to Mar. 15, 1941; recording thereafter. Prior to Nov. 18, 1940, auxiliary nonrecording, and since Nov. 18, 1940, auxiliary recording gage at site 4.0 miles downstream at same datum. Datum of gage is 608.0 ft above mean sea level, unadjusted.

Stage-discharge relation.--Expressed as a unit fall rating with an adjustment curve, defined by current-meter measurements.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown. Flow partly regulated by numerous reservoirs upstream.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 18, 1939	33.2	195,000	1949	Dec. 18, 1948	a29.21	217,000
1940	Apr. 21, 1940	45.8	321,000	1950	Mar. 29, 1950	27.69	206,000
1941	June 6, 1941	31.00	242,000	1951	Dec. 5, 1950	38.00	311,000
1942	Apr. 11, 1942	30.85	229,000	1952	Jan. 28, 1952	41.34	344,000
1943	Dec. 31, 1942	48.99	412,000	1953	Mar. 26, 1953	20.60	138,000
1944	Mar. 25, 1944	24.57	170,000	1954	Mar. 3, 1954	b22.75	160,000
1945	Mar. 8, 1945	44.92	374,000	1955	Oct. 16, 1954	c41.63	397,000
1946	May 29, 1946	30.66	238,000	1956	Mar. 10, 1956	35.53	281,000
1947	June 9, 1947	25.62	186,000	1957	Apr. 5, 1957	27.11	194,000
1948	Apr. 15, 1948	41.95	335,000	1958	May 9, 1958	26.11	183,000

a Occurred on Jan. 28, 1949.
b Occurred on Mar. 4, 1954.
c Occurred on Oct. 17, 1954.

1140. Captina Creek at Armstrongs Mills, Ohio

Location.--Lat 39°54'32", long 80°55'29", at bridge half a mile east of Armstrongs Mills, Belmont County, two-thirds of a mile below Anderson Run.

Drainage area.--135 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1958; recording thereafter. At same site at datum 1.0 ft higher prior to Oct. 1, 1958. Datum of gage is 739.7 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 4,890 cfs since 1958. Prior to 1958 flood discharges are rough approximations from rating defined below 1,620 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Nov. 16, 1926	7.36	3,470	1933	Mar. 14, 1933	11.65	8,190
1928	Mar. 30, 1928	8.0	4,050	1934	Jan. 7, 1934	8.00	4,050
1929	May 2, 1929	8.2	4,250	1935	Aug. 7, 1935	13.40	10,500
1930	Dec. 13, 1929	7.0	3,110	1959	Jan. 21, 1959	11.75	8,910
1931	Apr. 4, 1931	7.0	3,110	1960	Feb. 10, 1960	7.18	3,320
1932	Dec. 11, 1931	6.7	2,860	1961	May 8, 1961	10.72	7,500

MIDDLE ISLAND CREEK BASIN

1145. Middle Island Creek at Little, W. Va.

Location.--Lat 39°28'30", long 80°59'50", on right bank at downstream side of highway bridge at Little, Tyler County, 0.1 mile upstream from Stewarts Run and 5 miles west of Middlebourne.

Drainage area.--458 sq mi.

Gage.--Nonrecording prior to July 11, 1947; recording thereafter. Datum of gage is 631.32 ft, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs.

Bankfull stage.--28 ft.

Remarks.--Base for partial-duration series 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	August 1875	a33.5	-	1927	Nov. 16, 1926	17.90	-
1916	Dec. 18, 1915	16.33	b12,900	1928	Dec. 14, 1927	14.40	-
1917	Jan. 22, 1917	22.2	-	1929	Feb. 27, 1929	d13.5	9,200
1918	Mar. 14, 1918	18.7	-	1930	Nov. 18, 1929	d13.61	9,300
1919	Jan. 2, 1919	19.0	-		Mar. 8, 1930	d12.3	8,000
1920	Nov. 26, 1919	19.7	-	1931	Apr. 4, 1931	d13.58	9,300
1921	Mar. 3, 1921	11.90	-	1932	Dec. 12, 1931	d12.3	8,000
1922	Dec. 24, 1921	19.7	-		Jan. 30, 1932	d15.71	11,400
1926	Feb. 14, 1926	c16.40	-		Mar. 28, 1932	d12.4	8,100
				1933	Mar. 14, 1933	d16.60	12,300
					Mar. 19, 1933	14.6	10,300

a About; maximum stage known.
b Annual peak only.
c Floodmark.
d Observed.

Peak stages and discharges of Middle Island Creek at Little, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Apr. 12, 1933	12.4	8,100
1934	Jan. 8, 1934	12.5	8,200
	Mar. 4, 1934	d13.76	9,500
1935	Mar. 12, 1935	17.3	13,000
	Aug. 7, 1935	d19.15	14,900
	Sept. 4, 1935	12.8	8,500
1936	Jan. 4, 1936	13.1	8,800
	Feb. 15, 1936	14.2	9,900
	Mar. 17, 1936	16.18	11,900
	Apr. 6, 1936	d14.77	10,500
1937	Jan. 11, 1937	15.7	11,400
	Jan. 19, 1937	17.0	12,700
	Jan. 25, 1937	16.0	11,700
	Feb. 9, 1937	14.7	10,400
	May 28, 1937	13.6	9,300
1938	Oct. 28, 1937	14.1	9,800
	Feb. 20, 1938	17.00	12,700
	Apr. 10, 1938	14.5	10,200
	May 22, 1938	13.3	9,000
1939	Jan. 30, 1939	c13.9	9,600
	Feb. 4, 1939	19.2	14,900
	Mar. 6, 1939	13.7	9,400
	Apr. 16, 1939	15.9	11,600
	June 20, 1939	12.8	8,500
1940	Feb. 19, 1940	13.0	8,500
	Mar. 31, 1940	d14.19	9,820
	Apr. 20, 1940	15.1	10,800
	May 31, 1940	d13.86	9,490
1941	June 4, 1941	23.87	21,700
1942	Mar. 9, 1942	15.0	10,700
	Apr. 10, 1942	14.9	10,600
1943	Dec. 30, 1942	c23.4	21,000
	Mar. 7, 1943	13.4	8,940
	Mar. 20, 1943	14.2	9,820
	Apr. 19, 1943	16.6	12,500
1944	Feb. 23, 1944	d13.33	8,830
	Mar. 17, 1944	13.3	8,830
	June 23, 1944	13.5	9,050
1945	Dec. 26, 1944	22.0	19,200
	Jan. 1, 1945	d17.50	13,600
	Feb. 27, 1945	c19.6	16,100
	Mar. 3, 1945	14.6	10,300
	Mar. 7, 1945	c16.9	12,900
	Mar. 22, 1945	d14.70	10,400
	Sept.25, 1945	d19.68	16,200
1946	Jan. 7, 1946	12.6	8,060
	Mar. 27, 1946	d12.65	8,060
	June 3, 1946	c21.55	18,700
1947	Jan. 16, 1947	12.45	7,840
1948	Jan. 2, 1948	14.69	10,400
	Feb. 14, 1948	19.40	15,900
	Apr. 13, 1948	24.68	22,800
	May 3, 1948	12.65	8,060
1949	Dec. 16, 1948	20.43	17,100
1950	Jan. 6, 1950	14.46	9,800
	Feb. 1, 1950	14.77	10,200
	Feb. 10, 1950	14.02	9,200
	June 26, 1950	28.0	25,000
1951	Dec. 4, 1950	17.56	13,500
	Dec. 8, 1950	15.17	10,600
	Jan. 15, 1951	16.30	12,000
	Feb. 2, 1951	18.43	14,500
	Mar. 4, 1951	16.24	11,800
	June 14, 1951	15.54	10,200
1952	Jan. 3, 1952	13.62	8,760
	Jan. 27, 1952	15.10	10,500
1953	Jan. 9, 1953	12.72	8,170
	May 7, 1953	13.26	8,830
1954	Mar. 1, 1954	11.43	6,800
1955	Oct. 16, 1954	15.42	11,100
	Dec. 30, 1954	14.57	10,300
	Feb. 7, 1955	17.03	13,000
	Mar. 1, 1955	12.94	8,390
	Mar. 5, 1955	15.15	10,900
1956	Jan. 30, 1956	15.34	11,000
	Feb. 3, 1956	13.61	9,160
	Mar. 8, 1956	15.93	11,700
	May 28, 1956	12.56	8,060
1957	Dec. 15, 1956	18.43	14,700
	Jan. 10, 1957	14.84	10,500
	Feb. 10, 1957	15.47	11,200
1958	Dec. 8, 1957	14.63	10,300
	Dec. 27, 1957	12.62	8,060
	Apr. 29, 1958	13.42	8,940
	May 6, 1958	15.42	11,100
	July 16, 1958	13.26	8,830
1959	Jan. 16, 1959	13.24	8,720
	Jan. 22, 1959	13.14	8,610
1960	Jan. 16, 1960	14.69	10,400
	May 9, 1960	13.22	8,720
	Aug. 5, 1960	14.09	9,710
1961	Feb. 14, 1961	12.65	8,060
	Mar. 5, 1961	12.57	8,060
	Apr. 1, 1961	12.97	8,500
	June 10, 1961	13.70	9,270

c Floodmark.
d Observed.

1150. Ohio River at St. Marys, W. Va.

Location.--Lat 39°23'25", long 81°12'30", on left bank at downstream end of bridge on U.S. Highway 50 (alternate) at St. Marys, Pleasants County, 0.9 mile downstream from Middle Island Creek and at mile 155.0.

Drainage area.--26,850 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 29, 1939; recording thereafter. Datum of gage is 577.30 ft above mean sea level, Sandy Hook datum. Auxiliary gage, nonrecording prior to Apr. 25, 1939; combination recording and nonrecording, Apr. 25, 1939, to Feb. 21, 1951, at lock 17 at different datum; recording thereafter at site 1½ miles upstream from lock 17 at same datum as base gage.

Stage-discharge relation.--Expressed as a unit fall rating with an adjustment curve, defined by adjusted current-meter measurements below 110,000 cfs (gage height, 34.5 ft).

Remarks.--Flow partly regulated by reservoirs upstream. Only annual peaks are shown. Peak stage often occurs at a different time than the peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a54.2	-	1950	Jan. 8, 1950	29.64	189,000
1938	Apr. 11, 1938	b27.09	b177,000	1951	Dec. 6, 1950	36.89	292,000
1939	Feb. 5, 1939	b30.04	b214,000	1952	Jan. 29, 1952	40.78	321,000
1940	Apr. 22, 1940	b40.73	b320,000	1953	Mar. 27, 1953	21.28	136,000
				1954	Mar. 5, 1954	23.13	152,000
1941	June 6, 1941	29.18	225,000	1955	Oct. 18, 1954	37.26	314,000
1942	Apr. 12, 1942	30.56	221,000				
1943	Jan. 1, 1943	46.67	421,000	1956	Mar. 10, 1956	34.66	263,000
1944	Mar. 26, 1944	25.27	170,000	1957	Apr. 6, 1957	28.24	195,000
1945	Mar. 8, 1945	44.82	359,000	1958	May 9, 1958	28.71	186,000
				1959	Jan. 24, 1959	38.98	302,000
1946	May 30, 1946	29.41	214,000	1960	Apr. 2, 1960	34.45	275,000
1947	June 9, 1947	26.00	173,000				
1948	Apr. 16, 1948	43.44	334,000	1961	Feb. 28, 1961	28.66	202,000
1949	Jan. 29, 1949	31.35	208,000				

a Maximum stage known since at least 1884.
b Maximum daily mean.

LITTLE MUSKINGUM RIVER BASIN

1155. Little Muskingum River at Fay, Ohio

Location.--Lat 39°28'48", long 81°17'09", 300 ft above Buckeye Pipe Line Co. pumping station, half a mile downstream from Bear Run, and 1 mile northwest of Fay, Washington County.

Drainage area.--259 sq mi.

Gage.--Nonrecording. Datum of gage is 612.71 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs. No discharge measurements were made 1919-25; high-water rating used before and after this period has been assumed to apply.

Bankfull stage.--16 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	19.0	9,450	1926	Feb. 15, 1926	17.9	8,460
1917	Jan. 22, 1917	21.5	11,700	1927	Jan. 22, 1927	14.8	5,880
1918	Feb10,20, 1918	15.5	6,440	1928	Nov. 18, 1927	15.4	6,360
1919	Jan. 2, 1919	16.9	7,600	1929	Feb. 26, 1929	15.2	6,200
1920	Nov. 27, 1919	22.5	12,700	1930	Nov. 18, 1929	13.8	5,120
1921	Mar. 3, 1921	11.6	3,690	1931	Apr. 4, 1931	22.00	12,200
1922	Nov. 28, 1921	21.1	11,300	1932	Jan. 30, 1932	14.20	5,420
1923	Apr. 15, 1923	12.20	4,050	1933	Mar. 14, 1933	23.28	13,400
1924	Jan. 17, 1924	21.8	12,000	1934	Mar. 4, 1934	14.20	5,420
1925	Feb. 14, 1925	13.05	4,570	1935	Aug. 7, 1935	26.70	16,800

1156. Barnes Run near Summerfield, Ohio

Location.--Lat 39°46'20", long 81°22'55", 500 ft southeast of State Highway 78 and 2.6 miles southwest from intersection of State Highways 146 and 78 in Summerfield, Noble County.

Drainage area.--3.53 sq mi. Length of main stream, 3.5 miles; average slope main stream, 78 ft per mile; average slope main stream and tributaries, 106 ft per mile; slope at gage, 32 ft per mile; length divided by average width of basin, 3.47.

Gage.--Crest-stage gage. Altitude of gage is 795 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 185 cfs and extended on basis of slope-area measurements.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	12.01	645	1955	Oct. 15, 1954	11.34	420
1948	-	14.26	2,050				
1949	-	11.20	375	1956	-	12.64	935
1950	June 24, 1950	13.35	1,350	1957	-	14.54	2,350
				1958	-	13.23	1,290
1951	-	11.43	450	1959	July 1959	13.5	1,440
1952	-	10.31	183	1960	-	9.87	118
1953	-	10.08	147				
1954	-	10.56	229	1961	June 2, 1961	13.43	1,760

MUSKINGUM RIVER BASIN

1160. Tuscarawas River at Clinton, Ohio

Location.--Lat 40°55'39", long 81°37'59", 100 ft downstream from bridge on U.S. Highway 21 at Clinton, Summit County, and 1 mile upstream from Chippewa Creek.

Drainage area.--165 sq mi. Channel slope, main stream, 6.21 ft per mile; channel slope, tributary, 30.7 ft per mile; longest watercourse, 25.8 miles; mean elevation of land surface, 1,055 ft above mean sea level; average land slope, 214 ft per mile.

Gage.--Nonrecording prior to July 24, 1930; recording thereafter. At site 100 ft upstream May 9, 1926, to July 24, 1930, at datum 4.00 ft higher prior to Nov. 18, 1928, and at present datum thereafter. Datum of gage is 933.28 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs. At times gage is in unknown amounts of backwater from Chippewa Creek.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a22.2	-	1934	Apr. 5, 1934	8.39	814
				1935	Aug. 8, 1935	14.82	2,700
1927	Mar. 22, 1927	7.8	952				
1928	Dec. 15, 1927	7.8	952	1936	Feb. 27, 1936	b11.34	1,650
1929	Feb. 27, 1929	12.4	2,020	1937	Jan. 16, 1937	12.80	2,380
1930	Jan. 14, 1930	11.3	1,720	1938	Apr. 10, 1938	10.72	1,580
				1939	Mar. 13, 1939	12.08	2,100
1931	Apr. 27, 1931	6.06	328	1940	Mar. 5, 1940	12.89	2,060
1932	Jan. 24, 1932	8.29	657				
1933	Mar. 15, 1933	13.53	2,660	1941	July 18, 1941	8.70	952

a Present datum.
b Occurred Mar. 25, 1936; backwater from Chippewa Creek.

Peak stages and discharges of Tuscarawas River at Clinton, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 11, 1942	10.16	1,170	1953	May 23, 1953	9.94	820
1943	June 1, 1943	12.11	2,100	1954	Apr. 28, 1954	9.80	795
1944	Apr. 12, 1944	c10.93	1,400	1955	Oct. 16, 1954	10.51	1,060
1945	May 18, 1945	11.41	1,820				
				1956	Nov. 17, 1955,	c11.96	1,240
1946	Feb. 28, 1946	d9.92	1,300		Feb. 27, 1956,		
1947	June 9, 1947	e12.32	1,800		May 27, 1956		
1948	Feb. 15, 1948	10.30	1,140	1957	Apr. 6, 1957	11.80	1,450
1949	Jan. 28, 1949	10.21	1,110	1958	Aug. 2, 1958	13.23	1,560
1950	Feb. 15, 1950	12.15	1,560	1959	Jan. 22, 1959	15.50	2,120
				1960	Mar. 31, 1960	10.97	1,050
1951	Feb. 23, 1951	11.28	1,240				
1952	Jan. 28, 1952	12.97	1,960	1961	Apr. 23, 1961	10.40	747

c Backwater from Chippewa Creek.
d Occurred May 28, 1946; backwater from Chippewa Creek.
e Occurred June 4, 1947; backwater from Chippewa Creek.

1161. Little Chippewa Creek near Smithville, Ohio

Location.--Lat 40°53'40", long 81°48'50", at bridge on State Highway 5, 3.3 miles northeast of Smithville, Wayne County.

Drainage area.--13.9 sq mi. Length of main stream, 6.6 miles; average slope main stream, 8.7 ft per mile; average slope main stream and tributaries, 42.6 ft per mile; slope at gage, .7 ft per mile; length divided by average width of basin, 2.58.

Gage.--Crest-stage gage. Altitude of gage is 975 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 890 cfs and extended on basis of slope-area measurement.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	11.6	760	1955	-	11.53	745
1948	Feb. 13, 1948	12.3	985				
1949	-	10.6	494	1956	-	13.13	1,280
1950	-	11.0	590	1957	Apr. 24, 1957	13.33	1,360
				1958	July 31, 1958	12.93	1,200
1951	-	11.0	590	1959	Jan. 21, 1959	14.30	1,800
1952	-	11.4	700	1960	-	10.49	468
1953	-	12.03	880				
1954	-	10.87	554	1961	-	9.40	250

1170. Tuscarawas River at Massillon, Ohio

Location.--Lat 40°46'17", long 81°31'25", at sewage-treatment works, 1½ miles south of Massillon, Stark County, and 3 miles downstream from Newman Creek.

Drainage area.--526 sq mi.

Gage.--Nonrecording prior to Aug. 19, 1944; recording thereafter. Datum of gage is 916.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,660 cfs.

Remarks.--Base for partial-duration series, 2,200 cfs. Only annual peaks are shown prior to 1945.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Aug. 4, 1938	9.70	a4,260	1952	Jan. 1, 1952	7.52	3,200
1939	Mar. 14, 1939	10.02	5,350		Jan. 20, 1952	8.21	3,700
1940	Mar. 5, 1940	11.39	6,940		Jan. 28, 1952	10.52	5,420
					Feb. 5, 1952	7.47	3,200
1941	Dec. 30, 1940	6.18	2,280		Mar. 12, 1952	7.58	3,270
1942	Apr. 11, 1942	7.50	3,350		Apr. 15, 1952	6.27	2,440
1943	June 1, 1943	9.82	5,300				
1944	Apr. 13, 1944	8.40	4,030	1953	May 24, 1953	7.07	2,940
1945	Feb. 23, 1945	6.18	2,460	1954	Apr. 29, 1954	6.06	2,320
	Mar. 4, 1945	5.77	2,200				
	Mar. 7, 1945	7.82	3,550	1955	Oct. 16, 1954	7.26	3,070
	Mar. 21, 1945	8.74	4,280		Feb. 23, 1955	6.02	2,260
	May 19, 1945	8.53	4,120		Mar. 2, 1955	5.97	2,260
					Mar. 5, 1955	7.27	3,070
1946	Feb. 28, 1946	6.67	2,780		Mar. 12, 1955	6.74	2,680
	May 29, 1946	6.86	2,910		Mar. 23, 1955	7.35	3,140
1947	Jan. 31, 1947	7.44	3,140	1956	Nov. 18, 1955	6.76	2,740
	Apr. 4, 1947	6.71	2,680		Feb. 26, 1956	8.70	4,080
	Apr. 22, 1947	6.59	2,620		Mar. 9, 1956	8.07	3,620
	May 23, 1947	6.65	2,620		May 13, 1956	7.66	3,340
	May 28, 1947	8.05	3,550				
	June 3, 1947	10.16	5,200	1957	Apr. 6, 1957	8.65	4,000
	June 8, 1947	9.85	4,900		June 30, 1957	8.10	3,630
1948	Feb. 15, 1948	7.70	3,340	1958	July 11, 1958	7.04	2,880
	Apr. 15, 1948	6.88	2,810		Aug. 1, 1958	10.74	5,580
	May 6, 1948	6.06	2,320				
				1959	Jan. 22, 1959	13.46	7,220
1949	Jan. 29, 1949	7.20	3,000		Feb. 12, 1959	10.40	5,060
	Feb. 16, 1949	6.22	2,380		Mar. 16, 1959	6.00	2,260
					May 1, 1959	6.44	2,520
1950	Jan. 8, 1950	5.95	2,260				
	Jan. 11, 1950	7.60	3,270	1960	Dec. 14, 1959	7.39	3,100
	Jan. 17, 1950	7.68	3,340		Jan. 14, 1960	6.43	2,520
	Feb. 15, 1950	8.92	4,220		Feb. 12, 1960	6.41	2,510
	Mar. 28, 1950	5.90	2,200		Mar. 30, 1960	7.77	3,350
	June 25, 1950	5.90	2,200		Apr. 5, 1960	5.98	2,250
1951	Jan. 5, 1951	7.17	3,000	1961	Feb. 28, 1961	6.40	2,330
	Feb. 14, 1951	7.67	3,340		Apr. 19, 1961	6.25	2,260
	Feb. 22, 1951	7.95	3,550		Apr. 23, 1961	6.76	2,510
	Mar. 5, 1951	5.90	2,200		July 19, 1961	6.39	2,320
	Mar. 31, 1951	6.17	2,680		July 31, 1961	8.48	3,520

a For period Apr. 5 to Sept. 30.

1175. Sandy Creek at Waynesburg, Ohio

Location.--Lat 40°40'22", long 81°15'38", at highway bridge 800 ft downstream from Little Sandy Creek, a quarter of a mile north of Waynesburg, Stark County, and half a mile upstream from Indian Run.

Drainage area.--254 sq mi. Channel slope, main stream, 6.64 ft per mile; channel slope, tributary, 39.2 ft per mile; longest watercourse, 26.2 miles; mean elevation of land surface, 1,132 ft above mean sea level; average land slope, 580 ft per mile.

Gage.--Recording. Datum of gage is 955.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,700 cfs and extended on basis of contracted-opening measurement at 15,000 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 31, 1939	5.63	2,500	1951	Dec. 7, 1950	4.82	1,960
	Feb. 20, 1939	5.10	2,200		Jan. 4, 1951	6.62	3,100
	Mar. 13, 1939	7.27	4,600		Jan. 15, 1951	5.28	2,260
1940	Mar. 4, 1940	7.75	6,100		Feb. 13, 1951	6.40	2,950
	Apr. 20, 1940	7.17	4,300		Feb. 21, 1951	5.65	2,470
1941	Dec. 30, 1940	4.91	2,080		Mar. 4, 1951	4.54	1,810
	July 19, 1941	7.18	4,300		Mar. 20, 1951	4.88	2,020
1942	Feb. 17, 1942	4.75	1,900		Mar. 30, 1951	4.79	1,960
	Mar. 14, 1942	6.08	2,860	1952	Jan. 18, 1952	4.98	2,080
	Mar. 17, 1942	5.13	2,200		Jan. 27, 1952	7.95	6,100
	Apr. 10, 1942	5.60	2,500		Feb. 5, 1952	6.74	3,230
1943	Dec. 30, 1942	7.68	5,700		Mar. 11, 1952	4.78	1,960
	Mar. 12, 1943	4.48	1,800		Apr. 16, 1952	5.15	2,170
	Mar. 17, 1943	5.37	2,380		May 26, 1952	4.95	2,050
	Mar. 20, 1943	5.65	2,500	1953	May 23, 1953	5.08	2,140
	July 8, 1943	6.88	3,700	1954	Apr. 28, 1954	4.72	1,740
1944	Mar. 7, 1944	5.10	2,200	1955	Oct. 16, 1954	7.18	3,560
1945	Feb. 17, 1945	5.94	2,860		Feb. 22, 1955	5.72	2,310
	Feb. 22, 1945	5.95	2,860		Mar. 4, 1955	6.43	2,820
	Feb. 27, 1945	4.80	2,030	1956	Feb. 7, 1956	6.05	2,540
	Mar. 7, 1945	7.12	4,100		Feb. 26, 1956	7.72	5,050
	Mar. 22, 1945	6.82	3,550		Mar. 8, 1956	6.65	2,960
	May 17, 1945	7.13	4,120		May 7, 1956	6.48	2,850
1946	Oct. 2, 1945	5.97	2,650		May 12, 1956	6.67	2,960
	Feb. 14, 1946	4.56	1,810		May 28, 1956	5.38	2,130
	Feb. 27, 1946	7.47	4,560		June 1, 1956	5.11	1,960
	May 28, 1946	7.62	5,440		June 25, 1956	4.85	1,820
1947	Jan. 20, 1947	4.65	1,870	1957	Jan. 23, 1957	4.94	1,880
	Jan. 31, 1947	5.90	2,500		Apr. 5, 1957	7.36	4,080
	May 14, 1947	4.57	1,810		Apr. 9, 1957	5.72	2,310
	June 8, 1947	7.60	4,750		June 29, 1957	5.49	2,190
1948	Feb. 14, 1948	6.95	3,500	1958	Jan. 25, 1958	4.80	1,800
	Mar. 20, 1948	4.60	1,840		Apr. 30, 1958	5.69	2,280
	Apr. 12, 1948	7.05	3,580		May 4, 1958	5.26	2,050
	Apr. 14, 1948	7.08	3,650		July 11, 1958	6.32	2,700
	May 5, 1948	4.83	1,990		Aug. 1, 1958	7.81	5,380
1949	Dec. 16, 1948	4.92	2,020	1959	Jan. 22, 1959	10.05	15,000
	Jan. 28, 1949	6.30	2,880		Feb. 10, 1959	7.39	4,200
1950	Jan. 7, 1950	5.35	2,290		Apr. 29, 1959	5.46	2,140
	Jan. 10, 1950	6.05	2,710	1960	Dec. 13, 1959	4.89	1,840
	Feb. 14, 1950	6.07	2,710		Mar. 30, 1960	6.32	2,720
	June 25, 1950	5.52	2,380	1961	Feb. 26, 1961	6.16	2,600
1951	Dec. 4, 1950	7.43	4,250		Apr. 26, 1961	4.95	1,880

1180. Middle Branch Nimishillen Creek at Canton, Ohio

Location.--Lat 40°50'30", long 81°21'20", at bridge on Martindale Road, 2.4 miles upstream from mouth and 3.1 miles northeast of Canton, Stark County.

Drainage area.--44.2 sq mi.

Gage.--Recording. Datum of gage is 1,046.6 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,540 cfs and extended on basis of contracted-opening measurement of peak flow at 2,470 cfs.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	4.48	538	1951	Jan. 15, 1951	4.20	405
					Feb. 13, 1951	4.71	635
1943	Dec. 30, 1942	4.65	655		Feb. 21, 1951	4.73	652
	Feb. 11, 1943	4.27	400		Mar. 4, 1951	4.40	530
	Mar. 17, 1943	4.38	480		Mar. 7, 1951	4.19	472
	Mar. 20, 1943	4.36	470		Mar. 19, 1951	3.97	406
					Mar. 30, 1951	4.20	472
1944	Mar. 7, 1944	4.46	526				
	Apr. 12, 1944	4.38	480	1952	Dec. 31, 1951	4.03	431
					Jan. 18, 1952	4.98	750
1945	Feb. 22, 1945	4.75	730		Jan. 27, 1952	5.77	1,180
	Mar. 3, 1945	4.18	405		Feb. 4, 1952	4.81	670
	Mar. 7, 1945	4.53	550		Mar. 11, 1952	4.94	730
	Mar. 21, 1945	4.41	490				
	May 18, 1945	4.62	620	1953	May 23, 1953	4.89	710
1946	Feb. 27, 1946	5.21	870	1954	Apr. 17, 1954	3.43	302
	May 28, 1946	4.96	795				
	June 17, 1946	4.70	575	1955	Mar. 11, 1955	3.77	368
1947	Jan. 31, 1947	4.46	488	1956	Feb. 7, 1956	4.10	460
	Apr. 5, 1947	4.28	440		Feb. 26, 1956	4.97	730
	May 26, 1947	4.33	455		Mar. 8, 1956	4.00	435
	June 3, 1947	5.23	855		May 12, 1956	4.49	570
	June 7, 1947	5.42	950		May 28, 1956	5.25	865
					June 1, 1956	3.95	425
1948	Feb. 14, 1948	5.56	1,060				
	Mar. 20, 1948	4.08	413	1957	Jan. 22, 1957	3.68	415
	Apr. 12, 1948	4.15	426		Apr. 5, 1957	4.02	490
					July 9, 1957	4.15	535
1949	Dec. 16, 1948	5.15	795				
	Jan. 28, 1949	4.69	585	1958	July 12, 1958	4.65	535
					Aug. 1, 1958	6.15	1,920
1950	Jan. 11, 1950	4.88	660				
	Jan. 16, 1950	4.45	482	1959	Jan. 22, 1959	6.50	2,470
	Feb. 14, 1950	4.62	535		Feb. 10, 1959	5.60	1,180
	Apr. 5, 1950	4.60	535				
	June 25, 1950	5.44	985	1960	Dec. 13, 1959	4.23	392
1951	Dec. 3, 1950	5.31	885	1961	Feb. 26, 1961	3.79	328
	Jan. 4, 1951	4.95	685				

1185. Nimishillen Creek at North Industry, Ohio

Location.--Lat 40°44'01", long 81°21'08", at railroad bridge, 1 mile southeast of North Industry, Stark County, and 3 miles downstream from Sherrick Run.

Drainage area.--175 sq mi; at site used 1921-23, 173 sq mi. Channel slope, main stream, 8.66 ft per mile; channel slope, tributary, 35.3 ft per mile; longest watercourse, 25.6 miles; mean elevation of land surface, 1,120 ft above mean sea level; average land slope, 233 ft per mile.

Gage.--Nonrecording prior to Dec. 12, 1923; recording thereafter. At site 1 mile upstream at different datum prior to Dec. 13, 1923. Datum of gage is 970.77 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,400 cfs and extended on basis of slope-area measurement at 8,600 cfs. Relation for nonrecording gage defined by current-meter measurements below 1,230 cfs; peak discharges for these years may be substantially in error.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 1,500 cfs. Only annual peaks are shown prior to 1924.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Apr. 15, 1922, Sept. 2, 1922	7.8	1,950
1923	May 12, 1923	8.75	2,350
1924	Jan. 11, 1924	6.54	2,760
	Jan. 16, 1924	6.41	2,650
	Mar. 29, 1924	6.14	2,480
	June 29, 1924	7.9	3,950
1925	Feb. 23, 1925	5.0	1,770
1926	Feb. 25, 1926	7.0	3,070
1927	Jan. 19, 1927	7.8	3,810
	Jan. 22, 1927	6.10	2,440
	Mar. 20, 1927	6.38	2,650
	May 19, 1927	5.87	2,260
	June 4, 1927	4.73	1,580
1928	Dec. 1, 1927	7.3	3,310
	Dec. 14, 1927	7.18	3,230
	Dec. 16, 1927	4.90	1,670
	Jan. 1, 1928	4.75	1,580
	Feb. 15, 1928	5.04	1,760
	Mar. 30, 1928	4.70	1,550
	July 21, 1928	5.92	2,300
1929	Jan. 25, 1929	5.40	1,970
	Feb. 26, 1929	9.9	6,660
	May 3, 1929	5.16	1,820
	July 25, 1929	4.69	1,550
1930	Nov. 18, 1929	6.18	2,510
	Jan. 13, 1930	5.79	2,230
	Feb. 26, 1930	6.9	3,000
1931	July 5, 1931	4.30	1,290
1932	Jan. 18, 1932	6.43	2,680
	Jan. 30, 1932	4.86	1,640
1933	Mar. 15, 1933	7.34	3,350
1934	Apr. 4, 1934	5.68	2,160
1935	Mar. 12, 1935	4.91	1,670
	Aug. 3, 1935	6.58	2,790
	Aug. 7, 1935	9.51	6,110
1936	Feb. 27, 1936	6.56	2,760
	Mar. 24, 1936	6.08	2,440
1937	Jan. 15, 1937	8.28	4,700
	Jan. 18, 1937	5.38	1,970
	Jan. 22, 1937	7.88	3,810
	Jan. 25, 1937	9.23	5,700
1937	June 21, 1937	4.82	1,610
	July 12, 1937	4.88	1,670
	July 15, 1937	5.90	2,300
	July 25, 1937	5.06	1,760
1938	Dec. 18, 1937	5.27	1,880
	Mar. 6, 1938	5.04	1,760
	Mar. 14, 1938	5.82	2,230
	Mar. 17, 1938	5.44	2,000
	Apr. 8, 1938	5.17	1,820
	Aug. 4, 1938	4.87	1,640
1939	Feb. 19, 1939	4.90	1,700
	Feb. 20, 1939	4.90	1,700
	Mar. 12, 1939	8.10	4,280
	Apr. 18, 1939	5.80	2,230
1940	Mar. 4, 1940	9.19	5,700
	Apr. 20, 1940	6.12	2,440
	June 11, 1940	5.38	1,970
1941	Dec. 29, 1940	4.38	1,370
1942	Feb. 17, 1942	5.00	1,730
	Mar. 14, 1942	5.07	1,760
	Apr. 10, 1942	4.65	1,520
1943	Dec. 30, 1942	6.02	2,370
	Mar. 17, 1943	5.45	2,000
	Mar. 20, 1943	5.35	1,940
	Aug. 14, 1943	6.36	2,620
1944	Mar. 7, 1944	4.73	1,580
1945	Feb. 22, 1945	5.26	1,880
	Mar. 3, 1945	5.01	1,730
	Mar. 7, 1945	6.58	2,790
	Mar. 21, 1945	6.46	2,680
	May 18, 1945	6.98	3,070
1946	Feb. 27, 1946	8.23	4,590
	May 28, 1946	7.25	3,270
	June 17, 1946	6.13	2,480
	July 24, 1946	6.22	2,510
	July 30, 1946	5.57	2,060
	Aug. 17, 1946	4.89	1,670
1947	Jan. 20, 1947	4.96	1,700
	Jan. 31, 1947	6.24	2,540
	May 22, 1947	5.02	1,730
	May 26, 1947	5.02	1,730
	June 3, 1947	7.37	3,350
	June 7, 1947	8.43	5,040
	Aug. 16, 1947	4.77	1,580
1948	Feb. 14, 1948	7.33	3,350

Peak stages and discharges of Nimishillen Creek at North Industry, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 20, 1948	5.34	1,940	1955	Feb. 22, 1955	4.70	1,550
	Apr. 12, 1948	6.20	2,510		Mar. 1, 1955	4.70	1,550
	Apr. 14, 1948	4.95	1,700		Mar. 4, 1955	5.33	1,940
	May 5, 1948	4.95	1,700		Mar. 22, 1955	4.68	1,550
1949	Dec. 16, 1948	5.07	1,760	1956	Feb. 7, 1956	5.57	2,060
	Jan. 28, 1949	5.42	1,970		Feb. 25, 1956	7.35	3,350
	Aug. 3, 1949	4.93	1,700		Mar. 8, 1956	5.37	1,940
					May 7, 1956	6.06	2,400
1950	Jan. 10, 1950	5.72	2,160		May 12, 1956	5.73	2,200
	Feb. 14, 1950	5.28	1,910		May 28, 1956	6.68	2,860
	Apr. 5, 1950	4.95	1,700		July 8, 1956	4.69	1,550
	June 25, 1950	8.92	5,300		Aug. 5, 1956	4.88	1,670
					Aug. 13, 1956	4.98	1,730
1951	Dec. 3, 1950	6.10	2,440				
	Jan. 4, 1951	6.10	2,440	1957	Apr. 4, 1957	6.48	2,720
	Feb. 13, 1951	5.36	1,940		Apr. 9, 1957	5.24	1,880
	Feb. 21, 1951	5.32	1,910		June 29, 1957	6.09	2,440
	Mar. 4, 1951	4.90	1,670				
				1958	Apr. 29, 1958	5.00	1,730
1952	Jan. 18, 1952	5.33	1,940		July 11, 1958	6.15	2,510
	Jan. 27, 1952	8.28	4,700		July 31, 1958	9.13	5,570
	Feb. 4, 1952	5.76	2,200				
	Mar. 11, 1952	5.62	2,090	1959	Jan. 21, 1959	11.29	8,600
					Feb. 10, 1959	7.74	3,860
1953	May 23, 1953	7.10	3,150				
	June 9, 1953	4.84	1,640	1960	Dec. 12, 1959	4.85	1,640
					Mar. 28, 1960	4.95	1,700
1954	Apr. 17, 1954	4.63	1,520				
	Apr. 28, 1954	5.65	2,120	1961	Feb. 26, 1961	5.47	2,010
					July 18, 1961	4.91	1,680
1955	Oct. 16, 1954	6.05	2,400				

1190. Sandy Creek at Sandyville, Ohio

Location.--Lat 40°38'04", long 81°22'28", at highway bridge a third of a mile downstream from Nimishillen Creek, half a mile south of Sandyville, Tuscarawas County, and 3½ miles upstream from Bolivar Dam.

Drainage area.--481 sq mi.

Gage.--Nonrecording prior to Sept. 20, 1930; recording thereafter. At site 100 ft upstream at same datum June 13, 1926, to Sept. 19, 1930. Datum of gage is 913.25 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 10,300 cfs. Affected by backwater from Bolivar Reservoir after completion in November 1937.

Historical data.--Flood of March 1913 reached a stage of 14.8 ft, present datum (not comparable with present stages because of channel changes).

Remarks.--Peak discharges after 1937 may be slightly in error because of backwater. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	June 29, 1924	9.9	6,300	1936	Feb. 27, 1936	10.54	7,220
1925	Feb. 23, 1925	7.2	3,540	1937	Jan. 25, 1937	14.08	14,200
				1938	Mar. 17, 1938	9.73	6,080
1926	Feb. 26, 1926	10.5	7,220	1939	Mar. 13, 1939	11.43	8,680
1927	Jan. 20, 1927	11.4	8,500	1940	Mar. 4, 1940	a19.42	13,200
1928	Dec. 14, 1927	10.4	6,920				
1929	Feb. 26, 1929	13.8	13,500	1941	July 20, 1941	7.24	3,130
1930	Feb. 26, 1930	11.8	9,230	1942	Mar. 14, 1942	8.46	4,400
				1943	Dec. 31, 1942	11.77	9,040
1931	June 8, 1931	5.95	2,600	1944	Mar. 7, 1944	7.34	3,240
1932	Jan. 18, 1932	9.36	5,700	1945	May 18, 1945	b18.30	7,400
1933	Mar. 15, 1933	11.73	9,230				
1934	Apr. 5, 1934	8.82	5,050	1946	May 28, 1946	11.64	9,040
1935	Aug. 7, 1935	13.84	12,600	1947	June 7, 1947	c25.11	10,000

a Occurred Apr. 23, 1940; backwater from Bolivar Reservoir.
b Occurred Mar. 8, 1945; backwater from Bolivar Reservoir.
c Occurred June 10, 1947; backwater from Bolivar Reservoir.

1196. Jefferson Creek near Jewett, Ohio

Location.--Lat 40°23'00", long 80°58'35", at culvert adjacent to State Highway 9, 1.4 miles northeast of junction of State Highways 9 and 151 at east edge of Jewett, Harrison County.

Drainage area.--2.48 sq mi. Length of main stream, 2.7 miles; average slope main stream, 40 ft per mile; average slope main stream and upper reach, 65 ft per mile; slope at gage, 42 ft per mile; length divided by average width of basin, 2.94.

Gage.--Crest-stage gage. Altitude of gage is 1,035 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by indirect measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	10.47	64	1955	Oct. 15, 1954	11.50	107
1948	-	11.63	114				
1949	-	-	a40	1956	-	12.36	150
1950	-	11.94	128	1957	-	11.46	105
				1958	-	10.64	71
1951	-	10.20	55	1959	Jan. 21, 1959	10.58	69
1952	Aug. 16, 1952	14.85	367	1960	-	-	b33
1953	-	10.16	53				
1954	-	10.56	68	1961	-	12.61	a170

a Estimated.
b Peak stage did not reach bottom of gage; peak discharge less than amount shown.

1197. Conotton Creek at Jewett, Ohio

Location.--Lat 40°21'55", long 81°00'15", at bridge on State Highway 9 in Jewett, Harrison County.

Drainage area.--14.1 sq mi. Length of main stream, 4.57 miles; average slope main stream, 30 ft per mile; average slope main stream and tributaries, 52.5 ft per mile; slope at gage, 11 ft per mile; length divided by average width of basin, 1.48.

Gage.--Crest-stage gage. Altitude of gage is 1,005 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements at 95 cfs and by indirect determinations at 484 and 989 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	13.27	579	1955	Oct. 15, 1954	14.49	755
1948	-	13.42	593				
1949	-	10.68	265	1956	-	12.06	417
1950	-	15.04	830	1957	Apr. 4, 1957	12.58	481
				1958	-	12.14	417
1951	-	10.87	285	1959	Jan. 21, 1959	12.29	440
1952	-	16.30	1,060	1960	-	10.77	272
1953	-	12.54	467				
1954	-	10.18	215	1961	-	10.82	277

1205. McGuire Creek below Leesville Dam, near Leesville, Ohio

Location.--Lat 40°28'09", long 81°11'49", at outlet of Leesville Dam, 1.3 miles upstream from mouth and 1.4 miles northeast of Leesville, Carroll County.

Drainage area.--47.9 sq mi.

Gage.--Nonrecording prior to May 27, 1942; recording thereafter. At site 100 ft upstream at same datum prior to May 27, 1942. Datum of gage is 915.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements. Frequently affected by backwater from Conotton Creek.

Remarks.--Flow regulated by Leesville Reservoir (37,400 acre-ft, 47.9 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 31, 1939	a6.56	676	1951	Dec. 11, 1950	d7.14	545
1940	Mar. 4, 1940	b7.88	740	1952	Feb. 12, 1952	6.36	535
				1953	Apr. 2, 1953	4.64	324
1941	Mar. 5, 1941	b6.65	600	1954	Dec. 23, 1953	4.12	249
1942	Mar. 14, 1942	c6.70	640	1955	Mar. 22, 1955	4.53	322
1943	Apr. 22, 1943	c4.98	392				
1944	Mar. 8, 1944	7.16	544	1956	Feb. 19, 1956	4.81	355
1945	Mar. 22, 1945	7.03	532	1957	Jan. 22, 1957	e4.55	300
				1958	May 4, 1958	4.44	308
1946	Feb. 27, 1946	6.80	518	1959	Feb. 10, 1959	5.20	404
1947	Jan. 31, 1947	b5.53	374	1960	Mar. 30, 1960	5.13	396
1948	Apr. 18, 1948	6.82	573				
1949	Dec. 20, 1948	4.97	386	1961	Mar. 10, 1961	5.03	384
1950	Jan. 6, 1950	b7.10	535				

a Occurred Mar. 13, 1939; backwater from Conotton Creek. b Backwater from Conotton Creek. c Occurred Feb. 5, 1942; backwater from Conotton Creek. d Occurred Dec. 4, 1950; backwater from Conotton Creek. e Occurred Jan. 23, 1957, backwater from Conotton Creek.

1215. Indian Fork below Atwood Dam, near New Cumberland, Ohio
(Published as Indian Fork near New Cumberland prior to 1940)

Location.--Lat 40°31'30", long 81°17'20", 500 ft below Atwood Dam, 0.5 mile upstream from mouth, and 1.5 miles southeast of New Cumberland, Tuscarawas County.

Drainage area.--70.3 sq mi.

Gage.--Nonrecording prior to Aug. 28, 1943; recording thereafter. At site 250 ft upstream at same datum prior to Aug. 28, 1943. Datum of gage is 884.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Subject to backwater from Conotton Creek; peak discharges based on computations of flow through dam.

Remarks.--Flow regulated by Atwood Reservoir (49,700 acre-ft, 70.3 sq mi). Practically all peaks are affected by backwater from Conotton Creek. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 13, 1939	13.85	-	1945	Apr. 8, 1945	13.65	-
	Mar. 14, 1939	-	1,430				
1940	Mar. 5, 1940	12.93	-	1946	Mar. 1, 1946	11.10	-
	Mar. 11, 1940	11.70	1,030		June 4, 1946	10.72	847
				1947	June 11, 1947	19.0	-
1941	Dec. 30, 1940	12.30	-		June 23, 1947	-	772
	Jan. 1, 1941	-	700	1948	Apr. 14, 1948	12.72	-
1942	Mar. 15, 1942	11.85	640		May 11, 1948	10.29	745
	Apr. 11, 1942	12.36	-	1949	Jan. 28, 1949	11.66	-
1943	Jan. 5, 1943	11.81	-		Jan. 29, 1949	-	578
	Mar. 13, 1943	10.90	693	1950	Jan. 7, 1950	12.57	604
1944	Feb. 2, 1944	11.37	1,030		Jan. 8, 1950	12.63	-
	Mar. 9, 1944	12.45	-				
1945	Apr. 7, 1945	13.00	1,610	1951	Dec. 4, 1950	12.67	-

Peak stages and discharges of Indian Fork below Atwood Dam, near New Cumberland, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 17, 1951	-	604	1957	Apr. 6, 1957	11.60	-
1952	Jan. 31, 1952	14.65	-	1958	Jan. 26, 1958	10.27	-
	Feb. 8, 1952	-	625		July 13, 1958	-	439
1953	May 23, 1953	9.90	380	1959	Jan. 25, 1959	17.90	-
1954	Mar. 30, 1954	10.68	588		Feb. 1, 1959	-	443
1955	Mar. 4, 1955	10.84	-				
	Mar. 21, 1955	-	471	1960	Apr. 4, 1960	-	377
					Apr. 5, 1960	11.00	-
1956	Feb. 26, 1956	11.34	-				
	Mar. 1, 1956	10.50	628	1961	Mar. 12, 1961	-	417
1957	Jan. 22, 1957	-	455		Apr. 29, 1961	11.95	-

1225. Tuscarawas River below Dover Dam, near Dover, Ohio

Location.--Lat 40°31'49", long 81°25'51", at bridge on State Highway 16, 2.2 miles downstream from Dover Dam, 2½ miles northeast of Dover, Tuscarawas County, and 3 miles upstream from Sugar Creek.

Drainage area.--1,398 sq mi.

Gage.--Nonrecording prior to Aug. 30, 1930; recording thereafter. Datum of gage is 861.51 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 24,700 cfs.

Bankfull stage.--9 ft.

Remarks.--Flow regulated by four flood control reservoirs, since 1936 (combined capacity, 439,700 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a23.5	b62,000	1942	Mar. 16, 1942	7.55	8,520
				1943	Jan. 5, 1943	7.51	8,450
1924	Mar. 30, 1924	8.9	11,200	1944	Apr. 13, 1944	7.27	8,130
1925	Feb. 24, 1925	7.4	8,280	1945	Mar. 9, 1945	8.48	10,200
1926	Feb. 26, 1926	9.7	12,800	1946	Mar. 2, 1946	e7.78	9,080
1927	Mar. 22, 1927	12.2	18,500	1947	June 19, 1947	8.08	9,380
1928	Dec. 15, 1927	11.6	16,400	1948	Feb. 16, 1948	f7.28	7,940
1929	Feb. 27, 1929	13.3	20,700	1949	Jan. 29, 1949	6.81	7,080
1930	Feb. 27, 1930	11.74	16,700	1950	Feb. 16, 1950	7.82	8,840
1931	Apr. 23, 1931	4.73	4,160	1951	Dec. 4, 1950	7.51	8,000
1932	Jan. 18, 1932	8.49	9,640	1952	Jan. 29, 1952	8.25	9,000
1933	Mar. 16, 1933	13.33	20,600	1953	May 24, 1953	6.44	5,780
1934	Apr. 5, 1934	c9.45	11,600	1954	Apr. 19, 1954	6.08	5,060
1935	Aug. 8, 1935	15.26	22,300	1955	Mar. 19, 1955	7.22	7,010
1936	Feb. 27, 1936	d11.75	16,800	1956	Mar. 18, 1956	7.63	7,800
1937	Jan. 26, 1937	15.51	26,400	1957	Apr. 16, 1957	7.12	6,410
1938	Mar. 17, 1938	9.56	12,000	1958	Aug. 11, 1958	6.90	6,100
1939	Mar. 14, 1939	10.95	14,900	1959	Feb. 25, 1959	7.56	7,150
1940	Mar. 5, 1940	10.90	14,900	1960	Apr. 9, 1960	7.23	6,810
1941	Dec. 31, 1940	7.00	7,500	1961	Mar. 4, 1961	7.25	6,060

a About. b Computed by Corps of Engineers. c Maximum gage height 10.9 ft on Mar. 4; ice jam. d Maximum gage height 14.06 ft on Feb. 27; ice jam. e Maximum gage height 8.73 ft on Dec. 27, 1945; backwater from ice. f Maximum gage height 9.25 ft on Feb. 14; backwater from ice.

1240. Sugar Creek below Beach City Dam, near Beach City, Ohio

Location.--Lat 40°38'10", long 81°33'20", 1,000 ft downstream from Beach City Dam, 0.3 mile downstream from South Fork, and 1¾ miles southwest of Beach City, in Tuscarawas County.

Drainage area.--300 sq mi. Prior to 1939, 310 sq mi.

Gage.--Nonrecording prior to Mar. 23, 1939; recording thereafter. At site 4 miles downstream, 1931-33, 1934-38, at datum 898.24 ft above mean sea level, adjustment of 1912. At site 300 ft downstream at present datum 1939-49. Datum of gage is 928.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,220 cfs at present site and below 8,400 cfs at site used prior to 1939.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by Beach City Reservoir (71,700 acre-ft, 300 sq mi) after 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Jan. 18, 1932	8.94	4,660	1947	June 26, 1947	6.24	1,940
1933	Mar. 15, 1933	9.56	6,590	1948	Feb. 16, 1948	7.40	2,830
				1949	Feb. 1, 1949	6.55	2,190
1935	Aug. 7, 1935	12.70	19,700	1950	Jan. 17, 1950	7.38	2,830
1936	Feb. 26, 1936	9.50	5,830	1951	Dec. 4, 1950	7.32	2,740
1937	Jan. 25, 1937	10.20	9,100	1952	Mar. 11, 1952	7.16	2,510
1938	Dec. 19, 1937	9.14	5,160	1953	Jan. 19, 1953	5.74	1,530
1939	Mar. 13, 1939	9.53	7,500	1954	Apr. 18, 1954	5.63	1,400
1940	Mar. 6, 1940	8.10	3,600	1955	Mar. 9, 1955	7.29	2,390
1941	Dec. 30, 1940	6.41	2,010	1956	Feb. 7, 1956	6.72	2,010
1942	Apr. 10, 1942	7.24	2,630	1957	Jan. 23, 1957	6.52	1,740
1943	Dec. 28, 1942	7.32	2,720	1958	Aug. 4, 1958	6.24	1,600
1944	Mar. 8, 1944	7.79	3,200	1959	Jan. 28, 1959	7.51	2,340
1945	Mar. 21, 1945	7.40	2,810	1960	Apr. 6, 1960	7.26	2,200
1946	Feb. 15, 1946	6.85	2,360	1961	Mar. 7, 1961	6.71	1,920

1250. Home Creek near New Philadelphia, Ohio

Location.--Lat 40°28'05", long 81°24'15", at county road bridge half a mile upstream from confluence with Beaverdam Creek and 2¾ miles southeast of New Philadelphia, Tuscarawas County.

Drainage area.--1.64 sq mi. Length of main stream, 1.7 miles; average slope main stream, 37.5 ft per mile; average slope main stream and tributaries, 159 ft per mile; slope at gage, 20 ft per mile; length divided by average width of basin, 1.76; mean elevation of land surface, 978 ft above mean sea level; average land slope, 922 ft per mile.

Gage.--Recording. Datum of gage is 872.49 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 14, 1937	3.34	153	1938	June 11, 1938	3.71	182
	Jan. 22, 1937	2.76	106		June 16, 1938	3.56	170
	Jan. 24, 1937	3.68	182		June 26, 1938	1.99	52
	Apr. 15, 1937	3.20	141		Aug. 4, 1938	3.93	204
	May 27, 1937	4.00	208				
	June 21, 1937	3.18	129	1939	Jan. 30, 1939	1.99	52
	July 2, 1937	2.31	75		Feb. 15, 1939	2.35	78
					Mar. 12, 1939	2.21	68
1938	Dec. 17, 1937	1.97	51				
	Mar. 14, 1938	2.22	68	1940	Mar. 3, 1940	3.18	141
	Mar. 16, 1938	3.93	204		Apr. 19, 1940	2.86	113

Peak stages and discharges of Home Creek near New Philadelphia, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 29, 1940	2.02	56	1950	Apr. 25, 1950	2.30	50
	June 18, 1940	4.00	208		June 24, 1950	3.00	107
	June 28, 1940	2.63	98		Sept. 1, 1950	2.39	56
	July 24, 1940	3.05	129		Sept.21, 1950	2.42	59
1941	Dec. 29, 1940	2.24	64	1951	Nov. 20, 1950	2.46	54
	June 13, 1941	2.29	73		Jan. 4, 1951	3.19	125
	July 15, 1941	2.48	81	1952	Jan. 26, 1952	3.47	164
	July 18, 1941	3.40	157	1953	May 22, 1953	3.61	179
	Aug. 15, 1941	2.24	64	1954	Mar. 30, 1954	1.79	19
1942	May 16, 1942	2.05	51	1955	Oct. 15, 1954	2.83	83
1943	Mar. 19, 1943	2.32	69	1956	Feb. 25, 1956	4.32	269
1944	Mar. 6, 1944	2.17	59		June 24, 1956	3.92	209
	May 20, 1944	2.26	65	1957	Apr. 4, 1957	2.65	67
1945	Jan. 2, 1945	2.59	90		June 28, 1957	3.25	134
	Feb. 13, 1945	2.69	98	1958	Dec. 7, 1957	2.44	52
	Mar. 6, 1945	2.50	83		May 4, 1958	2.60	63
	Mar. 21, 1945	2.60	91		July 8, 1958	4.17	243
	May 17, 1945	2.74	102	1959	Jan. 21, 1959	4.00	221
1946	Feb. 15, 1946	2.20	61		Feb. 10, 1959	3.35	148
	Feb. 26, 1946	3.15	136		June 26, 1959	2.98	99
1947	Jan. 30, 1947	2.45	61		Sept.30, 1959	2.52	57
	June 7, 1947	3.17	123	1960	Mar. 29, 1960	2.4	49
1948	Apr. 11, 1948	4.16	224	1961	Feb. 25, 1961	2.85	97
	Apr. 14, 1948	2.50	65		Apr. 25, 1961	2.68	79
1949	Jan. 27, 1949	2.46	62		Sept. 4, 1961	4.45	299
1950	Jan. 6, 1950	2.83	92				

1257. West Branch Spencer Creek at Hendrysburg, Ohio

Location.--Lat 40°03'30", long 81°09'30", at culvert on U.S. Highway 40 at Hendrysburg, Belmont County.

Drainage area.--2.18 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 960 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements at 29 cfs and by contracted-opening measurement at 740 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	July 5, 1950	13.37	740	1956	-	12.77	500
				1957	-	12.23	340
1951	-	11.80	240	1958	-	11.14	127
1952	-	11.75	230	1959	Jan. 21, 1959	11.53	186
1953	-	11.74	230	1960	-	10.08	29
1954	-	10.08	29				
1955	-	10.73	80	1961	-	12.88	538

1260. Stillwater Creek at Piedmont, Ohio

Location.--Lat 40°11'40", long 81°12'50", 400 ft downstream from outlet of Piedmont Dam and mouth of Boggs Fork and three-quarters of a mile northwest of Piedmont, Harrison County.

Drainage area.--122 sq mi.

Gage.--Recording. At a site 1,000 ft downstream at datum 1.00 ft higher prior to Sept. 9, 1949. Datum of gage is 872.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,360 cfs.

Remarks.--Flow regulated by Piedmont Reservoir (65,000 acre-ft, 84 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 14, 1939	10.22	1,010	1951	Dec. 4, 1950	10.72	1,470
1940	Apr. 20, 1940	11.20	1,290	1952	Jan. 27, 1952	10.61	1,450
				1953	Mar. 26, 1953	6.99	700
1941	Dec. 30, 1940	9.54	660	1954	Oct. 5, 1953	5.73	462
1942	Apr. 10, 1942	10.60	1,020	1955	Mar. 5, 1955	9.89	1,120
1943	Mar. 20, 1943	10.48	980				
1944	Apr. 8, 1944	10.07	960	1956	July 6, 1956	9.37	817
1945	Mar. 7, 1945	11.23	1,430	1957	Apr. 5, 1957	8.60	878
				1958	Aug. 4, 1958	8.84	914
1946	Dec. 26, 1945	8.77	520	1959	Feb. 11, 1959	10.93	1,330
1947	June 7, 1947	10.34	1,000	1960	Dec. 14, 1959	7.12	617
1948	Apr. 14, 1948	7.78	1,150				
1949	Apr. 14, 1949	9.00	1,430	1961	Apr. 25, 1961	9.24	1,040
1950	Jan. 6, 1950	10.21	1,360				

1270. Stillwater Creek at Tippecanoe, Ohio

Location.--Lat 40°16'11", long 81°17'27", at highway bridge at Tippecanoe, Harrison County, half a mile downstream from Brushy Fork, 3¾ miles upstream from Weaver Run, 6 miles upstream from Laurel Creek, and 9 miles south of Dennison.

Drainage area.--281 sq mi.

Gage.--Nonrecording prior to Feb. 9, 1939; recording thereafter. Datum of gage is 849.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,520 cfs.

Remarks.--Flow regulated by Clendening (54,000 acre-ft, 69.5 sq mi) and Piedmont (65,000 acre-ft, 84 sq mi) Reservoirs. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 19, 1939	13.53	1,980	1951	Dec. 4, 1950	16.24	3,600
1940	Apr. 20, 1940	16.78	3,970	1952	Jan. 27, 1952	16.60	3,900
				1953	Jan. 29, 1953	10.79	1,260
1941	Dec. 30, 1940	13.65	1,970	1954	Mar. 30, 1954	10.54	1,210
1942	Apr. 10, 1942	14.68	2,500	1955	Mar. 6, 1955	14.50	2,350
1943	Mar. 21, 1943	14.72	2,560				
1944	Apr. 9, 1944	13.62	2,080	1956	May 29, 1956	13.99	2,000
1945	Mar. 7, 1945	17.26	4,410	1957	Apr. 5, 1957	13.95	2,000
				1958	May 6, 1958	13.77	1,870
1946	Dec. 26, 1945	12.14	1,450	1959	Feb. 11, 1959	15.47	3,050
1947	June 9, 1947	15.36	2,670	1960	Mar. 30, 1960	11.89	1,380
1948	Feb. 15, 1948	15.97	3,500				
1949	Apr. 15, 1949	14.04	2,280	1961	Apr. 27, 1961	14.84	2,590
1950	Jan. 7, 1950	15.84	3,300				

1275. Stillwater Creek at Uhrichsville, Ohio

Location.--Lat 40°23'11", long 81°20'48", gages upstream and downstream from concrete dam of Dennison Water Supply Co., at Uhrichsville, Tuscarawas County, and 2 miles upstream from Little Stillwater Creek.

Drainage area.--367 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1936; two recording gages thereafter. Datum of upper gage is 839.37 ft, lower gage, 829.37 ft above mean sea level, adjustment of 1912. Prior to Oct. 1, 1936, nonrecording gage at site 1.7 miles upstream at same datum as upper gage; used as auxiliary gage since Oct. 1, 1936.

Stage-discharge relation.--Defined by current-meter measurements but subject to backwater from the Tuscarawas River at high stages.

Remarks.--Gage heights after October 1936 are for lower gage unless otherwise indicated. Flow regulated by Clendening Reservoir (54,000 acre-ft, 69.5 sq mi) and Piedmont Reservoir (65,000 acre-ft, 84 sq mi) after 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a15.5	-	1942	Apr. 11, 1942	14.52	2,690
				1943	Dec. 31, 1942	15.43	3,070
1923	May 14, 1923	7.1	2,690	1944	Mar. 8, 1944	14.50	2,640
1924	Mar. 31, 1924	9.8	4,110	1945	Mar. 8, 1945	18.36	5,570
1925	Feb. 10, 1925	5.0	2,040				
				1946	Dec. 27, 1945	12.82	2,290
1926	Sept.25, 1926	9.1	3,640	1947	June 10, 1947	14.02	2,730
1927	Jan. 23, 1927	11.0	5,210	1948	Apr. 15, 1948	17.33	4,260
1928	Dec. 16, 1927	11.8	5,610	1949	Jan. 26, 1949	b14.00	2,430
1929	Feb. 28, 1929	9.5	3,900	1950	Jan. 8, 1950	17.42	4,320
1930	Nov. 20, 1929	9.9	4,180				
				1951	Dec. 5, 1950	a6.71	3,690
1931	Apr. 6, 1931	9.10	3,640	1952	Jan. 27, 1952	a9.11	5,210
1932	Dec. 15, 1931	5.5	2,210	1953	Mar. 26, 1953	a2.18	1,450
1933	Mar. 16, 1933	12.00	5,700	1954	May 31, 1954	a2.58	1,800
1934	Mar.5,6, 1934	5.40	2,180	1955	Mar. 7, 1955	a4.22	2,690
1935	Aug. 8, 1935	14.2	7,650				
				1956	Mar. 8, 1956	a4.42	2,780
1936	Feb. 28, 1936	10.8	4,810	1957	Apr. 5, 1957	c5.10	2,550
1937	Jan. 26, 1937	a12.60	7,460	1958	May 5, 1958	4.55	2,550
1938	Apr. 11, 1938	16.04	3,440	1959	Jan. 22, 1959	5.72	3,040
1939	Mar. 14, 1939	14.94	3,110	1960	Mar. 30, 1960	3.82	2,510
1940	Apr. 21, 1940	18.17	4,700				
				1961	Apr. 26, 1961	5.27	3,190
1941	Dec. 31, 1940	15.68	3,070				

a Upper gage.
b Occurred Jan. 28, 1949.
c Backwater from Tuscarawas River.

1285. Little Stillwater Creek below Tappan Dam, at Tappan, Ohio
(Published as Little Stillwater Creek at Tappan 1938-39)

Location.--Lat 40°21'30", long 81°13'50", at outlet of reservoir at Tappan Dam, 1 mile west of Tappan, Harrison County, and 2 miles upstream from Plum Run.

Drainage area.--71.0 sq mi.

Gage.--Recording. At gatehouse at Tappan Dam at datum 9 ft higher prior to Jan. 30, 1939. At site 150 ft downstream at present datum Jan. 30, 1939, to Aug. 6, 1944. Datum of gage is 861.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements and computations of flow through gate openings.

Remarks.--Flow regulated by Tappan Reservoir (61,000 acre-ft, 71.0 sq mi). Only annual peaks are shown.

Peak stages and discharges of Little Stillwater Creek below Tappan Dam, at Tappan, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 13, 1939	10.00	1,050	1951	Jan. 17, 1951	6.66	504
1940	Mar. 3, 1940	7.94	333	1952	Feb. 18, 1952	6.86	580
				1953	June 18, 1953	6.45	420
1941	Feb. 15, 1941	7.74	255	1954	Mar. 31, 1954	6.64	496
1942	Mar. 18, 1942	9.16	507	1955	Mar. 10, 1955	6.84	538
1943	Jan. 18, 1943	8.48	327				
1944	Apr. 17, 1944	8.55	336	1956	Mar. 14, 1956	c6.88	464
1945	Apr. 7, 1945	10.12	804	1957	Jan. 23, 1957	6.65	412
				1958	Aug. 4, 1958	6.67	412
1946	Jan. 27, 1946	a7.19	228	1959	Feb. 19, 1959	6.79	447
1947	Jan. 3, 1947	b7.13	186	1960	Apr.5-7, 1960	6.80	546
1948	Apr. 17, 1948	7.09	436				
1949	Jan. 27, 1949	6.56	464	1961	Mar. 11, 1961	6.83	559
1950	Jan. 5, 1950	6.69	516				

a Occurred Jan. 29 to Feb. 1, 1946.
b Occurred Jan. 30, 1947.
c Occurred Oct. 27, 1955.

1290. Tuscarawas River at Newcomerstown, Ohio

Location.--Lat 40°15'40", long 81°36'35", at highway bridge three-quarters of a mile south of Newcomerstown, Tuscarawas County, 2 miles upstream from Buckhorn Creek, and 4 miles downstream from Dunlap Creek.

Drainage area.--2,436 sq mi. At site used prior to Feb. 14, 1939, 2,432 sq mi.

Gage.--Nonrecording prior to Sept. 28, 1925; recording, Sept. 28, 1925, to July 17, 1935; nonrecording, July 18, 1935, to Feb. 13, 1939; and recording thereafter. Prior to Oct. 1, 1934, at site 1½ miles upstream at datum 5.03 ft higher and Oct. 1, 1934, to Feb. 13, 1939, at datum 0.03 ft higher. Datum of gage is 780.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 44,200 cfs.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by eight flood-control reservoirs, since 1936 (combined capacity, 692,000 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	21.5	a83,000	1942	Mar. 16, 1942	10.10	13,800
				1943	Dec. 31, 1942	10.48	15,000
1922	Apr. 17, 1922	11.2	18,000	1944	Mar. 9, 1944	9.88	13,500
1923	May 14, 1923	11.8	19,400	1945	Mar. 22, 1945	11.02	16,900
1924	Mar. 31, 1924	10.6	16,700				
1925	Feb. 25, 1925	8.1	11,500	1946	Mar. 2, 1946	9.52	13,000
				1947	June 7, 1947	9.85	13,200
1926	Sept.26, 1926	10.5	17,000	1948	Apr. 15, 1948	10.58	15,800
1927	Mar. 23, 1927	13.1	22,800	1949	Jan. 28, 1949	9.67	13,500
1928	Dec. 16, 1927	12.9	22,300	1950	Feb. 16, 1950	10.40	14,200
1929	Feb. 28, 1929	13.5	32,400				
1930	Jan. 16, 1930	11.4	23,200	1951	Dec. 5, 1950	10.40	14,200
				1952	Jan. 27, 1952	11.73	18,100
1931	Apr. 6, 1931	6.43	10,200	1953	May 25, 1953	7.22	7,760
1932	Jan. 20, 1932	9.12	16,800	1954	Mar. 31, 1954	7.56	8,710
1933	Mar. 17, 1933	13.55	32,900	1955	Mar. 4, 1955	8.79	11,000
1934	Apr. 6, 1934	8.33	14,800				
1935	Aug. 9, 1935	21.25	41,700	1956	Mar. 8, 1956	9.48	14,500
				1957	Apr. 5, 1957	9.24	11,800
1936	Feb. 28, 1936	17.42	27,300	1958	May 5, 1958	8.77	11,000
1937	Jan. 26, 1937	20.65	46,800	1959	Jan. 22, 1959	10.05	13,700
1938	Mar. 18, 1938	15.20	19,400	1960	Mar. 30, 1960	8.80	11,200
1939	Mar. 15, 1939	12.47	22,000				
1940	Mar. 6, 1940	12.52	22,100	1961	Apr. 20, 1961	9.75	13,200
1941	Dec. 31, 1940	9.72	12,800				

a Computed by Corps of Engineers.

1290.12. White Eyes Creek tributary (Coshocton Experiment Station 192, ARS) near Coshocton, Ohio

Location.--Lat 40°21'41", long 81°47'52", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.0119 sq mi (7.59 acres). Length of principal drainage, 720 ft (0.136 mile). Average slope of land surface, 15.8 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	June 18, 1940	-	12.9	1950	Sept. 1, 1950	-	17.9
1941	July 7, 1941	-	4.90	1951	Mar. 30, 1951	-	.647
1942	June 20, 1942	-	15.3	1952	Jan. 26, 1952	-	1.41
1943	May 31, 1943	-	4.90	1953	Jan. 17, 1953	-	.196
1944	Apr. 7, 1944	-	.85	1954	Aug. 5, 1954	-	.155
1945	Sept.23, 1945	-	6.04	1955	Mar. 4, 1955	-	1.38
1946	June 16, 1946	-	35.2	1956	July 27, 1956	-	4.05
1947	Aug. 16, 1947	-	4.43	1957	June 12, 1957	-	16.0
1948	Apr. 14, 1948	-	1.14	1958	July 22, 1958	-	4.59
1949	Mar. 31, 1949	-	.701				

1290.14. White Eyes Creek tributary (Coshocton Experiment Station 196, ARS) near Coshocton, Ohio

Location.--Lat 40°21'36", long 81°46'04", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.473 sq mi (303 acres). Length of main stream, 0.53 mile; average slope main stream, 116 ft per mile; average slope main stream and upper reach, 130 ft per mile; slope at gage, 90 ft per mile; length divided by average width of basin, 0.594. Average slope of land surface, 14 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	July 16, 1937	-	96.8	1948	Apr. 14, 1948	-	63.8
1938	Aug. 4, 1938	-	154	1949	July 21, 1949	-	116
1939	July 8, 1939	-	174	1950	Sept. 1, 1950	-	541
1940	June 28, 1940	-	136				
				1951	June 22, 1951	-	45.3
1941	Aug. 15, 1941	-	162	1952	Jan. 26, 1952	-	98.4
1942	Mar. 16, 1942	-	69.0	1953	Jan. 17, 1953	-	19.6
1943	May 31, 1943	-	72.0	1954	Mar. 29, 1954	-	6.56
1944	Aug. 23, 1944	-	46.2	1955	Mar. 4, 1955	-	61.2
1945	Sept.23, 1945	-	325				
				1956	Feb. 25, 1956	-	170
1946	June 16, 1946	-	580	1957	June 12, 1957	-	1,136
1947	Aug. 16, 1947	-	179	1958	July 22, 1958	-	96.8

1290.16. White Eyes Creek tributary (Coshocton Experiment Station 183, ARS) near Coshocton, Ohio

Location.--Lat 40°21'29", long 81°46'53", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.116 sq mi (74.2 acres). Length of principal drainage, 3,200 ft (0.61 mile). Average slope of land surface, 14.8 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Aug. 4, 1938	-	46.4	1948	Apr. 14, 1948	-	15.2
1939	July 8, 1939	-	37.8	1949	July 21, 1949	-	36.2
1940	June 18, 1940	-	45.8	1950	Sept. 1, 1950	-	132
1941	May 22, 1941	-	47.0	1951	June 22, 1951	-	6.76
1942	June 20, 1942	-	11.2	1952	Jan. 26, 1952	-	21.5
1943	Mar. 19, 1943	-	16.4	1953	May 22, 1953	-	6.20
1944	Aug. 23, 1944	-	25.6	1954	Mar. 29, 1954	-	1.13
1945	Sept.23, 1945	-	105	1955	Mar. 4, 1955	-	16.8
1946	June 16, 1946	-	193	1957	June 12, 1957	-	187
1947	Aug. 16, 1947	-	29.0	1958	July 22, 1958	-	11.5

1293. Whetstone Creek tributary near Olivesburg, Ohio

Location.--Lat 40°53'10", long 82°24'25", at culvert on State Highway 96, 1.1 miles east of Olivesburg, 5 miles west of Ashland, Ashland County, and 1.9 miles upstream from mouth.

Drainage area.--0.236 sq mi (151 acres). Length of main stream, 0.55 mile; average slope main stream, 65 ft per mile; average slope main stream and upper reach, 45 ft per mile; slope at gage, 53 ft per mile; length divided by average width of basin, 1.28.

Gage.--Recording prior to Oct. 11, 1960; crest-stage gage thereafter. Altitude of gage is 1,180 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9 cfs and indirect measurements at 68 and 155 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 15, 1950	5.40	68	1956	July 26, 1956	5.71	155
				1957	May 20, 1957	5.09	43
1951	Dec. 2, 1950	5.03	39	1958	July 31, 1958	5.21	53
1952	Jan. 15, 1952	5.14	48	1959	Jan. 21, 1959	5.53	79
1953	May 22, 1953	5.25	57	1960	Jan. 12, 1960	4.62	15
1954	Apr. 27, 1954	5.39	68				
1955	Mar. 4, 1955	5.48	76	1961	-	a5.39	a67

a Estimated.

1300. Black Fork below Charles Mill Dam, near Mifflin, Ohio

Location.--Lat 40°44'07", long 82°21'48", 800 ft downstream from Charles Mill Dam, 0.45 mile downstream from Seymour Run, 2½ miles south of Mifflin, Ashland County, and 4 miles upstream from Rocky Fork.

Drainage area.--218 sq mi.

Gage.--Recording. At site 200 ft downstream at same datum Dec. 3, 1941, to Dec. 5, 1944. Datum of gage is 981.56 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Charles Mill Reservoir since 1936 (88,000 acre-ft, 216 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	-	a11,700	1950	Feb. 17, 1950	8.16	1,680
1939	Mar. 14, 1939	8.45	2,100	1951	Feb. 21, 1951	7.39	1,170
1940	Mar. 3, 1940	6.24	785	1952	Jan. 20, 1952	7.90	1,480
				1953	May 24, 1953	6.15	690
1941	Jan. 2, 1941	6.10	740	1954	Apr. 30, 1954	6.26	720
1942	Feb. 20, 1942	6.70	940	1955	Mar. 9, 1955	7.50	1,220
1943	July 11, 1943	7.06	1,110				
1944	Apr. 14, 1944	6.25	750	1956	Mar. 21, 1956	7.36	1,140
1945	Feb. 25, 1945	7.40	1,160	1957	Apr. 13, 1957	7.42	1,120
				1958	Dec. 21, 1957	6.91	905
1946	June 13, 1946	7.10	1,030	1959	Feb. 12, 1959	7.54	1,230
1947	Apr. 5, 1947	7.98	1,560	1960	Apr. 10, 1960	7.29	1,100
1948	Apr. 17, 1948	8.07	1,600				
1949	Jan. 31, 1949	7.97	1,520	1961	Mar. 3, 1961	7.05	1,580

a Computed by Corps of Engineers; maximum known.

1305. Touby Run at Mansfield, Ohio

Location.--Lat 40°45'55", long 82°32'35", at drop structure 100 ft downstream from bridge on West Fourth Street at west edge of Mansfield, Richland County, and 2 miles upstream from mouth.

Drainage area.--5.17 sq mi. Length of main stream, 4.07 miles; average slope main stream, 44 ft per mile; average slope main stream and tributaries, 49 ft per mile; slope at gage, 7 ft per mile; length divided by average width of basin, 3.20.

Gage.--Recording. Datum of gage is 1,216.42 ft above mean sea level, adjustment of 1912 (levels by city of Mansfield).

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs and extended on basis of indirect measurements at 450, 895, and 965 cfs.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 30, 1947	2.47	439	1950	Jan. 15, 1950	3.46	800
	Apr. 1, 1947	2.11	273		Feb. 13, 1950	2.02	243
	June 6, 1947	4.17	965		Apr. 4, 1950	1.95	221
	June 29, 1947	2.21	310		Sept.21, 1950	2.42	411
1948	Feb. 13, 1948	-	a250	1951	Nov. 20, 1950	2.30	349
	Mar. 23, 1948	2.60	505		Dec. 2, 1950	1.95	221
	Apr. 11, 1948	2.36	380		Dec. 7, 1950	1.98	230
	June 12, 1948	1.95	222		Jan. 3, 1951	2.29	345
1949	Jan. 27, 1949	1.91	211	1952	Jan. 17, 1952	2.59	500
	Feb. 15, 1949	1.96	225		Jan. 26, 1952	2.60	505
	Mar. 26, 1949	2.02	243		Mar. 11, 1952	2.35	374
1950	Jan. 3, 1950	1.92	212	1953	May 22, 1953	1.77	172
	Jan. 10, 1950	2.04	249				

a Estimated.

Peak stages and discharges of Touby Run at Mansfield, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 22, 1954	1.77	172	1957	Sept.20, 1957	2.45	417
1955	Mar. 1, 1955	2.36	380	1958	Feb. 24, 1958	-	a300
	Mar. 4, 1955	2.28	340		July 14, 1958	1.89	203
	Mar. 11, 1955	2.02	243		July 31, 1958	2.40	400
	Mar. 22, 1955	2.00	236				
	July 18, 1955	2.32	359	1959	Jan. 21, 1959	3.94	910
					Feb. 10, 1959	2.68	537
1956	Nov. 16, 1955	2.75	565		May 28, 1959	2.35	374
	Feb. 25, 1956	2.28	340				
	May 10, 1956	1.93	215	1960	June 22, 1960	1.78	172
	May 31, 1956	1.99	233				
	June 21, 1956	2.12	276	1961	Feb. 25, 1961	2.38	407
					Apr. 21, 1961	1.91	238
1957	May 11, 1957	1.95	221				

a Estimated.

1310. Rocky Fork near Mansfield, Ohio

Location.--Lat 40°45'00", long 82°29'05", at highway bridge on Lower Lucas Road, 2 miles southeast of Mansfield, Richland County.

Drainage area.--38.3 sq mi.

Gage.--Nonrecording. Datum of gage is 1,120.88 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 1,210 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Feb. 25, 1926	10.6	1,870	1930	Jan. 7, 1930	10.1	1,740
1927	Mar. 20, 1927	12.2	2,280				
1928	Nov. 30, 1927	12.2	2,280	1931	Aug. 10, 1931	8.4	1,320
1929	Feb. 26, 1929	12.9	2,470	1932	Jan. 17, 1932	8.6	1,360

1315. Black Fork at Loudonville, Ohio

Location.--Lat 40°38'08", long 82°14'19", at bridge on State Highway 3 at Loudonville, Ashland County, 1½ miles downstream from Big Run.

Drainage area.--342 sq mi.

Gage.--Nonrecording prior to Oct. 23, 1941; recording thereafter. Datum of gage is 928.46 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by Charles Mill Reservoir since August 1936 (88,000 acre-ft, 216 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a20.5	-	1939	Mar. 13, 1939	11.10	4,430
				1940	Mar. 3, 1940	10.05	3,300
1932	Jan. 18, 1932	8.30	2,210				
1933	Mar. 21, 1933	9.96	3,500	1941	Dec. 29, 1940	6.50	1,190
1934	Mar. 3, 1934	7.56	1,750	1942	Apr. 10, 1942	8.66	2,310
1935	Aug. 7, 1935	12.29	5,860	1943	Mar. 20, 1943	9.33	2,660
				1944	Apr. 12, 1944	9.00	2,450
1936	Feb. 27, 1936	9.64	3,080	1945	Mar. 7, 1945	9.42	2,650
1937	Jan. 25, 1937	11.83	5,260				
1938	Apr. 9, 1938	9.62	2,960	1946	June 14, 1946	10.56	3,750

a Maximum stage known.

Peak stages and discharges of Black Fork at Loudonville, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 7, 1947	10.73	3,990	1955	Mar. 22, 1955	9.57	2,440
1948	Feb. 14, 1948	10.25	3,480				
1949	Jan. 28, 1949	8.90	2,440	1956	Feb. 26, 1956	9.64	2,960
1950	Jan. 16, 1950	10.68	3,990	1957	May 20, 1957	10.33	3,230
				1958	Aug. 1, 1958	9.00	2,200
1951	Dec. 8, 1950	9.15	2,650	1959	Jan. 22, 1959	13.65	7,780
1952	Jan. 27, 1952	10.41	3,680	1960	Mar. 28, 1960	8.5	1,900
1953	May 23, 1953	6.91	1,320				
1954	Apr. 28, 1954	8.34	1,670	1961	Mar. 5, 1961	9.81	2,890

1320. Clear Fork at Butler, Ohio

Location.--Lat 40°35'35", long 82°25'20", at bridge on State Highway 95, 0.3 mile northeast of Butler, Richland County.

Drainage area.--143 sq mi.

Gage.--Recording. Datum of gage is 1,057.2 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,560 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,400 cfs. Flow partly regulated by Clear Fork Reservoir (capacity, 10,740 acre-ft) 12 miles above station since June 1953.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 18, 1945	4.76	a1,440	1953	May 22, 1953	6.97	2,370
1946	Feb. 13, 1946	-	2,140	1954	Mar. 30, 1954	6.02	1,670
	Feb. 27, 1946	-	1,440				
	May 27, 1946	-	2,080	1955	Feb. 21, 1955	5.81	1,550
	June 17, 1946	5.89	2,950		Feb. 27, 1955	5.92	1,610
					Mar. 1, 1955	6.39	1,920
1947	Jan. 30, 1947	-	5,340		Mar. 4, 1955	7.68	3,580
	Mar. 25, 1947	-	1,880		Mar. 22, 1955	7.27	2,720
	Apr. 2, 1947	-	2,640				
	May 25, 1947	-	2,720	1956	Nov. 16, 1955	7.47	3,020
	June 2, 1947	-	5,220		Feb. 25, 1956	8.16	5,200
	June 7, 1947	7.90	6,720		Mar. 8, 1956	6.85	2,270
					May 27, 1956	6.18	1,740
1948	Feb. 14, 1948	-	-		May 30, 1956	5.96	1,570
	Mar. 24, 1948	-	6,910		June 25, 1956	7.04	2,480
	Mar. 27, 1948	-	1,460		July 28, 1956	7.35	2,860
	Apr. 12, 1948	8.01	7,100				
				1957	Jan. 22, 1957	6.36	1,840
1949	Dec. 16, 1948	-	2,160		Apr. 4, 1957	7.36	2,860
	Jan. 28, 1949	-	2,110		May 20, 1957	7.36	2,860
	Feb. 15, 1949	6.54	2,520		May 22, 1957	5.74	1,450
	Mar. 27, 1949	-	1,400		June 28, 1957	6.93	2,370
1950	Jan. 4, 1950	-	2,520	1958	Dec. 7, 1957	6.53	2,000
	Jan. 6, 1950	-	3,400		Dec. 20, 1957	5.70	1,420
	Jan. 10, 1950	-	5,160		Dec. 26, 1957	6.11	1,660
	Jan. 16, 1950	7.98	7,100		Apr. 29, 1958	6.65	2,080
	Feb. 9, 1950	-	1,490		May 4, 1958	6.43	1,920
	Feb. 14, 1950	-	4,350		Aug. 8, 1958	7.07	2,480
	Feb. 22, 1950	-	1,400		Aug. 24, 1958	5.76	1,450
	Apr. 4, 1950	-	2,220				
	May 26, 1950	-	1,400	1959	Jan. 21, 1959	9.43	14,300
					Feb. 10, 1959	7.74	3,710
1951	Nov. 20, 1950	5.66	1,480		Feb. 14, 1959	6.46	1,930
	Dec.7-8, 1950	6.90	2,320		Apr. 28, 1959	6.24	1,760
	Jan. 4, 1951	7.22	2,650		June 25, 1959	5.98	1,590
	Feb. 13, 1951	6.17	1,760				
	Feb. 21, 1951	5.77	1,520	1960	Feb. 10, 1960	6.28	1,800
					Mar. 28, 1960	6.17	1,720
1952	Dec. 25, 1951	5.50	1,400				
	Dec. 30, 1951	5.81	1,550	1961	Feb. 26, 1961	6.63	2,350
	Jan. 18, 1952	6.70	2,150		Mar. 4, 1961	5.94	1,830
	Jan. 26, 1952	7.98	4,600		Apr. 22, 1961	5.39	1,500
	Feb. 4, 1952	5.92	1,610		Apr. 26, 1961	5.28	1,440
	Mar. 11, 1952	7.05	2,480				

a Peak for period June 7 to Sept. 30.

1335. Clear Fork below Pleasant Hill Dam, near Perrysville, Ohio

Location.--Lat 40°37'10", long 82°19'25", a quarter of a mile downstream from Pleasant Hill Dam, 2¾ miles south of Perrysville, Ashland County, and 4 miles upstream from Pine Run.

Drainage area.--199 sq mi. At site used prior to May 1947, 200 sq mi.

Gage.--Recording. At site half a mile downstream at datum 4.88 ft lower prior to May 1, 1947. Datum of gage is 967.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Pleasant Hill Reservoir (87,700 acre-ft, 199 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 13, 1939	4.68	2,210	1951	Feb. 22, 1951	3.59	1,230
1940	Mar. 4, 1940	4.38	1,980	1952	Jan. 27, 1952	4.23	1,720
				1953	May 25, 1953	2.79	689
1941	Feb. 14, 1941	3.91	1,520	1954	Mar. 31, 1954	2.44	523
1942	Apr. 10, 1942	4.46	2,060	1955	Mar. 5, 1955	-	a1,350
1943	Mar. 20, 1943	4.42	2,030				
1944	Apr. 11, 1944	4.41	2,010	1956	Mar. 9, 1956	3.78	1,370
1945	May 19, 1945	3.83	1,500	1957	Apr. 6, 1957	3.70	1,300
				1958	Dec. 9, 1957	3.55	1,200
1946	June 19, 1946	3.94	1,580	1959	Jan. 23, 1959	4.98	2,340
1947	June 8, 1947	4.23	1,720	1960	Feb. 11, 1960	3.48	1,120
1948	Feb. 14, 1948	4.20	1,680				
1949	Dec. 16, 1948	3.56	1,200	1961	Mar. 16, 1961	3.51	1,140
1950	Jan. 10, 1950	3.77	1,340				

a Computed flow through orifices.

1340. Jerome Fork at Jeromeville, Ohio

Location.--Lat 40°48'07", long 82°12'01", at highway bridge at Jeromeville, Ashland County, 1 mile upstream from Oldtown Run.

Drainage area.--120 sq mi. Channel slope, principal stream, 7.1 ft per mile; channel slope, tributary, 54 ft per mile; length of longest watercourse, 20.9 miles; mean elevation of land surface, 1,072 ft above mean sea level; average slope of land surface, 191 ft per mile.

Gage.--Nonrecording. Datum of gage is 949.14 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,780 cfs and by contracted-opening measurement of peak flow at 13,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	15.1	-	1938	Apr. 9, 1938	9.30	2,300
				1939	Mar. 12, 1939	11.00	3,420
1926	Feb. 26, 1926	9.5	2,490	1940	Mar. 4, 1940	9.61	2,480
1927	Mar. 21, 1927	10.7	3,210				
1928	Dec. 14, 1927	11.0	3,420	1941	Dec. 29, 1940	7.60	1,500
1929	Feb. 26, 1929	11.3	3,640	1942	Apr. 10, 1942	8.58	1,860
1930	Jan. 9, 1930	10.0	2,660	1943	Mar. 17, 1943	10.00	2,720
				1944	Apr. 12, 1944	9.49	2,350
1931	Apr. 22, 1931	5.30	980	1945	May 18, 1945	9.06	2,070
1932	Jan. 30, 1932	6.10	1,140				
1933	Mar. 14, 1933	10.86	3,350	1946	June 17, 1946	9.60	2,420
1934	Apr. 5, 1934	7.05	1,330	1947	June 8, 1947	10.75	3,100
1935	Aug. 7, 1935	11.16	3,570	1948	Feb. 14, 1948	10.78	3,100
				1949	Jan. 28, 1949	8.80	1,880
1936	Feb. 27, 1936	10.6	3,140				
1937	Jan. 15, 1937	11.40	3,720	1959	Jan. 22, 1959	13.9	13,000

1350. Lake Fork below Mohicanville Dam, near Mohicanville, Ohio

Location.--Lat 40°43'20", long 82°09'20", 800 ft downstream from Mohicanville Dam, 2 miles east of Mohicanville, Ashland County, 2.4 miles downstream from confluence of Jerome and Muddy Forks and 7½ miles northeast of Loudonville.

Drainage area.--269 sq mi.

Gage.--Recording. At site 500 ft downstream at same datum prior to July 25, 1949. Datum of gage is 930.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,050 cfs.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by Mohicanville Reservoir (102,000 acre-ft, 269 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 13, 1939	9.34	3,920	1951	Feb. 13, 1951	8.44	2,280
1940	Feb. 13, 1940	6.72	1,880	1952	Jan. 19, 1952	8.33	2,090
				1953	May 25, 1953	7.33	1,420
1941	Dec. 29, 1940	6.50	1,630	1954	May 2, 1954	7.24	1,350
1942	Feb. 7, 1942	6.42	1,440	1955	Mar. 16, 1955	8.26	1,780
1943	Dec. 27, 1942	7.22	1,990				
1944	Apr. 24, 1944	6.55	1,600	1956	Feb. 25, 1956	8.25	1,550
1945	Mar. 11, 1945	7.41	2,300	1957	Apr. 4, 1957	7.87	1,360
				1958	May 8, 1958	7.66	1,300
1946	June 16, 1946	7.80	2,530	1959	Feb. 10, 1959	a9.86	1,800
1947	Jan. 31, 1947	8.20	2,750	1960	Mar. 29, 1960	8.27	1,650
1948	Feb. 18, 1948	8.25	2,470				
1949	Jan. 29, 1949	7.31	1,610	1961	Mar. 7, 1961	8.42	1,480
1950	Feb. 19, 1950	8.33	2,200				

a Occurred Jan. 21, 1959; backwater from tributary.

1355. Lake Fork near Loudonville, Ohio

Location.--Lat 40°37'11", long 82°11'10", at highway bridge 2 miles upstream from mouth and 3 miles southeast of Loudonville, Ashland County.

Drainage area.--342 sq mi.

Gage.--Nonrecording. Datum of gage is 902.53 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 5,360 cfs.

Remarks.--Flow regulated by Mohicanville Reservoir (102,000 acre-ft, 269 sq mi) since 1938. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	26	-	1936	Feb. 27, 1936	11.15	4,470
				1937	Jan. 25, 1937	11.40	4,500
1932	Jan. 18, 1932	8.80	3,000	1938	Apr. 10, 1938	9.80	3,610
				1939	Mar. 13, 1939	10.62	4,250
1935	Aug. 7, 1935	14.00	6,030				

1360. Mohican River at Greer, Ohio

Location.--Lat 40°30'55", long 82°11'48", 3,000 ft downstream from bridge on State Highway 514 at Greer, Knox County, 5 miles upstream from Nigger Run, and 7 miles downstream from Lake Fork.

Drainage area.--942 sq mi.

Gage.--Nonrecording prior to July 22, 1931; recording thereafter. At site 3,000 ft upstream at same datum prior to July 22, 1931. Datum of gage is 872.91 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 12,400 cfs.

Bankfull stage.--9 ft.

Remarks.--Flow regulated by three reservoirs since August 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a27.0	b55,000	1942	Apr. 10, 1942	6.62	6,340
				1943	Dec. 30, 1942	7.57	7,840
1922	Apr. 15, 1922	8.4	9,320	1944	Apr. 12, 1944	7.00	6,940
1923	May 12, 1923	8.1	8,750	1945	Mar. 21, 1945	6.72	6,490
1924	Jan. 11, 1924	8.75	9,020				
1925	Feb. 26, 1925	6.4	5,720	1946	June 17, 1946	6.35	5,900
				1947	June 8, 1947	7.72	7,920
1926	Feb. 26, 1926	9.5	10,100	1948	Apr. 12, 1948	8.83	9,680
1927	Mar. 21, 1927	12.7	15,400	1949	Jan. 28, 1949	6.19	5,620
1928	Dec. 1, 1927	11.8	13,900	1950	Feb. 14, 1950	7.66	7,920
1929	Feb. 26, 1929	12.2	14,500				
1930	Jan. 13, 1930	10.9	12,400	1951	Feb. 21, 1951	6.28	5,900
				1952	Jan. 27, 1952	8.79	9,540
1931	Apr. 26, 1931	5.50	3,740	1953	May 22, 1953	5.08	4,260
1932	Jan. 18, 1932	7.57	9,120	1954	Apr. 17, 1954	5.03	3,730
1933	Mar. 15, 1933	10.3	13,500	1955	Mar. 4, 1955	6.27	5,490
1934	Mar. 4, 1934	c10.70	5,840				
1935	Aug. 7, 1935	13.63	17,700	1956	Feb. 25, 1956	7.22	6,860
				1957	Apr. 4, 1957	6.51	5,970
1936	Feb. 27, 1936	d12.69	13,300	1958	Dec. 21, 1957	5.46	4,620
1937	Jan. 25, 1937	12.30	16,100	1959	Jan. 22, 1959	12.39	15,700
1938	Apr. 9, 1938	7.92	8,290	1960	Feb. 11, 1960	6.00	5,620
1939	Mar. 13, 1939	9.29	10,500				
1940	Mar. 4, 1940	8.48	9,200	1961	Mar. 5, 1961	5.91	5,580
1941	Dec. 30, 1940	5.08	4,270				

a Maximum stage known. b Estimated. c Occurred Mar. 3, 1934; backwater from ice. d Occurred Feb. 25, 1936; backwater from ice.

1365. Kokosing River at Mount Vernon, Ohio

Location.--Lat 40°24'25", long 82°30'00", at Tilden Avenue Bridge at Mount Vernon, Knox County, 0.8 mile downstream from North Branch and 2.7 miles upstream from Dry Run.

Drainage area.--200 sq mi.

Gage.--Nonrecording prior to Apr. 3, 1953; recording thereafter. Datum of gage is 984.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,350 cfs and extended on basis of slope-area measurement of peak flow at about 38,000 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953a/	Mar. 4, 1953	6.5	2,070	1958	May 4, 1958	8.67	3,670
1954	Mar. 30, 1954	7.03	2,370	1959	Jan. 21, 1959	18.19	38,000
1955	Mar. 4, 1955	9.91	4,580	1960	Feb. 10, 1960	8.50	3,510
1956	Feb. 25, 1956	12.34	7,030	1961	Mar. 4, 1961	8.23	3,290
1957	May 20, 1957	11.91	6,600				

a Period Feb. 27 to Sept. 30.

1370. Kokosing River at Millwood, Ohio

Location.--Lat 40°23'55", long 82°17'10", 0.4 mile west of Millwood, Knox County, 1½ miles upstream from Honey Run, 2 miles downstream from Jelloway Creek, and 3½ miles upstream from Brush Run.

Drainage area.--454 sq mi. At site used 1921-38, 472 sq mi. Channel slope, principal stream, 7.45 ft per mile; channel slope, tributary, 34.3 ft per mile; longest watercourse, 50.8 miles; mean elevation of land, 1,101 ft above mean sea level; average land slope, 345 ft per mile.

Gage.--Nonrecording prior to July 10, 1931; recording thereafter. At site 3¾ miles downstream prior to July 10, 1931, and July 10, 1931, to July 31, 1939, at site 3½ miles downstream at datum 841.06 ft above mean sea level. Datum of present gage is 865.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 14,800 cfs and extended on basis of slope-area measurement at 75,900 cfs. Defined by current-meter measurements below 12,200 cfs prior to October 1938.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	22.0	a40,000	1942	Apr. 10, 1942	11.07	5,740
				1943	Mar. 20, 1943	16.22	14,900
1922	Nov. 17, 1921	8.2	7,850	1944	Apr. 11, 1944	13.75	10,000
1923	May 13, 1923	9.9	11,600	1945	Mar. 7, 1945	16.88	16,500
1924	June 9, 1924	8.9	9,330				
1925	Feb. 23, 1925	6.5	4,760	1946	Feb. 27, 1946	13.77	10,000
				1947	June 3, 1947	16.60	15,600
1926	Sept.24, 1926	8.6	8,690	1948	Feb. 14, 1948	18.06	18,500
1927	Mar. 20, 1927	12.0	16,500	1949	Jan. 28, 1949	12.10	7,870
1928	Dec. 1, 1927	12.6	8,000	1950	Jan. 6, 1950	13.12	9,760
1929	Jan. 19, 1929	10.1	12,000				
1930	Feb. 26, 1930	9.80	11,300	1951	Dec. 7, 1950	14.30	11,700
				1952	Jan. 27, 1952	18.94	20,200
1931	Apr. 26, 1931	4.90	2,540	1953	Jan. 18, 1953	8.89	3,530
1932	Jan. 18, 1932	12.52	9,530	1954	Mar. 30, 1954	9.80	4,370
1933	May 14, 1933	14.82	16,300	1955	Mar. 4, 1955	13.30	8,370
1934	Mar. 3, 1934	b10.1	3,300				
1935	July 4, 1935	17.95	27,100	1956	Feb. 25, 1956	15.12	11,800
				1957	Apr. 4, 1957	14.65	10,800
1936	Feb. 27, 1936	c13.51	9,180	1958	May 4, 1958	12.37	6,890
1937	June 22, 1937	18.10	27,500	1959	Jan. 21, 1959	34.00	75,900
1938	Apr. 8, 1938	11.19	7,940	1960	Feb. 11, 1960	13.26	8,300
1939	Mar. 12, 1939	14.41	11,200				
1940	Apr. 20, 1940	15.03	12,500	1961	Apr. 26, 1961	14.78	11,200
1941	Dec. 29, 1940	9.34	3,570				

a Estimated.
b Backwater from ice.
c Occurred Feb. 25, 1936; backwater from ice.

1385. Walhonding River below Mohawk Dam, at Nellie, Ohio

Location.--Lat 40°20'26", long 82°03'49", at bridge on State Highway 79, at Nellie, Coshocton County, half a mile upstream from Mohawk Creek and 1¾ miles downstream from Mohawk Dam.

Drainage area.--1,502 sq mi. At site used 1921-37, 1,488 sq mi.

Gage.--Nonrecording prior to Nov. 7, 1925; recording, Nov. 7, 1925, to Sept. 30, 1937; nonrecording, Oct. 1, 1937, to Sept. 30, 1938; recording thereafter. At site 3¾ miles upstream at datum 15.53 ft higher prior to Sept. 30, 1937. At present site at datum 2.09 ft higher Oct. 1, 1937, to Sept. 30, 1938. Datum of gage is 790.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 12,100 cfs at present site, and below 20,300 cfs at previous site.

Bankfull stage.--15 ft.

Remarks.--Flow regulated since August 1936 by four reservoirs (combined capacity, 562,700 acre-ft). Only annual peaks are shown.

Peak stages and discharges of Walhonding River below Mohawk Dam, at Nellie, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a26.9	102,000	1942	Apr. 11, 1942	14.39	13,000
				1943	Jan. 5, 1943	14.02	12,200
1922	Apr. 15, 1922	11.6	19,400	1944	Mar. 7, 1944	12.47	9,230
1923	May 13, 1923	12.2	20,900	1945	Mar. 20, 1945	14.23	12,600
1924	Jan. 11, 1924	12.5	21,700				
1925	Feb. 24, 1925	7.2	8,530	1946	Feb. 27, 1946	13.74	11,600
				1947	Jan. 31, 1947	14.19	12,600
1926	Feb. 26, 1926	11.4	17,200	1948	Apr. 12, 1948	e13.27	10,400
1927	Mar. 22, 1927	13.8	22,900	1949	Feb. 2, 1949	12.27	8,850
1928	Dec. 1, 1927	14.0	23,400	1950	Feb. 14, 1950	13.20	10,600
1929	Feb. 26, 1929	15.5	27,400				
1930	Jan. 9, 1930	b13.7	b23,200	1951	Feb. 13, 1951	12.33	8,850
				1952	Feb. 13, 1952	13.07	10,400
1931	Apr. 23, 1931	6.71	7,260	1953	Jan. 18, 1953	10.42	5,580
1932	Jan. 18, 1932	11.43	17,100	1954	Mar. 31, 1954	10.68	6,060
1933	May 14, 1933	13.25	22,000	1955	Mar. 29, 1955	11.88	8,110
1934	Mar. 4, 1934	c9.96	8,470				
1935	Aug. 7, 1935	15.97	27,100	1956	Mar. 17, 1956	11.88	8,110
				1957	Jan. 23, 1957	11.39	7,220
1936	Feb. 27, 1936	13.56	21,100	1958	Dec. 8, 1957	11.00	6,650
1937	Jan. 25, 1937	d18.8	43,800	1959	Feb. 6, 1959	12.78	9,760
1938	Apr. 9, 1938	12.64	13,600	1960	Feb. 12, 1960	11.80	7,960
1939	Mar. 14, 1939	15.66	15,800				
1940	Mar. 9, 1940	15.53	15,400	1961	Mar. 15, 1961	12.16	8,600
1941	Dec. 30, 1940	11.53	7,550				

a Present site and datum, from information by Corps of Engineers. b Estimated.
c Occurred Mar. 3, 1934; backwater from ice. d Present site and datum. e Occurred Feb. 14, 1948; backwater from ice.

1390. Killbuck Creek at Killbuck, Ohio

Location.--Lat 40°29'43", long 81°59'10", at bridge on U.S. Highway 62 at Killbuck, Holmes County, an eighth of a mile downstream from Black Creek.

Drainage area.--466 sq mi. Channel slope, principal stream, 3.01 ft per mile; channel slope, tributary, 39.5 ft per mile; longest watercourse, 56.8 miles; mean elevation of land, 999 ft above mean sea level; average land slope, 417 ft per mile.

Gage.--Nonrecording prior to Oct. 1, 1949; recording thereafter. Datum of gage is 788.05 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 7,450 cfs and extended on basis of slope-area measurement at 28,400 cfs.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 2,000 cfs. Only annual peak are shown prior to 1950.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Apr. 23, 1931	11.16	1,520	1950	Jan. 11, 1950	15.92	4,520
1932	Jan. 18, 1932	14.30	3,420		Jan. 16, 1950	15.31	3,480
1933	May 14, 1933	14.64	3,650		Jan. 25, 1950	14.64	2,440
1934	Mar. 4, 1934	13.34	2,680		Feb. 15, 1950	15.94	4,520
1935	Aug. 7, 1935	21.77	28,800		May 26, 1950	14.51	2,310
1936	Feb. 27, 1936	14.84	3,200	1951	Dec. 8, 1950	14.93	2,860
1937	Jan. 25, 1937	17.20	7,300		Jan. 4, 1951	15.57	3,980
1938	Aug. 5, 1938	15.40	4,690		Jan. 15, 1951	14.48	2,310
1939	Mar. 13, 1939	16.05	4,940		Feb. 13, 1951	15.65	3,980
1940	Mar. 4, 1940	16.2	5,200		Feb. 17, 1951	14.45	2,190
					Feb. 20, 1951	14.42	2,190
1941	Aug. 15, 1941	12.82	1,850		Feb. 22, 1951	15.45	3,640
1942	June 14, 1942	14.85	3,510		Mar. 31, 1951	14.69	2,570
1943	Dec. 30, 1942	15.85	4,680				
1944	Apr. 12, 1944	14.64	2,870	1952	Jan. 3, 1952	14.83	2,510
1945	Mar. 7, 1945	16.2	4,950		Jan. 21, 1952	14.83	2,510
					Jan. 27, 1952	17.18	7,060
1946	June 17, 1946	17.35	7,480		Feb. 4, 1952	15.47	3,460
1947	June 8, 1947	17.21	7,220		Mar. 11, 1952	15.49	3,460
1948	Apr. 12, 1948	16.95	6,800				
1949	Jan. 28, 1949	15.43	3,640	1953	Jan. 18, 1953	13.6	1,660
1950	Jan. 7, 1950	14.97	3,010	1954	Apr. 17, 1954	13.73	1,670

Peak stages and discharges of Killbuck Creek at Killbuck, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 5, 1955	15.84	3,390	1958	Apr. 29, 1958	15.12	2,320
	Mar. 22, 1955	15.46	3,040		May 5, 1958	15.24	2,390
					July 12, 1958	15.92	2,950
1956	Feb. 26, 1956	16.49	4,640		Aug. 4, 1958	14.97	2,250
	Mar. 8, 1956	15.65	3,150				
	May 7, 1956	14.67	2,280	1959	Jan. 22, 1959	21.75	28,400
	May 28, 1956	15.61	3,150		Feb. 11, 1959	16.00	3,040
	June 25, 1956	15.74	3,270		Apr. 29, 1959	15.12	2,330
1957	Apr. 5, 1957	15.89	3,530	1960	Mar. 31, 1960	14.88	1,840
	Apr. 9, 1957	15.81	3,390				
	June 25, 1957	15.45	2,540	1961	Mar. 6, 1961	15.50	2,240
	June 29, 1957	17.09	5,600		Apr. 26, 1961	15.65	2,360

1395. Killbuck Creek at Layland, Ohio

Location.--Lat 40°26'10", long 81°58'00", at highway bridge at Layland, Coshocton County, and 0.3 mile upstream from Big Run.

Drainage area.--507 sq mi.

Gage.--Nonrecording. Altitude of gage is 790 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below, 1,610 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a22.6	-	1927	Jan. 20, 1927	15.5	3,370
				1928	Dec. 1, 1927	15.8	3,360
1924	Jan. 12, 1924	14.42	2,940	1929	Feb. 27, 1929	16.2	3,520
1925	Feb. 24, 1925	13.5	2,590	1930	Jan. 16, 1930	15.8	3,360
1926	Apr. 9, 1926	15.5	3,370				

a Maximum stage known.

1399.3. Little Mill Creek tributary (Coshocton Experiment Station 5, ARS) near Coshocton, Ohio

Location.--Lat 40°24'23", long 81°48'11", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.545 sq mi (349 acres). Length of main stream, 0.92 mile; average slope main stream, 160 ft per mile; average slope of main stream and tributaries, 200 ft per mile; slope at gage, 41 ft per mile; length divided by width of basin, 1.55.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	June 21, 1937	-	237	1950	Sept. 1, 1950	-	75.0
1938	May 20, 1938	-	76.4				
1939	Feb. 15, 1939	-	25.7	1951	Feb. 21, 1951	-	23.7
1940	June 25, 1940	-	53.9	1952	Jan. 26, 1952	-	69.5
				1953	Jan. 17, 1953	-	22.5
1941	June 4, 1941	-	293	1954	July 31, 1954	-	11.8
1942	June 7, 1942	-	76.4	1955	Mar. 4, 1955	-	29.0
1943	Mar. 19, 1943	-	67.0				
1944	Aug. 23, 1944	-	58.4	1956	Feb. 25, 1956	-	68.2
1945	Sept.23, 1945	-	113	1957	June 28, 1957	-	382
				1958	July 14, 1958	-	115
1946	July 21, 1946	-	129	1959	Jan. 21, 1959	-	102
1947	June 6, 1947	-	63.2	1960	Aug. 22, 1960	-	338
1948	Apr. 11, 1948	-	72.2				
1949	Jan. 27, 1949	-	22.5	1961	Apr. 25, 1961	-	96.8

1399.4. Little Mill Creek (Coshocton Experiment Station 92, ARS) near Coshocton, Ohio

Location.--Lat 40°24'08", long 81°47'41", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--1.44 sq mi (920 acres). Length of main stream, 1.64 miles; average slope main stream, 112 ft per mile; average slope of main stream and tributaries, 136 ft per mile; slope at gage, 32 ft per mile; length divided by average width of basin, 1.87.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	June 16, 1937	-	273	1950	May 25, 1950	-	103
1938	May 20, 1938	-	142				
1939	Jan. 30, 1939	-	79.3	1951	Jan. 4, 1951	-	52.6
1940	Apr. 20, 1940	-	139	1952	Jan. 26, 1952	-	174
				1953	Jan. 17, 1953	-	55.4
1941	June 4, 1941	-	464	1954	July 31, 1954	-	23.4
1942	June 7, 1942	-	75.6	1955	Mar. 4, 1955	-	86.9
1943	Mar. 19, 1943	-	181				
1944	Mar. 6, 1944	-	93.4	1956	Feb. 25, 1956	-	220
1945	Sept.23, 1945	-	212	1957	June 28, 1957	-	578
				1958	July 14, 1958	-	166
1946	June 28, 1946	-	458	1959	Feb. 10, 1959	-	317
1947	June 6, 1947	-	147	1960	Aug. 22, 1960	-	502
1948	Apr. 11, 1948	-	212				
1949	Jan. 27, 1949	-	59.7	1961	Apr. 25, 1961	-	436

1399.6. Little Mill Creek (Coshocton Experiment Station 94, ARS) near Coshocton Ohio

Location.--Lat 40°23'32", long 81°48'24", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--2.38 sq mi (1,520 acres). Length of main stream, 2.47 miles; average slope main stream, 68 ft per mile; average slope of main stream and tributaries, 114 ft per mile; slope at gage, 27 ft per mile; length divided by average width of basin, 2.56.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	July 16, 1937	-	372	1950	May 25, 1950	-	224
1938	May 20, 1938	-	201				
1939	Jan. 30, 1939	-	145	1951	Feb. 21, 1951	-	102
1940	Apr. 20, 1940	-	260	1952	Jan. 26, 1952	-	393
				1953	Jan. 17, 1953	-	102
1941	June 4, 1941	-	665	1954	July 31, 1954	-	20.6
1942	June 20, 1942	-	166	1955	Mar. 4, 1955	-	202
1943	Mar. 19, 1943	-	383				
1944	Mar. 6, 1944	-	166	1956	Feb. 25, 1956	-	645
1945	Sept.23, 1945	-	607	1957	June 28, 1957	-	1,404
				1958	July 14, 1958	-	371
1946	July 11, 1946	-	674	1959	Feb. 10, 1959	-	579
1947	June 6, 1947	-	311	1960	Aug. 22, 1960	-	956
1948	Apr. 11, 1948	-	442				
1949	Jan. 27, 1949	-	105	1961	Apr. 25, 1961	-	770

1399.7. Little Mill Creek tributary (Coshocton Experiment Station 10, ARS) near Coshocton, Ohio

Location.--Lat 40°23'33", long 81°48'19", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.191 sq mi (122 acres). Length of main stream, 0.70 mile; average slope main stream, 170 ft per mile; average slope of main stream and upper reach, 220 ft per mile; slope at gage, 270 ft per mile; length divided by average width of basin, 2.56.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Dec. 17, 1937	-	12.3	1951	Feb. 21, 1951	-	6.10
1939	July 8, 1939	-	29.8	1952	Jan. 26, 1952	-	31.9
1940	June 18, 1940	-	45.3	1953	May 7, 1953	-	7.11
				1954	Sept.15, 1954	-	1.75
1941	June 4, 1941	-	69.2	1955	Mar. 4, 1955	-	22.9
1942	June 20, 1942	-	56.0				
1943	Mar. 19, 1943	-	28.2	1956	Feb. 25, 1956	-	52.3
1944	Mar. 6, 1944	-	9.40	1957	June 28, 1957	-	216
1945	Sept.23, 1945	-	212	1958	July 14, 1958	-	29.8
				1959	Feb. 10, 1959	-	42.9
1946	July 21, 1946	-	142	1960	Aug. 21, 1960	-	44.6
1947	June 6, 1947	-	43.8				
1948	Apr. 11, 1948	-	34.9	1961	Apr. 25, 1961	-	108
1949	July 6, 1949	-	7.43				
1950	May 25, 1950	-	18.5				

1399.8. Little Mill Creek (Coshocton Experiment Station 95, ARS) near Coshocton, Ohio

Location.--Lat 40°23'03", long 81°49'04", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--4.02 sq mi (2,570 acres). Length of main stream, 3.37 miles; average slope main stream, 48 ft per mile; average slope of main stream and tributaries, 108 ft per mile; slope at gage, 10 ft per mile; length divided by average width of basin, 2.83.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	July 16, 1937	-	746	1950	Mar. 25, 1950	-	308
1938	Aug. 4, 1938	-	212				
1939	Feb. 15, 1939	-	179	1951	Jan. 4, 1951	-	128
1940	Apr. 20, 1940	-	480	1952	Jan. 26, 1952	-	710
				1953	Jan. 17, 1953	-	130
1941	June 4, 1941	-	881	1954	Mar. 20, 1954	-	29.3
1942	June 4, 1942	-	230	1955	Mar. 4, 1955	-	233
1943	Mar. 19, 1943	-	545				
1944	Mar. 6, 1944	-	217	1956	Feb. 25, 1956	-	770
1945	Sept.23, 1945	-	944	1957	June 28, 1957	-	1,590
				1958	July 14, 1958	-	457
1946	July 11, 1946	-	784	1959	Feb. 10, 1959	-	1,120
1947	June 6, 1947	-	452	1960	Aug. 22, 1960	-	1,065
1948	Apr. 11, 1948	-	637				
1949	Jan. 27, 1949	-	141	1961	Apr. 25, 1961	-	1,180

1399.9. Little Mill Creek (Coshocton Experiment Station 97, ARS) near Coshocton, Ohio

Location.--Lat 40°21'51", long 81°50'20", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--7.16 sq mi (4,580 acres). Length of main stream, 5.17 miles; average slope main stream, 36 ft per mile; average slope of main stream and tributaries, 102 ft per mile; slope at gage, 15 ft per mile; length divided by average width of basin, 3.73.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 7, 1935	-	9,020	1949	Jan. 27, 1949	-	298
				1950	Sept. 1, 1950	-	914
1937	June 21, 1937	-	1,715				
1938	Aug. 4, 1938	-	410	1951	Jan. 4, 1951	-	310
1939	July 8, 1939	-	352	1952	Jan. 26, 1952	-	914
1940	June 28, 1940	-	944	1953	May 7, 1953	-	270
				1954	Apr. 16, 1954	-	57.5
1941	June 4, 1941	-	1,661	1955	Mar. 4, 1955	-	444
1942	June 21, 1942	-	298				
1943	May 30, 1943	-	914	1956	Mar. 25, 1956	-	1,388
1944	Mar. 6, 1944	-	402	1957	June 28, 1957	-	3,345
1945	Sept.23, 1945	-	1,492	1958	July 22, 1958	-	518
				1959	Jan. 21, 1959	-	1,724
1946	July 11, 1946	-	968	1960	Aug. 22, 1960	-	1,256
1947	June 7, 1947	-	488				
1948	Apr. 11, 1948	-	695	1961	Apr. 25, 1961	-	2,533

1400. Mill Creek near Coshocton, Ohio

Location.--Lat 40°21'50", long 81°51'40", half a mile downstream from Little Mill Creek and 6 miles north of Coshocton, Coshocton County.

Drainage area.--27.5 sq mi. Length of main stream, 10.8 miles; average slope main stream, 15 ft per mile; average slope main stream and tributaries, 29.9 ft per mile; slope at gage, 7.0 ft per mile; length divided by average width of basin, 4.24. Mean elevation of land surface, 958 ft above mean sea level.

Gage.--Recording. Datum of gage is 782.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,390 cfs and extended on basis of slope-area measurements of 4,440 and 7,650 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 15, 1937	10.04	1,840	1941	May 22, 1941	8.76	1,050
	Jan. 18, 1937	7.67	733		June 4, 1941	9.35	1,330
	Jan. 22, 1937	9.60	1,470				
	Jan. 24, 1937	10.58	2,630	1942	Apr. 9, 1942	6.59	579
	June 14, 1937	8.39	915				
	June 21, 1937	10.66	2,720	1943	Mar. 19, 1943	9.19	1,220
	July 17, 1937	8.96	1,120		May 31, 1943	9.33	1,270
1938	Mar. 14, 1938	8.30	885	1944	Apr. 8, 1944	6.53	620
	Aug. 4, 1938	8.46	945				
				1945	Feb. 16, 1945	7.22	745
1939	Apr. 18, 1939	7.28	670		Feb. 22, 1945	7.28	767
					Mar. 6, 1945	9.18	1,560
1940	Feb. 10, 1940	7.85	770		Mar. 21, 1945	8.36	1,090
	Apr. 20, 1940	9.16	1,220		Apr. 17, 1945	7.28	767
	June 11, 1940	7.90	790		May 15, 1945	8.86	1,320
	June 18, 1940	7.93	790		Sept.23, 1945	9.87	2,050
	June 28, 1940	8.32	885				
	Aug. 30, 1940	8.12	835				

Peak stages and discharges of Mill Creek near Coshocton, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Oct. 2, 1945	11.25	3,680	1952	Feb. 4, 1952	7.75	736
	Dec. 25, 1945	7.36	790		Mar. 11, 1952	8.55	930
	Feb. 14, 1946	7.67	865				
	Feb. 26, 1946	9.55	1,420	1953	Jan. 18, 1953	7.81	736
	June 17, 1946	10.32	2,180		May 7, 1953	7.66	719
	June 29, 1946	7.70	719				
	July 11, 1946	10.43	2,320	1954	Mar. 30, 1954	3.85	250
	July 21, 1946	9.62	1,420				
				1955	Mar. 4, 1955	8.73	965
1947	Jan. 30, 1947	8.40	870		Mar. 22, 1955	8.34	840
	May 21, 1947	7.39	732				
	May 25, 1947	7.79	810	1956	Feb. 6, 1956	7.80	736
	June 7, 1947	9.18	1,180		Feb. 25, 1956	10.87	3,120
	July 19, 1947	7.34	714		Mar. 8, 1956	8.40	830
					June 25, 1956	8.03	750
1948	Feb. 14, 1948	9.82	1,580		July 27, 1956	9.12	1,100
	Mar. 24, 1948	7.82	810				
	Apr. 12, 1948	9.72	1,500	1957	Apr. 4, 1957	8.62	885
	Apr. 14, 1948	8.85	1,040		Apr. 8, 1957	7.73	702
					June 12, 1957	9.28	1,220
1949	Jan. 28, 1949	7.92	753		June 28, 1957	12.73	7,650
1950	Jan. 6, 1950	9.00	1,080	1958	Dec. 7, 1957	8.40	750
	Jan. 10, 1950	8.38	870		May 4, 1958	8.37	830
	Jan. 16, 1950	8.49	900		July 14, 1958	8.52	855
	Feb. 14, 1950	7.82	736				
	May 25, 1950	9.87	1,680	1959	Jan. 21, 1959	11.40	4,440
	Sept. 2, 1950	8.59	930		Feb. 10, 1959	10.36	2,260
					June 12, 1959	8.16	778
1951	Nov. 20, 1950	7.59	702				
	Dec. 3, 1950	7.71	719	1960	June 14, 1960	8.39	828
	Dec. 7, 1950	8.63	930		Aug. 22, 1960	10.47	2,420
	Jan. 4, 1951	8.55	930				
	Jan. 14, 1951	7.74	719	1961	Apr. 25, 1961	11.20	3,920
1952	Jan. 26, 1952	10.21	2,050				

1400.1. Spoon Creek tributary (Coshocton Experiment Station 177, ARS) near Coshocton, Ohio

Location.--Lat 40°22'01", long 81°47'58", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.118 sq mi (75.6 acres). Length of principal drainage, 2,750 ft (0.52 mile). Average slope of land surface, 15.7 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	June 18, 1940	-	58.1	1951	Mar. 30, 1951	-	4.88
				1952	Jan. 26, 1952	-	20.1
1941	May 22, 1941	-	45.2	1953	May 7, 1953	-	5.39
1942	Mar. 16, 1942	-	12.6	1954	Jan. 20, 1954	-	1.42
1943	May 31, 1943	-	28.5	1955	Mar. 4, 1955	-	12.2
1944	Apr. 8, 1944	-	11.5				
1945	Sept.23, 1945	-	55.0	1956	Feb. 25, 1956	-	35.1
				1957	June 12, 1957	-	240
1946	June 16, 1946	-	107	1958	July 22, 1958	-	32.0
1947	June 6, 1947	-	32.5	1959	Jan. 21, 1959	-	33.6
1948	Apr. 14, 1948	-	14.5	1960	June 14, 1960	-	41.8
1949	July 6, 1949	-	7.34				
1950	Sept. 1, 1950	-	156	1961	Apr. 25, 1961	-	79.4

1400.2. Spoon Creek tributary (Coshocton Experiment Station 172, ARS) near Coshocton, Ohio

Location.--Lat 40°21'58", long 81°48'04", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.068 sq mi (43.6 acres). Length of principal drainage, 2,000 ft (0.38 mile). Average slope of land surface, 22.8 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	July 8, 1939	-	26.3	1951	Mar. 30, 1951	-	3.20
1940	June 28, 1940	-	23.9	1952	Jan. 26, 1952	-	11.0
				1953	May 7, 1953	-	4.07
1941	May 22, 1941	-	26.3	1954	Apr. 16, 1954	-	.54
1942	Mar. 16, 1942	-	5.58	1955	Mar. 4, 1955	-	5.88
1943	May 31, 1943	-	11.5				
1944	Apr. 8, 1944	-	5.03	1956	Feb. 25, 1956	-	16.2
1945	Sept.23, 1945	-	15.5	1957	June 12, 1957	-	116
				1958	July 22, 1958	-	6.59
1946	June 16, 1946	-	31.6	1959	Jan. 21, 1959	-	12.2
1947	June 6, 1947	-	10.4	1960	June 14, 1960	-	9.11
1948	Apr. 14, 1948	-	6.77				
1949	Jan. 27, 1949	-	2.92	1961	Apr. 21, 1961	-	36.6
1950	Sept. 1, 1950	-	69.2				

1400.3. Spoon Creek tributary (Coshocton Experiment Station 169, ARS) near Coshocton, Ohio

Location.--Lat 40°21'27", long 81°48'11", 10 miles northeast of Coshocton, Coshocton County.

Drainage area.--0.0453 sq mi (20.0 acres). Length of principal drainage, 1,350 ft (0.26 mile). Average slope of land surface, 15.7 percent.

Gage.--Recording.

Remarks.--Records furnished by Agricultural Research Service, U.S. Department of Agriculture. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	June 18, 1940	-	27.8	1951	Mar. 30, 1951	-	2.78
				1952	Jan. 26, 1952	-	11.2
1941	Aug. 15, 1941	-	25.1	1953	May 22, 1953	-	1.59
1942	July 10, 1942	-	5.53	1954	Mar. 30, 1954	-	.475
1943	May 30, 1943	-	12.4	1955	Mar. 4, 1955	-	6.77
1944	Aug. 20, 1944	-	43.3				
1945	Sept.23, 1945	-	40.1	1956	July 27, 1956	-	26.6
				1957	June 12, 1957	-	75.8
1946	June 16, 1946	-	60.8	1958	July 31, 1958	-	7.15
1947	Aug. 16, 1947	-	26.6	1959	June 12, 1959	-	15.5
1948	Apr. 11, 1948	-	9.11	1960	June 14, 1960	-	24.8
1949	July 21, 1949	-	21.3				
1950	Sept. 1, 1950	-	70.1	1961	Apr. 21, 1961	-	30.3

1405. Muskingum River near Coshocton, Ohio

Location.--Lat 40°14'55", long 81°52'22", at highway bridge, 2 miles south of Coshocton, Coshocton County, and 2 miles downstream from confluence of Tuscarawas and Walhonding Rivers.

Drainage area.--4,847 sq mi.

Gage.--Nonrecording prior to Sept. 19, 1936; recording thereafter. Datum of gage is 730.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 75,000 cfs.

Remarks.--Flow regulated by 12 flood-control reservoirs (total capacity, 1,254,700 acre-ft, 3,053 sq mi controlled) since 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	28.8	a202,000	1949	Jan. 28, 1949	10.98	24,800
				1950	Jan. 7, 1950	c11.38	26,100
1937	Jan. 26, 1937	21.98	78,700				
1938	Apr. 10, 1938	13.68	33,500	1951	Feb. 21, 1951	11.38	26,100
1939	Mar. 14, 1939	14.58	37,100	1952	Jan. 27, 1952	14.28	36,400
1940	Mar. 5, 1940	b16.61	34,300	1953	May 25, 1953	7.39	13,700
				1954	Mar. 31, 1954	8.50	16,400
1941	Dec. 30, 1940	10.04	20,400	1955	Mar. 4, 1955	9.97	21,000
1942	Apr. 12, 1942	11.12	23,900				
1943	Mar. 20, 1943	12.90	31,300	1956	Mar. 8, 1956	10.83	23,600
1944	Apr. 14, 1944	10.88	24,400	1957	Apr. 10, 1957	-	d23,000
1945	Mar. 21, 1945	12.17	28,800	1958	May 4, 1958	10.12	21,400
				1959	Jan. 22, 1959	13.43	32,900
1946	Feb. 28, 1946	11.52	26,400	1960	Mar. 30, 1960	10.03	21,100
1947	Feb. 1, 1947	11.56	26,800				
1948	Apr. 14, 1948	12.02	28,200	1961	Apr. 26, 1961	11.75	26,900

a Computed by Corps of Engineers. b Occurred Feb. 13, 1940. c Also occurred Feb. 15-17. d Maximum daily discharge.

1415. Seneca Fork below Senecaville Dam, near Senecaville, Ohio

Location.--Lat 39°55'23", long 81°26'10", 650 ft downstream from Senecaville Dam, 1 mile downstream from Crooked Creek, 1½ miles southeast of Senecaville, Guernsey County, and 2 miles upstream from dam at Greenwood Mill.

Drainage area.--121 sq mi.

Gage.--Recording. At site 150 ft downstream at same datum prior to Jan. 24, 1942. Datum of gage is 799.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 730 cfs.

Remarks.--Flow regulated by Senecaville Reservoir (88,500 acre-ft, 121 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 11, 1939	9.58	652	1951	Dec. 10, 1950	e10.18	635
1940	Feb. 22, 1940	9.06	586	1952	Dec. 30, 1951	9.48	770
				1953	Jan. 30, 1953	9.11	702
1941	Dec. 29, 1940	9.22	599	1954	May 5, 1954	f5.55	138
1942	Apr. 13, 1942	9.14	591	1955	Mar. 4, 1955	9.44	782
1943	Jan. 2, 1943	9.18	602				
1944	Apr. 25, 1944	a9.46	738	1956	Mar. 14, 1956	9.15	755
1945	Jan. 5, 1945	10.08	745	1957	Jan. 25, 1957	9.00	725
					Feb. 12, 1957	-	725
1946	Feb. 27, 1946	b9.05	549	1958	May 22, 1958	8.35	635
1947	Jan. 17, 1947	c9.34	644	1959	Jan. 26, 1959	9.47	796
1948	Apr. 17, 1948	d10.15	794	1960	Dec. 15, 1959	9.23	760
1949	Feb. 1, 1949	10.35	718				
1950	Jan. 23, 1950	10.27	678	1961	May 15, 1961	9.40	712

a Backwater. b Occurred Dec. 25, 1945; backwater. c Occurred Jan. 18, 1947; backwater. d Occurred Apr. 18, 1948; backwater. e Occurred Feb. 24, 25, 1951; backwater. f Occurred May 5-7, 11-13, 1954.

1420. Wills Creek at Cambridge, Ohio

Location.--Lat 40°00'54", long 81°35'14", at Fairground Bridge on South Ninth Street in Cambridge, Guernsey County, 1 mile downstream from Leatherwood Creek.

Drainage area.--406 sq mi.

Gage.--Nonrecording prior to Oct. 19, 1938; recording thereafter. At site 1½ miles downstream at different datum prior to Oct. 6, 1927. Datum of gage is 772.34 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 7,720 cfs.

Bankfull stage.--17 ft.

Remarks.--Flow regulated by Senecaville Reservoir (88,500 acre-ft, 121 sq mi) since 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Jan. 23, 1927	16.4	4,420	1948	Apr. 15, 1948	18.07	5,520
1928	Dec. 15, 1927	18.8	6,470	1949	Jan. 29, 1949	13.12	2,880
				1950	Jan. 8, 1950	17.11	4,860
1935	Aug. 8, 1935	25.4	-				
				1951	Jan. 16, 1951	18.27	5,340
1938	May 25, 1938	17.60	5,570	1952	Jan. 28, 1952	18.09	5,080
1939	Apr. 19, 1939	14.45	3,510	1953	Jan. 29, 1953	9.30	1,580
1940	Apr. 21, 1940	20.67	7,540	1954	Apr. 29, 1954	10.10	1,840
				1955	Mar. 6, 1955	16.50	4,220
1941	Dec. 31, 1940	13.41	3,060				
1942	Apr. 11, 1942	16.43	4,680	1956	May 29, 1956	18.28	5,340
1943	Mar. 21, 1943	15.28	4,020	1957	Apr. 6, 1957	12.38	2,560
1944	Mar. 8, 1944	13.38	3,000	1958	May 8, 1958	14.04	3,100
1945	Mar. 7, 1945	21.32	7,860	1959	Jan. 23, 1959	17.85	5,050
				1960	Dec. 14, 1959	10.10	1,790
1946	June 20, 1946	13.53	3,040				
1947	May 23, 1947	12.87	2,790	1961	Apr. 27, 1961	15.14	3,560

1422. Salt Fork near Cambridge, Ohio

Location.--Lat 40°05'05", long 81°27'20", at bridge on U.S. Highway 22 near Cambridge, Guernsey County, half a mile upstream from Brushy Fork.

Drainage area.--55.6 sq mi.

Gage.--Recording. Datum of gage is 803.16 ft above mean sea level (levels by State of Ohio, Division of Water).

Stage-discharge relation.--Defined by current-meter measurements below 1,470 cfs.

Remarks.--Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956a/	Sept. 2, 1956	9.55	513	1959	Mar. 16, 1959	8.56	366
					Apr. 3, 1959	9.14	449
1957	Jan. 23, 1957	9.66	617				
	Apr. 5, 1957	10.12	934	1960	Dec. 13, 1959	8.69	382
	Apr. 9, 1957	8.28	361		Jan. 4, 1960	8.42	350
					Jan. 15, 1960	8.42	350
1958	Dec. 8, 1957	9.46	501		Feb. 11, 1960	8.83	400
	Dec. 26, 1957	8.22	350				
	Apr. 29, 1958	8.25	350	1961	Feb. 26, 1961	9.87	765
	May 4, 1958	10.62	1,350		Mar. 5, 1961	10.00	850
	July 9, 1958	9.14	453		Mar. 9, 1961	9.26	450
	July 17, 1958	9.81	685		Apr. 2, 1961	9.61	606
	July 26, 1958	8.64	394		Apr. 23, 1961	10.59	1,320
					Apr. 26, 1961	10.84	1,570
1959	Jan. 22, 1959	11.2	1,960		May 9, 1961	9.51	550
	Feb. 10, 1959	11.17	1,930		July 21, 1961	10.64	1,370

a Period of Aug. 16 to Sept. 30, 1956.

1425. Wills Creek at Birds Run, Ohio

Location.--Lat 40°10'09", long 81°39'06", 200 ft downstream from Birds Run, at village of Birds Run, Guernsey County.

Drainage area.--730 sq mi.

Gage.--Recording. Datum of gage is 740.98 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs, and by current-meter measurements at 12,000 and 8,300 cfs.

Remarks.--Flow regulated by Senecaville Reservoir (88,500 acre-ft, 121 sq mi) since 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	28.8	a22,300	1934	Mar. 5, 1934	18.15	4,330
				1935	Aug. 8, 1935	27.90	13,500
1929	May 5, 1929	21.45	5,730				
1930	Nov. 20, 1929	20.74	5,420	1936	Feb. 28, 1936	-	b8,600
				1937	Jan. 25, 1937	27.61	15,900
1931	Apr. 6, 1931	20.53	5,280	1938	Mar. 17, 1938	20.65	6,090
1932	Dec. 16, 1931	18.29	4,330	1939	Apr. 20, 1939	19.91	5,650
1933	Mar. 17, 1933	23.08	8,450				

a At Wills Creek dam site 8 miles below gage, computed by Corps of Engineers.
b Estimated.

1435. Wills Creek below Wills Creek Dam, at Wills Creek, Ohio

Location.--Lat 40°09'40", long 81°50'45", 1,200 ft downstream from Wills Creek Dam, 1 mile southwest of town of Wills Creek, Coshocton County, 3 miles southeast of Conesville, and 5½ miles upstream from mouth.

Drainage area.--845 sq mi.

Gage.--Nonrecording prior to Feb. 18, 1939; recording thereafter. At site 1,500 ft downstream at same datum prior to Sept. 30, 1949. Datum of gage is 717.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Senecaville (88,500 acre-ft, 121 sq mi) and Wills Creek (196,000 acre-ft, 844 sq mi) Reservoirs since 1937. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	March 1931	-	a22,300	1950	Jan. 19, 1950	16.91	6,160
1939	Apr. 19, 1939	15.32	5,870	1951	Dec. 13, 1950	16.61	5,980
1940	Mar. 7, 1940	17.40	6,930	1952	Feb. 14, 1952	16.40	5,860
				1953	Mar. 27, 1953	10.70	2,880
1941	Jan. 2, 1941	14.71	5,480	1954	Apr. 30, 1954	d9.88	2,440
1942	Apr. 14, 1942	15.74	6,010	1955	Mar. 13, 1955	16.34	5,800
1943	Jan. 6, 1943	16.50	6,440				
1944	Mar. 11, 1944	15.37	5,940	1956	Mar. 15, 1956	16.04	5,620
1945	Mar. 23, 1945	16.60	6,600	1957	Apr. 11, 1957	e15.80	5,050
				1958	May 13,15,1958	15.92	5,570
1946	June 25, 1946	14.86	5,690	1959	Jan. 31, 1959	16.32	5,810
1947	May 22, 1947	14.92	5,690	1960	Apr. 5, 1960	f13.20	4,100
1948	Feb. 22, 1948	b15.84	6,710				
1949	Feb. 2, 1949	c15.00	6,010	1961	May 5, 1961	16.12	5,700

a Computed by Corps of Engineers; maximum known.
b Occurred Feb. 21, 1948; backwater from Muskingum River.
c Backwater from Muskingum River.
d Occurred Mar. 31, 1954; backwater from Muskingum River.
e Occurred Apr. 13, 1957; backwater from Muskingum River.
f Occurred Apr. 6, 1960; backwater from Muskingum River.

1440. Wakatomika Creek near Frazeysburg, Ohio

Location.--Lat 40°07'57", long 82°08'53", 2 miles northwest of Frazeysburg, Muskingum County, 2 miles downstream from Fivemile Run, and 2½ miles upstream from Black Run.

Drainage area.--140 sq mi. Channel slope, principal stream, 9.97 ft per mile; channel slope, tributary, 74.5 ft per mile; length of longest watercourse, 29.3 miles; mean elevation of land surface, 960 ft above mean sea level; average slope of land surface, 660 ft per mile.

Gage.--Nonrecording prior to Oct. 31, 1936; recording thereafter. Datum of gage is 748.12 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 7,680 cfs and extended on basis of contracted-opening measurement at 13,700 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Nov. 4, 1936	5.64	2,040	1948	Mar. 20, 1948	5.75	1,910
	Jan. 15, 1937	10.00	6,940		Mar. 27, 1948	5.35	1,670
	Jan. 18, 1937	6.96	2,700		Apr. 13, 1948	8.02	3,560
	Jan. 22, 1937	10.04	6,940				
	Jan. 25, 1937	11.27	10,200	1949	Jan. 28, 1949	7.00	2,700
	June 21, 1937	11.10	9,600		Feb. 15, 1949	5.50	1,730
					July 10, 1949	5.31	1,610
1938	Dec. 18, 1937	5.70	2,060	1950	Jan. 6, 1950	9.52	5,890
	Mar. 15, 1938	7.50	3,150		Jan. 10, 1950	6.08	2,090
	Apr. 7, 1938	8.38	4,070		Jan. 16, 1950	6.88	2,630
1939	Jan. 30, 1939	6.72	2,580		Feb. 14, 1950	6.32	2,210
	Apr. 18, 1939	5.20	1,760		Apr. 5, 1950	6.15	2,150
	June 19, 1939	5.55	2,000				
				1951	Dec. 3, 1950	5.82	1,910
1940	Mar. 3, 1940	9.29	5,490		Dec. 8, 1950	8.97	4,900
	Apr. 12, 1940	6.34	2,400		Jan. 4, 1951	7.11	2,780
	Apr. 20, 1940	10.0	6,940		Jan. 15, 1951	5.89	1,970
	June 11, 1940	5.10	1,720		Feb. 12, 1951	7.31	2,940
	Aug. 30, 1940	5.15	1,780		Feb. 21, 1951	5.39	1,670
					Mar. 30, 1951	5.53	1,730
1941	July 19, 1941	4.76	1,480				
				1952	Jan. 27, 1952	11.61	10,000
1942	Apr. 10, 1942	6.03	2,220		Feb. 4, 1952	6.55	2,420
	June 21, 1942	5.92	2,160		Mar. 11, 1952	7.99	3,560
					Apr. 24, 1952	6.7	2,490
1943	Dec. 30, 1942	8.55	4,250				
	Mar. 17, 1943	5.34	1,840	1953	Jan. 18, 1953	4.56	1,160
	Mar. 20, 1943	10.2	7,380				
	July 8, 1943	5.55	2,000	1954	Mar. 29, 1954	4.83	1,220
	Aug. 4, 1943	8.81	4,540				
				1955	Mar. 4, 1955	8.60	4,250
1944	Mar. 7, 1944	9.02	4,900		Mar. 22, 1955	6.43	2,400
	Apr. 8, 1944	8.31	3,880				
	Apr. 11, 1944	5.74	1,850	1956	Feb. 26, 1956	8.58	4,250
					May 28, 1956	6.06	2,230
1945	Feb. 16, 1945	5.60	1,790		July 9, 1956	9.52	5,090
	Feb. 22, 1945	5.90	1,970				
	Feb. 27, 1945	5.41	1,670	1957	Apr. 4, 1957	8.29	3,890
	Mar. 3, 1945	7.02	2,700		Apr. 9, 1957	5.62	1,900
	Mar. 6, 1945	10.46	8,040		June 29, 1957	8.28	3,890
	Mar. 21, 1945	7.82	3,380				
	May 18, 1945	9.17	5,290	1958	May 4, 1958	8.09	3,700
1946	Oct. 2, 1945	6.03	2,030	1959	Jan. 22, 1959	13.15	13,700
	Feb. 14, 1946	6.09	2,100		Feb. 10, 1959	9.31	5,320
	Feb. 27, 1946	5.88	1,970				
	June 19, 1946	6.65	2,420	1960	Dec. 13, 1959	5.68	1,940
					Feb. 11, 1960	6.35	2,400
1947	Jan. 31, 1947	6.63	2,420		June 14, 1960	5.81	2,030
	May 22, 1947	5.49	1,730				
	May 26, 1947	5.93	1,970	1961	Mar. 6, 1961	7.10	2,880
	June 8, 1947	6.81	2,560		Apr. 23, 1961	5.66	1,750
	June 30, 1947	5.60	1,790		Apr. 26, 1961	9.66	5,950
	Aug. 31, 1947	5.51	1,730		July 31, 1961	6.02	2,020
1948	Feb. 14, 1948	9.76	6,520				

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1445. Muskingum River at Dresden, Ohio

Location.--Lat 40°07'14", long 82°00'02", 70 ft downstream from bridge on State Highway 208, half a mile east of Dresden, Muskingum County, and half a mile downstream from Wakatomika Creek.

Drainage area.--5,982 sq mi.

Gage.--Nonrecording prior to Aug. 24, 1925; recording thereafter. Datum of gage is 693.15 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 92,600 cfs.

Bankfull stage.--21 ft.

Remarks.--Flow regulated by 14 flood-control reservoirs (total capacity, 1,539,200 acre-ft, 3,897 sq mi controlled) since 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	46.0	a228,000	1942	Apr. 12, 1942	18.49	33,700
				1943	Mar. 20, 1943	19.18	36,100
1922	Apr. 16, 1922	21.7	44,000	1944	Apr. 14, 1944	17.44	30,100
1923	May 14, 1923	19.6	36,700	1945	Mar. 21, 1945	19.79	38,100
1924	Mar. 30, 1924	22.2	45,800				
1925	Feb. 25, 1925	16.7	27,200	1946	Mar. 1, 1946	17.21	29,400
				1947	Feb. 1, 1947	17.80	31,400
1926	Feb. 27, 1926	19.5	36,400	1948	Apr. 15, 1948	c20.25	33,700
1927	Mar. 23, 1927	26.0	63,300	1949	Jan. 28, 1949	17.92	31,700
1928	Dec. 17, 1927	24.5	56,200	1950	Jan. 7, 1950	19.21	36,100
1929	Feb. 28, 1929	25.3	60,000				
1930	Jan. 15, 1930	24.3	55,200	1951	Dec. 8, 1950	18.07	31,200
				1952	Jan. 27, 1952	21.98	45,200
1931	Apr. 5, 1931	14.07	19,200	1953	May 25, 1953	12.21	14,600
1932	Jan. 19, 1932	19.47	37,100	1954	Mar. 31, 1954	14.06	19,600
1933	Mar. 18, 1933	23.97	54,900	1955	Mar. 4, 1955	16.98	28,100
1934	Mar. 6, 1934	b16.80	21,800				
1935	Aug. 9, 1935	31.60	100,000	1956	Feb. 26, 1956	16.63	26,900
				1957	Apr. 10, 1957	16.93	27,800
1936	Feb. 28, 1936	23.32	51,100	1958	May 5, 1958	16.27	26,000
1937	Jan. 26, 1937	30.86	95,300	1959	Jan. 22, 1959	20.50	39,400
1938	Apr. 11, 1938	20.28	39,800	1960	Mar. 30, 1960	16.17	25,600
1939	Mar. 14, 1939	19.90	38,500				
1940	Mar. 6, 1940	20.86	41,900	1961	Apr. 26, 1961	17.11	28,400
1941	Dec. 31, 1940	16.25	26,200				

a Computed by Corps of Engineers. b Occurred Mar. 4, 1934; backwater from ice.
c Occurred Feb. 15, 1948; backwater from ice.

1450. South Fork Licking River near Hebron, Ohio

Location.--Lat 39°59'20", long 82°28'30", at highway bridge 800 ft downstream from Beaver Run, 2.3 miles north of Hebron, Licking County, and 2½ miles upstream from Ramp Creek.

Drainage area.--133 sq mi.

Gage.--Nonrecording. Altitude of gage is 855 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,420 cfs and slope-area measurement at 5,880 cfs.

Bankfull stage.--8 ft.

Remarks.--Flow regulated by Buckeye Lake (27,300 acre-ft, 3,140 acres surface area, 46.2 sq mi). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	11.9	4,820	1945	Mar. 6, 1945	12.1	5,200
				1946	Feb. 14, 1946	9.06	1,640
1941	June 17, 1941	8.6	1,420	1947	Jan. 31, 1947	9.6	1,970
1942	Apr. 9, 1942	9.1	1,650	1948	Feb. 14, 1948	10.78	2,950
1943	Mar. 20, 1943	11.1	3,520				
1944	Mar. 7, 1944	9.6	1,930	1959	Jan. 21, 1959	12.4	5,880

1455. Raccoon Creek at Granville, Ohio

Location.--Lat 40°03'50", long 82°31'35", at bridge on State Highway 16, at southwest edge of Granville, Licking County, and at mouth of Salt Run.

Drainage area.--83.0 sq mi, including that of Salt Run.

Gage.--Nonrecording. Altitude of gage is 900 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,160 cfs.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	13.6	6,240	1946	Feb. 27, 1946	10.1	2,440
				1947	June 30, 1947	12.5	4,860
1941	June 4, 1941	7.4	1,230	1948	Feb. 14, 1948	12.4	4,700
1942	Apr. 9, 1942	9.3	2,140				
1943	Aug. 4, 1943	12.94	5,340	1959	Jan. 21, 1959	16.6	8,700
1944	June 3, 1944	13.4	5,980				
1945	Mar. 6, 1945	12.8	5,220				

1456. Otter Fork near Centerburg, Ohio

Location.--Lat 40°17'25", long 82°43'15", 500 ft downstream from culvert on State Highway 3, 1.2 miles west of city limits of Centerburg, Knox County.

Drainage area.--2.97 sq mi. Length of main stream, 2.70 miles; average slope main stream, 10 ft per mile; average slope main stream and tributaries, 14.8 ft per mile; slope at gage, 8 ft per mile; length divided by average width of basin, 2.45.

Gage.--Crest-stage gage. Altitude of gage is 1,160 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 124 cfs and extended on basis of an indirect measurement at 368 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 29, 1947	13.25	368	1955	-	12.28	203
1948	-	10.82	81				
1949	-	10.19	56	1956	-	12.74	264
1950	-	11.04	95	1957	-	12.71	258
				1958	-	10.22	57
1951	-	10.01	50	1959	Jan. 21, 1959	13.52	445
1952	-	12.33	209	1960	Feb. 10, 1960	11.10	98
1953	-	10.92	86				
1954	-	11.40	116	1961	Apr. 25, 1961	13.12	337

1460. North Fork Licking River at Utica, Ohio

Location.--Lat 40°13'35", long 82°27'05", at bridge on State Highway 13 at south edge of Utica, Licking County, 2 miles upstream from Lake Fork.

Drainage area.--114 sq mi.

Gage.--Nonrecording. Altitude of gage is 940 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,760 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	11.5	5,470	1946	June 19, 1946	9.78	3,350
				1947	June 2, 1947	10.8	4,920
1941	Dec. 30, 1940	5.5	1,280	1948	Apr. 13, 1948	12.4	6,400
1942	June 21, 1942	10.5	4,500				
1943	Aug. 4, 1943	11.5	5,470	1956	July 1956	13.2	-
1944	Mar. 7, 1944	9.9	4,110				
1945	Mar. 6, 1945	12.3	6,300	1959	Jan. 21, 1959	15.8	-

1465. Licking River near Newark, Ohio

Location.--Lat 40°03'33", long 82°20'23", at Stadden Bridge, 1 mile downstream from Shawnee Run, 1½ miles upstream from Equality Run, and 3½ miles east of Newark, Licking County.

Drainage area.--536 sq mi.

Gage.--Nonrecording prior to May 9, 1940; recording thereafter. Datum of gage is 779.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 23,600 cfs and extended on basis of flood-routing studies from station at Toboso.

Remarks.--Base for partial-duration series, 6,500 cfs. Only annual peak is shown for 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	15.22	18,500	1946	July 19, 1946	9.88	7,100
1941	Dec. 29, 1940	6.56	3,750	1947	Jan. 31, 1947	12.07	10,700
					Apr. 21, 1947	9.47	6,500
1942	Apr. 10, 1942	10.2	7,380		May 22, 1947	9.67	6,750
					May 25, 1947	11.13	8,780
1943	Dec. 30, 1942	12.5	11,800		June 3, 1947	11.51	9,500
	Mar. 17, 1943	9.75	7,000				
	Mar. 20, 1943	15.0	18,000	1948	Jan. 2, 1948	10.19	7,420
	June 17, 1943	11.66	10,200		Feb. 14, 1948	14.00	15,400
	Aug. 5, 1943	13.02	13,000		Mar. 20, 1948	9.50	6,500
					Mar. 27, 1948	12.18	10,900
1944	Mar. 7, 1944	11.97	10,800		Apr. 13, 1948	12.82	12,400
	Apr. 8, 1944	11.56	10,000				
	Apr. 12, 1944	10.41	7,700	1949	Jan. 5, 1949	10.40	7,650
					Jan. 24, 1949	10.70	8,120
1945	Feb. 22, 1945	10.45	7,700		Jan. 28, 1949	11.41	9,300
	Feb. 27, 1945	10.45	7,700		Feb. 15, 1949	11.32	9,120
	Mar. 3, 1945	12.08	11,000				
	Mar. 7, 1945	15.77	20,000	1950	Jan. 6, 1950	14.03	15,400
	Mar. 20, 1945	13.22	13,500		Jan. 10, 1950	10.49	7,800
	May 17, 1945	12.11	11,000		Jan. 16, 1950	10.80	8,280
					Jan. 24, 1950	10.45	7,650
1946	Feb. 14, 1946	10.43	7,700		Feb. 14, 1950	10.06	7,200
	Feb. 27, 1946	10.20	7,430		Apr. 5, 1950	10.46	7,800
	Mar. 19, 1946	9.50	6,700				
	June 19, 1946	10.58	8,040	1951	Dec. 3, 1950	12.36	11,400

Peak stages and discharges of Licking River near Newark, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 7, 1950	14.03	15,400	1956	Mar. 8, 1956	10.95	7,080
	Jan. 4, 1951	13.51	14,200		May 3, 1956	10.93	6,950
	Jan. 15, 1951	11.50	9,500		May 28, 1956	13.09	10,500
	Feb. 13, 1951	11.79	10,100		June 22, 1956	14.38	12,300
	Feb. 21, 1951	10.98	8,610		July 9, 1956	13.30	10,100
	Mar. 30, 1951	11.23	8,950				
				1957	Apr. 4, 1957	13.97	12,900
1952	Jan. 27, 1952	16.59	25,000		June 29, 1957	11.93	8,350
	Feb. 4, 1952	11.22	8,950				
	Mar. 11, 1952	12.68	12,200	1958	Dec. 21, 1957	10.58	6,560
	Apr. 24, 1952	10.42	7,650		May 4, 1958	13.08	10,500
					July 22, 1958	10.45	6,540
1953	July 2, 1953	7.62	3,860				
				1959	Jan. 21, 1959	20.30	45,000
1954	Apr. 17, 1954	8.30	4,560		Feb. 10, 1959	14.97	15,900
1955	Mar. 4, 1955	11.68	8,720	1960	Feb. 11, 1960	12.50	9,360
	Mar. 22, 1955	11.21	7,720				
				1961	Mar. 6, 1961	10.45	6,500
1956	Feb. 26, 1956	12.26	8,980		Apr. 26, 1961	13.45	11,400

1470. Licking River at Toboso, Ohio
(Published as "at Pleasant Valley" November 1902 to July 1906)

Location.--Lat 40°03'26", long 82°13'12", at highway bridge at Toboso, Licking County, 3 miles downstream from Rocky Fork.

Drainage area.--672 sq mi. At site used 1902-6, 696 sq mi. Channel slope, principal stream, 8.21 ft per mile; channel slope, tributary, 26.4 ft per mile; longest watercourse, 51.4 miles; mean elevation of land, 1,002 ft above mean sea level; average land slope, 363 ft per mile.

Gage.--Nonrecording prior to Sept. 20, 1929; recording thereafter. At site 8½ miles downstream at Pleasant Valley at different datum prior to July 21, 1906. Datum of gage is 744.84 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 33,600 cfs.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown prior to 1930. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	Feb. 28, 1903	16.4	16,400	1932	Jan. 15, 1932	12.70	10,100
1904	Jan. 22, 1904	15.8	15,400		Jan. 18, 1932	12.43	9,740
1905	Mar. 8, 1905	12.0	8,800		Jan. 30, 1932	10.70	7,700
1906	Mar. 28, 1906	16.6	16,800	1933	Dec. 31, 1932	11.96	9,260
					Mar. 15, 1933	13.00	10,500
1913	March 1913	20.0	a35,000		Mar. 19, 1933	13.72	11,300
					Mar. 21, 1933	11.60	8,780
1922	Apr. 15, 1922	15.8	16,300		Apr. 19, 1933	10.88	7,940
1923	June 7, 1923	8.0	4,720		May 11, 1933	12.10	9,380
1924	Mar. 29, 1924	17.00	20,000		May 14, 1933	14.38	13,000
1925	Mar. 19, 1925	8.00	4,660				
				1934	Mar. 3, 1934	9.30	6,090
1926	Apr. 8, 1926	12.1	9,380				
1927	Jan. 20, 1927	16.0	16,800	1935	May 3, 1935	10.71	7,700
1928	Dec. 14, 1927	15.3	15,000		Aug. 8, 1935	16.95	20,000
1929	Feb. 26, 1929	17.9	23,600				
				1936	Feb. 15, 1936	11.24	8,300
1930	Dec. 19, 1929	10.40	7,340		Feb. 26, 1936	12.38	9,740
	Jan. 9, 1930	11.12	8,180		Apr. 6, 1936	10.90	7,940
	Jan. 13, 1930	12.4	9,740				
	Feb. 26, 1930	12.35	9,740	1937	Jan. 15, 1937	16.62	18,600
	Mar. 8, 1930	10.90	7,940		Jan. 18, 1937	14.05	11,300
					Jan. 22, 1937	17.70	22,600
1931	Apr. 4, 1931	7.76	4,460		Jan. 25, 1937	18.21	25,000
					June 22, 1937	17.98	24,000
1932	Dec. 12, 1931	10.82	7,820				
	Dec. 14, 1931	11.72	8,900	1938	Dec. 18, 1937	11.14	7,580

a Computed by Muskingum Conservancy District.

Peak stages and discharges of Licking River at Toboso, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 15, 1938	13.42	12,400
	Apr. 7, 1938	12.99	11,700
	Apr. 9, 1938	11.84	9,750
1939	Jan. 31, 1939	11.82	9,750
	Feb. 11, 1939	10.14	7,290
	Feb. 15, 1939	10.05	7,150
	Apr. 17, 1939	11.10	8,700
	June 19, 1939	13.75	13,100
1940	Mar. 3, 1940	15.59	19,200
	Apr. 12, 1940	11.76	8,920
	Apr. 20, 1940	17.00	24,000
1941	Dec. 29, 1940	7.62	4,320
1942	Apr. 10, 1942	11.50	8,600
1943	Dec. 30, 1942	14.07	14,500
	Mar. 17, 1943	10.96	7,900
	Mar. 20, 1943	16.80	23,300
	June 17, 1943	12.12	9,630
	Aug. 4, 1943	14.18	14,800
1944	Mar. 7, 1944	13.67	12,800
	Mar. 23, 1944	10.38	7,360
	Apr. 8, 1944	12.93	11,200
	Apr. 12, 1944	11.57	9,100
1945	Feb. 22, 1945	11.52	8,950
	Feb. 27, 1945	11.92	9,550
	Mar. 3, 1945	13.78	13,000
	Mar. 7, 1945	18.00	28,000
	Mar. 20, 1945	15.28	16,900
	May 18, 1945	14.31	14,100
1946	Feb. 14, 1946	11.73	9,350
	Feb. 27, 1946	10.83	8,020
	Mar. 19, 1946	10.17	7,180
	June 19, 1946	12.35	10,400
1947	Jan. 20, 1947	10.20	7,180
	Jan. 31, 1947	13.20	11,800
	Apr. 21, 1947	10.55	7,740
	May 22, 1947	10.61	7,740
	May 26, 1947	12.47	10,600
	June 3, 1947	11.80	9,500
1948	Jan. 2, 1948	10.97	8,300
	Feb. 14, 1948	15.53	17,400
	Mar. 20, 1948	10.26	7,320
	Mar. 28, 1948	12.75	11,100
	Apr. 14, 1948	14.13	13,600
1949	Jan. 5, 1949	11.32	8,750
	Jan. 24, 1949	11.89	9,650
	Jan. 26, 1949	10.19	7,180
	Jan. 28, 1949	12.98	11,400
	Feb. 15, 1949	12.38	10,400
1950	Jan. 5, 1950	10.56	7,740
	Jan. 7, 1950	15.92	18,800
	Jan. 10, 1950	11.89	9,650
	Jan. 16, 1950	11.93	9,650
	Jan. 24, 1950	11.40	8,900
	Feb. 14, 1950	11.44	8,900
	Feb. 23, 1950	10.55	7,740
	Apr. 5, 1950	11.64	9,200
1951	Dec. 4, 1950	13.27	12,000
	Dec. 8, 1950	15.78	18,400
	Jan. 4, 1951	15.06	16,200
	Jan. 15, 1951	12.84	11,100
	Feb. 13, 1951	13.25	11,800
	Feb. 21, 1951	12.14	9,960
	Mar. 30, 1951	12.00	9,800
1952	Jan. 27, 1952	18.75	32,500
	Feb. 4, 1952	12.61	10,800
	Mar. 11, 1952	13.93	13,200
	Apr. 24, 1952	11.41	8,900
1953	July 2, 1953	7.44	3,980
1954	Apr. 17, 1954	8.53	5,100
1955	Mar. 5, 1955	12.32	9,200
	Mar. 22, 1955	12.01	8,720
1956	Feb. 26, 1956	12.49	8,900
	Mar. 8, 1956	11.76	8,130
	Apr. 3, 1956	10.76	7,030
	May 3, 1956	11.50	7,800
	May 28, 1956	14.31	11,100
	June 22, 1956	14.19	11,000
	July 9, 1956	13.30	9,840
1957	Jan. 23, 1957	10.95	7,250
	Apr. 5, 1957	15.56	12,900
	Apr. 9, 1957	11.37	7,690
	June 29, 1957	13.85	10,400
1958	Dec. 7, 1957	11.54	7,800
	Dec. 21, 1957	11.80	8,130
	Dec. 26, 1957	10.89	7,140
	May 4, 1958	14.66	11,600
	July 8, 1958	11.80	8,130
	July 23, 1958	11.87	8,240
1959	Jan. 22, 1959	21.08	49,800
	Feb. 10, 1959	16.50	17,000
1960	Dec. 12, 1959	11.69	8,010
	Feb. 11, 1960	13.68	10,500
1961	Mar. 6, 1961	12.09	8,610
	Apr. 26, 1961	14.12	12,000

1475. Licking River at Dillon, Ohio

Location.--Lat 39°58'15", long 82°03'25", at highway bridge at Dillon, Muskingum County, 3 miles northwest of Zanesville and 3¼ miles upstream from mouth.

Drainage area.--754 sq mi. Prior to Oct. 28, 1940, 753 sq mi.

Gage.--Recording. At site a third of a mile upstream at different datum prior to Oct. 28, 1940. Datum of gage is 683.7 ft above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 29,300 cfs and extended on basis of slope-area measurement at 47,000 cfs.

Remarks.--Base for partial-duration series, 6,500 cfs. Flow regulated by Dillon Dam (274,000 acre-ft, 748 sq mi) since December 1960. Only annual peak shown for 1961.

Peak stages and discharges of Licking River at Dillon, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a37.0	b39,000
1940	Mar. 4, 1940	7.54	17,000
	Apr. 12, 1940	5.00	8,750
	Apr. 20, 1940	9.38	24,600
	May 25, 1940	4.25	6,610
1941	July 7, 1941	12.18	5,680
1942	Apr. 10, 1942	14.9	8,270
1943	Dec. 31, 1942	18.8	13,500
	Mar. 17, 1943	14.2	7,570
	Mar. 20, 1943	24.9	24,600
	June 17, 1943	13.87	7,250
	Aug. 5, 1943	17.55	11,700
1944	Mar. 7, 1944	17.8	12,000
	Mar. 24, 1944	13.7	7,500
	Apr. 9, 1944	16.4	10,400
	Apr. 12, 1944	15.1	8,910
1945	Feb. 23, 1945	13.89	7,700
	Feb. 27, 1945	14.67	8,500
	Mar. 4, 1945	17.28	11,500
	Mar. 7, 1945	27.57	30,300
	Mar. 21, 1945	22.3	19,600
	May 18, 1945	18.67	13,400
1946	Feb. 14, 1946	14.47	9,300
	Feb. 28, 1946	13.43	8,150
	Mar. 19, 1946	12.8	7,550
	June 20, 1946	15.07	10,000
1947	Jan. 21, 1947	12.6	7,000
	Jan. 31, 1947	16.02	10,400
	Apr. 21, 1947	13.1	7,500
	May 22, 1947	13.1	7,500
	May 26, 1947	15.0	10,300
	June 3, 1947	13.9	8,300
1948	Jan. 2, 1948	-	c7,000
	Feb. 14, 1948	-	c17,000
	Mar. 20, 1948	12.2	6,620
	Mar. 28, 1948	15.3	9,700
	Apr. 14, 1948	19.30	14,500
1949	Jan. 6, 1949	13.72	8,600
	Jan. 25, 1949	14.25	9,100
	Jan. 28, 1949	15.73	10,600
	Feb. 16, 1949	14.90	9,800
	Mar. 27, 1949	11.61	6,500
1950	Jan. 7, 1950	20.20	16,600
	Jan. 11, 1950	14.29	9,200
1950	Jan. 16, 1950	14.22	9,100
	Jan. 25, 1950	13.51	8,400
	Feb. 15, 1950	13.78	8,700
	Feb. 23, 1950	12.82	7,700
	Apr. 5, 1950	13.75	8,700
1951	Dec. 4, 1950	15.00	10,000
	Dec. 8, 1950	19.55	15,800
	Jan. 5, 1951	18.74	14,500
	Jan. 15, 1951	15.42	10,400
	Feb. 13, 1951	16.54	11,600
	Feb. 21, 1951	13.78	8,820
	Mar. 31, 1951	14.02	9,000
1952	Dec. 31, 1951	11.57	6,840
	Jan. 27, 1952	27.63	29,800
	Feb. 4, 1952	15.56	10,500
	Mar. 12, 1952	16.92	12,000
	Mar. 23, 1952	12.09	6,800
	Apr. 25, 1952	13.84	8,500
1953	July 2, 1953	8.9	4,030
1954	Apr. 17, 1954	9.91	4,830
1955	Feb. 23, 1955	12.00	6,910
	Mar. 5, 1955	14.09	9,020
	Mar. 23, 1955	13.30	8,210
1956	Feb. 7, 1956	11.57	6,510
	Feb. 26, 1956	13.37	8,310
	Mar. 9, 1956	12.67	7,400
	Apr. 4, 1956	11.81	6,520
	May 3, 1956	12.21	6,900
	May 28, 1956	16.03	10,900
	June 23, 1956	14.60	9,360
	July 10, 1956	13.42	8,100
1957	Apr. 5, 1957	18.90	14,800
	Apr. 9, 1957	13.02	7,700
	June 29, 1957	13.78	8,500
1958	Dec. 8, 1957	12.10	6,800
	Dec. 21, 1957	12.98	7,700
	Dec. 27, 1957	11.76	6,920
	May 5, 1958	17.20	12,400
	July 8, 1958	12.60	7,640
	July 23, 1958	11.93	7,010
1959	Jan. 22, 1959	32.46	47,000
	Feb. 11, 1959	21.46	18,100
1960	Feb. 12, 1960	11.48	6,380
1961	Mar. 7, 1961	10.95	6,000

a Maximum stage known; backwater from Muskingum River.
b Computed by Corps of Engineers.
c Estimated.

1479. Timber Run near Zanesville, Ohio

Location.--Lat 39°56'55", long 82°02'50", 1 mile west of Zanesville city limits, Muskingum County, 500 ft south of U.S. Highway 40, and 1¼ miles upstream from mouth.

Drainage area.--10.6 sq mi. Length of main stream, 5.86 miles; average slope main stream, 32 ft per mile; average slope main stream and tributaries, 65 ft per mile; slope at gage, 50 ft per mile; length divided by average width of basin, 3.24.

Gage.--Recording. Altitude of gage is about 700 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 430 cfs and extended on basis of slope-area measurements at 1,810 and 2,070 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Timber Run near Zanesville, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 19, 1947	6.96	1,040	1955	July 6, 1955	6.20	815
1948	Feb. 14, 1948	6.60	935				
1949	Jan. 4, 1949	5.04	505	1956	May 27, 1956	8.59	1,580
1950	Apr. 3, 1950	6.5	905	1957	Apr. 4, 1957	5.57	650
				1958	July 15, 1958	7.10	1,090
1951	Jan. 3, 1951	7.05	1,070	1959	Jan. 21, 1959	6.0	760
1952	June 30, 1952	9.57	1,900	1960	Feb. 10, 1960	3.71	234
1953	July 18, 1953	6.53	905				
1954	May 2, 1954	3.94	270	1961	Aug. 2, 1961	9.26	2,070

1480. Muskingum River at Zanesville, Ohio

Location.--Lat 39°56'20", long 82°00'45", 600 ft downstream from "Y" bridge on U.S. Highway 40 and mouth of Licking River in Zanesville, Muskingum County.

Drainage area.--6,844 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1960; recording thereafter. At site 1,000 ft downstream prior to Dec. 20, 1939, and at site half a mile downstream Dec. 20, 1939, to Oct. 20, 1960, at datum 665.0 ft above mean sea level, adjustment of 1912. Datum of gage is 667.00 ft above mean sea level, supplementary adjustment of 1955.

Stage-discharge relation.--Defined by current-meter measurements below 49,700 cfs. Subject to backwater from Moxahala Creek.

Remarks.--Flow regulated by 14 flood-control reservoirs (total capacity, 1,539,200 acre-ft, 3,897 sq mi controlled) since 1936, and by Dillon Dam (274,000 acre-ft, 748 sq mi) since December 1960. Gage-height records prior to April 1905 and Jan. 1, 1913, to September 1939, collected by Corps of Engineers. October 1955 to Oct. 20, 1960, gage-height records by U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1832	February 1832	34.8	-	1910	Mar. 3, 1910	32.5	-
1860	April 1860	33.5	-	1911	Jan. 30, 1911	23.5	-
				1912	Apr. 3, 1912	22.8	-
1884	February 1884	34.5	-	1913	Jan. 12, 1913	25.6	-
					Mar. 27, 1913	51.8	-
1889	Nov. 11, 1888	18.1	-	1914	Mar. 30, 1914	20.4	-
	Jan. 28, 1889	15.9	-	1915	Feb. 6, 1915	24.6	-
1890	Mar. 14, 1890	22.9	-				
				1916	Mar. 28, 1916	25.1	-
1891	Feb. 17, 1891	27.3	-	1917	Mar. 14, 1917	20.3	-
1892	Feb. 9, 1892	17.1	-	1918	Feb. 15, 1918	25.6	-
1893	Feb. 11, 1893	26.2	-	1919	May 10, 1919	21.7	-
	May 21, 1893	30.1	-	1920	Apr. 22, 1920	26.8	-
1894	Feb. 13, 1894	17.8	-				
				1921	Mar. 29, 1921	23.2	-
1896	Dec. 27, 1895	17.4	-	1922	Apr. 15, 1922	25.7	-
	July 25, 1896	20.8	-				
1897	Mar. 6, 1897	24.5	-	1924	Dec. 23, 1923	19.9	-
1898	Mar. 24, 1898	36.8	-		Mar. 30, 1924	25.8	-
1899	Jan. 15, 1899	20.1	-	1925	Feb. 12, 1925	17.2	-
1900	Mar. 7, 1900	19.4	-				
				1926	Feb. 27, 1926	19.8	-
1901	Apr. 27, 1901	24.5	-	1927	Jan. 23, 1927	26.0	-
1902	Apr. 12, 1902	17.1	-		Mar. 22, 1927	26.7	-
1903	Mar. 11, 1903	23.9	-	1928	Mar. 31, 1928	18.2	-
1904	Jan. 25, 1904	27.2	-	1929	Feb. 27, 1929	26.4	-
	Mar. 5, 1904	25.9	-	1930	Jan. 15, 1930	24.9	-
	Apr. 3, 1904	27.9	-				
1905	May 15, 1905	19.2	-	1932	Dec. 14, 1931	19.4	-
					Jan. 18, 1932	20.4	-
1906	Mar. 28, 1906	24.5	-	1933	Mar. 19, 1933	26.5	-
1907	Jan. 21, 1907	25.3	-	1934	Mar. 6, 1934	15.8	-
	Mar. 14, 1907	32.0	-	1935	Aug. 9, 1935	33.6	-
1908	Mar. 6, 1908	28.8	-				
1909	Feb. 25, 1909	26.0	-	1936	Feb. 28, 1936	23.7	-
1910	Jan. 19, 1910	29.0	-	1937	Jan. 25, 1937	37.6	-

Peak stages and discharges of Muskingum River at Zanesville, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Apr. 10, 1938	22.9	-	1951	Dec. 8, 1950	23.06	50,000
1939	Mar. 15, 1939	20.6	-	1952	Jan. 27, 1952	29.6	80,900
1940	Apr. 20, 1940	27.57	53,500	1953	May 24, 1953	-	15,700
				1954	Mar. 31, 1954	15.40	21,200
1941	Dec. 31, 1940	18.10	28,900	1955	Mar. 5, 1955	21.4	42,600
1942	Apr. 10, 1942	19.65	34,200				
1943	Mar. 20, 1943	26.43	55,000	1956	May 28, 1956	19.5	-
1944	Mar. 7, 1944	20.63	38,100	1957	Apr. 5, 1957	22.0	-
1945	Mar. 7, 1945	29.10	68,500	1958	May 5, 1958	20.7	-
				1959	Jan. 22, 1959	30.7	-
1946	June 19, 1946	20.52	37,700	1960	Mar. 30, 1960	18.1	-
1947	May 26, 1947	19.98	35,700				
1948	Apr. 14, 1948	a24.10	52,000	1961	Mar. 6, 1961	18.29	36,000
1949	Jan. 28, 1949	21.45	42,600				
1950	Jan. 7, 1950	a24.28	50,000				

a Backwater from Moxahala Creek.

1495. Salt Creek near Chandlersville, Ohio

Location.--Lat 39°54'31", long 81°51'36", at highway bridge 1 mile upstream from Buffalo Fork and 2 miles northwest of Chandlersville, Muskingum County.

Drainage area.--75.6 sq mi.

Gage.--Recording. Datum of gage is 681.71 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs. Backwater from downstream materially reduces the accuracy of peak flows.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 7, 1935	13.90	4,280	1942	Apr. 9, 1942	11.47	2,800
				1943	Mar. 19, 1943	12.75	3,530
1936	Feb. 26, 1936	10.72	2,420	1944	Mar. 7, 1944	10.56	2,370
1937	June 21, 1937	14.00	4,350	1945	Mar. 6, 1945	14.24	4,510
1938	Aug. 4, 1938	11.24	2,650				
1939	July 5, 1939	10.99	2,550	1946	June 17, 1946	13.08	3,720
1940	Apr. 19, 1940	15.06	5,240	1947	May 21, 1947	10.91	2,500
1941	Aug. 26, 1941	13.07	3,720				

1500. Muskingum River at McConnelsville, Ohio

Location.--Lat 39°38'40", long 81°51'00", just upstream from dam 7, at McConnelsville, Morgan County, 3½ miles downstream from Oilspring Run.

Drainage area.--7,411 sq mi.

Gage.--Nonrecording prior to Aug. 11, 1926; recording, Aug. 11, 1926, to Sept. 8, 1959; nonrecording, Sept. 9, 1959, to July 18, 1960; recording thereafter. At site half a mile upstream at same datum prior to July 27, 1922, and Sept. 9, 1959, to July 18, 1960. Datum of gage is at elevation of crest of dam, 650.31 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 125,000 cfs.

Bankfull stage.--11 ft.

Historical data.--Gage heights are available for many floods from 1847 to 1913, and are listed in U.S. Geological Survey Water-Supply Paper 869. Because of many changes in dam and adjacent structures it is not possible to estimate discharges. If the records are reliable, and changes in the dam of minor consequence, the order of magnitude of floods for the period 1833 to 1937 is 1913, 1937 (storage affected), 1898, 1884, and 1935.

Remarks.--Flow regulated by 14 flood-control reservoirs (total capacity, 1,539,200 acre-ft, 3,897 sq mi controlled) since 1936 and by Dillon Dam (274,000 acre-ft, 748 sq mi) since December 1960. Only annual peaks are shown.

Peak stages and discharges of Muskingum River at McConnelsville, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 27, 1913	33.5	a270,000	1942	Apr. 10, 1942	7.80	38,400
				1943	Mar. 20, 1943	11.26	67,900
1922	Apr. 16, 1922	11.9	76,600	1944	Mar. 7, 1944	8.12	40,800
1923	May 14, 1923	7.9	37,700	1945	Mar. 7, 1945	13.50	83,800
1924	Mar. 30, 1924	11.00	65,500				
1925	Feb. 24, 1925	6.8	26,600	1946	June 19, 1946	8.15	42,600
				1947	Feb. 1, 1947	7.69	38,800
1926	Feb. 27, 1926	7.8	36,800	1948	Apr. 14, 1948	11.19	56,600
1927	Mar. 23, 1927	11.8	75,600	1949	Jan. 29, 1949	9.63	44,500
1928	Dec. 16, 1927	10.8	63,900	1950	Jan. 7, 1950	10.84	53,500
1929	Feb. 28, 1929	11.7	74,600				
1930	Jan. 15, 1930	10.7	64,600	1951	Dec. 8, 1950	10.36	50,500
				1952	Jan. 28, 1952	14.52	82,800
1931	Apr. 4, 1931	6.06	24,800	1953	May 24, 1953	5.20	16,100
1932	Jan. 19, 1932	8.24	40,700	1954	Mar. 31, 1954	6.15	21,800
1933	Mar. 19, 1933	12.29	75,100	1955	Mar. 5, 1955	10.32	47,900
1934	Mar. 6, 1934	5.77	23,000				
1935	Aug. 9, 1935	17.0	104,000	1956	May 28, 1956	8.57	35,400
				1957	Apr. 5, 1957	9.72	43,200
1936	Feb. 27, 1936	10.7	63,100	1958	May 5, 1958	9.29	40,300
1937	Jan. 26, 1937	21.14	126,000	1959	Jan. 23, 1959	14.38	81,600
1938	Apr. 10, 1938	9.28	53,000	1960	Mar. 30, 1960	8.95	30,000
1939	Mar. 15, 1939	7.93	39,600				
1940	Apr. 20, 1940	12.73	78,600	1961	Mar. 8, 1961	9.36	36,400
1941	Dec. 31, 1940	6.61	29,800				

a Computed by Corps of Engineers.

1501. Bell Creek at McConnelsville, Ohio

Location.--Lat 39°38'55", long 81°50'35", at culvert on State Highway 77 at east edge of McConnelsville, Morgan County, 0.2 mile upstream from mouth.

Drainage area.--0.97 sq mi. Length of main stream, 1.34 miles; average slope main stream, 189 ft per mile; average slope main stream and tributaries, 212 ft per mile; slope at gage, 105 ft per mile; length divided by average width of basin, 1.85.

Gage.--Recording. Altitude of gage is 665 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 62 cfs and by indirect measurements up to 1,190 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 19, 1947	4.38	424	1955	Aug. 11, 1955	3.96	334
1948	July 21, 1948	4.08	364				
				1956	May 12, 1956	4.51	444
1950	July 5, 1950	4.66	474	1957	Apr. 17, 1957	3.14	135
				1958	Aug. 16, 1958	4.27	360
1951	July 14, 1951	3.67	277	1959	Jan. 21, 1959	3.37	207
1952	Jan. 26, 1952	2.86	152	1960	Feb. 10, 1960	2.42	61
1953	June 21, 1953	7.84	1,190				
1954	June 16, 1954	2.25	80	1961	May 8, 1961	5.60	680

1510. Ohio River at Parkersburg, W. Va.

Location.--Lat 39°16'05", long 81°33'50", on left bank on downstream side of bridge on U.S. Highway 50 at Parkersburg, Wood County, 0.3 mile upstream from Little Kanawha River, and at mile 184.4.

Drainage area.--35,600 sq mi, approximately.

Gage.--Nonrecording prior to July 13, 1942; recording thereafter. At site 0.3 mile downstream at mouth of Little Kanawha River at practically same datum prior to Apr. 25, 1950. Datum of gage is 562.01 ft above mean sea level, Sandy Hook datum. Auxiliary gage, nonrecording prior to July 13, 1942; combination recording and nonrecording July 13, 1942, to Nov. 12, 1948; recording thereafter. Prior to Nov. 12, 1948, at lock 18, 0.4 mile upstream from present site at different datum. Datum of gage same as base gage.

Stage-discharge relation.--Expressed as a unit fall rating with an adjustment or factor curve, defined by adjusted current-meter measurements below 400,000 cfs (48 ft gage height).

Bankfull stage.--35 ft.

Remarks.--Flow partly regulated by reservoirs upstream. Only annual peaks are shown. Peak stage usually occurs at different time than peak discharge. Records for period 1925 to 1939 were furnished by U.S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 29, 1913	58.9	593,000	1943	Jan. 1, 1943	49.03	440,000
				1944	Mar. 25, 1944	27.23	199,000
1925a/	Mar. 22, 1925	19.2	-	1945	Mar. 8, 1945	48.45	439,000
1926	Feb. 28, 1926	28.0	-	1946	May 30, 1946	29.80	250,000
1927	Jan. 24, 1927	45.5	-	1947	June 9, 1947	27.64	206,000
1928	Dec. 17, 1927	41.9	-	1948	Apr. 16, 1948	47.87	393,000
1929	Mar. 1, 1929	34.3	-	1949	Jan. 28, 1949	35.14	278,000
1930	Feb. 28, 1930	31.6	-	1950	Jan. 8, 1950	33.67	262,000
1931	Apr. 5, 1931	30.7	-	1951	Dec. 6, 1950	39.13	327,000
1932	Apr. 3, 1932	27.3	-	1952	Jan. 29, 1952	43.82	408,000
1933	Mar. 17, 1933	42.4	-	1953	Mar. 27, 1953	21.71	148,000
1934	Mar. 8, 1934	27.5	-	1954	Mar. 5, 1954	23.37	165,000
1935	Mar. 14, 1935	33.1	-	1955	Oct. 18, 1954	38.25	322,000
1936	Mar. 20, 1936	48.0	-	1956	Mar. 10, 1956	36.01	289,000
1937	Jan. 26, 1937	55.4	-	1957	Apr. 6, 1957	30.24	244,000
1938	Dec. 21, 1937	34.6	-	1958	May 9, 1958	33.51	224,000
1939	Apr. 19, 1939	34.6	-	1959	Jan. 24, 1959	40.90	364,000
1940a/	Apr. 22, 1940	44.8	371,000	1960	Apr. 2, 1960	34.64	286,000
1941	June 7, 1941	29.5	214,000	1961	Mar. 6, 1961	31.04	225,000
1942	Apr. 12, 1942	32.3	257,000				

a Partial year.

LITTLE KANAWHA RIVER BASIN

1515. Little Kanawha River near Burnsville, W. Va.

Location.--Lat 38°49'25", long 80°35'35", on left bank at downstream side of bridge on State Highway 5, 0.1 mile downstream from Knawl Creek and 4 miles southeast of Burnsville, Braxton County.

Drainage area.--155 sq mi.

Gage.--Nonrecording prior to Feb. 26, 1940; recording thereafter. At site 100 ft upstream at same datum prior to Feb. 26, 1940. Datum of gage is 756.09 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Little Kanawha River near Burnsville, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	March 1918	19.7	9,800
1938a/	May 21, 1938	11.04	3,600
1939	Jan. 30, 1939	10.30	3,250
	Feb. 3, 1939	19.04	9,200
	Mar. 5, 1939	10.40	3,300
	Apr. 16, 1939	18.30	8,680
1940	Apr. 20, 1940	10.85	3,500
	May 25, 1940	9.80	3,000
	May 31, 1940	10.74	3,450
	June 18, 1940	12.96	4,850
1941	Apr. 5, 1941	10.64	3,400
	May 18, 1941	10.85	3,500
	July 4, 1941	14.56	5,920
1942	Aug. 24, 1942	14.47	5,400
1943	Dec. 23, 1942	10.88	3,150
	Mar. 20, 1943	11.54	3,480
	July 30, 1943	17.62	7,370
	Aug. 5, 1943	17.47	7,290
1944	Feb. 23, 1944	14.55	5,130
	June 23, 1944	11.25	3,540
1945	Dec. 26, 1944	14.59	5,670
	Dec. 28, 1944	10.39	3,140
	Jan. 1, 1945	14.20	5,390
	Feb. 28, 1945	12.27	4,180
	Mar. 3, 1945	10.15	3,040
	July 30, 1945	10.41	3,140
	Sept.18, 1945	10.76	3,340
1946	Nov. 15, 1945	10.05	2,960
1947	Mar. 25, 1947	9.06	2,390
1948	Feb. 14, 1948	14.45	5,040
	Feb. 26, 1948	11.94	3,770
	Mar. 24, 1948	13.97	4,820
	Apr. 13, 1948	13.42	4,520
	May 3, 1948	11.27	3,470
	July 22, 1948	12.94	4,270
	Sept.22, 1948	13.21	4,420
1949	Dec. 17, 1948	13.95	4,820
	Jan. 24, 1949	10.76	3,220
	Jan. 28, 1949	10.88	3,270
1949	Feb. 16, 1949	13.14	4,370
	Aug. 16, 1949	14.68	5,200
1950	Dec. 13, 1949	11.04	3,320
	Jan. 31, 1950	14.3	4,980
	Mar. 13, 1950	11.58	3,620
	Apr. 24, 1950	11.98	3,820
	May 28, 1950	11.02	3,320
	June 4, 1950	14.5	4,590
	June 25, 1950	18.4	6,710
	Sept. 2, 1950	14.2	4,440
1951	Dec. 4, 1950	16.05	5,390
	Feb. 1, 1951	15.80	5,280
	Mar. 7, 1951	11.78	3,240
1952	Jan. 5, 1952	10.88	3,090
	Jan. 27, 1952	15.26	5,220
1953	May 20, 1953	10.70	3,000
1954	July 19, 1954	17.32	6,250
	July 21, 1954	14.35	4,780
1955	Oct. 16, 1954	16.98	6,090
	Dec. 30, 1954	11.30	3,280
	Feb. 7, 1955	14.68	4,920
	May 5, 1955	12.84	3,990
1956	Jan. 30, 1956	12.93	3,410
	Mar. 14, 1956	13.41	3,600
	May 28, 1956	15.08	4,240
	June 1, 1956	14.26	3,930
	Aug. 6, 1956	12.87	3,410
1957	Dec. 14, 1956	13.85	3,750
	Jan. 29, 1957	17.70	5,280
	Feb. 2, 1957	11.87	3,060
	Feb. 10, 1957	16.60	4,830
1958	July 23, 1958	16.52	4,790
	Aug. 4, 1958	16.31	4,710
	Aug. 8, 1958	17.08	5,030
1959	Jan. 22, 1959	11.95	3,230
1960	Nov. 28, 1959	14.54	4,250
1961	June 10, 1961	13.26	3,650
	Aug. 12, 1961	13.89	3,900

a Partial year; annual peak probably occurred October 1937.

1520. Little Kanawha River at Glenville, W. Va.

Location.--Lat 38°56'00", long 80°50'20", on right bank at highway bridge at Glenville, Gilmer County, 1,000 ft upstream from Sycamore Run.

Drainage area.--386 sq mi.

Gage.--Nonrecording prior to Dec. 13, 1934; recording thereafter. At site 300 ft upstream at same datum prior to Dec. 13, 1934. Datum of gage is 697.79 ft above mean sea level, adjustment of 1912. Auxiliary nonrecording gage 2.7 miles downstream at datum 2.44 ft higher.

Stage-discharge relation.--Expressed by a free-fall rating defined by adjusted current-meter measurements below 17,000 cfs. Affected by backwater from downstream tributaries.

Bankfull stage.--22 ft.

Remarks.--Base for partial-duration series, 6,700 cfs. All peaks prior to 1929 obtained from U.S. Weather Bureau records.

Peak stages and discharges of Little Kanawha River at Glenville, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1911a/	Jan. 30, 1911	22.6	-
1912	July 22, 1912	19.1	-
1913	Mar. 27, 1913	22.5	-
1914	Nov. 16, 1913	25.5	-
1915	Jan. 12, 1915	22.5	-
1916	Jan. 12, 1916	28.2	-
1917	Jan. 22, 1917	28.5	-
1918	Mar. 13, 1918	32.9	-
1919	Jan. 2, 1919	27.4	-
1920	Dec. 7, 1919	23.9	-
	July 25, 1920	23.9	-
1921	June 19, 1921	13.8	-
1922	Dec. 24, 1921	26.4	-
1923	Feb. 2, 1923	23.8	-
1924	May 12, 1924	29.7	-
1925	May 12, 1925	22.5	-
1926	Jan. 22, 1926	23.3	-
1927	Nov. 16, 1926	33.6	-
1928	June 30, 1928	19.6	-
1929	Feb. 26, 1929	23.3	8,560
	Mar. 6, 1929	23.90	8,830
1930	Oct. 3, 1929	26.0	9,790
	Nov. 18, 1929	22.3	8,100
1931	Aug. 22, 1931	18.0	6,180
1932	Jan. 30, 1932	26.0	9,790
	Feb. 5, 1932	27.8	10,600
	Mar. 18, 1932	25.0	9,330
	Mar. 28, 1932	24.8	9,240
1933	Mar. 15, 1933	20.4	7,230
	Mar. 19, 1933	21.74	7,830
	May 12, 1933	20.0	7,060
1934	Jan. 7, 1934	23.85	8,790
	Mar. 3, 1934	23.0	8,410
1935	Jan. 21, 1935	19.53	7,720
	Mar. 12, 1935	25.81	11,400
	May 7, 1935	20.21	8,100
	May 15, 1935	20.46	8,260
	May 22, 1935	17.76	6,780
	Aug. 8, 1935	28.3	12,900
1936	Jan. 3, 1936	24.08	10,400
	Feb. 5, 1936	19.57	7,770
	Feb. 15, 1936	23.86	10,200
	Mar. 17, 1936	24.58	10,600
	Mar. 25, 1936	24.64	10,600
	Apr. 6, 1936	23.40	9,930
1937	Jan. 23, 1937	25.10	11,000
	Feb. 8, 1937	22.45	7,330
	June 22, 1937	27.78	12,600
1938	Oct. 28, 1937	28.12	12,800
	Dec. 18, 1937	19.23	7,600
	May 20, 1938	21.48	8,880
1939	Jan. 30, 1939	18.60	7,190
	Feb. 4, 1939	29.63	16,000
	Mar. 5, 1939	20.77	8,640
	Mar. 13, 1939	18.35	7,070
	Apr. 16, 1939	33.22	20,400
1940	Mar. 31, 1940	23.60	10,700
	Apr. 20, 1940	22.49	9,830
	May 31, 1940	19.25	7,560
	June 19, 1940	21.75	9,340
1941	Mar. 11, 1941	18.63	6,100
1942	Aug. 24, 1942	19.60	7,720
1943	Dec. 23, 1942	18.96	6,900
	Dec. 30, 1942	22.15	8,400
	Mar. 20, 1943	25.50	10,300
	July 30, 1943	20.68	8,900
	Aug. 5, 1943	30.73	17,300
1944	Feb. 23, 1944	25.76	10,700
1945	Oct. 21, 1944	22.14	7,800
	Dec. 26, 1944	27.12	12,300
	Jan. 2, 1945	25.42	12,000
	Feb. 27, 1945	22.52	8,140
	Mar. 3, 1945	20.58	7,290
	Sept.18, 1945	18.56	7,230
1946	Mar. 20, 1946	21.50	8,690
1947	June 8, 1947	18.19	5,410
1948	Feb. 14, 1948	28.28	11,200
	Mar. 24, 1948	21.08	8,550
	Apr. 13, 1948	27.27	11,300
	July 23, 1948	18.83	6,950
1949	Dec. 16, 1948	28.84	11,200
	Jan. 25, 1949	20.03	7,100
	Jan. 27, 1949	20.40	8,200
	Feb. 16, 1949	18.53	6,900
1950	Nov. 29, 1949	21.49	7,500
	Dec. 13, 1949	23.00	8,800
	Feb. 1, 1950	27.03	11,500
	Mar. 13, 1950	18.38	6,700
	May 29, 1950	19.38	8,100
	June 4, 1950	24.9	9,700
	June 25, 1950	31.10	12,500
1951	Nov. 4, 1950	21.8	10,200
	Dec. 4, 1950	28.84	14,600
	Feb. 1, 1951	31.15	18,200
	Mar. 7, 1951	20.74	8,200
1952	Jan. 28, 1952	25.2	10,400
1953	Jan. 9, 1953	16.20	4,380
1954	July 19, 1954	24.68	10,600
	July 22, 1954	24.52	9,600
	Aug. 6, 1954	17.48	6,750
1955	Oct. 16, 1954	28.22	10,600
	Dec. 30, 1954	22.22	7,850
	Feb. 7, 1955	24.38	7,900
	Mar. 5, 1955	20.92	7,270
1956	Jan. 30, 1956	23.38	8,850
	Feb. 3, 1956	18.95	6,790
	Feb. 18, 1956	21.96	7,800
	Mar. 14, 1956	23.75	8,750
	May 28, 1956	20.49	7,480
	June 1, 1956	21.88	8,400
1957	Dec. 15, 1956	29.17	11,600
	Jan. 30, 1957	22.10	8,600
	Feb. 10, 1957	30.15	12,800
1958	Dec. 26, 1957	19.50	7,030
	Jan. 25, 1958	19.18	6,790
	July 24, 1958	28.45	11,900
	Aug. 9, 1958	26.67	11,600
1959	Jan. 22, 1959	17.86	5,700
1960	Jan. 15, 1960	20.22	6,510
1961	Mar. 5, 1961	19.25	7,060

a Partial year.

1525. Leading Creek near Glenville, W. Va.

Location.--Lat 38°57'45", long 80°52'00", on left bank 500 ft upstream from Big Run, 1.4 miles upstream from mouth, and 2¾ miles northwest of Glenville, Gilmer County.

Drainage area.--144 sq mi.

Gage.--Nonrecording prior to Nov. 7, 1945; recording thereafter. At site 200 ft downstream at same datum prior to Nov. 7, 1945. Auxiliary nonrecording gage 1.4 miles downstream at same datum. Datum of gage is 700.23 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Expressed by a unit fall method defined by adjusted current-meter measurements below 8,500 cfs. Affected by backwater from Little Kanawha River.

Remarks.--Base for partial-duration series, 4,200 cfs. Peak stages often occur at different time than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938a/	May 22, 1938	15.3	2,600	1946	Mar. 15, 1946	12.90	4,200
					May 27, 1946	14.8	5,160
1939	Feb. 4, 1939	22.6	5,500				
	Mar. 5, 1939	15.70	5,050	1947	June 8, 1947	17.13	6,840
	Apr. 16, 1939	28.3	9,000				
				1948	Feb. 14, 1948	24.10	6,900
1940	Mar. 31, 1940	18.75	4,500		Apr. 12, 1948	22.70	8,000
					July 22, 1948	17.39	6,000
1941	June 4, 1941	19.10	7,190				
				1949	Dec. 15, 1948	25.28	9,000
1942	Mar. 8, 1942	13.4	2,850		Aug. 16, 1949	17.13	5,900
1943	Dec. 30, 1942	11.70	5,370	1950	Nov. 29, 1949	17.22	4,600
	Mar. 20, 1943	20.55	4,310		Dec. 13, 1949	19.19	5,500
					Jan. 30, 1950	17.25	5,500
1944	Feb. 23, 1944	20.60	4,200		June 4, 1950	20.53	5,200
					June 25, 1950	28.63	12,100
1945	Dec. 25, 1944	22.0	6,200				
	Jan. 2, 1945	20.80	4,300	1951	Dec. 4, 1950	23.64	6,300
	Feb. 27, 1945	20.90	7,150		Dec. 8, 1950	16.43	4,500
	Mar. 7, 1945	18.90	5,900		Jan. 15, 1951	16.32	4,300
	Aug. 24, 1945	9.30	5,300		Feb. 1, 1951	26.59	8,500
					June 13, 1951	14.60	4,240
1946	Feb. 14, 1946	16.98	4,930				

a Partial year, probably annual peak.

1530. Steer Creek near Grantsville, W. Va.

Location.--Lat 38°51'45", long 81°02'05", on right bank at downstream side of highway bridge, 500 ft upstream from Rush Run, 2.2 miles upstream from mouth, and 5.5 miles southeast of Grantsville, Calhoun County.

Drainage area.--166 sq mi.

Gage.--Nonrecording prior to Feb. 25, 1940; recording thereafter. Datum of gage is 678.00 ft above mean sea level, adjustment of 1912. Auxiliary nonrecording gage since June 17, 1941, at site 1 mile downstream at same datum.

Stage-discharge relation.--Expressed by a free-fall rating defined by adjusted current-meter measurements below 9,700 cfs. Affected by backwater from Little Kanawha River.

Remarks.--Only annual peaks are shown. Peak discharge often occurs at different time than peak discharge.

Peak stages and discharges of Steer Creek near Grantsville, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938a/	May 21, 1938	15.26	4,090	1951	Feb. 1, 1951	24.32	9,700
1939	Apr. 16, 1939	28.15	12,400	1952	Jan. 28, 1952	18.11	5,680
1940	Mar. 31, 1940	17.33	6,460	1953	Jan. 8, 1953	10.45	2,540
				1954	July 21, 1954	20.54	9,400
1941	Mar. 11, 1941	11.76	3,350	1955	Oct. 16, 1954	22.99	9,270
1942	Aug. 24, 1942	15.41	5,830				
1943	Mar. 19, 1943	19.92	8,620	1956	Mar. 14, 1956	18.52	7,260
1944	Feb. 23, 1944	19.27	6,950	1957	Dec. 14, 1956	22.92	11,000
1945	Dec. 26, 1944	19.40	6,560	1958	Aug. 9, 1958	23.76	7,610
				1959	Jan. 20, 1959	b12.43	2,940
1946	Feb. 14, 1946	14.52	4,130	1960	Mar. 31, 1960	16.16	6,200
1947	Mar. 25, 1947	8.50	1,640				
1948	Apr. 13, 1948	21.95	7,200	1961	Feb. 25, 1961	14.47	4,860
1949	Dec. 15, 1948	20.62	7,900				
1950	Jan. 31, 1950	20.39	6,850				

a Partial year.
b Occurred Jan. 22, 1959.

1535. Little Kanawha River at Grantsville, W. Va.

Location.--Lat 38°55'20", long 81°05'50", on left bank at downstream side of bridge on State Highway 16 at Grantsville, Calhoun County, 1,200 ft downstream from Philip Run.

Drainage area.--913 sq mi.

Gage.--Nonrecording gage prior to Nov. 21, 1934; recording thereafter. Datum of gage is 652.83 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs.

Remarks.--Base for partial-duration series 13,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 26, 1929	30.2	18,900	1936	Mar. 18, 1936	31.75	20,500
	Mar. 5, 1929	29.3	18,000		Mar. 25, 1936	30.50	19,200
					Apr. 6, 1936	31.85	20,500
1930	Oct. 3, 1929	24.8	13,800				
	Nov. 4, 1929	26.0	14,900	1937	Jan. 11, 1937	24.52	14,100
	Nov. 18, 1929	27.42	16,100		Jan. 18, 1937	26.5	16,100
	Dec. 28, 1929	25.0	13,700		Jan. 23, 1937	33.4	23,300
	Feb. 5, 1930	25.0	13,700		Feb. 9, 1937	28.00	17,600
					June 22, 1937	30.12	19,700
1931	Aug. 22, 1931	22.84	11,600				
				1938	Oct. 29, 1937	32.12	21,900
1932	Jan. 30, 1932	36.5	25,500		Dec. 19, 1937	24.50	14,100
	Feb. 5, 1932	33.0	21,700		May 21, 1938	30.02	19,600
	Mar. 17, 1932	30.0	18,700				
	Mar. 28, 1932	30.7	19,400	1939	Jan. 30, 1939	25.73	15,300
					Feb. 4, 1939	37.03	27,300
1933	Jan. 22, 1933	25.0	14,000		Feb. 11, 1939	23.55	13,200
	Jan. 26, 1933	25.5	14,400		Mar. 6, 1939	28.54	18,100
	Feb. 15, 1933	30.38	19,100		Mar. 13, 1939	26.00	15,600
	Mar. 15, 1933	26.5	15,400		Apr. 17, 1939	43.10	34,300
	Mar. 19, 1933	28.3	17,100				
	May 12, 1933	25.8	14,700	1940	Feb. 19, 1940	24.33	13,500
					Mar. 31, 1940	30.28	19,900
1934	Dec. 18, 1933	a25.0	14,000		Apr. 20, 1940	31.18	20,900
	Jan. 8, 1934	31.0	19,700		June 18, 1940	25.13	14,300
	Mar. 4, 1934	29.6	18,300				
	Mar. 28, 1934	25.2	14,100	1941	June 4, 1941	25.50	14,700
1935	Jan. 21, 1935	25.58	14,500	1942	Mar. 8, 1942	25.45	14,600
	Mar. 12, 1935	33.53	22,200				
	Apr. 8, 1935	24.55	13,600	1943	Dec. 23, 1942	25.05	14,000
	May 7, 1935	28.45	17,200		Dec. 30, 1942	31.58	20,300
	May 15, 1935	27.25	16,000		Feb. 1, 1943	25.59	14,500
	May 21, 1935	24.86	13,900		Mar. 20, 1943	34.18	22,900
	Aug. 8, 1935	34.69	23,400		Apr. 20, 1943	28.25	17,000
					Aug. 5, 1943	34.95	23,700
1936	Dec. 15, 1935	a25.0	14,000				
	Jan. 3, 1936	29.4	18,100	1944	Feb. 23, 1944	32.46	21,200
	Feb. 15, 1936	30.35	19,100		Mar. 20, 1944	24.90	13,900

a Estimated.

Peak stages and discharges of Little Kanawha River at Grantsville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Oct. 21, 1944	26.65	15,500	1952	Jan. 28, 1952	32.07	20,800
	Dec. 26, 1944	34.83	23,500		May 21, 1952	24.08	13,100
	Jan. 1, 1945	33.42	22,100				
	Feb. 27, 1945	32.10	20,800	1953	Jan. 9, 1953	22.63	11,700
	Mar. 3, 1945	28.0	16,800				
	Mar. 7, 1945	28.45	17,200	1954	July 21, 1954	30.65	19,300
	Mar. 22, 1945	25.80	14,700				
				1955	Oct. 16, 1954	34.35	23,100
1946	Jan. 8, 1946	24.4	13,400		Dec. 30, 1954	28.57	17,400
	Feb. 14, 1946	27.90	16,700		Feb. 7, 1955	31.15	19,900
	Mar. 20, 1946	26.69	15,600		Feb. 28, 1955	26.18	15,100
					Mar. 6, 1955	29.15	17,900
1947	June 9, 1947	21.68	10,800		Mar. 16, 1955	24.14	13,100
1948	Feb. 14, 1948	34.96	23,700	1956	Jan. 30, 1956	28.42	17,200
	Feb. 27, 1948	24.03	13,000		Feb. 3, 1956	25.12	14,000
	Mar. 25, 1948	24.42	13,400		Feb. 19, 1956	30.50	19,200
	Apr. 13, 1948	36.84	25,500		Mar. 8, 1956	27.40	16,200
	July 23, 1948	24.20	13,200		Mar. 15, 1956	30.64	19,300
					Mar. 29, 1956	24.39	13,400
1949	Dec. 15, 1948	39.5	28,400		June 2, 1956	26.54	15,400
	Jan. 27, 1949	26.50	15,400				
	Feb. 16, 1949	24.48	13,500	1957	Dec. 15, 1956	36.42	25,100
	Apr. 14, 1949	24.95	14,000		Jan. 30, 1957	27.18	16,000
					Feb. 10, 1957	36.28	25,000
1950	Nov. 29, 1949	25.32	14,200				
	Dec. 14, 1949	29.15	17,900	1958	Dec. 27, 1957	25.87	14,600
	Feb. 1, 1950	35.95	24,700		Jan. 25, 1958	27.54	16,200
	Mar. 13, 1950	24.05	13,000		Feb. 7, 1958	25.43	14,100
	May 29, 1950	25.45	14,300		May 8, 1958	27.15	15,900
	June 4, 1950	30.55	19,300		July 24, 1958	31.28	20,000
	June 26, 1950	30.70	19,400		Aug. 4, 1958	24.90	13,600
					Aug. 9, 1958	34.90	23,600
1951	Nov. 5, 1950	26.02	14,900				
	Dec. 4, 1950	36.12	24,800	1959	Jan. 22, 1959	25.04	13,700
	Dec. 8, 1950	26.17	15,100				
	Jan. 15, 1951	27.76	16,600	1960	Jan. 15, 1960	26.91	15,600
	Feb. 2, 1951	39.47	28,400		Mar. 31, 1960	25.12	13,800
	Mar. 8, 1951	24.87	13,900				
				1961	Feb. 26, 1961	24.48	13,200
1952	Dec. 21, 1951	24.00	13,000		Mar. 5, 1961	25.53	14,200
	Jan. 5, 1952	24.27	13,300				

1540. West Fork Little Kanawha River at Rocksdale, W. Va.

Location.--Lat 38°50'35", long 81°13'20", near center of span on downstream side of highway bridge, 50 ft downstream from Henry Fork at Rocksdale, Calhoun County, and 9 miles southwest of Grantsville.

Drainage area.--205 sq mi.

Gage.--Nonrecording and crest-stage gages. Datum of gage is 657.85 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 26, 1929	18.42	5,970	1939	Jan. 30, 1939	19.8	7,220
	Mar. 5, 1929	16.62	4,620		Feb. 3, 1939	26.31	14,500
	May 7, 1929	15.8	4,080		Feb. 11, 1939	16.15	4,340
	May 19, 1929	15.8	4,080		Mar. 5, 1939	21.30	8,700
					Mar. 13, 1939	17.97	5,650
1930	Oct. 2, 1929	18.0	5,650		Apr. 16, 1939	30.3	20,200
	Nov. 3, 1929	16.8	4,760				
	Nov. 18, 1929	20.57	8,000	1940	Feb. 19, 1940	17.5	5,250
	Feb. 5, 1930	16.4	4,480		Mar. 4, 1940	15.3	3,780
	Mar. 7, 1930	15.0	3,600		Mar. 31, 1940	19.0	6,050
					Apr. 19, 1940	18.4	5,970
1931	Apr. 1, 1931	19.30	6,770				
				1941	Mar. 11, 1941	15.6	3,810
1938a/	May 20, 1938	22.27	8,480				

a Partial year.

Peak stages and discharges of West Fork Little Kanawha River at Rocksdale, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 8, 1942	16.7	4,690
	Aug. 24, 1942	21.70	9,100
1943	Nov. 23, 1942	15.1	3,660
	Dec. 2, 1942	17.3	5,110
	Dec. 23, 1942	17.2	5,040
	Dec. 30, 1942	25.02	12,800
	Feb. 1, 1943	14.9	3,540
	Mar. 7, 1943	14.9	3,540
	Mar. 13, 1943	16.1	4,270
	Mar. 19, 1943	24.65	12,300
	Apr. 19, 1943	22.2	9,620
	July 29, 1943	16.9	4,830
1944	Jan. 3, 1944	16.9	4,830
	Feb. 23, 1944	22.9	10,400
	Mar. 20, 1944	17.8	5,490
	Apr. 12, 1944	17.0	4,900
1945	Oct. 21, 1944	16.85	4,760
	Dec. 26, 1944	23.3	10,800
	Jan. 1, 1945	23.2	10,700
	Feb. 27, 1945	19.9	7,310
	Mar. 3, 1945	17.8	5,490
	Mar. 6, 1945	17.5	5,250
	Mar. 22, 1945	15.3	3,780
1946	Jan. 6, 1946	16.4	4,480
	Feb. 14, 1946	18.7	6,230
	Mar. 15, 1946	17.2	5,040
	Mar. 19, 1946	16.27	4,410
	May 27, 1946	15.4	3,840
	June 20, 1946	15.6	3,960
1947	Mar. 25, 1947	13.30	2,690
1948	Feb. 14, 1948	21.8	9,200
	Feb. 28, 1948	15.1	3,660
	Apr. 13, 1948	23.05	10,500
1949	Dec. 15, 1948	24.22	11,800
	Jan. 28, 1949	15.00	3,600
	Feb. 16, 1949	17.3	5,110
	Apr. 14, 1949	20.8	8,200
1950	Nov. 28, 1949	15.3	3,780
	Jan. 5, 1950	15.3	3,780
	Jan. 31, 1950	23.7	11,300
	Mar. 13, 1950	15.4	3,840
	May 28, 1950	16.4	4,480
	June 4, 1950	22.4	9,840
	June 17, 1950	23.3	10,800
1951	Nov. 4, 1950	17.4	5,180
1951	Dec. 3, 1950	23.57	11,200
	Jan. 15, 1951	20.6	8,000
	Feb. 1, 1951	28.6	17,600
	Feb. 21, 1951	16.4	4,380
1952	Dec. 15, 1951	18.8	6,320
	Dec. 21, 1951	18.0	5,650
	Jan. 2, 1952	16.0	4,200
	Jan. 5, 1952	16.7	4,690
	Jan. 28, 1952	20.35	7,800
	Mar. 23, 1952	15.4	3,740
	May 20, 1952	16.6	4,520
1953	Jan. 8, 1953	15.9	4,040
	June 17, 1953	23.38	14,600
1954	Mar. 1, 1954	14.65	3,280
1955	Oct. 15, 1954	23.55	11,200
	Dec. 30, 1954	19.17	5,040
	Feb. 7, 1955	18.8	4,780
	Feb. 27, 1955	23.2	8,400
	Mar. 6, 1955	22.0	7,200
	Mar. 16, 1955	22.40	7,600
1956	Jan. 30, 1956	17.75	4,200
	Feb. 18, 1956	24.40	9,680
	Mar. 8, 1956	19.40	5,180
	Mar. 14, 1956	23.30	8,500
	Mar. 29, 1956	16.40	3,600
1957	Dec. 14, 1956	27.05	13,000
	Jan. 23, 1957	16.40	3,500
	Jan. 29, 1957	17.38	4,000
	Feb. 2, 1957	16.83	3,700
	Feb. 10, 1957	23.88	9,100
1958	Dec. 8, 1957	16.39	3,500
	Jan. 22, 1958	16.40	3,500
	Jan. 25, 1958	20.96	6,400
	Feb. 7, 1958	18.03	4,300
	Apr. 28, 1958	16.90	3,750
	May 7, 1958	20.43	5,920
	Aug. 4, 1958	18.68	4,720
	Aug. 9, 1958	24.15	9,440
1959	Jan. 22, 1959	17.14	3,850
1960	Jan. 3, 1960	17.90	4,250
	Jan. 15, 1960	19.55	5,320
1961	Feb. 26, 1961	20.10	5,680
	Mar. 4, 1961	17.56	4,100
	July 3, 1961	17.69	4,150

1541. Little Kanawha River at Creston, W. Va.

Location.--Lat 38°56'50", long 81°16'20", on highway bridge over the West Fork of the Little Kanawha River at Creston, Wirt County, 300 ft upstream from mouth.

Drainage area.--1,263 sq mi.

Gage.--Nonrecording. Datum of gage is 621.71 ft above mean sea level, adjustment of 1903.

Bankfull stage.--15 ft.

Remarks.--Records furnished by U.S. Weather Bureau. Only annual peaks are shown.

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Peak stages and discharges of Little Kanawha River at Creston, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911a/	Jan. 30, 1911	b19.5	-	1937	Jan. 23, 1937	22.80	-
1912	Feb. 27, 1912	b16.0	-	1938	Oct. 28, 1937	20.7	-
1913	Mar. 28, 1913	20.4	-	1939	Apr. 17, 1939	33.2	-
1914	Nov. 17, 1913	23.1	-	1940	Apr. 20, 1940	21.45	-
1915	Dec. 22, 1914	18.2	-				
				1941	June 5, 1941	15.40	-
1916	Jan. 12, 1916	24.0	-	1942	Mar. 8, 1942	17.37	-
1917	Jan. 22, 1917	24.1	-	1943	Dec. 30, 1942	23.75	-
1918	Mar. 14, 1918	32.0	-	1944	Feb. 23, 1944	20.65	-
1919	Jan. 2, 1919	24.6	-	1945	Dec. 27, 1944	22.80	-
1920	Jan. 23, 1920	19.7	-				
				1946	Feb. 14, 1946	18.00	-
1921	Mar. 4, 1921	12.3	-	1947	Mar. 26, 1947	11.40	-
1922	Dec. 24, 1921	21.0	-	1948	Apr. 14, 1948	26.9	-
1923	Feb. 2, 1923	19.4	-	1949	Dec. 16, 1948	24.6	-
1924	May 13, 1924	23.4	-	1950	Feb. 1, 1950	25.0	-
1925	May 12, 1925	15.4	-				
				1951	Feb. 2, 1951	27.2	-
1926	Jan. 22, 1926	17.3	-	1952	Jan. 28, 1952	21.00	-
1927	Nov. 17, 1926	23.7	-	1953	Jan. 9, 1953	14.0	-
1928	Apr. 30, 1928	b17.5	-	1954	July 22, 1954	17.60	-
1929	Feb. 27, 1929	b18.1	-	1955	Oct. 16, 1954	21.10	-
1930	Nov. 18, 1929	18.0	-				
				1956	Feb. 19, 1956	21.0	-
1931	Apr. 2, 1931	b14.7	-	1957	Dec. 15, 1956	25.5	-
1932	Jan. 30, 1932	22.0	-	1958	Aug. 9, 1958	23.50	-
1933	Mar. 19, 1933	19.1	-	1959	Jan. 22, 1959	17.60	-
1934	Jan. 8, 1934	19.5	-	1960	Jan. 16, 1960	16.65	-
1935	Mar. 12, 1935	23.4	-				
				1961	Feb. 26, 1961	17.85	-
1936	Feb. 15, 1936	23.9	-				

a Partial year.
b Maximum observed.

1545. Reedy Creek near Reedy, W. Va.

Location.--Lat 38°57'40", long 81°23'25", on left bank a quarter of a mile downstream from Roundbottom Run, 1 mile north of Lucile, and 4.5 miles northeast of Reedy, Roane County.

Drainage area.--79.4 sq mi.

Gage.--Recording. Altitude of gage is 650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,700 cfs.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 8, 1951	9.61	2,240	1956	Mar. 8, 1956	11.68	3,630
	Dec. 15, 1951	11.27	3,350		Mar. 14, 1956	12.58	4,260
	Dec. 21, 1951	9.57	2,240				
	Jan. 28, 1952	9.06	1,960	1957	Dec. 14, 1956	14.00	5,240
	Mar. 22, 1952	9.45	2,120		Jan. 10, 1957	8.73	1,760
	May 20, 1952	11.18	3,280		Jan. 23, 1957	8.95	1,910
	June 30, 1952	9.16	2,010		Feb. 2, 1957	8.50	1,660
					Feb. 10, 1957	14.7	5,730
1953	Jan. 8, 1953	9.72	2,300		Apr. 8, 1957	8.74	1,760
	Mar. 3, 1953	9.90	2,420				
	Mar. 24, 1953	9.79	2,360	1958	Nov. 19, 1957	10.92	3,070
	Aug. 9, 1953	9.40	2,120		Dec. 7, 1957	9.64	2,240
					Jan. 22, 1958	8.93	1,860
1954	Mar. 13, 1954	8.48	1,660		Jan. 25, 1958	11.46	3,490
					Feb. 7, 1958	8.75	1,810
1955	Oct. 16, 1954	8.84	1,810		Apr. 29, 1958	8.65	1,710
	Dec. 30, 1954	10.34	2,660		May 5, 1958	10.41	2,720
	Feb. 7, 1955	9.61	2,240		May 7, 1958	10.54	2,790
	Feb. 27, 1955	12.04	3,840		July 24, 1958	10.45	2,720
	Mar. 5, 1955	9.75	2,360		July 29, 1958	9.10	1,960
	Mar. 16, 1955	10.50	2,790		July 31, 1958	8.86	1,860
					Aug. 8, 1958	8.67	1,760
1956	Feb. 2, 1956	9.06	1,960				
	Feb. 18, 1956	11.05	3,140	1959	Jan. 20, 1959	9.95	2,480
	Feb. 25, 1956	10.60	2,860		Apr. 10, 1959	8.76	1,810

Peak stages and discharges of Reedy Creek near Reedy, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Jan. 15, 1960	9.61	2,240	1961	Apr. 1, 1961	10.43	2,720
	Feb. 11, 1960	9.34	2,060		June 10, 1961	8.89	1,860
	Feb. 26, 1960	8.39	1,620		July 20, 1961	10.19	2,600
					Aug. 1, 1961	11.78	3,700
1961	Feb. 26, 1961	8.58	1,710		Aug. 3, 1961	9.35	2,120
	Mar. 5, 1961	10.30	2,660		Aug. 11, 1961	9.72	2,300

1550. Little Kanawha River at Palestine, W. Va.

Location.--Lat 39°03'35", long 81°23'25", on left bank at end of Washington Street in Elizabeth, 1.0 mile upstream from Tucker Creek, 2.3 miles northeast of Palestine, Wirt County, and 2.4 miles upstream from lock 3.

Drainage area.--1,515 sq mi.

Gage.--Nonrecording prior to June 5, 1939, at lock 4 at datum 602.6 ft above mean sea level, adjustment of 1912; combination nonrecording and recording from June 5, 1939, to Feb. 17, 1950, at site 2.4 miles downstream at lock 3 at various datums; recording thereafter. Datum of base gage is 585.51 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944. Auxiliary gage at lock 4, combination of recording and nonrecording at various datums prior to Nov. 21, 1951; recording thereafter. Datum of auxiliary gage is 596.075 ft above mean sea level, adjustment of 1912 and 596.8 ft above mean sea level, Corps of Engineers datum.

Stage-discharge relation.--Expressed as a base rating with an adjustment curve using fall as a factor, defined by adjusted current-meter measurements below 48,000 cfs.

Remarks.--Base for partial-duration series, 13,000 cfs. Only annual peaks are shown prior to 1939, furnished by Corps of Engineers.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	-	a24.4	-	1944	Feb. 23, 1944	19.81	28,200
					Mar. 20, 1944	16.87	19,600
1915b/	June 4, 1915	14.48	-		Apr. 12, 1944	16.77	19,200
1916	Jan. 12, 1916	21.9	-	1945	Oct. 22, 1944	15.84	15,300
1917	Jan. 22, 1917	21.9	-		Dec. 26, 1944	21.93	32,400
1918	Mar. 14, 1918	25.8	-		Jan. 2, 1945	21.50	31,900
1919	Jan. 2, 1919	22.2	-		Feb. 27, 1945	22.7	32,100
1920	Jan. 23, 1920	19.3	-		Mar. 3, 1945	21.0	22,900
					Mar. 7, 1945	22.6	26,100
1921	Mar. 4, 1921	15.48	-		Mar. 22, 1945	17.02	20,000
1922	Dec. 24, 1921	20.50	-				
				1946	Jan. 8, 1946	16.13	16,400
1939b/	Apr. 17, 1939	c32.25	a53,000		Feb. 14, 1946	17.25	20,800
					Mar. 16, 1946	15.71	15,000
1940	Feb. 20, 1940	17.02	19,600		Mar. 20, 1946	17.13	20,400
	Mar. 4, 1940	15.79	15,300		May 28, 1946	15.90	15,600
	Mar. 31, 1940	18.67	25,500		June 2, 1946	19.60	24,900
	Apr. 20, 1940	23.50	29,000				
	June 19, 1940	15.20	13,900	1947	Jan. 21, 1947	14.05	9,400
1941	Mar. 12, 1941	15.73	15,600	1948	Feb. 14, 1948	24.2	36,400
	June 5, 1941	16.69	17,600		Feb. 27, 1948	15.62	14,400
					Apr. 14, 1948	30.9	46,300
1942	Mar. 9, 1942	16.68	19,300				
	Aug. 24, 1942	15.58	15,200	1949	Dec. 16, 1948	d28.0	a44,000
					Jan. 28, 1949	17.6	22,400
1943	Dec. 2, 1942	15.4	13,900		Feb. 16, 1949	16.0	16,000
	Dec. 24, 1942	16.3	17,200		Apr. 14, 1949	16.0	16,000
	Dec. 30, 1942	28.25	40,500				
	Feb. 2, 1943	16.3	17,200	1950	Nov. 30, 1949	15.23	13,100
	Mar. 7, 1943	15.3	13,600		Dec. 14, 1949	17.68	22,800
	Mar. 14, 1943	15.5	14,200		Jan. 6, 1950	16.10	16,400
	Mar. 20, 1943	24.34	35,100		Feb. 2, 1950	25.36	39,700
	Aug. 6, 1943	17.61	22,400		Mar. 13, 1950	22.43	15,800
					May 29, 1950	22.53	16,000
1944	Jan. 4, 1944	16.04	16,000		June 5, 1950	25.46	23,200

a About.
b Partial year.
c 26.55 ft at former site and datum.
d Estimated.

Peak stages and discharges of Little Kanawha River at Palestine, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 17, 1950	22.28	15,600	1956	Feb. 8, 1956	20.50	13,100
	June 26, 1950	23.38	18,200		Feb. 19, 1956	26.77	26,000
					Mar. 9, 1956	26.37	25,200
1951	Nov. 5, 1950	23.36	19,300		Mar. 15, 1956	26.84	26,000
	Dec. 4, 1950	31.75	37,900		Mar. 30, 1956	21.96	16,400
	Dec. 8, 1950	24.04	18,800		June 2, 1956	21.27	15,100
	Jan. 15, 1951	27.28	27,500				
	Feb. 2, 1951	34.22	42,500	1957	Dec. 15, 1956	31.78	36,400
	Feb. 22, 1951	21.40	15,300		Jan. 11, 1957	20.20	14,400
	Mar. 4, 1951	21.35	15,300		Jan. 30, 1957	22.57	18,700
	Mar. 8, 1951	21.82	16,500		Feb. 10, 1957	30.56	33,900
	Mar. 31, 1951	20.71	13,300				
				1958	Dec. 8, 1957	21.58	18,300
1952	Dec. 9, 1951	22.30	18,100		Dec. 27, 1957	21.00	17,300
	Dec. 15, 1951	22.53	18,700		Jan. 22, 1958	19.93	15,400
	Dec. 22, 1951	22.40	18,400		Jan. 26, 1958	23.90	22,400
	Jan. 3, 1952	22.68	19,300		Feb. 8, 1958	22.57	20,100
	Jan. 5, 1952	22.83	19,700		Feb. 28, 1958	19.71	15,100
	Jan. 28, 1952	28.97	31,200		Apr. 29, 1958	21.74	18,500
	Mar. 12, 1952	20.70	13,300		May 8, 1958	27.77	23,500
	Mar. 23, 1952	22.61	19,000		July 24, 1958	24.84	22,100
	May 21, 1952	23.78	23,000		Aug. 4, 1958	19.93	15,400
					Aug. 10, 1958	26.46	26,000
1953	Jan. 9, 1953	22.21	17,700				
	Mar. 5, 1953	20.73	13,300	1959	Jan. 22, 1959	24.00	22,600
	May 7, 1953	21.37	15,300				
	June 18, 1953	21.67	16,200	1960	Jan. 4, 1960	21.95	15,100
					Jan. 16, 1960	24.15	20,200
1954	Mar. 14, 1954	20.84	13,500		Feb. 27, 1960	21.85	14,600
	July 22, 1954	23.73	22,700		Apr. 1, 1960	22.18	15,600
1955	Oct. 17, 1954	26.79	29,000	1961	Dec. 31, 1960	24.73	21,300
	Dec. 31, 1954	24.12	24,100		Feb. 13, 1961	23.68	19,000
	Feb. 7, 1955	25.83	26,700		Feb. 26, 1961	23.67	19,000
	Feb. 28, 1955	24.21	24,400		Mar. 1, 1961	21.62	14,200
	Mar. 6, 1955	27.00	28,400		Mar. 5, 1961	23.64	18,800
	Mar. 17, 1955	23.00	19,100		Apr. 1, 1961	22.13	15,300
					May 8, 1961	23.79	19,200
1956	Jan. 31, 1956	23.35	22,000		June 10, 1961	21.18	13,300
	Feb. 3, 1956	22.08	17,700		Aug. 3, 1961	22.44	16,000

1552. South Fork Hughes River at Macfarlan, W. Va.

Location.--Lat 39°04'40", long 81°11'25", near center of span on upstream side of highway bridge 0.4 mile east of Macfarlan, Richie County, 0.5 mile upstream from Dutchman Run, and 1.5 miles upstream from Macfarlan Creek.

Drainage area.--210 sq mi.

Gage.--Nonrecording. At site 50 ft upstream at same datum prior to Mar. 12, 1940. Datum of gage is 635.28 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs and extended above on basis of slope-area measurements at 7,840 and 11,200 cfs.

Remarks.--Base for partial-duration series, 5,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Oct. 1, 1915	19.23	7,500	1940	Apr. 20, 1940	18.7	6,300
	Dec. 18, 1915	18.0	6,880				
	Jan. 12, 1916	-	6,500	1941	June 4, 1941	21.71	7,840
	Feb. 13, 1916	-	6,800				
	Feb. 25, 1916	-	6,900	1942	Mar. 8, 1942	15.66	4,800
	Mar. 28, 1916	-	5,500				
				1943	Dec. 30, 1942	24.30	9,260
1938	Feb. 20, 1938	18.0	5,950		Mar. 20, 1943	19.26	6,600
	Apr. 9, 1938	19.7	6,800		Apr. 19, 1943	21.3	7,620
	May 21, 1938	18.0	5,950		Aug. 5, 1943	27.91	11,200
1939	Feb. 3, 1939	23.12	8,600	1944	Feb. 23, 1944	19.5	6,700
	Apr. 16, 1939	23.97	9,100				
				1945	Dec. 26, 1944	21.50	7,720
1940	Mar. 31, 1940	18.0	5,950		Dec. 28, 1944	17.1	5,500

Peak stages and discharges of South Fork Hughes River at Macfarlan, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Jan. 1, 1945	20.2	7,050	1949	Dec. 15, 1948	25.9	10,000
	Feb. 27, 1945	24.8	9,540				
	Mar. 3, 1945	17.1	5,500	1950	Dec. 13, 1949	18.58	6,250
	Mar. 7, 1945	23.8	8,990		Jan. 5, 1950	18.2	6,050
	May 11, 1945	17.8	5,850		Jan. 31, 1950	19.25	6,550
	Sept.24, 1945	18.3	6,100		June 4, 1950	18.4	6,150
					June 25, 1950	29.3	12,100
1946	Feb. 14, 1946	19.6	6,750				
	June 2, 1946	24.45	9,320	1951	Dec. 4, 1950	21.0	7,450
					Dec. 8, 1950	18.0	5,950
1947	June 8, 1947	17.1	5,500		Jan. 15, 1951	20.0	6,950
					Feb. 1, 1951	24.0	9,100
1948	Jan. 2, 1948	18.9	6,400		June 13, 1951	19.8	6,850
	Feb. 14, 1948	23.9	9,040				
	Apr. 13, 1948	25.0	9,650	1952a/	Dec. 15, 1951	18.1	6,000
	July 22, 1948	18.2	6,050				

a Partial year.

1555. Hughes River at Cisko, W. Va.

Location.--Lat 39°07'10", long 81°16'40", on right bank 100 ft downstream from confluence of North and South Forks, 1 mile upstream from Cisko, Ritchie County, and 5 miles south of Petroleum.

Drainage area.--452 sq mi.

Gage.--Nonrecording prior to July 1, 1946; recording thereafter. At site about 1 mile downstream at datum 2.56 ft lower prior to Oct. 1, 1945. Datum of gage is 607.92 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs and extended above on basis of slope-area measurements at 17,600, 21,500 and 25,900 cfs.

Remarks.--Base for partial-duration series, 9,500 cfs. Only annual peak stages are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	21.82	-	1945	Jan. 1, 1945	21.7	13,500
1917	Jan. 22, 1917	30.25	-		Feb. 27, 1945	28.00	20,700
1918	Mar. 14, 1918	27.10	-		Mar. 7, 1945	24.40	17,600
1919	Jan. 2, 1919	26.5	-		Mar. 22, 1945	18.5	9,700
1920	Dec. 7, 1919	26.62	-				
				1946	Dec. 6, 1945	18.4	9,930
1929a/	Feb. 26, 1929	19.10	12,100		Feb. 14, 1946	19.2	10,800
					June 2, 1946	30.4	25,900
1930	Nov. 18, 1929	17.9	10,800				
	Feb. 5, 1930	17.9	10,800	1947	Jan. 16, 1947	17.08	9,090
	Mar. 8, 1930	19.0	12,000				
				1948	Jan. 2, 1948	20.07	11,800
1931	Apr. 1, 1931	17.6	10,500		Feb. 14, 1948	26.53	19,000
	Aug. 21, 1931	17.0	9,800		Apr. 13, 1948	30.92	27,500
					July 23, 1948	21.31	13,000
1939a/	Apr. 16, 1939	23.5	15,900				
				1949	Dec. 16, 1948	28.85	23,000
1940	Mar. 31, 1940	22.0	13,800		Jan. 25, 1949	18.09	9,990
	Apr. 20, 1940	22.6	14,600				
				1950	Dec. 13, 1949	19.59	11,300
1941	June 4, 1941	27.50	21,500		Jan. 6, 1950	19.88	11,600
					Feb. 1, 1950	21.48	13,200
1942	Apr. 10, 1942	18.65	9,800		June 4, 1950	17.92	9,810
					June 26, 1950	32.69	31,700
1943	Dec. 30, 1942	30.03	18,300				
	Mar. 7, 1943	19.7	11,000	1951	Dec. 4, 1950	23.14	14,800
	Mar. 20, 1943	21.5	13,200		Dec. 8, 1950	20.44	12,100
	Apr. 20, 1943	24.8	18,300		Jan. 15, 1951	22.94	14,600
	Aug. 5, 1943	24.50	17,800		Feb. 2, 1951	24.38	16,200
1944	Feb. 23, 1944	21.16	12,900	1952	Dec. 15, 1951	17.82	9,720
	Mar. 17, 1944	19.30	10,600		Jan. 2, 1952	18.74	10,500
					Jan. 27, 1952	18.86	10,600
1945	Dec. 26, 1944	24.50	17,800		Mar. 11, 1952	17.59	9,540
	Dec. 28, 1944	19.00	10,200				

a Partial year.

Peak stages and discharges of Hughes River at Cisko, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 7, 1953	19.54	11,200	1957	Feb. 10, 1957	26.58	19,200
1954	June 11, 1954	13.55	6,180	1958	Jan. 25, 1958	18.25	10,100
					Apr. 30, 1958	18.62	10,400
1955	Oct. 16, 1954	23.74	15,400		May 6, 1958	22.07	13,800
	Dec. 30, 1954	18.96	10,800		July 16, 1958	18.37	10,300
	Feb. 7, 1955	21.88	13,600		July 24, 1958	25.13	17,000
					Aug. 9, 1958	21.67	13,400
1956	Jan. 30, 1956	19.23	11,000				
	Feb. 3, 1956	17.56	9,540	1959	Jan. 21, 1959	17.35	9,360
	Mar. 8, 1956	22.44	14,100				
	Mar. 15, 1956	18.27	10,200	1960	Jan. 15, 1960	19.63	11,300
1957	Dec. 15, 1956	25.44	17,500	1961	Feb. 26, 1961	18.17	10,100
	Jan. 10, 1957	18.33	10,200		Apr. 1, 1961	19.06	10,900

HOCKING RIVER BASIN

1560. Hunters Run at Lancaster, Ohio

Location.--Lat 39°42'30", long 82°37'20", at bridge on U.S. Highway 22, 1 mile southwest of Lancaster, Fairfield County, and 1¼ miles upstream from mouth.

Drainage area.--9.63 sq mi.

Gage.--Recording. Datum of gage is 823.6 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 722 cfs and extended on basis of contracted-opening measurement at 11,200 cfs.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	July 21, 1948	15.4	11,200	1958	June 13, 1958	5.19	1,010
					July 6, 1958	4.98	866
1956	Mar. 8, 1956	3.53	234		July 11, 1968	4.32	484
	Mar. 28, 1956	3.57	242		July 22, 1958	4.97	859
	Apr. 3, 1956	3.52	231				
	May 2, 1956	3.83	311	1959	Jan. 21, 1959	5.78	1,250
					Feb. 10, 1959	4.38	557
1957	Feb. 9, 1957	3.74	285				
	Apr. 4, 1957	4.84	771	1960	Feb. 10, 1960	4.25	505
	Apr. 8, 1957	3.46	220				
	June 24, 1957	5.07	929	1961	Apr. 25, 1961	4.01	409
					May 8, 1961	6.03	1,010
1958	Dec. 7, 1957	4.57	608		Aug. 1, 1961	4.70	500
	Dec. 20, 1957	3.40	207		Aug. 11, 1961	5.66	864

1564. Hocking River at Lancaster, Ohio

Location.--Lat 39°42'25", long 82°36'05", at Columbus Street Bridge in Lancaster, Fairfield County, half a mile downstream from Hunters Run.

Drainage area.--49.8 sq mi.

Gage.--Recording. Datum of gage is 797.9 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges of Hocking River at Lancaster, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	June 1, 1956	5.41	408	1959	Jan. 21, 1959	12.76	1,980
					Feb. 10, 1959	9.88	1,320
1957	Apr. 4, 1957	11.90	1,740				
	June 24, 1957	9.32	1,150	1960	Feb. 10, 1960	8.07	925
1958	June 13, 1958	10.89	1,150	1961	May 8, 1961	13.70	2,440
	July 6, 1958	9.80	1,260		Aug. 1, 1961	8.62	1,050
	July 15, 1958	9.13	1,110		Aug. 11, 1961	12.67	2,010

1565. Hocking River near Lancaster, Ohio

Location.--Lat 39°39'05", long 82°33'30", at highway bridge, 1 mile downstream from Pleasant Run and 5 miles southeast of Lancaster, Fairfield County.

Drainage area.--92.8 sq mi.

Gage.--Nonrecording. Altitude of gage is 770 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Mar. 29, 1924	10.2	2,050	1929	Feb. 26, 1929	9.1	1,720
1925	Aug. 12, 1925	5.2	719	1930	Mar. 7, 1930	9.9	1,960
1926	Feb. 14, 1926	8.0	1,420	1931	Aug. 13, 1931	7.8	1,370
1927	Jan. 19, 1927	9.0	1,690	1932	Jan. 30, 1932	8.1	1,450
1928	June 20, 1928	8.5	1,560				

1570. Clear Creek near Rockbridge, Ohio

Location.--Lat 39°35'20", long 82°34'40", at highway bridge, 2 miles upstream from mouth and 3 miles west of Rockbridge, Hocking County.

Drainage area.--87.7 sq mi.

Gage.--Nonrecording prior to May 2, 1940; recording thereafter. Datum of gage is 760.13 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 4,240 cfs and extended on basis of slope-area measurement at 16,000 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	8.0	1,920	1945	Feb. 27, 1945	10.3	3,030
	Apr. 17, 1940	8.1	1,960		Mar. 3, 1945	8.9	2,320
	Apr. 19, 1940	12.8	5,220		Mar. 6, 1945	13.5	6,200
					Mar. 20, 1945	10.7	3,250
1941	June 1, 1941	9.2	2,470		May 17, 1945	8.5	2,140
	June 3, 1941	8.2	2,010				
	Aug. 26, 1941	9.6	2,670	1946	May 17, 1946	9.55	2,670
					June 19, 1946	8.3	2,060
1942	Apr. 9, 1942	9.0	2,370				
	July 10, 1942	9.3	2,520	1947	Jan. 30, 1947	9.48	2,620
					Aug. 8, 1947	8.8	2,280
1943	Dec. 30, 1942	9.0	2,370				
	Mar. 20, 1943	12.8	5,220	1948	Feb. 14, 1948	11.2	3,540
	June 6, 1943	8.9	2,320		Mar. 16, 1948	9.5	2,450
					Mar. 27, 1948	11.4	3,700
1944	Mar. 6, 1944	9.16	2,470		Apr. 12, 1948	10.6	3,060

Peak stages and discharges of Clear Creek near Rockbridge, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	July 22, 1948	17.68	16,000	1955	Mar. 5, 1955	9.93	2,650
1949	Jan. 24, 1949	9.82	2,600	1956	Mar. 8, 1956	7.60	1,760
	Mar. 26, 1949	8.60	2,070	1957	Apr. 4, 1957	10.03	2,700
1950	Apr. 4, 1950	10.12	2,760	1958	June 13, 1958	9.47	2,450
1951	Dec. 3, 1950	8.88	2,220	1959	Jan. 22, 1959	10.78	3,200
	Dec. 7, 1950	-	2,200	1960	Feb. 10, 1960	7.71	1,800
	Jan. 4, 1951	9.70	2,550	1961	Apr. 25, 1961	8.53	2,120
	Jan. 14, 1951	9.83	2,600		May 8, 1961	11.68	4,080
	Feb. 12, 1951	8.55	2,110		Aug. 11, 1961	11.58	3,980
1952	Jan. 27, 1952	9.40	2,410				
1953	July 1, 1953	6.24	1,330				
1954	Aug. 9, 1954	6.33	1,360				

1575. Hocking River at Enterprise, Ohio

Location.--Lat 39°33'54", long 82°28'30", at highway bridge at Enterprise, Hocking County, 4 miles downstream from Buck Run.

Drainage area.--460 sq mi. Channel slope, main stream, 4.97 ft per mile; channel slope, tributary, 32.7 ft per mile; length of longest watercourse, 44.1 miles; mean elevation of land surface, 915 ft above mean sea level; average land slope, 540 ft per mile.

Gage.--Nonrecording prior to Oct. 24, 1933; recording thereafter. Datum of gage is 723.6 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 17,700 cfs and extended on basis of average of slope-area and contracted-opening measurement at 25,200 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 3,500 cfs. Only annual peaks are shown prior to 1934.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	March 1907	22.0	a36,000	1939	Feb. 11, 1939	9.90	3,780
1931b/	Aug. 13, 1931	11.68	5,030		Feb. 15, 1939	11.20	4,660
1932	Jan. 30, 1932	10.24	3,960		Mar. 30, 1939	12.35	5,570
1933	Mar. 15, 1933	15.22	9,730		Apr. 17, 1939	13.74	6,860
1934	Mar. 3, 1934	8.59	2,960	1940	Mar. 4, 1940	13.21	6,290
					Apr. 20, 1940	19.94	25,200
1935	May 3, 1935	13.64	7,650	1941	June 4, 1941	12.2	5,440
	May 7, 1935	12.60	5,560				
	July 29, 1935	15.32	8,720	1942	Apr. 10, 1942	12.4	5,600
	Aug. 4, 1935	-	5,200				
	Aug. 8, 1935	11.99	5,070	1943	Dec. 31, 1942	13.51	6,600
	Sept. 4, 1935	11.25	4,480		Mar. 20, 1943	17.6	16,500
1936	Feb. 27, 1936	12.16	5,870	1944	Mar. 7, 1944	10.63	4,270
	Apr. 7, 1956	11.26	5,010		Mar. 24, 1944	10.7	4,340
					Apr. 12, 1944	9.98	3,860
1937	Jan. 16, 1937	13.22	7,010				
	Jan. 18, 1937	11.90	5,570	1945	Feb. 27, 1945	13.30	6,390
	Jan. 22, 1937	17.64	16,600		Mar. 3, 1945	13.20	6,290
	Jan. 25, 1937	17.57	16,600		Mar. 6, 1945	20.0	18,400
	June 23, 1937	10.20	4,050		Mar. 21, 1945	14.52	7,850
					May 18, 1945	11.01	4,550
1938	Dec. 19, 1937	10.57	4,220				
	Mar. 15, 1938	11.83	5,270	1946	May 17, 1946	11.69	5,060
	Mar. 31, 1938	9.77	3,650		June 17, 1946	10.1	3,930
	Apr. 9, 1938	9.76	3,650		June 19, 1946	11.90	5,200
	May 24, 1938	14.15	8,300				
	Sept.13, 1938	11.84	5,270	1947	Jan. 31, 1947	11.35	4,830

a From Corps of Engineers.
b Partial year.

Peak stages and discharges of Hocking River at Enterprise, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 21, 1947	11.64	4,980	1952	Jan. 27, 1952	14.39	7,720
	Apr. 26, 1947	9.63	3,600		Feb. 4, 1952	10.79	4,410
	Aug. 8, 1947	10.64	4,270		Mar. 11, 1952	10.48	4,200
1948	Feb. 14, 1948	14.64	7,980	1953	Jan. 28, 1953	8.75	3,110
	Mar. 16, 1948	11.33	4,760				
	Mar. 27, 1948	13.63	6,710	1954	May 4, 1954	4.11	1,030
	Apr. 13, 1948	17.00	13,700				
	July 22, 1948	17.52	11,000	1955	Mar. 5, 1955	13.06	6,170
					Mar. 22, 1955	10.15	3,870
1949	Dec. 15, 1948	10.02	3,860				
	Jan. 5, 1949	10.97	4,550	1956	Mar. 8, 1956	10.92	4,350
	Jan. 24, 1949	11.87	5,200		Mar. 29, 1956	10.28	3,940
	Jan. 28, 1949	12.89	6,010		Apr. 3, 1956	10.83	4,280
	Feb. 15, 1949	11.26	4,760				
	Mar. 27, 1949	11.71	5,060	1957	Feb. 9, 1957	9.90	3,680
					Apr. 5, 1957	12.63	5,700
1950	Jan. 7, 1950	13.67	6,820				
	Feb. 23, 1950	10.00	3,860	1958	June 15, 1958	12.01	5,190
	Apr. 5, 1950	12.32	5,520		July 23, 1958	10.43	4,000
	July 6, 1950	9.56	3,600				
				1959	Jan. 22, 1959	15.97	9,950
1951	Dec. 3, 1950	12.47	5,680		Feb. 11, 1959	11.13	4,520
	Dec. 7, 1950	12.68	5,840				
	Jan. 4, 1951	12.79	5,920	1960	Feb. 11, 1960	9.77	3,630
	Jan. 15, 1951	14.17	7,460				
	Feb. 13, 1951	13.70	6,820	1961	Mar. 5, 1961	9.60	3,530
	Feb. 21, 1951	11.18	4,690		Apr. 26, 1961	11.41	4,830
					May 8, 1961	14.50	7,850
1952	Dec. 21, 1951	10.48	4,200		Aug. 12, 1961	12.34	5,600

1580. Clear Fork near Logan, Ohio

Location.--Lat 39°32'05", long 82°26'55", at bridge on State Highway 664, 1.4 miles downstream from Duck Creek, 1.6 miles upstream from Scott Creek, and 2.3 miles southwest of Logan, Hocking County.

Drainage area.--14.8 sq mi. Length of main stream, 6.90 miles; average slope main stream, 28.0 ft per mile; average slope main stream and tributaries, 48.6 ft per mile; slope at gage, 1.0 ft per mile; length divided by average width of basin, 3.22.

Gage.--Recording prior to December 1947; crest-stage gage thereafter. Datum of gage is 731.3 ft above mean sea level (levels by Ohio Department of Highways).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended on basis of contracted-opening measurement at 4,440 cfs.

Bankfull stage.--6 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	July 10, 1942	7.07	1,020	1946	June 13, 1946	7.11	1,040
1943	Mar. 19, 1943	6.60	800	1947	Aug. 8, 1947	11.1	4,440
1944	Mar. 6, 1944	6.45	740	1948	-	8.51	1,910
1945	Mar. 6, 1945	7.25	1,120	1949	-	8.44	1,840

1590. Sunday Creek at Glouster, Ohio

Location.--Lat 39°30'00", long 82°05'05", 150 ft downstream from West Branch Sunday Creek and 200 ft upstream from bridge on State Highway 78 at Glouster, Athens County.

Drainage area.--104 sq mi.

Gage.--Nonrecording prior to Dec. 4, 1951; recording thereafter. Datum of gage is 665.23 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,370 cfs.

Remarks.--Flow regulated by Tom Jenkins Reservoir (26,900 acre-ft, 32.8 sq mi) since January 1952. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	March 1907	a22.0	-	1953	Jan. 28, 1953	12.98	1,470
				1954	May 8, 1954	10.27	1,030
1913	March 1913	b18.9	-	1955	Mar. 5, 1955	14.35	2,060
1938	May 1938	b17.1	-	1956	Apr. 3, 1956	12.41	1,400
				1957	Apr. 18, 1957	12.08	1,330
1940	April 1940	b18.3	-	1958	Apr. 29, 1958	13.98	1,880
				1959	Jan. 21, 1959	14.65	2,180
1948	Apr. 12, 1948	b16.5	5,300	1960	Jan. 15, 1960	11.41	1,190
1952	Jan. 27, 1952	13.89	2,110	1961	May 8, 1961	15.40	2,850

a Maximum stage known.
b From information by Corps of Engineers.

1595. Hocking River at Athens, Ohio

Location.--Lat 39°19'45", long 82°05'17", at Mill Street Bridge, three-quarters of a mile east of business section of Athens, Athens County, and 3½ miles downstream from Margaret Creek.

Drainage area.--944 sq mi. Channel slope main stream, 2.44 ft per mile; channel slope, tributary, 29.5 ft per mile; length of longest watercourse, 81.8 miles; mean elevation of land surface, 879 ft above mean sea level; average land slope, 742 ft per mile.

Gage.--Nonrecording prior to Aug. 17, 1931; recording thereafter. Datum of gage is 615.59 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 25,100 cfs.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 7,500 cfs. Only annual peaks are shown prior to 1932.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1873	-	a23	-	1922	Apr. 16, 1922	21.8	25,400
				1923	Jan. 22, 1923	12.46	7,280
1884	-	a24	-	1924	Mar. 30, 1924	18.6	14,100
				1925	May 11, 1925	13.9	6,920
1907	March 1907	b26.7	a50,000				
				1926	Aug. 19, 1926	17.5	11,800
1913	-	a24	-	1927	Jan. 22, 1927	18.4	13,600
				1928	June 22, 1928	18.3	13,400
1916	Dec. 18, 1915	17.9	12,600	1929	May 3, 1929	15.2	8,430
1917	Jan. 23, 1917	16.4	10,900	1930	Mar. 9, 1930	17.5	11,700
1918	Mar. 14, 1918	17.9	12,400				
1919	Jan. 2, 1919	14.7	9,260	1931	Apr. 5, 1931	17.20	11,200
1920	Apr. 21, 1920	19.2	15,800				
				1932	Dec. 14, 1931	14.66	7,900
1921	Mar. 8, 1921	16.8	11,300		Jan. 31, 1932	14.40	7,600

a From Corps of Engineers.
b From information by local resident, maximum stage known.

Peak stages and discharges of Hocking River at Athens, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Mar. 15, 1933	19.45	16,600
	Mar. 20, 1933	19.61	17,100
	May 12, 1933	16.37	10,100
	May 15, 1933	19.93	18,000
1934	Mar. 4, 1934	15.04	8,250
1935	Mar. 13, 1935	15.18	8,490
	May 4, 1935	17.47	12,100
	May 8, 1935	15.10	8,370
	July 31, 1935	14.43	7,600
	Aug. 9, 1935	15.92	9,390
	Sept. 5, 1935	19.87	17,300
1936	Feb. 16, 1936	16.95	11,200
	Feb. 27, 1936	16.57	10,400
	Mar. 22, 1936	14.32	7,500
	Apr. 7, 1936	17.96	13,100
1937	Jan. 11, 1937	14.85	7,960
	Jan. 16, 1937	18.77	14,600
	Jan. 19, 1937	16.53	10,100
	Jan. 23, 1937	22.65	28,700
	Jan. 26, 1937	21.98	26,200
1938	Dec. 19, 1937	14.86	7,950
	Mar. 17, 1938	17.00	11,000
	Apr. 10, 1938	16.18	9,660
	May 21, 1938	18.53	14,300
	May 25, 1938	18.59	14,600
	Aug. 5, 1938	14.70	7,730
	Sept.14, 1938	16.95	11,000
1939	Jan. 31, 1939	15.47	8,690
	Feb. 11, 1939	15.02	8,070
	Feb. 16, 1939	15.77	9,090
	Mar. 31, 1939	15.35	8,560
	Apr. 17, 1939	19.14	15,500
1940	Mar. 5, 1940	16.65	10,300
	Apr. 21, 1940	22.9	30,000
1941	June 4, 1941	19.0	15,200
1942	Apr. 11, 1942	17.7	11,900
1943	Dec. 31, 1942	18.05	12,600
	Mar. 21, 1943	20.5	20,000
	Apr. 20, 1943	16.40	9,800
1944	Mar. 8, 1944	17.3	11,200
	Mar. 24, 1944	14.80	7,780
1945	Feb. 28, 1945	18.15	13,100
	Mar. 4, 1945	17.30	11,200
	Mar. 7, 1945	23.00	30,400
	Mar. 22, 1945	18.45	13,600
	Apr. 18, 1945	15.08	7,700
1945	May 19, 1945	17.20	11,000
	June 12, 1945	15.10	7,700
1946	May 18, 1946	16.90	10,400
	June 20, 1946	17.04	10,600
1947	Feb. 1, 1947	15.22	7,990
	May 23, 1947	15.02	7,780
1948	Jan. 3, 1948	14.76	7,580
	Feb. 15, 1948	19.53	16,200
	Mar. 17, 1948	16.52	9,580
	Mar. 28, 1948	17.55	11,400
	Apr. 13, 1948	21.86	25,500
	July 24, 1948	16.70	9,870
1949	Dec. 17, 1948	18.32	12,900
	Jan. 29, 1949	17.20	10,700
	Feb. 17, 1949	16.65	9,720
	Mar. 28, 1949	16.29	9,300
1950	Jan. 8, 1950	18.36	13,200
	Apr. 5, 1950	16.78	10,000
1951	Dec. 5, 1950	17.96	12,200
	Dec. 9, 1950	18.23	12,700
	Jan. 5, 1951	17.45	11,000
	Jan. 16, 1951	21.15	22,400
	Feb. 14, 1951	17.35	11,000
1952	Jan. 28, 1952	18.36	13,200
	Feb. 5, 1952	16.45	9,440
	Mar. 12, 1952	14.80	7,580
	Mar. 23, 1952	16.31	9,300
1953	Jan. 29, 1953	13.98	6,820
1954	May 4, 1954	10.73	4,360
1955	Mar. 1, 1955	14.82	7,580
	Mar. 6, 1955	17.13	10,500
1956	Mar. 30, 1956	15.16	7,990
	Apr. 4, 1956	15.14	7,880
1957	Feb. 10, 1957	15.05	7,780
1958	Apr. 30, 1958	16.00	8,910
	May 8, 1958	16.63	9,720
	July 24, 1958	18.23	12,700
1959	Jan. 23, 1959	19.38	15,800
	Feb. 11, 1959	15.06	7,840
1960	Jan. 15, 1960	13.91	6,740
1961	Mar. 6, 1961	16.33	9,340
	May 10, 1961	19.34	15,700

1600. Ohio River at Pomeroy, Ohio

Location.--Lat 38°50'25", long 82°08'30", on left bank at Point Pleasant, Mason County, W. Va., 1,200 ft upstream from Kanawha River and at mile 265.4.

Drainage area.--40,500 sq mi, approximately.

Gage.--Base gage: Nonrecording at different sites and datums prior to Feb. 7, 1940; recording thereafter. At site 0.3 mile upstream at present datum Feb. 7, 1940, to Sept. 30, 1951. Datum of gage is 514.10 ft above mean sea level, Sandy Hook datum.

Auxiliary gage: Nonrecording prior to Dec. 31, 1937; recording thereafter. At site 13.8 miles upstream near left bank on downstream side of pier of bridge on U.S. Highway 33 at Pomeroy. Datum of gage is 517.50 ft above mean sea level, Sandy Hook datum.

Stage-discharge relation.--Defined by current-meter measurements below 170,000 cfs. Discharge is computed using fall as a factor.

Remarks.--Only annual peaks are shown. Flow partly regulated by reservoirs upstream. Peak stage usually occurs at different time than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 30, 1913	a70.1	b633,000	1949	Jan. 29, 1949	41.90	291,000
				1950	Jan. 8, 1950	47.46	278,000
1936	Mar. 21, 1936	c57.0	452,000				
1937	Jan. 27, 1937	a67.7	554,000	1951	Dec. 8, 1950	47.06	325,000
				1952	Jan. 30, 1952	48.62	372,000
1940	Apr. 23, 1940	51.38	400,000	1953	Mar. 27, 1953	29.37	153,000
				1954	Mar. 5, 1954	29.96	162,000
1941	June 7, 1941	31.20	234,000	1955	Oct. 19, 1954	51.87	314,000
1942	Apr. 13, 1942	36.57	260,000				
1943	Jan. 2, 1943	54.38	438,000	1956	Mar. 10, 1956	40.95	316,000
1944	Mar. 20, 1944	35.29	213,000	1957	Apr. 9, 1957	39.02	251,000
	Apr. 15, 1944	36.46	213,000	1958	May 8, 1958	46.61	275,000
1945	Mar. 9, 1945	52.78	437,000	1959	Jan. 25, 1959	43.88	365,000
				1960	Apr. 3, 1960	40.21	298,000
1946	June 3, 1946	39.06	249,000				
1947	June 10, 1947	30.90	210,000	1961	Mar. 7, 1961	41.12	268,000
1948	Apr. 16, 1948	55.00	421,000				

a Pass sill gage, lock 24.
b Maximum discharge known.
c Middle gage, lock 24.

KANAWHA RIVER BASIN

1606.1. Old Field Creek near West Jefferson, N.C.

Location.--Lat 36°22', long 81°32', at bridge on U.S. Highway 221, 4½ miles upstream from mouth and 4¾ miles south of West Jefferson, Ashe County.

Drainage area.--2.38 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 40 cfs and by slope-area measurements at 76 and 159 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 14, 1955	20.73	a160	1959	Sept. 7, 1959	20.89	159
				1960	May 26, 1960	21.77	247
1956	Apr. 16, 1956	19.54	63				
1957	June 29, 1957	19.85	85	1961	Aug. 24, 1961	19.78	79
1958	Dec. 8, 1957	19.42	55.5				

a Estimated.

1610. South Fork New River near Jefferson, N.C.

Location.--Lat 36°24', long 81°25', on right bank 600 ft upstream from bridge on State Highways 16 and 88, a quarter of a mile downstream from Bear Creek, and 4 miles southeast of Jefferson, Ashe County.

Drainage area.--207 sq mi.

Gage.--Nonrecording prior to Mar. 26, 1935; recording thereafter. At site 400 ft downstream at same datum prior to Oct. 14, 1934. Datum of gage is 2,657.04 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended above by logarithmic plotting and slope-area measurement at 52,800 cfs.

Historical data.--The maximum stage known prior to 1924 is that of July 15, 1916.

Remarks.--Base for partial-duration series, 2,600 cfs. Only annual peaks are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 15, 1916	a18.0	35,200	1944	Sept.30, 1944	5.67	3,260
1925	Dec. 9, 1924	5.1	4,000	1945	Oct. 20, 1944	5.27	2,740
					May 18, 1945	6.86	5,100
1926	Jan. 18, 1926	5.1	4,000		Sept.18, 1945	9.19	9,280
1928	Aug. 16, 1928	b8.4	9,800	1946	Jan. 8, 1946	6.12	3,900
1929	Oct. 23, 1928	5.1	4,000	1947	Jan. 20, 1947	4.59	1,990
	Mar. 14, 1929	5.3	4,300				
	May 21, 1929	4.2	2,790	1948	Oct. 18, 1947	5.48	3,060
					Nov. 3, 1947	6.66	4,800
1930	Oct. 2, 1929	7.0	7,090				
	Oct. 22, 1929	6.0	5,370	1949	Nov. 7, 1948	5.85	3,540
					Nov. 29, 1948	5.49	3,060
1931	Aug. 22, 1931	3.9	2,440		Apr. 13, 1949	5.25	2,740
					June 17, 1949	6.73	4,800
1932	Jan. 1, 1932	4.4	3,040		June 17, 1949	5.50	3,060
	Feb. 3, 1932	4.8	3,580		July 18, 1949	6.35	4,350
	May 1, 1932	4.4	3,040		Aug. 28, 1949	8.76	8,460
1933	Oct. 17, 1932	7.8	8,610	1950	Sept. 9, 1950	5.96	3,750
	Apr. 16, 1933	5.8	5,050				
				1951	Dec. 7, 1950	8.59	8,060
1934	Mar. 28, 1934	4.9	3,260		Mar. 30, 1951	5.15	2,610
	Apr. 9, 1934	5.0	3,390				
				1952	Feb. 4, 1952	5.61	3,310
1935	Nov. 23, 1934	5.1	2,620		Mar. 11, 1952	6.20	4,100
	Nov. 29, 1934	6.0	3,720				
	Jan. 9, 1935	8.5	7,870	1953	Feb. 21, 1953	5.97	3,400
	Sept. 6, 1935	6.05	3,720		Mar. 24, 1953	6.64	4,230
1936	Nov. 13, 1935	6.01	3,610	1954	Jan. 23, 1954	5.66	2,980
	Apr. 7, 1936	5.10	2,620		Feb. 21, 1954	6.12	3,530
					Mar. 1, 1954	5.56	2,860
1937	Oct. 17, 1936	6.11	3,730				
	Dec. 31, 1936	5.9	3,580	1955	Apr. 14, 1955	7.20	5,150
1938	Oct. 19, 1937	5.9	3,490	1956	Apr. 16, 1956	4.98	2,250
	May 30, 1938	5.19	2,720				
	July 23, 1938	5.70	3,300	1957	Apr. 5, 1957	7.95	6,540
					June 5, 1957	5.45	2,740
1939	Nov. 5, 1938	5.30	2,820				
	Aug. 18, 1939	6.40	4,090	1958	Nov. 19, 1957	5.45	2,740
					Dec. 21, 1957	6.05	3,400
1940	Aug. 14, 1940	22.50	52,800		Jan. 14, 1958	5.45	2,740
	Aug. 30, 1940	-	c16,000				
				1959	Dec. 28, 1958	6.87	4,690
1941	July 7, 1941	5.24	2,740		Sept.20, 1959	9.55	9,860
1942	Mar. 9, 1942	5.80	3,470	1960	Feb. 6, 1960	5.47	2,740
	June 13, 1942	5.46	2,700		Mar. 31, 1960	6.84	4,530
					Apr. 5, 1960	5.67	2,980
1943	Dec. 20, 1942	6.09	3,540				
	Apr. 20, 1943	5.54	2,820	1961	Feb. 26, 1961	5.59	2,920
	May 12, 1943	5.97	3,340		May 12, 1961	5.47	2,740

a From floodmarks at present site witnessed by local resident.
b Probably maximum for year.
c Estimated.

1615. South Fork New River near Crumpler, N.C.

Location.--Lat 36°32', long 81°22', 1.6 miles upstream from confluence of North Fork and South Fork New River, about 2¼ miles southeast of Weaversford, and 4 miles northeast of Crumpler, Ashe County.

Drainage area.--325 sq mi.

Gage.--Nonrecording. Altitude of gage is 2,550 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs and extended above on basis of area-velocity studies.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Oct. 24, 1908	7.00	10,600	1913	Mar. 27, 1913	6.7	9,640
1910	Sept. 1, 1910	3.5	3,190	1914	Jan. 31, 1914	3.5	3,190
				1915	Sept. 5, 1915	5.9	7,900
1911	Oct. 7, 1910	3.2	2,690				
1912	Oct. 18, 1911	3.98	4,080	1916	July 15, 1916	21.3	46,000

1621.1. Buffalo Creek at Warrensville, N.C.

Location.--Lat 36°27', long 81°31', at bridge 1 mile south of Warrensville, Ashe County, and 1 mile upstream from mouth.

Drainage area.--22.9 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and by slope-area measurement at 1,970 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 14, 1955	15.23	1,970	1959	Jan. 27, 1959	14.75	1,680
				1960	Aug. 6, 1960	13.38	990
1956	Sept.26, 1956	12.18	535				
1957	Apr. 5, 1957	14.40	1,500	1961	May 12, 1961	14.78	1,700
1958	Dec. 20, 1957	12.72	730				

1625. North Fork New River at Crumpler, N.C.
(Published as "near Crumpler" 1908-16)

Location.--Lat 36°30', long 81°23', a quarter of a mile downstream from bridge on State Highway 16 at Crumpler, Ashe County, and about 6 miles upstream from mouth.

Drainage area.--277 sq mi. At site used 1908-16, 279 sq mi.

Gage.--Nonrecording prior to Nov. 6, 1930; recording thereafter. At site 5½ miles downstream at different datum prior to Sept 30, 1916. At bridge a quarter of a mile upstream at different datum July 11, 1928, to Nov. 5, 1930. Datum of gage is 2,518.81 ft above mean sea level.

Stage-discharge relation.--At site 5½ miles downstream, defined by current-meter measurements below 1,500 cfs. At site a quarter of a mile upstream, defined by current-meter measurements below 1,900 cfs. At present site, prior to July 1953, relation was defined by current-meter measurements below 3,400 cfs and extended above on basis of slope-area measurements at 15,000 and 79,400 cfs. Defined by current-meter measurements below 6,600 cfs and extended above by logarithmic plotting since July 1953.

Remarks.--Base for partial-duration series, 3,600 cfs. Only annual peaks are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1878	Sept.12, 1878	a17.6	44,300
1901	Apr.20, May 22, 1901	b16.4	23,500
1909	Oct. 24, 1908	7.8	6,660
1910	Feb. 18, 1910	4.9	2,700
1911	Apr. 5, 1911	6.12	4,190
1912	Mar. 15, 1912	6.2	4,320
1913	Mar. 27, 1913	8.60	7,960
1914	Feb. 20, 1914	4.8	2,590
1915	Sept. 5, 1915	6.9	5,290
1916	July 15, 1916	a16.4	39,000
1928	Aug. 16, 1928	b6.84	5,970
1929	Oct. 23, 1928	5.2	3,880
	Feb. 28, 1929	7.0	6,250
	Mar. 5, 1929	6.2	5,130
	Mar. 14, 1929	5.2	3,880
	June 26, 1929	5.4	4,140
1930	Oct. 2, 1929	7.28	6,670
	Oct. 22, 1929	7.0	6,250
1931	Aug. 22, 1931	4.20	2,980
1932	May 1, 1932	5.38	4,570
1933	Feb. 8, 1933	4.78	3,670
1934	Mar. 27, 1934	5.17	4,220
1935	Nov. 29, 1934	4.8	3,670
	Jan. 9, 1935	5.7	5,030
	Mar. 26, 1935	7.03	7,500
	Sept. 6, 1935	6.1	5,730
1936	Nov. 13, 1935	6.18	5,910
	Jan. 19, 1936	5.13	4,370
	Mar. 25, 1936	4.74	3,810
	Apr. 6, 1936	5.20	4,530
1937	Jan. 3, 1937	4.57	3,450
1938	Oct. 19, 1937	4.84	3,670
	July 23, 1938	5.0	3,900
1939	Aug. 18, 1939	4.8	3,670
1940	Aug. 14, 1940	23.0	73,000
1941	Dec. 28, 1940	4.4	3,450
1942	Mar. 9, 1942	4.64	3,850
	Sept.27, 1942	4.63	3,850
1943	Dec. 30, 1942	6.70	7,780
	Apr. 19, 1943	5.53	5,170
1944	Feb. 18, 1944	6.18	6,620
	Sept.30, 1944	5.97	6,190
1945	Oct. 20, 1944	5.87	5,980
	Feb. 17, 1945	5.29	4,790
	May 18, 1945	8.53	11,400
	Sept.18, 1945	6.68	7,780
1946	Jan. 8, 1946	7.62	8,830
	Feb. 10, 1946	6.34	6,620
1947	Jan. 20, 1947	6.91	7,290
1948	Nov. 3, 1947	6.25	6,380
	Feb. 14, 1948	5.10	4,120
1949	Nov. 28, 1948	5.72	5,260
	Dec. 4, 1948	5.19	4,290
	June 17, 1949	5.27	4,380
	July 16, 1949	7.19	7,930
	Aug. 28, 1949	8.63	11,300
1950	Nov. 1, 1949	5.60	4,870
1951	Dec. 7, 1950	10.72	17,100
1952	Dec. 21, 1951	4.93	3,820
	Feb. 3, 1952	5.32	4,380
1953	Feb. 21, 1953	6.08	5,730
1954	Jan. 22, 1954	7.68	7,920
1955	Feb. 6, 1955	6.12	4,650
	Mar. 18, 1955	8.09	7,900
	Apr. 14, 1955	7.52	6,840
1956	Apr. 16, 1956	9.07	9,500
	Sept.27, 1956	5.68	4,050
1957	Jan. 30, 1957	7.22	6,060
	Apr. 5, 1957	9.40	10,000
	Aug. 9, 1957	6.36	4,900
1958	Dec. 20, 1957	5.31	3,600
	May 7, 1958	5.55	3,930
1959	Dec. 28, 1958	8.33	7,950

a Recent site and datum, from floodmark three-quarters of a mile upstream.
b Probably maximum for year.

1628. Mill Creek near Troutdale, Va.

Location.--Lat 36°40'06", long 81°24'24", at bridge on State Highway 16, 3 miles southeast of Troutdale, Grayson County.

Drainage area.--5.32 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 2,650 ft (from topographic map).

Stage-discharge relation.--Not defined.

Bankfull stage.--3.5 ft.

Remarks.--Only annual peak stages are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 6, 1951	3.57	-	1956	-	<2.1	-
				1957	-	2.48	-
1953	Feb. 20, 1953	2.1	-				
1954	-	<2.1	-	1959	-	2.70	-
1955	-	3.5	-	1960	July 2, 1960	3.66	-

1628.8. Little River tributary near Sparta, N.C.

Location.--Lat 36°30', long 81°06', at culvert on State Highway 18, half a mile upstream from mouth and 1¼ miles northeast of Sparta, Alleghany County.

Drainage area.--3.53 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by slope-area measurement at 175 cfs and by theoretical computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	-	-	a188	1959	Sept.30, 1959	15.77	188
				1960	March 1960	15.33	142
1956	-	-	a188				
1957	-	-	a188	1961	Aug. 17, 1961	20.9	930
1958	-	-	a160				

a Peak stage did not reach bottom of gage, peak discharge less than amount shown.

1640. New River near Galax, Va.

Location.--Lat 36°38'50", long 80°58'45", on left bank at upstream side of bridge on U.S. Highway 58, 500 ft downstream from Meadow Creek, 1.2 miles southwest of Old Town, 3.1 miles southwest of Galax, Carroll County, and 3.6 miles downstream from Elk Creek.

Drainage area.--1,131 sq mi.

Gage.--Recording. Datum of gage is 2,208.04 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs and extended above on basis of flow-over-dam and slope-area measurements at 141,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges of New River near Galax, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	9.0	33,100
	Dec. 2, 1929	a6.38	-
	Dec. 7, 1929	a5.01	-
	Dec. 26, 1929	a6.57	-
1931	Aug. 22, 1931	4.35	12,000
1932	May 1, 1932	3.96	9,470
1933	Oct. 17, 1932	6.54	22,000
	Dec. 21, 1932	a5.98	-
	Dec. 29, 1932	4.02	9,510
	Apr. 17, 1933	4.02	9,510
1934	Mar. 28, 1934	5.18	14,800
1935	Nov. 29, 1934	6.38	21,400
	Dec. 14, 1934	a4.96	-
	Jan. 9, 1935	6.64	22,600
	Jan. 23, 1935	4.54	11,600
	Mar. 26, 1935	5.97	18,200
	Sept. 6, 1935	7.38	24,900
1936	Nov. 13, 1935	6.34	20,800
	Jan. 3, 1936	5.54	16,400
	Jan. 20, 1936	5.15	14,800
	Jan. 31, 1936	4.93	13,400
	Feb. 4, 1936	a11.47	-
	Feb. 14, 1936	a12.13	-
	Mar. 18, 1936	4.28	10,700
1937	Oct. 17, 1936	5.22	14,800
	Jan. 3, 1937	4.44	11,100
	Jan. 20, 1937	4.37	11,100
	Sept. 8, 1937	3.97	9,320
1938	Oct. 19, 1937	6.00	19,200
	Dec. 12, 1937	a4.03	-
	May 30, 1938	4.12	9,900
	July 22, 1938	4.74	12,400
1939	Aug. 18, 1939	6.45	21,400
1940	Aug. 14, 1940	25.7	141,000
	Aug. 30, 1940	8.08	28,400
1941	Dec. 28, 1940	3.84	8,940
1942	Mar. 9, 1942	4.18	10,300
	May 22, 1942	4.51	11,500
	Sept. 6, 1942	5.33	15,000
	Sept.27, 1942	5.15	14,000
1943	Dec. 30, 1942	5.55	15,400
	Feb. 16, 1943	a5.35	-
	Feb. 19, 1943	a5.00	-
	Apr. 20, 1943	4.97	13,600
1944	Feb. 18, 1944	4.97	13,600
	Sept.30, 1944	4.84	12,700
1945	Oct. 21, 1944	5.46	15,900
	May 18, 1945	7.13	23,400
	Sept.18, 1945	9.90	38,000
1946	Dec. 19, 1945	a6.15	-
1946	Jan. 8, 1946	6.77	22,000
	Feb. 11, 1946	5.21	14,500
	Mar. 15, 1946	4.04	9,500
1947	Jan. 20, 1947	5.64	16,400
	Feb. 23, 1947	a4.30	-
1948	Oct. 18, 1947	4.55	11,900
	Nov. 3, 1947	5.37	15,400
	Feb. 14, 1948	4.77	12,700
1949	Nov. 29, 1948	4.95	13,600
	Dec. 4, 1948	5.58	16,400
	Apr. 14, 1949	4.82	12,700
	June 17, 1949	5.52	15,900
	July 14, 1949	3.92	9,120
	July 17, 1949	5.83	17,300
	Aug. 29, 1949	8.35	30,000
1950	Nov. 2, 1949	4.88	13,200
1951	Dec. 7, 1950	9.94	38,000
	Mar. 30, 1951	4.72	12,300
1952	Dec. 21, 1951	a5.90	-
	Feb. 4, 1952	4.67	12,300
	Mar. 11, 1952	5.24	14,500
1953	Feb. 21, 1953	5.48	15,900
	Mar. 24, 1953	5.37	15,400
1954	Jan. 23, 1954	5.60	16,400
	Feb. 21, 1954	5.07	14,100
	Mar. 1, 1954	4.82	12,700
1955	Feb. 7, 1955	4.73	12,300
	Mar. 19, 1955	5.43	15,400
	Apr. 14, 1955	7.19	23,900
1956	Apr. 16, 1956	6.34	19,600
	Sept.27, 1956	4.65	11,900
1957	Jan. 30, 1957	4.84	12,900
	Feb. 10, 1957	4.06	9,730
	Apr. 5, 1957	9.04	33,300
1958	Nov. 19, 1957	4.73	12,400
	Nov. 26, 1947	3.87	9,010
	Dec. 21, 1957	4.60	11,900
	Jan. 14, 1958	5.01	13,700
	Feb. 27, 1958	4.34	10,800
	May 8, 1958	4.55	11,500
1959	Dec. 29, 1958	7.10	23,400
	Jan. 22, 1959	4.70	12,200
	Sept.30, 1959	10.35	40,700
1960	Feb. 6, 1960	5.01	13,500
	Feb. 11, 1960	4.14	9,770
	Mar. 31, 1960	7.44	24,900
	Apr. 4, 1960	5.58	16,300
1961	Jan. 24, 1961	4.63	11,700
	Feb. 13, 1961	4.13	9,770
	Feb. 26, 1961	4.56	11,700
	May 12, 1961	7.77	26,900

a Backwater from ice.

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1650. Chestnut Creek at Galax, Va.

Location.--Lat 36°38'45", long 80°55'10", on right bank 200 ft upstream from bridge on State Highway 89, 0.6 mile south of Galax, Carroll County, and 1.7 miles downstream from Wards Mill Branch.

Drainage area.--39 sq mi, approximately.

Gage.--Nonrecording prior to June 25, 1948; recording thereafter. At site 200 ft upstream at datum 0.86 ft higher prior to May 29, 1953. Datum of gage is 2,344.17 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above on basis of contracted-opening measurement at 11,000 cfs and slope-area measurements at 6,900 and 2,400 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 700 cfs. Only annual peaks are shown prior to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	17.4	11,000	1955	Apr. 14, 1955	5.30	1,280
1945	Oct. 20, 1944	7.48	1,560	1956	Apr. 16, 1956	3.88	790
					Sept.27, 1956	6.08	1,560
1946	Jan. 7, 1946	3.35	502				
1947	June 14, 1947	6.20	1,120	1957	Feb. 26, 1957	4.15	878
1948	Oct. 17, 1947	14.4	6,980		Apr. 2, 1957	3.88	783
					Apr. 5, 1957	5.94	1,500
1949	Apr. 13, 1949	4.94	870		Sept.17, 1957	3.93	800
	June 17, 1949	9.58	2,540		Sept.29, 1957	4.15	878
	July 11, 1949	4.75	840				
	Aug. 28, 1949	8.68	2,180	1958	Dec. 21, 1957	4.79	1,100
					Jan. 14, 1958	3.93	800
1950	June 9, 1950	4.63	780		Feb. 26, 1958	4.60	1,040
	July 28, 1950	4.67	810				
				1959	Dec. 28, 1958	6.22	1,600
1951	Dec. 7, 1950	10.80	3,300		Jan. 21, 1959	3.83	772
					Sept. 1, 1959	5.32	1,280
1952	Feb. 3, 1952	4.65	780		Sept.30, 1959	11.25	4,100
	Mar. 11, 1952	9.60	2,540				
				1960	Feb. 5, 1960	4.87	1,140
1953	Nov. 21, 1952	4.63	780		Feb. 10, 1960	3.96	808
	Mar. 23, 1953	4.62	780		Apr. 3, 1960	4.15	878
1954	Jan. 22, 1954	3.73	738	1961	Feb. 25, 1961	4.87	1,140
	Feb. 21, 1954	6.73	1,770		May 11, 1961	5.08	1,210
	Mar. 1, 1954	8.17	2,300				
1955	Feb. 6, 1955	3.72	720				

1655. New River at Ivanhoe, Va.

Location.--Lat 36°50'05", long 80°57'10", on left bank at Ivanhoe, Wythe County, 2.1 miles downstream from Big Branch and 2.3 miles upstream from Cripple Creek.

Drainage area.--1,340 sq mi.

Gage.--Nonrecording prior to Dec. 16, 1930; recording thereafter. At site 600 ft downstream at datum 1.2 ft lower Oct. 15, 1916, to Dec. 15, 1930. Datum of gage is 1,943.09 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs and extended above on basis of flood records for other stations on New River.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series 13,500 cfs. Only observed annual maximum stages from records of U.S. Weather Bureau for 1917-30 are shown.

Peak stages and discharges of New River at Ivanhoe, Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1878	September 1878	a30	100,000
1913	May 24, 1913	-	b16,000
1916	July 16, 1916	c34.8	132,000
1917	Mar. 5, 1917	5.2	-
1918	Jan. 29, 1918	7.0	-
1919	Oct. 26, 1918	16.0	-
1920	Apr. 3, 1920	6.8	-
1921	Dec. 15, 1920	7.6	-
1922	June 5, 1922	7.9	-
1923	Mar. 17, 1923	6.7	-
1924	Jan. 17, 1924	9.4	-
1925	Dec. 9, 1924	4.8	-
1926	Jan. 19, 1926	7.5	-
1927	Nov. 16, 1926	9.0	-
1928	Aug. 17, 1928	12.9	-
1929	Feb.28,June 26, 28, 1929	4.0	-
1930	Oct. 2, 1929	20.0	-
1931	Aug. 22, 1931	8.25	13,200
1932	Jan. 1, 1932	7.22	10,500
1933	Oct. 17, 1932	12.44	23,100
1934	Mar. 28, 1934	10.32	19,200
	Sept.16, 1934	9.64	17,200
1935	Nov. 29, 1934	12.35	23,100
	Dec. 1, 1934	11.57	21,000
	Jan. 9, 1935	12.40	23,100
	Jan. 23, 1935	8.98	14,500
	Mar. 26, 1935	10.77	19,000
	Sept. 6, 1935	13.22	25,200
1936	Nov. 13, 1935	12.32	22,800
	Jan. 3, 1936	9.02	14,500
	Jan. 19, 1936	9.56	16,000
	Feb. 15, 1936	8.77	14,000
	Mar. 17, 1936	8.97	14,500
	Apr. 7, 1936	9.33	15,200
1937	Oct. 17, 1936	10.27	17,700
1938	Oct. 19, 1937	12.16	22,600
	July 22, 1938	9.64	16,000
	July 24, 1938	8.56	13,500
1939	Aug. 19, 1939	12.29	22,800
1940	Aug. 14, 1940	38.1	155,000
	Aug. 30, 1940	16.3	35,700
1941	Dec. 28, 1940	8.67	13,800
1942	May 22, 1942	8.94	14,300
	Sept. 6, 1942	10.26	17,700
	Sept.28, 1942	10.24	17,400
1943	Dec. 30, 1942	10.22	17,400
	Apr. 20, 1943	9.61	16,000
1944	Feb. 18, 1944	10.44	18,000
1945	Oct. 1, 1944	9.23	15,000
	Oct. 21, 1944	10.02	17,000
	May 18, 1945	12.67	23,900
	Sept.18, 1945	17.3	39,700
1946	Jan. 8, 1946	12.3	22,800
	Feb. 11, 1946	9.57	16,000
1947	Jan. 20, 1947	10.63	18,400
1948	Oct. 18, 1947	12.02	22,000
	Nov. 3, 1947	10.00	17,000
	Feb. 14, 1948	9.76	16,400
1949	Nov. 29, 1948	9.22	15,000
	Dec. 4, 1948	10.41	18,000
	Apr. 14, 1949	8.68	13,800
	June 17, 1949	10.28	17,700
	Aug. 29, 1949	14.51	29,200
1950	Nov. 2, 1949	8.56	13,500
1951	Dec. 8, 1950	16.97	38,500
	Mar. 30, 1951	9.05	14,800
1952	Dec. 21, 1951	11.42	21,000
	Feb. 4, 1952	9.08	15,100
	Mar. 11, 1952	11.46	21,300
1953	Feb. 22, 1953	9.87	17,100
	Mar. 24, 1953	10.83	19,500
1954	Jan. 23, 1954	10.68	19,200
	Feb. 21, 1954	9.64	16,400
	Mar. 1, 1954	10.80	19,500
1955	Feb. 7, 1955	9.02	14,800
	Mar. 19, 1955	9.80	16,900
	Apr. 14, 1955	12.92	25,000
1956	Apr. 16, 1956	11.06	20,300
	Sept.28, 1956	8.52	13,600
1957	Jan. 29, 1957	9.28	15,500
	Apr. 5, 1957	15.90	34,200
	Apr. 9, 1957	9.94	17,200
1958	Jan. 14, 1958	12.02	22,700
1959	Dec. 29, 1958	12.61	24,200
	Jan. 22, 1959	8.58	13,800
	Sept.30, 1959	17.88	42,100
1960	Feb. 6, 1960	9.03	14,800
	Mar. 31, 1960	13.24	25,900
	Apr. 4, 1960	10.38	18,400
1961	May 12, 1961	14.39	29,200

a Approximate stage, highest known during period 1840 to 1916.
b Maximum daily discharge, from records of Appalachian Power Co.
c From floodmarks, present datum.

1660. Cripple Creek near Ivanhoe, Va.

Location.--Lat 36°51'35", long 80°58'50", at highway bridge 2 miles northwest of Ivanhoe, Wythe County, and 2.8 miles upstream from mouth.

Drainage area.--148 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,990 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 760 cfs.

Bankfull stage.--4 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	-	a4,000	1932	May 1, 1932	3.6	1,190
				1933	Feb. 8, 1933	3.7	1,240
1931	Apr. 4, 1931	4.1	1,440	1934	Mar. 28, 1934	3.6	1,190

a Estimated; not previously published.

1670. Reed Creek at Grahams Forge, Va.

Location.--Lat 36°56'20". long 80°53'15", on right bank 35 ft upstream from highway bridge at Grahams Forge, Wythe County, 2.2 miles downstream from Glade Creek, and 7.3 miles upstream from mouth.

Drainage area.--247 sq mi.

Gage.--Nonrecording prior to Oct. 29, 1934; recording thereafter. At same site at datum 0.68 ft lower prior to Feb. 3, 1927. Datum of gage is 1,924.65 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,600 cfs and extended above on basis of velocity-area studies.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 2,300 cfs. Only annual peaks are shown prior to 1935.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	May 1, 1909	5.6	3,200	1936	Jan. 19, 1936	4.98	4,090
1910	June 13, 1910	5.3	2,800		Feb. 15, 1936	5.25	4,460
					Mar. 17, 1936	4.75	3,640
1911	Jan. 30, 1911	5.5	3,100		Apr. 6, 1936	5.39	4,840
1912	Mar. 29, 1912	6.3	4,400				
1913	Mar. 27, 1913	a10.5	15,200	1937	Jan. 20, 1937	4.52	3,210
1914	Mar. 12, 1941	4.7	2,060		Aug. 31, 1937	4.88	3,910
1915	Jan. 7, 1915	5.4	3,000				
				1938	Oct. 19, 1937	4.83	3,820
1916	July 16, 1916	a11.4	17,500		July 23, 1938	4.23	2,790
1927	Apr. 22, 1927	4.4	3,040	1939	Jan. 30, 1939	3.98	2,390
1928	Aug. 16, 1928	4.3	2,870				
1929	June 9, 1929	6.4	6,850	1940	Apr. 20, 1940	4.46	3,120
1930	Oct. 2, 1929	6.0	6,020		May 31, 1940	4.27	2,790
					Aug. 14, 1940	4.82	3,730
1931	Apr. 4, 1931	4.5	3,210				
1932	May 1, 1932	5.0	4,090	1941	Mar. 11, 1941	3.31	1,380
1933	Dec. 28, 1932	4.3	2,870				
1934	Mar. 27, 1934	5.6	5,220	1942	May 22, 1942	5.24	4,230
					June 20, 1942	4.69	3,270
1935	Nov. 29, 1934	5.60	5,220		Aug. 13, 1942	4.26	2,550
	Jan. 9, 1935	5.35	4,740		Sept. 27, 1942	4.38	2,780
	Jan. 23, 1935	7.33	8,800				
	Mar. 26, 1935	4.75	3,640	1943	Dec. 30, 1942	5.41	4,500
	May 35, 1935	4.57	3,300		Apr. 20, 1943	4.29	2,630
	July 8, 1935	4.55	3,300				
				1944	Feb. 18, 1944	6.60	6,940
1936	Nov. 13, 1935	6.86	7,920		Feb. 29, 1944	4.92	3,580
	Jan. 3, 1936	4.05	2,470		Mar. 29, 1944	4.21	2,490

a Present datum.

Peak stages and discharges of Reed Creek at Grahams Forge, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Oct. 21, 1944	4.53	3,020	1954	Jan. 23, 1954	5.56	4,820
	Feb. 18, 1945	5.76	5,200		Mar. 1, 1954	4.51	2,940
	May 18, 1945	4.72	3,260		July 21, 1954	4.40	2,790
	Sept.18, 1945	4.84	3,500				
				1955	Feb. 7, 1955	4.50	2,940
1946	Jan. 8, 1946	6.49	6,700		Mar. 1, 1955	5.76	4,960
	Feb. 11, 1946	5.12	3,920		Mar. 7, 1955	5.14	3,790
					Mar. 17, 1955	5.93	5,140
1947	Jan. 16, 1947	4.13	2,420		Mar. 19, 1955	6.0	5,320
	Jan. 20, 1947	6.1	5,820		Apr. 14, 1955	6.63	6,720
1948	Feb. 14, 1948	6.10	5,820	1956	Apr. 16, 1956	5.72	4,780
	Apr. 8, 1948	4.45	2,860				
				1957	Jan. 10, 1957	4.17	2,420
1949	Dec. 4, 1948	5.55	4,820		Jan. 30, 1957	7.25	7,800
	May 1, 1949	4.54	3,020		Feb. 9, 1957	6.31	6,000
	June 17, 1949	5.02	3,750		Apr. 5, 1957	6.30	6,000
	Aug. 29, 1949	4.72	3,260		Apr. 9, 1957	5.71	4,880
1950	Jan. 31, 1950	4.34	2,720	1958	Nov. 19, 1957	4.32	2,580
	Feb. 2, 1950	4.92	3,580		Nov. 25, 1957	4.38	2,650
	May 3, 1950	4.34	2,720		Jan. 14, 1958	4.57	2,900
	July 29, 1950	4.50	2,940		Mar. 27, 1958	4.56	2,890
					Mar. 31, 1958	5.59	4,820
1951	Dec. 4, 1950	4.37	2,720		May 7, 1958	4.60	2,940
	Dec. 8, 1950	5.22	4,090				
				1959	Apr. 13, 1959	5.30	4,100
1952	Jan. 29, 1952	3.60	1,690				
				1960	Feb. 6, 1960	4.64	3,180
1953	Feb. 21, 1953	5.21	4,090		Feb. 11, 1960	4.46	2,860
	Mar. 5, 1953	5.12	3,920		Mar. 31, 1960	5.21	4,060
	Mar. 24, 1953	4.75	3,340		Apr. 3, 1960	4.47	2,860
	May 7, 1953	4.14	2,420				
	June 17, 1953	5.12	3,920	1961	Feb. 26, 1961	4.29	2,640
	July 7, 1953	4.87	3,500		May 12, 1961	7.11	7,600

1675. Big Reed Island Creek near Allisonia, Va.

Location.--Lat 36°53'20", long 80°43'40", on left bank 700 ft downstream from highway bridge, 3.5 miles southeast of Allisonia, Pulaski County, 4 miles upstream from Little Reed Island Creek, and 4.5 miles upstream from mouth.

Drainage area.--278 sq mi. At 1908-16 site, 291 sq mi.

Gage.--Nonrecording prior to Apr. 27, 1939; recording thereafter. At site 4 miles downstream at different datum prior to Apr. 27, 1939. Datum of gage is 1,902.74 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above on basis of logarithmic plotting and velocity-area study for 1909-16 site. Defined by current-meter measurements below 6,000 cfs and extended above on basis of slope-area measurement at 14,500 cfs for present site.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 3,500 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	4.2	4,110	1940	May 30, 1940	6.29	3,880
1910	June 13, 1910	4.6	4,660		Aug. 14, 1940	11.70	13,000
					Aug. 30, 1940	7.86	6,530
1911	Oct. 7, 1910	3.4	3,070				
1912	May 12, 1912	6.6	7,500	1941	July 7, 1941	6.37	4,020
1913	Mar. 14, 1913	5.4	5,780				
1914	Jan. 31, 1914	3.6	3,330	1942	Mar. 9, 1942	6.10	3,620
1915	Jan. 7, 1915	5.6	6,060		May 22, 1942	6.33	3,880
					Sept.27, 1942	6.20	3,750
1916	July 16, 1916	a14.8	-				
				1943	May 12, 1943	6.56	4,160
1939b/	Aug. 18, 1939	6.52	4,160		May 26, 1943	7.36	5,550
1940	Apr. 20, 1940	6.90	4,740	1944	July 15, 1944	5.63	3,340

a Affected by backwater from New River.
b Partial year.

Peak stages and discharges of Big Reed Island Creek near Allisonia, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Oct. 21, 1944	7.88	6,530	1953	Dec. 10, 1952	7.00	4,890
	Dec. 15, 1944	6.50	4,160		Feb. 21, 1953	7.60	5,920
	Jan. 1, 1945	6.35	4,020		Mar. 24, 1953	8.71	8,500
	June 10, 1945	9.32	8,670		June 17, 1953	6.30	3,880
	Sept.18, 1945	8.77	8,800	1954	Jan. 22, 1954	6.44	4,020
1946	Jan. 8, 1946	7.43	5,550		Feb. 21, 1954	6.85	4,590
	Feb. 10, 1946	6.29	3,880		Mar. 1, 1954	9.05	9,450
	Mar. 15, 1946	6.59	4,300	1955	Oct. 15, 1954	6.46	4,000
	July 2, 1946	6.13	3,620		Feb. 6, 1955	6.33	3,720
	July 9, 1946	6.39	4,020		Apr. 14, 1955	7.46	5,550
1947	Jan. 20, 1947	6.23	3,750	1956	Apr. 16, 1956	7.16	5,070
	June 14, 1947	10.3	10,500		Sept.27, 1956	6.54	4,000
	June 30, 1947	6.55	4,300	1957	Apr. 5, 1957	7.96	6,140
1948	Oct. 18, 1947	7.73	6,120		Apr. 9, 1957	6.43	3,870
	Oct. 28, 1947	6.94	4,740		Sept.17, 1957	9.00	8,610
	Feb. 14, 1948	7.16	5,210	1958	Jan. 14, 1958	6.54	4,010
	Apr. 1, 1948	6.80	4,590	1959	Dec. 29, 1958	9.07	8,310
1949	Dec. 4, 1948	6.75	4,590		Jan. 22, 1959	6.36	3,810
	Mar. 23, 1949	6.80	4,590		Sept. 1, 1959	7.12	5,010
	May 1, 1949	6.29	3,880		Sept.30, 1959	12.54	14,500
	Aug. 29, 1949	7.38	5,550	1960	Feb. 5, 1960	6.50	4,050
1950	May 29, 1950	6.16	3,750		Feb. 11, 1960	8.15	6,770
1951	Dec. 7, 1950	9.70	9,390		Mar. 30, 1960	7.55	5,810
	Feb. 7, 1951	6.43	4,020		Apr. 5, 1960	6.37	3,810
	Mar. 30, 1951	6.26	3,880	1961	Feb. 25, 1961	6.32	3,730
	Apr. 12, 1951	6.23	3,750				
1952	Dec. 21, 1951	7.95	6,750				
	Mar. 11, 1952	9.92	9,750				

1680. New River at Allisonia, Va.

Location.--Lat 36°56'15", long 80°44'45", a quarter of a mile downstream from Big Reed Island Creek and half a mile upstream from Allisonia, Pulaski County.

Drainage area.--2,202 sq mi.

Gage.--Recording. Datum of gage is 1,848.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 52,000 cfs and extended above on basis of flood records for other stations on New River.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 17,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	11.14	59,800	1936	Nov. 13, 1935	7.52	32,000
	Oct. 22, 1929	6.81	27,000		Jan. 3, 1936	5.71	19,900
	Nov. 18, 1929	6.05	21,800		Jan. 20, 1936	6.33	23,800
1931	Aug. 23, 1931	4.78	13,500		Feb. 14, 1936	6.51	25,200
1932	May 2, 1932	4.72	13,000		Mar. 17, 1936	6.53	25,200
1933	Oct. 17, 1932	6.63	25,700		Apr. 7, 1936	6.30	23,800
1934	Mar. 28, 1934	6.48	24,700	1937	Oct. 17, 1936	5.85	20,600
	Sept.16, 1934	5.57	18,900		Jan. 20, 1937	5.72	19,900
1935	Nov. 29, 1934	8.28	38,000	1938	Oct. 19, 1937	8.33	38,000
	Jan. 9, 1935	7.38	31,400		July 24, 1938	6.29	23,800
	Jan. 23, 1935	6.90	27,900	1939	Aug. 19, 1939	6.79	27,200
	Mar. 26, 1935	6.63	25,800	1940	Aug. 14, 1940	23.42	185,000
	Sept. 6, 1935	7.46	32,000		Aug. 30, 1940	9.77	47,600

Peak stages and discharges of New River at Allisonia, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 28, 1940	5.05	15,600	1952	Feb. 4, 1952	5.60	18,300
	July 8, 1941	5.03	15,600		Mar. 11, 1952	7.67	31,500
1942	May 22, 1942	6.69	26,300	1953	Feb. 21, 1953	7.20	28,200
	Sept. 7, 1942	5.73	19,900		Mar. 24, 1953	7.58	30,800
	Sept.28, 1942	6.32	23,700				
				1954	Jan. 23, 1954	6.83	25,600
1943	Dec. 30, 1942	6.82	27,000		Feb. 21, 1954	6.01	20,700
	Apr. 20, 1943	6.05	21,800		Mar. 1, 1954	8.03	33,400
1944	Feb. 18, 1944	6.84	27,000	1955	Feb. 7, 1955	5.68	18,900
					Mar. 19, 1955	6.57	24,400
1945	Oct. 21, 1944	6.71	26,300		Apr. 14, 1955	8.37	36,200
	May 18, 1945	7.58	32,200				
	Sept.18, 1945	10.72	54,700	1956	Apr. 16, 1956	7.16	28,200
1946	Jan. 8, 1946	8.39	37,500	1957	Jan. 30, 1957	6.84	25,900
	Feb. 11, 1946	6.46	25,000		Feb. 9, 1957	5.92	20,200
					Apr. 5, 1957	10.54	51,300
1947	Jan. 21, 1947	7.09	28,900		Sept.17, 1957	5.99	20,600
1948	Oct. 18, 1947	7.30	30,200	1958	Nov. 19, 1957	5.76	19,300
	Nov. 3, 1947	5.90	21,200		Jan. 14, 1958	7.05	27,300
	Feb. 14, 1948	7.31	30,200		Feb. 27, 1958	5.71	19,000
					May 8, 1958	5.82	19,600
1949	Nov. 29, 1948	5.88	20,100				
	Dec. 4, 1948	7.17	28,200	1959	Dec. 29, 1958	8.39	36,200
	Apr. 14, 1949	5.72	18,900		Jan. 22, 1959	5.90	20,100
	June 17, 1949	6.52	23,700		Sept.30, 1959	12.05	64,200
	July 17, 1949	6.43	23,100				
	Aug. 29, 1949	8.63	37,600	1960	Feb. 6, 1960	6.56	24,400
					Feb. 11, 1960	5.68	18,900
1950	Nov. 2, 1949	5.20	16,000		Mar. 31, 1960	8.75	39,000
					Apr. 4, 1960	6.95	27,000
1951	Dec. 8, 1950	10.32	49,500				
	Mar. 30, 1951	6.10	21,300	1961	Feb. 25, 1961	5.81	19,500
					May 12, 1961	9.98	47,400
1952	Dec. 21, 1951	6.32	22,500				

1685. Peak Creek at Pulaski, Va.

Location.--Lat 37°02'50", long 80°46'35", on right bank at upstream side of bridge on Second Street at Pulaski, Pulaski County, 0.6 mile downstream from Track Fork and 8.7 miles upstream from mouth.

Drainage area.--60.9 sq mi; 58.3 sq mi prior to 1951.

Gage.--Nonrecording prior to June 1951, recording June 1951 to September 1957; crest-stage gage thereafter. At site 0.2 mile upstream at datum 5.14 ft higher prior to June 1951. Datum of gage is 1,897.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above by logarithmic plotting for 1927-53. Defined by current-meter measurements below 2,300 cfs and extended above on basis of slope-area measurement at 4,830 cfs for 1951-57.

Remarks.--Base for partial-duration series, 800 cfs. Only annual peaks are shown prior to 1952 and subsequent to 1957.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Apr. 22, 1927	9.2	2,850	1953	Jan. 21, 1953	4.41	830
1928	Nov. 17, 1927	9.10	2,790		Feb. 21, 1953	7.54	2,430
1929	June 9, 1929	10.6	3,680		Mar. 4, 1953	6.51	1,850
1930	Oct. 2, 1929	10.8	3,890		Mar. 24, 1953	5.86	1,550
					May 7, 1953	4.42	830
1931	Apr. 4, 1931	7.0	1,600		June 7, 1953	7.65	2,500
1932	May 1, 1932	8.4	2,370				
1933	Dec. 28, 1932	6.2	1,220	1954	Jan. 16, 1954	5.25	1,220
					Jan. 22, 1954	7.59	2,500
1952	Mar. 4, 1952	4.38	830		Feb. 21, 1954	4.76	988
	Mar. 23, 1952	4.81	1,010		Mar. 1, 1954	10.03	4,830
	Apr. 28, 1952	4.70	965				

Peak stages and discharges of Peak Creek at Pulaski, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 6, 1955	6.85	2,000	1957	Feb. 9, 1957	6.57	1,890
	Feb. 28, 1955	6.17	1,700		Apr. 5, 1957	8.72	3,650
	Mar. 6, 1955	6.60	1,900		Apr. 8, 1957	7.34	2,420
	Mar. 16, 1955	5.17	1,180				
	Mar. 18, 1955	5.92	1,550	1958	-	6.12	1,650
				1959	Sept.30, 1959	6.98	2,160
1956	Apr. 16, 1956	5.62	1,400	1960	Feb. 6, 1960	6.02	1,600
1957	Nov. 1, 1956	4.90	1,090	1961	(a)	4.78	1,050
	Jan. 29, 1957	9.24	4,140				

a No record Mar. 16 to Sept. 30.

1686. Peak Creek tributary near Pulaski, Va.

Location.--Lat 37°04'19", long 80°46'25", at culvert on State Highway 636, 2 miles north of Pulaski, Pulaski County.

Drainage area.--0.61 sq mi.

Gage.--Crest-stage gage. Datum of gage is 1,983.82 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Peak discharges determined by flow-through-culvert computations.

Bankfull stage.--4.5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	August 1949	9.71	340	1957	Jan. 29, 1957	5.8	76
				1958	-	8.33	228
1952	-	-	a12	1959	Dec. 29, 1958	5.54	64
1953	-	3.92	18	1960	Mar. 30, 1960	3.46	-
1954	Mar. 1, 1954	5.90	80				
1955	Feb. 6, 1955	5	47	1961	Aug. 26, 1961	4.50	-
1956	Apr. 16, 1956	4.60	35				

a Peak stage did not reach bottom of gage, peak discharge less than figure shown.

1695. Little River near Copper Valley, Va.

Location.--Lat 37°00'00", long 80°31'10", at highway bridge 600 ft above mouth of Indian Creek, half a mile north of Copper Valley, Floyd County, and 5 miles south of Childress.

Drainage area.--239 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended above by logarithmic plotting and velocity-area study.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900a/	-	13	a9,000	1913	Mar. 14, 1913	8.8	4,210
				1914	Jan. 31, 1914	6.8	2,380
1909	Apr. 14, 1909	8.8	4,210	1915	Jan. 7, 1915	8.4	3,830
1910	June 14, 1910	7.3	2,820				
				1916	July 15, 1916	9.07	4,500
1911	Apr. 5, 1911	6.0	1,720				
1912	May 12, 1912	8.7	4,120	1940	Aug. 14, 1940	-	14,000

a About.

1700. Little River at Graysonton, Va.

Location.--Lat 37°02'15", long 80°33'25", at highway bridge at Snowville, Pulaski County, half a mile upstream from Graysonton, 7 miles south of Radford, and 8.6 miles upstream from mouth.

Drainage area.--300 sq mi.

Gage.--Nonrecording prior to Nov. 20, 1931; recording thereafter. At site 1 mile downstream at datum 17.99 ft lower prior to Nov. 20, 1931. At site 1¼ miles downstream at datum 20.58 ft lower Nov. 20, 1931, to Nov. 12, 1941. Datum of gage is 1,816.04 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs for 1929-31. Defined by current-meter measurements below 3,500 cfs and extended above on basis of slope-area measurements near Floyd and near Copper Valley, and on basis of flood records for other stations in New River basin for 1932-41. Defined by current-meter measurements below 6,000 cfs and extended above on basis of slope-area measurement at 18,500 cfs since 1941.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 3,000 cfs. Only annual peaks are shown prior to 1931.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 2, 1929	8.0	6,180
1930	Oct. 2, 1929	12.84	13,500
1931	Aug. 22, 1931	4.90	2,100
1932	May 1, 1932	4.96	2,820
1933	Oct. 17, 1932	11.44	10,300
1934	Mar. 28, 1934	5.30	3,080
	Sept.16, 1934	6.90	4,630
1935	Dec. 1, 1934	11.04	9,740
	Jan. 9, 1935	6.07	3,820
	Jan. 23, 1935	7.78	5,620
	Mar. 13, 1935	5.67	3,440
	Mar. 25, 1935	5.34	3,080
	Sept. 6, 1935	8.79	6,820
1936	Jan. 3, 1936	9.00	7,070
	Jan. 6, 1936	5.78	3,530
	Jan. 19, 1936	7.37	5,180
	Feb. 14, 1936	a14.61	9,200
	Mar. 17, 1936	8.23	6,100
	Mar. 21, 1936	6.06	3,820
	Apr. 6, 1936	5.65	3,350
1937	Oct. 17, 1936	9.92	8,240
	Jan. 19, 1937	7.26	5,070
	Aug. 25, 1937	5.95	3,720
1938	Oct. 4, 1937	6.99	4,740
	Oct. 19, 1937	11.55	10,600
	Oct. 27, 1937	5.43	3,170
1939	July 21, 1939	7.55	5,400
	Aug. 19, 1939	10.67	9,320
1940	Apr. 20, 1940	7.99	5,860
	May 25, 1940	6.38	4,120
	May 31, 1940	6.52	4,220
	Aug. 14, 1940	16.44	17,700
	Aug. 31, 1940	12.13	11,300
1941	Apr. 5, 1941	2.61	1,290
1942	Aug. 13, 1942	6.18	7,080
	Aug. 16, 1942	4.30	3,470
1943	Dec. 30, 1942	4.68	4,140
	Apr. 19, 1943	4.40	3,630
	July 10, 1943	4.62	3,970
1944	May 24, 1944	4.75	4,230
	Sept.18, 1944	6.44	7,520
	Sept.29, 1944	4.62	3,970
1945	Oct. 21, 1944	7.63	9,420
	Jan. 1, 1945	4.05	3,080
	Sept.18, 1945	8.30	11,000
1946	Jan. 8, 1946	5.70	6,040
	Feb. 10, 1946	5.12	4,870
	Mar. 15, 1946	4.02	3,000
1947	Jan. 20, 1947	4.73	4,230
	June 14, 1947	6.10	6,870
1948	Feb. 14, 1948	6.42	7,500
	Aug. 4, 1948	4.39	3,630
1949	Nov. 29, 1948	4.36	3,550
	Dec. 4, 1948	7.36	9,000
	Mar. 23, 1949	4.40	3,630
	Apr. 13, 1949	4.53	3,870
	May 16, 1949	5.33	5,110
	June 30, 1949	4.88	4,430
	July 16, 1949	4.40	3,630
	Aug. 15, 1949	5.21	4,940
	Aug. 29, 1949	7.64	9,420
1950	Nov. 2, 1949	4.39	3,630
	May 31, 1950	4.08	3,150
	Sept.10, 1950	4.58	3,950
	Sept.11, 1950	4.03	3,080
1951	Dec. 8, 1950	10.4	13,900
	Apr. 12, 1951	4.60	3,950
	June 10, 1951	5.20	4,940
1952	Dec. 21, 1951	5.70	5,790
	Feb. 4, 1952	4.26	3,390
	Mar. 11, 1952	6.28	6,860
	Sept. 1, 1952	6.01	6,320
1953	Feb. 21, 1953	4.02	3,000
	Mar. 24, 1953	6.69	7,610
1954	Jan. 22, 1954	4.08	3,150
	Feb. 21, 1954	4.43	3,710
	Mar. 1, 1954	4.60	3,950
1955	Oct. 16, 1954	7.11	8,400
	Feb. 7, 1955	4.00	3,000
	Apr. 14, 1955	4.12	3,150

a Backwater from ice.

Peak stages and discharges of Little River at Graysonton, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 18, 1955	4.87	4,430	1959	Dec. 29, 1958	7.58	8,920
					Sept.30, 1959	12.76	18,500
1956	Apr. 16, 1956	5.02	4,600				
	Sept.27, 1956	4.48	3,790	1960	Feb. 6, 1960	4.63	4,030
					Feb. 11, 1960	5.33	5,070
1957	Apr. 5, 1957	4.82	4,300		Mar. 30, 1960	5.25	4,910
	Apr. 9, 1957	4.05	3,080		Apr. 5, 1960	4.13	3,230
	Sept.17, 1957	7.71	9,660				
				1961	Feb. 15, 1961	4.46	3,710
1958	Jan. 14, 1958	4.59	3,930		May 11, 1961	5.33	5,070
	Feb. 27, 1958	4.10	3,150				

1710. New River at Radford, Va.

Location.--Lat 37°08'30", long 80°34'10", on left bank 2,000 ft downstream from bridge on U.S. Highway 11 at Radford, Montgomery County, 5 miles downstream from Little River, and 5½ miles downstream from Claytor Dam.

Drainage area.--2,748 sq mi.

Gage.--Nonrecording prior to Aug. 31, 1939; recording thereafter. At site 2,000 ft upstream at datum 2.56 ft higher prior to Dec. 1, 1903, and 1916-39, and at datum 0.85 ft lower Dec. 1, 1903, to Sept. 30, 1915. Datum of gage is 1,712.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1959.

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs and extended above on basis of curve of relation and 1941 rating, for 1896-1939. Defined by current-meter measurements below 73,000 cfs and extended above on basis of records for other stations on New River and flow over Claytor Dam (computed by Appalachian Power Co.) since 1939.

Bankfull stage.--7 ft.

Remarks.--Gage-height records for 1896-97, and 1916-39 from reports of U.S. Weather Bureau. Only annual peaks are shown. Flow regulated since May 1939 by Claytor Reservoir (usable capacity, 100,000 acre-ft).

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	Sept.15, 1878	a37.4	217,000	1922	Nov. 2, 1921	7.7	31,000
				1923	June 13, 1923	6.7	27,500
1896	Apr. 1, 1896	13.0	52,400	1924	Jan. 17, 1924	10.9	42,600
1897	Feb. 22, 1897	16.0	67,200	1925	Dec. 9, 1924	5.7	22,800
1898	Sept.23, 1898	9.6	37,200				
1899	Mar. 5, 1899	12.6	50,600	1926	Jan. 19, 1926	9.7	37,000
1900	Mar. 1, 1900	8.6	34,000	1927	Nov. 16, 1926	9.1	34,500
				1928	Aug. 17, 1928	a13.8	55,700
1901	May 22, 1901	26.8	147,000	1929	Mar. 1, 1929	6.8	28,000
1902	Dec. 29, 1901	22.6	111,000	1930	Oct. 2, 1929	17.7	76,200
1903	Mar. 23, 1903	15.6	65,200				
1904	Mar. 8, 1904	8.0	18,300	1931	Aug. 23, 1931	5.0	19,600
1905	July 13, 1905	21.6	79,800	1932	May 2, 1932	5.1	20,100
				1933	Oct. 18, 1932	8.7	34,000
1906	Jan. 23, 1906	18.0	60,200	1934	Mar. 28, 1934	6.0	24,200
1907	June 13, 1907	20.0	70,400	1935	Nov. 29, 1934	a11.4	44,800
1908	Jan. 12, 1908	14.0	41,600				
1909	May 21, 1909	15.0	46,200	1936	Feb. 15, 1936	10.0	38,500
1910	June 14, 1910	11.0	31,000	1937	Jan. 21, 1937	8.0	32,000
				1938	Oct. 20, 1937	12.0	47,500
1911	Apr. 6, 1911	8.8	21,900	1939	Feb. 17, 1939	4.0	15,300
1912	Mar. 16, 1912	10.8	30,500	1940	Aug. 14, 1940	35.96	218,000
1913	Mar. 27, 1913	15.0	46,200				
1914	Feb. 21, 1914	7.0	14,000	1941	Dec. 29, 1940	4.96	13,200
1915	Dec. 5, 1914	13.6	38,700	1942	May 22, 1942	10.13	31,300
				1943	Dec. 31, 1942	7.85	22,500
1916	July 16, 1916	a35.7	200,000	1944	Feb. 18, 1944	10.32	32,100
1917	Mar. 5, 1917	8.0	32,000	1945	Sept.18, 1945	17.0	62,700
1918	Jan. 29, 1918	10.0	38,500				
1919	Oct. 26, 1918	a16.5	69,400	1946	Jan. 8, 1946	13.07	44,400
1920	Apr. 3, 1920	5.0	19,600	1947	Jan. 20, 1947	10.86	34,500
				1948	Feb. 14, 1948	10.86	34,500
1921	Feb. 12, 1921	6.0	24,200	1949	Aug. 29, 1949	12.31	40,800

a Crest, from reports of U.S. Weather Bureau, 1904-15 datum.

Peak stages and discharges of New River at Radford, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Nov. 2, 1949	5.58	15,200	1956	Apr. 16, 1956	10.63	33,300
				1957	Apr. 6, 1957	15.33	54,400
1951	Dec. 8, 1950	16.86	62,200	1958	May 8, 1958	7.02	19,700
1952	Mar. 11, 1952	9.30	28,100	1959	Dec. 29, 1958	12.16	40,300
1953	Feb. 21, 1953	11.00	34,900	1960	Oct. 1, 1959	18.64	71,000
1954	Mar. 1, 1954	13.90	48,000				
1955	Apr. 15, 1955	10.26	32,100	1961	May 12, 1961	13.95	48,400

1715. New River at Eggleston, Va.

Location.--Lat 37°17'22", long 80°37'01", on left bank 50 ft downstream from highway bridge at Eggleston, Giles County, 1.9 miles downstream from Spruce Run, and 7.8 miles upstream from Walker Creek.

Drainage area.--2,941 sq mi.

Gage.--Nonrecording prior to July 2, 1926; recording thereafter. Datum of gage is 1,615.59 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 49,000 cfs and extended above on basis of flood records for other stations on New River.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 21,000 cfs. Only annual peaks are shown prior to 1927 subsequent to 1938. Flow regulated since May 1939 by Claytor Reservoir (usable capacity, 100,000 acre-ft), 30 miles above station.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	September 1878	40	209,000	1934	Mar. 28, 1934	12.71	29,200
					Sept.17, 1934	10.94	22,800
1915	Dec. 5, 1914	14.2	39,800				
				1935	Nov. 29, 1934	16.18	44,800
1916	July 16, 1916	39.5	204,000		Jan. 10, 1935	13.79	34,900
1917	Mar. 5, 1917	11.86	28,400		Jan. 23, 1935	14.0	35,800
1918	June 26, 1918	8.93	16,300		Mar. 27, 1935	12.94	31,300
1919	Oct. 27, 1918	23.0	82,500		Sept. 6, 1935	14.31	37,000
1920	Apr. 3, 1920	10.57	22,800				
				1936	Nov. 14, 1935	13.07	32,100
1921	Dec. 15, 1920	10.47	22,800		Jan. 4, 1936	12.23	28,500
1922	Nov. 1, 1921	11.70	27,700		Jan. 20, 1936	12.86	31,300
1923	June 13, 1923	11.40	26,400		Jan. 28, 1936	a14.15	-
1924	Jan. 17, 1924	14.98	41,200		Feb. 6, 1936	a12.15	-
1925	Oct. 1, 1924	17.02	49,600		Feb. 15, 1936	14.03	35,800
					May 18, 1936	13.66	34,500
1926	Jan. 19, 1926	15.10	41,600		Apr. 7, 1936	11.74	26,500
1927	Nov. 16, 1926	13.13	33,400	1937	Jan. 3, 1937	10.50	21,900
	Feb. 24, 1927	10.18	21,600		Jan. 20, 1937	12.16	28,500
	Apr. 22, 1927	11.45	26,400				
				1938	Oct. 20, 1937	16.43	45,700
1928	Aug. 17, 1928	18.04	53,800		Oct. 28, 1937	10.29	21,200
	Sept. 6, 1928	13.96	37,100		July 24, 1938	11.65	26,100
	Sept.20, 1928	11.13	25,200				
				1939	Feb. 16, 1939	9.08	16,500
1929	Feb. 8, 1929	11.59	27,300	1940	Aug. 14, 1940	41.16	219,000
	Feb. 28, 1929	12.20	29,700				
	Mar. 6, 1929	11.43	26,400	1941	July 5, 1941	8.77	15,400
	June 10, 1929	10.47	22,800	1942	May 22, 1942	13.16	32,800
				1943	Dec. 31, 1942	11.18	24,500
1930	Oct. 2, 1929	22.44	72,300	1944	Feb. 18, 1944	13.18	32,800
	Oct. 22, 1929	15.33	42,500	1945	Sept.18, 1945	19.7	64,600
	Nov. 18, 1929	12.13	29,300				
	Dec. 5, 1929	11.08	25,200	1946	Jan. 8, 1946	16.1	46,200
				1947	Jan. 21, 1947	13.67	35,000
1931	Aug. 23, 1931	9.15	17,600	1948	Feb. 15, 1948	13.69	35,000
				1949	Aug. 29, 1949	14.75	40,000
1932	May 2, 1932	8.99	16,800	1950	Nov. 2, 1949	8.78	15,800
1933	Oct. 18, 1932	12.77	32,200	1951	Dec. 8, 1950	19.23	61,800
	Dec. 29, 1932	10.42	22,400	1952	Mar. 12, 1952	11.90	27,500

a Backwater from ice.

Peak stages and discharges of New River at Eggleston, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Feb. 22, 1953	13.71	35,000	1958	May 8, 1958	10.12	20,600
1954	Mar. 1, 1954	15.55	43,800	1959	Dec. 29, 1958	14.51	38,600
1955	Apr. 15, 1955	12.76	31,100	1960	Oct. 1, 1959	20.85	70,600
1956	Apr. 16, 1956	13.27	33,200	1961	May 12, 1961	15.22	41,900
1957	Apr. 6, 1957	17.90	55,200				

1725. Walker Creek at Staffordsville, Va.

Location.--Lat 37°14'30", long 80°42'40", at highway bridge at Staffordsville, Giles County, 500 ft downstream from Whitley Creek.

Drainage area.--277 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,720 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above on basis of logarithmic plotting and velocity-area studies.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	May 27, 1909	9.8	5,100	1913	Mar. 27, 1913	15.8	12,100
1910	June 13, 1910	8.7	4,000	1914	Feb. 20, 1914	7.5	2,820
				1915	Jan. 7, 1915	10.8	6,180
1911	Jan. 30, 1911	8.1	3,400				
1912	Mar. 29, 1912	12.0	7,500	1916	July 16, 1916	14.5	10,500

1730. Walker Creek at Bane, Va.

Location.--Lat 37°16'05", long 80°42'35", on left bank 0.2 mile downstream from bridge on State Highway 100, at Bane, Giles County, 0.2 mile downstream from Sugar Run, and 7.9 miles upstream from mouth.

Drainage area.--305 sq mi.

Gage.--Nonrecording prior to Aug. 2, 1938; recording thereafter. Datum of gage is 1,665.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,200 cfs and extended on basis of slope-area measurement at 16,500 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	September 1878	a23.5	-	1943	Dec. 30, 1942	11.13	6,580
1938b/	July 22, 1938	12.4	9,350	1944	Feb. 18, 1944	14.0	12,800
					Feb. 29, 1944	9.69	4,410
1939	Jan. 30, 1939	9.65	4,450				
				1945	Feb. 18, 1945	10.28	5,130
1940	Apr. 20, 1940	12.64	9,760		Sept.18, 1945	10.9	5,890
	May 31, 1940	10.53	5,840				
	Aug. 13, 1940	10.08	5,180	1946	Jan. 8, 1946	12.6	9,760
1941	July 5, 1941	9.16	3,700	1947	Jan. 16, 1947	9.90	4,650
					Jan. 20, 1947	10.23	5,010
1942	May 22, 1942	11.63	7,430				

a Maximum stage known.
b Partial year.

Peak stages and discharges of Walker Creek at Bane, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 14, 1948	12.50	8,700	1955	Feb. 7, 1955	9.78	4,730
	Mar. 24, 1948	-	-		Mar. 1, 1955	10.44	5,670
	Apr. 8, 1948	9.88	4,800		Mar. 7, 1955	11.38	7,390
					Mar. 16, 1955	10.23	5,340
1949	Dec. 4, 1948	11.57	7,750		Apr. 14, 1955	12.85	10,200
	May 1, 1949	9.73	4,590				
	June 17, 1949	14.44	13,700	1956	Apr. 16, 1956	10.47	5,840
	Aug. 29, 1949	11.22	7,030				
				1957	Jan. 30, 1957	16.50	16,500
1950	Feb. 2, 1950	10.04	5,020		Feb. 9, 1957	10.71	6,210
	May 3, 1950	10.77	6,350		Apr. 5, 1957	11.86	8,160
1951	Dec. 4, 1950	9.29	4,070	1958	Nov. 19, 1957	9.47	4,280
	Dec. 8, 1950	12.33	9,150		Mar. 31, 1958	10.89	6,510
1952	Apr. 28, 1952	8.84	3,490	1959	Apr. 13, 1959	10.87	6,530
1953	Feb. 21, 1953	11.82	8,150	1960	Feb. 11, 1960	10.00	5,020
	Mar. 5, 1953	10.23	5,340		Mar. 30, 1960	10.03	5,020
	June 17, 1953	10.64	6,010				
				1961	May 12, 1961	9.44	4,190
1954	Jan. 22, 1954	9.39	4,190				
	Mar. 1, 1954	10.40	5,670				

1755. Wolf Creek near Narrows, Va.

Location.--Lat 37°18'20", long 80°51'00", on right bank at downstream side of bridge on State Highway 61, 2.8 miles southwest of Narrows, Giles County, and 3.5 miles upstream from mouth.

Drainage area.--223 sq mi.

Gage.--Nonrecording prior to Nov. 8, 1938; recording thereafter. Datum of gage is 1,583.83 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs and extended on basis of contracted-opening measurement at 12,900 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 3,100 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 30, 1909	9.0	5,500	1946	Jan. 8, 1946	10.0	7,200
1910	Jan. 21, 1910	7.8	3,740				
				1947	Jan. 16, 1947	9.43	6,180
1911	Mar. 10, 1911	8.2	4,300		Jan. 20, 1947	8.30	4,450
1912	Mar. 15, 1912	9.3	6,010				
1913	Mar. 27, 1913	11.7	8,820	1948	Feb. 14, 1948	10.50	8,200
1914	Feb. 20, 1914	7.0	2,740		Mar. 24, 1948	8.27	4,450
1915	Jan. 7, 1915	10.4	6,800		Apr. 9, 1948	7.79	3,760
1916	July 16, 1916	13.0	11,000	1949	Dec. 4, 1948	9.16	5,840
					Apr. 14, 1949	7.34	3,160
1938a/	May 24, 1938	6.14	1,980		June 17, 1949	9.41	6,180
					Aug. 29, 1949	8.75	5,200
1939	Jan. 30, 1939	7.10	2,740				
				1950	Feb. 2, 1950	9.62	6,520
1940	Apr. 20, 1940	8.77	5,200				
				1951	Dec. 4, 1950	8.01	4,000
1941	July 6, 1941	9.31	6,010		Dec. 7, 1950	10.05	7,200
1942	May 22, 1942	7.70	3,360	1952	Mar. 11, 1952	9.02	5,500
					Apr. 28, 1952	8.37	4,600
1943	Dec. 30, 1942	7.91	3,880				
	Mar. 13, 1943	7.30	3,160	1953	Feb. 21, 1953	9.26	6,010
					Mar. 4, 1953	8.24	4,300
1944	Feb. 18, 1944	11.10	9,430		Mar. 24, 1953	7.78	3,740
	Feb. 29, 1944	8.31	4,450		May 19, 1953	8.88	5,350
					July 7, 1953	8.76	5,200
1945	Feb. 17, 1945	8.92	5,350				
	May 30, 1945	7.76	3,760	1954	Jan. 22, 1954	7.75	3,110

a Partial year.

Peak stages and discharges of Wolf Creek near Narrows, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 7, 1955	8.22	3,580	1958	Mar. 31, 1958	9.69	6,670
	Mar. 1, 1955	10.46	7,470				
	Mar. 6, 1955	10.66	7,870	1959	Dec. 29, 1958	7.30	3,100
	Mar. 16, 1955	9.70	5,950		Jan. 22, 1959	7.43	3,280
	Apr. 14, 1955	9.72	6,690		Apr. 13, 1959	8.25	4,300
1956	Apr. 16, 1956	9.50	6,350	1960	Mar. 31, 1960	9.36	5,540
1957	Jan. 9, 1957	7.62	3,510	1961	Feb. 25, 1961	10.42	7,680
	Jan. 29, 1957	b13.8	12,900		May 12, 1961	7.82	3,560
	Feb. 9, 1957	8.96	5,440				

b From floodmarks.

1765. New River at Glenlyn, Va.

Location.--Lat 37°22'20", long 80°51'45", on right bank at upstream side of bridge on U.S. Highway 460 at Glenlyn, Giles County, 0.3 mile upstream from East River and 6.3 miles downstream from Wolf Creek.

Drainage area.--3,768 sq mi; 3,514 sq mi at 1914-26 site.

Gage.--Nonrecording prior to Aug. 11, 1927; recording thereafter. At Narrows, 6.5 miles upstream at different datum prior to May 16, 1926. At present site at datum 2.2 ft higher May 16, 1926, to Aug. 10, 1927. Datum of gage is 1,489.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,500 cfs and extended above by logarithmic plotting for site 6.5 miles upstream. Defined by current-meter measurements below 65,000 cfs and extended above by slope-area measurement at 226,000 cfs at present site.

Bankfull stage.--11 ft.

Remarks.--Records prior to Aug. 10, 1927, collected by U.S. Weather Bureau. Base for partial-duration series, 24,000 cfs. Only annual peaks are shown prior to 1934 and subsequent to 1938. Flow regulated since 1939 by Claytor Reservoir (usable capacity, 100,000 acre-ft) 55 miles above station.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	Sept.13, 1878	a33.1	240,000	1935	Dec. 1, 1934	12.35	54,900
					Jan. 10, 1935	10.72	41,200
1914b/	July 17, 1914	4.7	4,500		Jan. 23, 1935	13.40	63,600
1915	Dec. 5, 1914	13.5	38,000		Mar. 27, 1935	10.63	40,400
					Apr. 1, 1935	9.19	30,300
1916	July 16, 1916	31.1	210,000		Sept. 6, 1935	10.88	42,700
1917	Mar. 5, 1917	13.5	34,000				
1918	Jan. 29, 1918	14.6	40,000	1936	Nov. 14, 1935	10.35	38,900
1919	Oct. 26, 1918	19.0	73,000		Jan. 4, 1936	9.83	34,500
1920	Apr. 3, 1920	12.0	27,000		Jan. 10, 1936	8.80	27,600
					Jan. 20, 1936	10.88	42,700
1921	Feb. 11, 1921	12.4	29,000		Feb. 15, 1936	12.00	51,600
1922	Mar. 16, 1922	10.4	20,000		Mar. 18, 1936	11.95	51,600
1923	June 13, 1923	15.0	43,000		Apr. 7, 1936	9.84	34,500
1924	Jan. 17, 1924	15.0	43,000				
1925	Dec. 9, 1924	9.7	17,000	1937	Oct. 17, 1936	8.56	26,200
					Jan. 4, 1937	8.78	27,600
1926	Jan. 19, 1926	12.0	27,000		Jan. 20, 1937	10.95	43,500
1927	Nov. 16, 1926	c10.74	42,000				
1928	Aug. 17, 1928	13.47	66,000	1938	Oct. 20, 1937	12.65	56,600
1929	Mar. 1, 1929	10.40	36,100		Oct. 28, 1937	10.37	38,900
1930	Oct. 3, 1929	16.75	99,000		July 24, 1938	9.50	32,400
1931	Aug. 23, 1931	7.66	19,600	1939	Jan. 31, 1939	7.60	20,100
1932	May 2, 1932	7.94	21,200	1940	Aug. 14, 1940	27.50	226,000
1933	Oct. 18, 1932	9.84	32,500				
				1941	July 6, 1941	8.30	24,300
1934	Mar. 5, 1934	9.39	31,700	1942	May 22, 1942	10.91	43,100
	Mar. 28, 1934	-	d35,000	1943	Dec. 31, 1942	9.55	33,200
	Sept.16, 1934	8.65	26,200	1944	Feb. 18, 1944	11.01	43,900
				1945	Sept.18, 1945	14.5	76,000
1935	Nov. 30, 1934	12.70	57,500				

a Estimated by U.S. Weather Bureau at 1926 site.
b Partial year.
c Furnished by Appalachian Power Co.
d Estimated.

Peak stages and discharges of New River at Glenlyn, Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 8, 1946	13.5	66,000	1955	Apr. 15, 1955	10.13	36,900
1947	Jan. 21, 1947	11.1	44,700				
1948	Feb. 15, 1948	11.32	46,300	1956	Apr. 17, 1956	11.13	44,700
1949	Dec. 4, 1948	11.66	49,700	1957	Apr. 6, 1957	13.57	66,700
1950	Feb. 2, 1950	9.09	29,600	1958	Mar. 31, 1958	10.41	35,300
				1959	Dec. 29, 1958	12.15	52,000
1951	Dec. 8, 1950	14.85	79,000	1960	Mar. 21, 1960	13.60	66,000
1952	Mar. 12, 1952	9.90	35,400				
1953	Feb. 22, 1953	11.42	47,100	1961	May 13, 1961	12.14	51,000
1954	Mar. 1, 1954	11.93	51,500				

1770. Rich Creek near Peterstown, W. Va.

Location.--Lat 37°24'00", long 80°48'20", at Peterstown, Monroe County, 1,000 ft downstream from Brush Creek and 2¾ miles upstream from mouth.

Drainage area.--50.6 sq mi.

Gage.--Recording. Datum of gage is 1,565.94 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 22, 1942	3.70	742	1948	Feb. 13, 1948	5.60	1,820
					Mar. 24, 1948	5.10	1,510
1943	Dec. 30, 1942	4.75	1,310		Apr. 7, 1948	4.00	920
	Jan. 27, 1943	3.15	538		June 29, 1948	3.35	618
	Mar. 13, 1943	4.90	1,390		Aug. 3, 1948	6.75	2,660
	July 9, 1943	3.28	597				
	July 13, 1943	3.60	728	1949	Nov. 28, 1948	3.79	821
					Dec. 4, 1948	5.30	1,630
1944	Feb. 18, 1944	5.40	1,700		Dec. 15, 1948	3.48	682
	Feb. 29, 1944	3.20	557		Dec. 30, 1948	3.54	705
					Apr. 14, 1949	3.16	538
1945	Feb. 17, 1945	5.00	1,450		June 17, 1949	3.69	774
	Mar. 5, 1945	5.35	1,700		Aug. 29, 1949	3.16	538
	Sept.18, 1945	3.10	518				
				1950	Nov. 1, 1949	3.60	728
1946	Jan. 7, 1946	4.87	1,360		Feb. 2, 1950	5.27	1,630
	May 15, 1946	3.95	895		May 3, 1950	3.05	500
1947	Jan. 3, 1947	3.07	500	1951a/	Dec. 3, 1950	3.28	597
	Jan. 15, 1947	3.83	846		Dec. 7, 1950	4.95	1,420
	Jan. 20, 1947	3.15	538				
	May 14, 1947	4.19	1,020				

a Partial year.

1775. Indian Creek at Indian Mills, W. Va.

Location.--Lat 37°31'55", long 80°49'10", at Indian Mills, Summers County, 50 ft upstream from Bradshaw Creek and 2¼ miles upstream from mouth.

Drainage area.--189 sq mi (including that of Bradshaw Creek).

Gage.--Recording. Datum of gage is 1,472.54 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Indian Creek at Indian Mills, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	June 3, 1942	5.76	1,940	1948	Mar. 24, 1948	7.52	3,220
					Apr. 8, 1948	9.50	4,900
1943	Dec. 30, 1942	7.53	3,220		Apr. 14, 1948	6.68	2,580
	Jan. 27, 1943	6.57	2,500		Aug. 5, 1948	5.89	2,010
	Mar. 13, 1943	9.09	4,560				
				1949	Nov. 29, 1948	6.21	2,220
1944	Feb. 18, 1944	7.72	3,380		Dec. 4, 1948	8.08	3,700
	Feb. 29, 1944	5.88	2,010		Dec. 15, 1948	8.69	4,220
					Dec. 30, 1948	6.83	2,660
1945	Feb. 17, 1945	8.58	4,130		Jan. 5, 1949	7.10	2,900
	Mar. 5, 1945	8.86	4,380		Jan. 22, 1949	6.54	2,430
					Mar. 18, 1949	5.96	2,080
1946	Jan. 8, 1946	8.08	3,700		Apr. 14, 1949	7.35	3,140
1947	Jan. 15, 1947	6.35	2,360	1950	Nov. 2, 1949	7.17	2,980
	Jan. 20, 1947	6.40	2,360		Feb. 2, 1950	8.88	4,380
	Mar. 14, 1947	7.08	2,900		May 3, 1950	6.64	2,470
	Aug. 23, 1947	6.33	2,290				
				1951a/	Dec. 4, 1950	7.05	2,790
1948	Feb. 14, 1948	9.68	5,080		Dec. 7, 1950	8.62	4,130

a Partial year.

1780. Bluestone River near Spanishburg, W. Va.

Location.--Lat 37°26'00", long 81°06'40", near center of span on downstream side of bridge on U.S. Highways 19 and 21, 1.1 miles southwest of Spanishburg, Mercer County, and 1.4 miles upstream from Rich Creek.

Drainage area.--199 sq mi.

Gage.--Nonrecording and crest-stage gage. Datum of gage is 2,051.13 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Jan. 2, 1945	9.15	1,970	1948	Apr. 9, 1948	12.44	2,970
	Feb. 18, 1945	16.0	5,010				
	Mar. 5, 1945	15.2	4,450	1949	Dec. 4, 1948	12.4	2,970
	May 19, 1945	11.03	2,510		Mar. 19, 1949	8.90	1,880
	May 30, 1945	8.9	1,880				
				1950	Nov. 2, 1949	10.0	2,210
1946	Jan. 8, 1946	18.36	6,920		Feb. 2, 1950	18.2	6,770
	Feb. 11, 1946	8.70	1,820		July 27, 1950	9.93	2,180
	Mar. 19, 1946	9.23	1,970				
				1951	Dec. 4, 1950	10.98	2,510
1947	Jan. 16, 1947	11.68	2,720		Dec. 8, 1950	13.40	3,410
	Mar. 15, 1947	11.35	2,630		Mar. 18, 1951	9.18	1,970
1948	Feb. 14, 1948	15.88	4,940	1952	Jan. 23, 1952	14.0	3,710
	Mar. 17, 1948	10.6	2,390		Mar. 12, 1952	11.2	2,480
	Mar. 24, 1948	11.18	2,570		Apr. 28, 1952	11.1	2,440

1785. Camp Creek near Camp Creek, W. Va.

Location.--Lat 37°30'15", long 81°07'40", on left bank 1,500 ft downstream from Mash Fork and 2.1 miles upstream from Camp Creek, Mercer County.

Drainage area.--32.0 sq mi.

Gage.--Recording. Altitude of gage is 2,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Remarks.--Base for partial-duration series, 580 cfs.

Peak stages and discharges of Camp Creek near Camp Creek, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 15, 1947	4.20	852	1955	Dec. 29, 1954	4.22	1,060
	Jan. 20, 1947	4.10	785		Feb. 6, 1955	4.17	1,030
	Mar. 14, 1947	4.42	1,010		Feb. 28, 1955	5.80	2,660
					Mar. 6, 1955	5.48	2,290
1948	Feb. 14, 1948	5.84	2,720		Mar. 16, 1955	4.73	1,500
	Apr. 7, 1948	3.84	879				
				1956	Feb. 17, 1956	3.85	865
1949	Dec. 4, 1948	3.75	814		Mar. 14, 1956	3.26	582
	Dec. 15, 1948	4.16	1,130		Apr. 15, 1956	4.49	1,280
	Jan. 5, 1949	3.63	734		July 27, 1956	4.65	1,400
	Jan. 22, 1949	3.46	630				
	May 18, 1949	4.15	1,120	1957	Jan. 9, 1957	4.09	994
	June 17, 1949	3.62	727		Jan. 29, 1957	6.35	3,410
					Feb. 1, 1957	3.44	663
1950	Nov. 1, 1949	3.72	793		Feb. 9, 1957	3.76	820
	Feb. 2, 1950	4.77	1,500				
	July 26, 1950	4.91	1,640	1958	Dec. 8, 1957	3.90	890
					Dec. 26, 1957	3.30	600
1951	Dec. 4, 1950	4.12	1,100		Feb. 26, 1958	3.44	668
	Dec. 7, 1950	3.69	772		Mar. 27, 1958	3.57	715
	Feb. 1, 1951	3.60	714		Mar. 31, 1958	4.70	1,590
	Mar. 18, 1951	3.82	864		Apr. 23, 1950	3.47	740
					May 5, 1958	3.55	792
1952	Jan. 22, 1952	3.62	727				
	Mar. 23, 1952	3.60	714	1959	Apr. 12, 1959	3.86	865
	Apr. 28, 1952	3.68	766				
	May 10, 1952	4.15	1,120	1960	Nov. 24, 1959	3.33	622
					Mar. 28, 1960	3.97	915
1953	Feb. 21, 1953	4.12	1,100		Mar. 30, 1960	4.16	1,030
	Mar. 4, 1953	3.95	962				
				1961	Feb. 25, 1961	5.55	2,350
1954	Jan. 16, 1954	-	a1,000				
	May 14, 1954	3.84	958				

a Peak discharge exceeded amount shown.

1790. Bluestone River near Pipestem, W. Va.

Location.--Lat 37°32'45", long 81°00'30", on left bank 1.2 miles downstream from Mountain Creek, 2.5 miles west of Pipestem, Summers County, and 8 miles upstream from mouth.

Drainage area.--363 sq mi.

Gage.--Recording. Datum of gage is 1,527.35 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Historical data.--Flood of Jan. 29, 1957, is maximum stage known since at least 1908.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 4, 1950	9.46	5,020	1955	Mar. 16, 1955	12.59	11,300
	Dec. 8, 1950	9.41	4,880				
	Mar. 18, 1951	9.40	4,880	1956	Apr. 16, 1956	11.12	7,840
1952	Jan. 22, 1952	10.0	5,820	1957	Jan. 10, 1957	10.17	6,270
	Apr. 28, 1952	9.48	5,020		Jan. 29, 1957	14.49	16,100
					Feb. 9, 1957	10.38	6,740
1953	Feb. 21, 1953	9.88	5,660				
	Mar. 4, 1953	10.18	6,180	1958	Mar. 27, 1958	9.97	5,900
	May 20, 1953	10.66	7,080		Mar. 31, 1958	11.40	9,020
1954	Jan. 22, 1954	9.15	4,600	1959	Apr. 12, 1959	9.96	5,900
1955	Feb. 7, 1955	10.55	6,900	1960	Mar. 31, 1960	9.68	5,420
	Feb. 28, 1955	13.86	14,900				
	Mar. 6, 1955	13.19	12,900	1961	Feb. 25, 1961	11.57	9,480

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1795. Bluestone River at Lilly, W. Va.

Location.--Lat 37°35'05", long 80°57'55", at Lilly, Summers County, 1,200 ft downstream from Little Bluestone River and 5 miles upstream from mouth.

Drainage area.--438 sq mi.

Gage.--Nonrecording. Datum of gage is 1,433.7 ft above mean sea level, datum of 1929 (levels by Virginia Power Co.).

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Dec. 31, 1908	6.2	5,080
	Mar. 7, 1909	5.7	4,190
	May 1, 1909	5.85	4,360
	July 6, 1909	5.8	4,360
1910	June 10, 1910	7.2	6,920
	July 18, 1910	7.8	8,040
1911	Jan. 2, 1911	5.6	4,020
	Jan. 30, 1911	7.0	6,560
	Feb. 10, 1911	5.70	4,190
	Mar. 8, 1911	8.0	8,400
	Apr. 4, 1911	5.60	4,020
1912	Oct. 18, 1911	5.80	4,360
	Jan. 30, 1912	6.1	4,900
	Mar. 12, 1912	6.7	6,000
	Mar. 30, 1912	5.9	4,540
	Apr. 2, 1912	9.7	11,500
	June 27, 1912	5.6	4,020
1913	Mar. 27, 1913	8.5	9,300
1914	Jan. 10, 1914	5.60	4,020
	Feb. 20, 1914	7.00	6,560
	Mar. 30, 1914	5.7	4,190
1915	Jan. 7, 1915	7.0	6,560
	Feb. 2, 1915	7.40	7,300
1916	Dec. 18, 1915	7.50	7,480
	Dec. 29, 1915	7.5	7,480
	Jan. 8, 1916	6.5	5,630
	Feb. 25, 1916	6.2	5,080
	Mar. 8, 1916	7.20	6,920
	July 17, 1916	5.60	4,020
	Aug. 16, 1916	7.85	8,040
1930	Nov. 4, 1929	6.1	4,700
	Nov. 18, 1929	9.0	10,400
	Feb. 5, 1930	7.0	6,400
1931	Apr. 4, 1931	5.62	3,820
	May 23, 1931	5.60	3,820
1932	Jan. 31, 1932	7.2	6,800
	Feb. 4, 1932	8.12	8,600
	Feb. 12, 1932	5.8	4,160
	Mar. 28, 1932	5.9	4,340
	May 1, 1932	7.0	6,400
	May 13, 1932	6.50	5,450
1933	Dec. 28, 1932	7.20	6,800
	Feb. 16, 1933	5.8	4,160
	Feb. 20, 1933	6.40	5,260
	Mar. 19, 1933	7.50	7,400
1934	Mar. 5, 1934	10.50	15,100
	Mar. 8, 1934	8.40	9,240
	Mar. 20, 1934	5.80	4,160
	Mar. 27, 1934	7.9	8,200
1935	Jan. 10, 1935	5.8	4,160
	Jan. 17, 1935	7.0	6,400
	Jan. 23, 1935	9.3	11,600
	Mar. 25, 1935	11.0	16,600
	Apr. 1, 1935	10.1	13,900
	Apr. 7, 1935	6.20	4,880
1936	Nov. 13, 1935	6.10	4,700
	Jan. 3, 1936	7.20	6,800
	Jan. 9, 1936	6.10	4,700
	Jan. 19, 1936	7.50	7,400
	Feb. 15, 1936	7.7	7,800
	Feb. 18, 1936	6.1	4,700
	Mar. 17, 1936	7.7	7,800
	Mar. 25, 1936	5.95	4,520
	Apr. 6, 1936	8.3	9,000
1937	Dec. 7, 1936	5.8	4,160
	Jan. 2, 1937	7.5	7,400
	Jan. 17, 1937	6.9	6,210
	Jan. 20, 1937	7.90	8,200
	Jan. 25, 1937	6.4	5,260
	Feb. 9, 1937	6.4	5,260
1938	Oct. 28, 1937	8.20	8,800
	Mar. 3, 1938	7.76	8,000
	June 20, 1938	7.10	6,600
	July 23, 1938	9.20	10,800
1939	Jan. 30, 1939	6.2	4,880
	Feb. 3, 1939	7.1	6,600
	Feb. 11, 1939	6.4	5,260
	Mar. 6, 1939	6.0	4,520
1940	Apr. 20, 1940	9.0	10,400
	June 12, 1940	7.0	6,400
	June 19, 1940	7.3	7,000
	July 4, 1940	6.80	6,020
	Aug. 14, 1940	7.0	6,400
	Aug. 31, 1940	5.80	4,160
1941	Mar. 11, 1941	7.2	7,180
1942	Mar. 9, 1942	6.2	4,570
	May 22, 1942	6.42	4,940
	June 3, 1942	5.9	4,040
1943	Dec. 30, 1942	7.0	6,110
	Jan. 27, 1943	5.86	4,040
	Mar. 13, 1943	8.6	9,740
1944	Feb. 18, 1944	8.35	9,220
	Feb. 29, 1944	7.3	6,730
	Mar. 21, 1944	5.9	4,040
	Apr. 12, 1944	7.2	6,520
1945	Dec. 26, 1944	7.1	6,310
	Jan. 1, 1945	6.6	5,320
	Feb. 13, 1945	7.7	7,600
	Feb. 17, 1945	9.1	11,000
	Mar. 5, 1945	8.80	10,300
	May 19, 1945	6.50	5,130
1946	Jan. 7, 1946	10.05	13,600
	Feb. 1, 1946	6.7	5,560
	Feb. 11, 1946	6.2	4,680
	Mar. 19, 1946	7.0	6,130
1947	Jan. 15, 1947	7.6	7,380
	Jan. 20, 1947	6.68	5,560
	Mar. 14, 1947	7.80	7,820
1948	Feb. 14, 1948	11.0	16,600
	Mar 17, 1948	6.35	5,020
	Mar. 24, 1948	7.50	7,160
	Apr. 8, 1948	8.30	8,980

1800. New River at Bluestone Dam, W. Va.

Location.--Lat 37°38'35", long 80°53'00", on right bank a quarter of a mile downstream from Bluestone Dam, Summers County, 0.7 mile upstream from Greenbrier River, and 2 miles upstream from Hinton, Summers County.

Drainage area.--4,604 sq mi.

Gage.--Nonrecording prior to Nov. 20, 1934; recording thereafter. At site 1.3 miles upstream at datum 8.49 ft higher prior to July 1, 1947. Datum of gage is 1,360.00 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Auxiliary recording gage 0.7 mile downstream.

Stage-discharge relation.--Defined by current-meter measurements below 65,000 cfs and extended above on basis of slope-area measurement at 232,000 cfs. Relation sometimes affected by backwater from Greenbrier River.

Historical data.--Floods of Apr. 21 and May 23, 1901, reached a stage of 24.2 ft, former site and datum (discharge, 234,000 cfs). Flood in 1878 probably reached a higher stage.

Remarks.--Only annual peaks are shown. Peaks partly regulated since 1939 by Claytor Reservoir and since 1949 by Bluestone Reservoir (combined usable capacity, 721,000 acre-ft). Annual peak stages for 1949-58 are affected by backwater from Greenbrier River.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Jan. 17, 1924	13.03	55,400	1943	Dec. 30, 1942	14.35	38,400
1925	Dec. 10, 1924	9.8	30,600	1944	Feb. 18, 1944	15.16	49,900
				1945	Sept.19, 1945	18.20	74,500
1926	Jan. 19, 1926	10.80	35,200				
1927	Dec. 22, 1926	12.20	48,600	1946	Jan. 8, 1946	18.50	77,200
1928	Aug. 17, 1928	12.15	48,600	1947	Jan. 21, 1947	a29.2	46,100
1929	Mar. 1, 1929	12.15	44,300	1948	Feb. 15, 1948	a13.74	41,300
1930	Oct. 3, 1929	17.20	105,000	1949	Dec. 5, 1948	12.08	36,400
				1950	Feb. 3, 1950	12.1	33,000
1931	Apr. 5, 1931	8.65	23,000				
1932	Feb. 4, 1932	9.90	29,700	1951	Dec. 9, 1950	12.22	38,300
1933	Dec. 29, 1932	10.70	37,000	1952	Feb. 2, 1952	11.62	34,200
1934	Mar. 5, 1934	12.80	53,600	1953	Feb. 25, 1953	11.93	36,700
1935	Jan. 23, 1935	15.10	76,700	1954	Mar. 2, 1954	b12.32	31,600
				1955	Mar. 12, 1955	13.35	53,200
1936	Feb. 15, 1936	13.84	62,800				
1937	Jan. 20, 1937	12.97	55,400	1956	Apr. 17, 1956	11.80	34,200
1938	Oct. 20, 1937	12.59	51,600	1957	Feb. 3, 1957	13.67	53,800
1939	Feb. 11, 1939	9.27	27,300	1958	May 12, 1958	12.61	44,600
1940	Aug. 15, 1940	25.7	232,000	1959	Jan. 27, 1959	11.66	35,000
				1960	Apr. 7, 1960	14.91	64,900
1941	July 6, 1941	9.13	26,000				
1942	May 22, 1942	13.98	50,500	1961	May 13, 1961	11.85	36,300

a Backwater from cofferdam.
b Maximum stage occurred 8 hours before maximum discharge.

1805. Greenbrier River at Durbin, W. Va.

Location.--Lat 38°32'35", long 79°50'00", on left bank at Durbin, Pocahontas County, 500 ft downstream from confluence of East and West Forks.

Drainage area.--134 sq mi.

Gage.--Recording. Datum of gage is 2,699.71 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 2,800 cfs.

Peak stages and discharges of Greenbrier River at Durbin, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Feb. 23, 1944	6.49	5,110	1954	Mar. 1, 1954	5.60	3,640
1945	Dec. 26, 1944	5.41	3,340	1955	Oct. 15, 1954	8.38	9,900
	Feb. 16, 1945	5.10	2,900		Dec. 30, 1954	7.11	6,450
	Feb. 27, 1945	5.08	2,830		Feb. 23, 1955	5.08	2,860
	Mar. 3, 1945	5.07	2,830		Mar. 5, 1955	6.39	5,000
1946	Jan. 7, 1946	6.42	4,940		Mar. 22, 1955	5.08	2,860
				1956	Aug. 6, 1956	4.97	2,640
1947	Mar. 14, 1947	5.18	2,970	1957	Jan. 23, 1957	5.72	3,800
	Mar. 25, 1947	5.18	3,040		Jan. 29, 1957	5.58	3,640
1948	Feb. 14, 1948	5.46	3,400	1958	Apr. 6, 1958	5.92	4,120
	Apr. 14, 1948	5.96	4,200				
1949	June 18, 1949	5.05	2,780	1959	Jan. 22, 1959	a6.67	4,970
1950	Jan. 31, 1950	5.20	3,010	1960	Mar. 30, 1960	6.38	5,390
					Apr. 4, 1960	7.12	6,920
1951	Dec. 7, 1950	6.07	4,360		June 4, 1960	5.35	2,950
	Feb. 1, 1951	5.85	4,040				
	June 13, 1951	5.19	3,010	1961	Feb. 19, 1961	5.33	2,950
					Feb. 23, 1961	5.77	4,060
1952	Jan. 27, 1952	5.18	3,010		Feb. 25, 1961	6.74	6,040
	Mar. 11, 1952	5.14	2,940				
1953	Feb. 21, 1953	6.21	4,600				

a Backwater from ice after peak discharge.

1815. Greenbrier River at Marlinton, W. Va.

Location.--Lat 38°14'10", long 80°05'05", at Chesapeake and Ohio Railroad bridge, 1½ miles northeast of Marlinton, Pocahontas County, just below mouth of Stoney Creek.

Drainage area.--408 sq mi.

Gage.--Nonrecording. Altitude of gage, 1,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	8.78	8,320	1913	Apr. 13, 1913	8.6	7,860
					Mar. 24, 1913	7.35	5,210
1910	Feb. 18, 1910	8.5	7,630		May 27, 1913	7.8	6,060
	Mar. 1, 1910	7.5	5,420		July 10, 1913	9.90	10,900
	June 17, 1910	12.65	17,700				
				1914	Nov. 16, 1913	9.0	8,780
1911	Jan. 3, 1911	10.02	11,200		Jan. 21, 1914	7.3	5,000
	Jan. 13, 1911	7.50	5,420		Jan. 31, 1914	7.87	6,280
	Jan. 30, 1911	13.2	19,200		Feb. 20, 1914	7.7	5,840
	Apr. 5, 1911	7.85	6,060		Mar. 28, 1914	7.30	5,000
					Apr. 26, 1914	9.3	9,500
1912	Oct. 18, 1911	8.38	7,400				
	Feb. 21, 1912	7.30	5,000	1915	Jan. 7, 1915	13.95	21,200
	Mar. 15, 1912	10.90	13,400		Jan. 18, 1915	9.95	11,200
	Mar. 29, 1912	7.65	5,630		Feb. 2, 1915	11.2	14,200
	May 13, 1912	9.00	8,780				
	May 16, 1912	8.85	8,320	1916	Oct. 1, 1915	10.20	11,700
	July 25, 1912	8.4	7,400		Dec. 18, 1915	8.50	7,630
					Dec. 29, 1915	8.70	8,090
1913	Jan. 8, 1913	7.97	6,500		Jan. 12, 1916	7.30	5,000
	Mar. 14, 1913	8.30	7,170		Jan. 17, 1916	7.6	5,630
	Mar. 27, 1913	14.20	21,700				

1820. Knapp Creek at Marlinton, W. Va.

Location.--Lat 38°12'40", long 80°04'30", on right bank a quarter of a mile downstream from Spice Run and 1 mile southeast of Marlinton, Pocahontas County.

Drainage area.--108 sq mi.

Gage.--Nonrecording. Altitude of gage is 2,090 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above on basis of logarithmic plotting.

Remarks.--Base for partial-duration series, 2,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 7, 1946	9.24	3,840	1953	Feb. 21, 1953	11.80	5,840
	June 21, 1946	10.0	4,400		Mar. 24, 1953	8.2	3,140
1947	Jan. 20, 1947	7.8	2,860	1954	Mar. 1, 1954	11.3	5,440
					July 15, 1954	13.86	7,710
1948	Feb. 14, 1948	9.5	4,050				
	Apr. 14, 1948	10.4	4,720	1955	Oct. 15, 1954	10.35	4,720
					Dec. 29, 1954	10.10	4,480
1949	Dec. 15, 1948	8.18	3,140		Feb. 7, 1955	8.90	3,630
	Dec. 29, 1948	9.1	3,770		Mar. 5, 1955	9.48	4,050
					Mar. 22, 1955	8.68	3,490
1950	Feb. 2, 1950	9.2	3,840				
				1956	Mar. 15, 1956	8.30	3,210
1951	Dec. 4, 1950	9.0	3,700				
	Dec. 7, 1950	8.5	3,350	1957	Apr. 5, 1957	8.2	3,140
	Feb. 2, 1951	9.9	4,330				
	June 13, 1951	8.3	3,210	1958	Dec. 26, 1957	8.5	3,350
1952	Mar. 11, 1952	10.5	4,800				

1825. Greenbrier River at Buckeye, W. Va.

Location.--Lat 38°11'15", long 80°07'50", on right bank at upstream side of highway bridge at Buckeye, Pocahontas County, 1,000 ft upstream from Swago Creek and 3.5 miles downstream from Knapp Creek. Records include flow of Swago Creek.

Drainage area.--540 sq mi, including that of Swago Creek.

Gage.--Nonrecording prior to Feb. 28, 1939; recording thereafter. Datum of gage is 2,085.89 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Nov. 18, 1929	11.70	17,200	1935	Nov. 29, 1934	9.4	10,600
					Jan. 23, 1935	11.8	17,600
1931	Apr. 4, 1931	9.00	9,540		Mar. 12, 1935	9.9	11,900
					May 7, 1935	10.1	12,500
1932	Jan. 30, 1932	8.8	9,040		July 8, 1935	10.4	13,300
	Feb. 5, 1932	17.5	41,500		Aug. 7, 1935	9.6	11,100
	Mar. 18, 1932	10.2	12,800		Sept. 5, 1935	10.4	13,300
	Mar. 28, 1932	13.0	21,800				
	May 1, 1932	10.6	13,900	1936	Jan. 3, 1936	9.8	11,600
	July 4, 1932	11.7	17,200		Feb. 14, 1936	11.68	17,200
					Feb. 27, 1936	8.99	9,540
1933	Nov. 19, 1932	8.36	8,100		Mar. 17, 1936	15.7	32,800
	Mar. 19, 1933	8.8	8,920		Mar. 25, 1936	9.03	9,540
					Apr. 6, 1936	11.4	16,300
1934	Mar. 5, 1934	10.43	13,300				
	Mar. 27, 1934	8.43	8,100	1937	Dec. 7, 1936	9.9	11,900

Peak stages and discharges of Greenbrier River at Buckeye, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 2, 1937	8.44	8,100	1949	Jan. 6, 1949	10.61	13,900
	Jan. 20, 1937	12.0	18,300		Apr. 14, 1949	9.40	10,400
	Apr. 26, 1937	10.8	14,500		July 13, 1949	9.05	9,270
1938	Oct. 19, 1937	10.2	12,800	1950	Dec. 27, 1949	9.19	9,300
	Oct. 28, 1937	11.4	16,300		Jan. 31, 1950	11.20	14,700
	May 24, 1938	10.9	14,800	1951	Dec. 4, 1950	11.05	14,100
1939	Jan. 31, 1939	13.3	22,800		Dec. 8, 1950	12.54	19,000
	Feb. 4, 1939	14.3	26,800		Feb. 1, 1951	11.73	16,300
	Feb. 11, 1939	8.93	9,280		Feb. 21, 1951	8.82	8,340
	Mar. 6, 1939	8.67	8,800		Mar. 30, 1951	9.78	10,800
	Apr. 16, 1939	10.77	14,500		June 13, 1951	11.35	15,400
	July 29, 1939	11.63	16,900	1952	Jan. 27, 1952	9.56	10,700
1940	Mar. 4, 1940	8.39	8,100		Mar. 11, 1952	12.01	17,500
	Apr. 20, 1940	10.03	12,200				
	May 25, 1940	8.72	8,800	1953	Feb. 21, 1953	14.57	27,200
	June 18, 1940	9.15	10,100		Mar. 24, 1953	9.56	10,700
1941	Apr. 5, 1941	7.24	5,630	1954	Jan. 22, 1954	9.15	9,400
					Mar. 1, 1954	12.68	19,400
1942	Mar. 9, 1942	8.77	9,040		July 15, 1954	13.06	20,700
	May 16, 1942	13.70	24,400				
	May 22, 1942	10.73	14,200	1955	Oct. 16, 1954	15.07	27,300
	Aug. 9, 1942	9.23	10,100		Dec. 30, 1954	12.59	19,100
					Feb. 7, 1955	10.73	13,400
1943	Dec. 30, 1942	11.86	18,000		Feb. 23, 1955	9.38	9,900
	Jan. 27, 1943	8.49	8,320		Mar. 5, 1955	14.19	24,400
	Mar. 13, 1943	11.37	16,300		Mar. 22, 1955	11.97	17,200
	Apr. 20, 1943	9.19	10,100				
				1956	Mar. 14, 1956	9.36	9,900
1944	Feb. 23, 1944	11.41	16,300				
	Feb. 29, 1944	9.03	9,540	1957	Jan. 23, 1957	11.30	15,100
	Apr. 12, 1944	8.45	8,020		Jan. 30, 1957	11.04	14,200
					Apr. 5, 1957	10.17	12,000
1945	Dec. 26, 1944	9.70	11,400				
	Jan. 1, 1945	9.35	10,600	1958	Dec. 8, 1957	9.64	10,400
	Feb. 28, 1945	8.85	9,020		Dec. 26, 1957	10.40	12,500
					Apr. 7, 1958	9.85	10,900
1946	Jan. 7, 1946	12.45	19,700		May 5, 1958	11.37	15,400
	June 21, 1946	8.39	8,020				
				1959	Jan. 22, 1959	10.02	11,400
1947	Jan. 21, 1947	8.87	9,280		June 2, 1959	11.20	14,800
	Mar. 14, 1947	10.02	12,200				
	Mar. 25, 1947	9.18	10,100	1960	Dec. 13, 1959	9.10	9,150
					Mar. 30, 1960	12.09	17,500
1948	Feb. 14, 1948	11.79	17,600		Apr. 4, 1960	12.85	19,800
	Apr. 14, 1948	14.19	26,400				
				1961	Feb. 19, 1961	10.60	13,100
1949	Dec. 4, 1948	9.14	9,550		Feb. 25, 1961	12.32	18,200
	Dec. 15, 1948	10.80	14,500		May 6, 1961	10.76	13,600

1830. Second Creek near Second Creek, W. Va.

Location.--Lat 37°41'05", long 80°27'25", on left bank 10 ft upstream from bridge on U.S. Highway 219, 1.5 miles downstream from Second Creek, Monroe County, and 8 miles upstream from mouth.

Drainage area.--80.8 sq mi.

Gage.--Nonrecording prior to Oct. 18, 1947; recording thereafter. At site 100 ft downstream Oct. 18, 1947, to Sept. 30, 1960. At datum 1 ft higher prior to Oct. 1, 1960. Datum of gage is 1,811.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Historical data.--Flood of 1913 about 1.85 ft higher than flood of Mar. 6, 1955, at site 200 ft downstream from present gage, caused by failure of a sawmill dam.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges of Second Creek near Second Creek, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 7, 1946	5.0	1,390	1954	Mar. 1, 1954	4.71	1,830
	Jan. 31, 1946	4.7	1,240		May 14, 1954	4.62	1,750
					July 22, 1954	4.11	1,390
1947	Mar. 14, 1947	5.5	1,640	1955	Oct. 15, 1954	5.16	2,260
1948	Feb. 14, 1948	7.10	3,980		Feb. 6, 1955	5.63	2,620
	Mar. 24, 1948	6.67	3,550		Feb. 27, 1955	-	a3,000
	Apr. 8, 1948	5.50	2,400		Mar. 1, 1955	-	a3,400
					Mar. 6, 1955	7.75	4,680
1949	Nov. 28, 1948	4.17	1,360		Mar. 16, 1955	4.27	1,700
	Dec. 4, 1948	5.13	2,060				
	Dec. 15, 1948	6.18	3,050	1956	Mar. 14, 1956	2.88	1,210
	Jan. 5, 1949	5.42	2,310		Apr. 16, 1956	3.05	1,350
	Apr. 13, 1949	6.22	3,050				
				1957	Jan. 29, 1957	4.50	3,270
1950	Nov. 1, 1949	4.32	1,460		Apr. 5, 1957	3.17	1,460
	Dec. 11, 1949	4.22	1,390				
	Feb. 2, 1950	4.66	1,700	1958	Feb. 7, 1958	2.98	1,300
					Mar. 26, 1958	2.94	1,260
1951	Dec. 4, 1950	4.80	1,860		Mar. 31, 1958	6.20	6,100
	Dec. 7, 1950	6.10	3,050		Apr. 23, 1958	3.59	2,020
	Mar. 18, 1951	4.23	1,500				
	Mar. 30, 1951	6.06	3,050	1959	Jan. 22, 1959	3.25	1,570
	June 27, 1951	4.25	1,600		Apr. 12, 1959	3.04	1,350
1952	Mar. 11, 1952	5.40	2,310	1960	Mar. 30, 1960	3.64	2,160
	Apr. 28, 1952	4.87	1,860		Apr. 5, 1960	3.04	1,560
					May 8, 1960	3.10	1,600
1953	Feb. 21, 1953	4.36	1,560				
	Mar. 24, 1953	4.48	1,670	1961	Feb. 25, 1961	4.62	2,020

a About.

1835. Greenbrier River at Alderson, W. Va.

Location.--Lat 37°43'30", long 80°38'30", on left bank 400 ft upstream from highway bridge at Alderson, Monroe County, and half a mile upstream from Muddy Creek.

Drainage area.--1,357 sq mi.

Gage.--Nonrecording prior to Oct. 15, 1929; recording thereafter. At site 400 ft downstream at same datum prior to Oct. 15, 1929. Datum of gage is 1,529.42 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Remarks.--Base for partial-duration series, 17,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	Mar. 30, 1896	11.3	28,800	1902	Mar. 1, 1902	15.00	43,800
1897	Nov. 5, 1896	11.0	27,600	1903	Jan. 3, 1903	10.40	25,300
	Feb. 23, 1897	17.5	54,000		Feb. 5, 1903	11.5	29,600
	May 14, 1897	14.3	40,900		Feb. 17, 1903	12.5	33,500
					Feb. 28, 1903	12.70	34,400
1898	Mar. 30, 1898	8.20	17,100		Mar. 23, 1903	16.17	48,900
	May 7, 1898	8.65	18,600				
	Aug. 11, 1898	17.05	52,500	1904	Jan. 23, 1904	10.50	25,700
					May 19, 1904	10.50	25,700
1899	Oct. 22, 1898	10.45	25,300				
	Jan. 7, 1899	9.00	20,000	1905	Mar. 10, 1905	11.50	29,600
	Feb. 27, 1899	10.00	23,800		May 12, 1905	13.35	37,600
	Mar. 5, 1899	16.15	48,900				
				1906	Jan. 4, 1906	8.5	18,200
1900	Mar. 21, 1900	8.23	17,100		Jan. 23, 1906	10.6	26,000
1901	Nov. 26, 1900	18.23	56,800	1907	June 9, 1907	8.30	17,500
	Jan. 12, 1901	9.33	21,100		June 14, 1907	17.0	52,500
	Apr. 21, 1901	9.10	20,400				
	May 28, 1901	8.75	19,300	1908	Dec. 11, 1907	8.40	17,800
	June 17, 1901	8.95	20,000		Dec. 24, 1907	9.80	23,000
					Jan. 12, 1908	12.0	31,500
1902	Dec. 15, 1901	13.32	36,700		Feb. 16, 1908	17.0	52,500

Peak stages and discharges of Greenbrier River at Alderson, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Mar. 7, 1908	10.80	26,800
	Apr. 1, 1908	11.00	27,600
	May 8, 1908	12.0	31,500
1909	Apr. 15, 1909	9.0	20,000
1910	June 17, 1910	15.5	45,900
1911	Jan. 30, 1911	15.0	43,800
	Apr. 5, 1911	9.0	20,000
1912	Oct. 18, 1911	10.0	23,800
	Feb. 22, 1912	8.70	18,900
	Feb. 27, 1912	8.70	18,900
	Mar. 16, 1912	13.0	35,500
	Mar. 29, 1912	10.60	27,200
	May 12, 1912	9.00	20,000
	May 17, 1912	9.30	21,100
1913	Mar. 15, 1913	9.50	21,800
	Mar. 27, 1913	19.4	64,000
	Apr. 13, 1913	8.95	20,000
1914	Feb. 20, 1914	8.0	16,400
1915	Jan. 7, 1915	12.95	34,000
	Feb. 2, 1915	14.5	40,800
1916	Oct. 2, 1915	11.3	27,200
	Dec. 30, 1915	10.55	24,400
1917	Dec. 29, 1916	8.70	17,300
	Mar. 4, 1917	15.0	43,000
	Mar. 13, 1917	11.50	28,000
1918	Feb. 16, 1918	8.58	17,000
	Feb. 27, 1918	8.90	17,900
	Mar. 14, 1918	22.00	77,500
	June 26, 1918	10.85	24,000
1919	Oct. 31, 1918	11.90	28,600
	Dec. 23, 1918	11.00	24,800
	Jan. 2, 1919	16.30	49,000
1920	Dec. 7, 1919	14.0	38,000
	Jan. 25, 1920	10.00	20,700
	Mar. 20, 1920	13.00	33,500
1921	Dec. 15, 1920	6.95	11,500
1922	Nov. 1, 1921	10.20	21,500
	Dec. 25, 1921	9.80	20,100
	Feb. 21, 1922	10.50	22,200
1923	Feb. 2, 1923	9.58	19,500
1924	Jan. 17, 1924	11.35	26,500
	Mar. 29, 1924	9.90	20,400
	May 12, 1924	13.60	36,200
	Sept.30, 1924	9.10	17,900
1925	Mar. 20, 1925	8.2	15,100
1926	Jan. 20, 1926	9.95	20,700
	Feb. 15, 1926	9.00	17,600
1927	Nov. 16, 1926	9.10	17,900
	Dec. 22, 1926	10.80	24,000
	Dec. 26, 1926	14.50	40,200
	Feb. 6, 1927	9.45	18,800
	Feb. 20, 1927	9.60	19,500
1928	May 1, 1928	9.00	18,000
1929	Dec. 1, 1928	10.4	22,800
	Feb. 28, 1929	13.15	32,700
	Mar. 6, 1929	10.7	23,800
	May 21, 1929	9.6	20,000
1930	Nov. 18, 1929	14.20	36,600
1931	Apr. 5, 1931	8.40	14,500
1932	Feb. 5, 1932	16.96	50,100
	Mar. 18, 1932	9.26	17,600
	Mar. 28, 1932	12.98	31,500
	May 2, 1932	12.02	27,500
	July 5, 1932	10.50	21,900
1933	Mar. 20, 1933	11.68	26,400
1934	Mar. 5, 1934	13.23	32,300
	Mar. 8, 1934	10.10	20,500
	Mar. 28, 1934	12.14	27,900
1935	Nov. 30, 1934	9.85	19,400
	Jan. 23, 1935	16.87	49,600
	Mar. 13, 1935	10.60	22,300
	Mar. 26, 1935	9.43	17,900
	Apr. 1, 1935	11.32	24,800
	May 7, 1935	10.04	20,100
	July 9, 1935	11.33	24,800
	Sept. 6, 1935	10.20	20,800
1936	Nov. 13, 1935	9.80	19,400
	Jan. 3, 1936	10.23	20,800
	Feb. 15, 1936	11.94	27,100
	Mar. 18, 1936	18.62	58,600
	Apr. 7, 1936	12.21	28,300
1937	Dec. 7, 1936	10.27	21,200
	Jan. 2, 1937	10.61	22,300
	Jan. 21, 1937	14.16	36,600
	Apr. 26, 1937	11.67	26,400
1938	Oct. 20, 1937	10.33	21,200
	Oct. 28, 1937	13.32	32,800
	May 25, 1938	10.65	22,300
1939	Jan. 31, 1939	14.97	40,200
	Feb. 4, 1939	15.34	41,600
	Feb. 11, 1939	10.26	21,200
	Apr. 17, 1939	9.21	17,200
	July 30, 1939	9.81	19,400
1940	Apr. 20, 1940	12.57	29,900
	May 25, 1940	10.38	21,500
	May 31, 1940	9.76	19,400
	June 28, 1940	9.64	18,700
1941	Apr. 6, 1941	7.57	11,500
1942	May 17, 1942	13.88	35,300
1943	Dec. 30, 1942	13.52	33,600
	Jan. 27, 1943	9.20	17,200
	Mar. 13, 1943	14.08	36,200
	Apr. 20, 1943	10.33	21,200
1944	Feb. 23, 1944	11.35	25,200
	Mar. 1, 1944	9.22	17,200
1945	Dec. 26, 1944	9.38	17,900
	Jan. 2, 1945	9.70	19,000
1946	Jan. 8, 1946	15.68	43,600
1947	Jan. 21, 1947	9.98	20,000
	Mar. 14, 1947	11.15	24,400
1948	Feb. 14, 1948	14.42	35,200
	Mar. 24, 1948	11.18	23,500
	Apr. 14, 1948	15.69	40,300
1949	Dec. 4, 1948	9.71	18,500
	Dec. 16, 1948	14.94	37,100
	Jan. 6, 1949	11.96	26,300
	Apr. 14, 1949	11.10	23,200
1950	Jan. 31, 1950	13.35	31,500
1951	Dec. 4, 1950	11.77	25,600
	Dec. 8, 1950	12.38	27,800
	Feb. 2, 1951	12.10	26,700
	Feb. 22, 1951	9.66	18,500

Peak stages and discharges of Greenbrier River at Alderson, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 31, 1951	10.07	19,800	1957	Jan. 30, 1957	12.58	28,900
	June 14, 1951	12.75	29,300		Apr. 6, 1957	10.66	22,000
1952	Jan. 18, 1952	9.66	17,800	1958	Dec. 8, 1957	10.60	21,800
	Jan. 28, 1952	10.08	19,100		Dec. 27, 1957	11.15	23,900
	Mar. 12, 1952	12.58	27,600		Mar. 31, 1958	10.73	22,200
					Apr. 7, 1958	9.27	17,500
1953	Feb. 22, 1953	17.43	47,100		May 6, 1958	12.01	26,700
	Mar. 24, 1953	10.41	20,100				
				1959	Jan. 22, 1959	9.20	17,200
1954	Mar. 1, 1954	13.20	29,700		June 3, 1959	11.19	23,900
	July 16, 1954	10.00	18,800				
				1960	Dec. 13, 1959	9.43	17,800
1955	Oct. 16, 1954	13.85	32,000		Mar. 31, 1960	14.42	35,500
	Feb. 7, 1955	12.70	28,000		Apr. 4, 1960	13.63	32,500
	Mar. 6, 1955	16.76	44,400				
	Mar. 23, 1955	12.28	26,200	1961	Feb. 19, 1961	11.53	25,000
					Feb. 24, 1961	10.57	21,800
1956	Mar. 15, 1956	9.50	18,200		Feb. 26, 1961	13.28	31,400
					May 7, 1961	9.25	17,200
1957	Jan. 24, 1957	11.20	23,900				

1840. Greenbrier River at Hilldale, W. Va.

Location.--Lat 37°38'25", long 80°48'20", on left bank 100 ft downstream from highway bridge on State Highway 3 at Hilldale, Summers County, 0.1 mile upstream from Howard Creek, 0.9 mile upstream from Powley Creek, 5 miles southeast of Hinton, and 5.6 miles upstream from mouth. Records include flow of Howard Creek.

Drainage area.--1,625 sq mi, including that of Howard Creek.

Gage.--Recording. Datum of gage is 1,388.66 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 58,000 cfs.

Remarks.--Base for partial-duration series, 18,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	a21.85	a60,800	1944	Feb. 23, 1944	13.73	25,600
					Mar. 1, 1944	11.45	18,800
1937	Dec. 7, 1936	12.62	21,600				
	Jan. 3, 1937	13.57	24,500	1945	Dec. 26, 1944	11.29	18,600
	Jan. 21, 1937	17.27	37,200		Jan. 2, 1945	11.85	20,000
	Feb. 10, 1937	11.49	18,600		Mar. 6, 1945	11.93	20,300
	Apr. 26, 1937	14.07	26,000				
				1946	Jan. 8, 1946	19.00	47,100
1938	Oct. 20, 1937	12.45	21,000				
	Oct. 28, 1937	16.03	32,300	1947	Jan. 21, 1947	12.22	21,200
	May 25, 1938	12.97	22,700		Mar. 15, 1947	13.73	25,700
1939	Jan. 31, 1939	17.62	38,400	1948	Feb. 15, 1948	17.38	39,900
	Feb. 4, 1939	17.99	40,000		Mar. 24, 1948	13.98	26,600
	Feb. 12, 1939	12.85	22,100		Apr. 15, 1948	18.65	45,300
1940	Apr. 20, 1940	15.92	32,000	1949	Dec. 4, 1948	11.86	20,300
	May 25, 1940	12.85	22,100		Dec. 16, 1948	18.10	43,000
	May 31, 1940	12.26	20,700		Jan. 6, 1949	14.69	29,000
	June 28, 1940	11.53	18,600		Apr. 14, 1949	13.73	25,700
	Aug. 15, 1940	11.34	18,100				
				1950	Nov. 2, 1949	11.1	18,100
1941	Apr. 6, 1941	9.58	13,800		Feb. 1, 1950	16.52	36,100
1942	May 17, 1942	16.33	33,400	1951	Dec. 5, 1950	14.4	28,000
					Dec. 8, 1950	14.8	29,400
1943	Dec. 30, 1942	16.57	36,400		Feb. 2, 1951	14.7	29,000
	Jan. 27, 1943	11.55	19,400		Feb. 22, 1951	12.0	20,600
	Mar. 14, 1943	17.16	38,900		Mar. 31, 1951	12.3	21,500
	Apr. 20, 1943	12.77	22,900		June 14, 1951	15.2	30,900

a From information by Corps of Engineers; maximum known.

Peak stages and discharges of Greenbrier River at Hilldale, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 19, 1952	11.87	20,300	1957	Jan. 24, 1957	13.58	25,500
	Jan. 28, 1952	12.54	22,100		Jan. 30, 1957	15.68	32,000
	Mar. 12, 1952	15.00	29,800		Apr. 6, 1957	13.16	24,200
1953	Feb. 22, 1953	20.50	47,800	1958	Dec. 8, 1957	13.00	23,600
	Mar. 25, 1953	12.76	23,000		Dec. 27, 1957	13.68	25,800
					Mar. 31, 1958	14.00	26,700
1954	Jan. 23, 1954	11.35	18,900		Apr. 7, 1958	11.31	18,600
	Mar. 2, 1954	15.88	32,700		May 6, 1958	14.60	28,600
	July 16, 1954	11.28	18,600				
				1959	June 3, 1959	13.16	24,200
1955	Oct. 16, 1954	16.15	33,600				
	Dec. 30, 1954	13.45	24,800	1960	Dec. 13, 1959	11.40	18,900
	Feb. 7, 1955	15.68	32,000		Mar. 31, 1960	17.32	37,200
	Feb. 28, 1955	12.69	22,700		Apr. 5, 1960	16.48	34,600
	Mar. 6, 1955	20.50	47,800				
	Mar. 23, 1955	14.83	29,200	1961	Feb. 19, 1961	14.00	27,000
					Feb. 24, 1961	12.80	23,400
1956	Mar. 15, 1956	11.63	19,500		Feb. 26, 1961	16.00	33,300
	Apr. 16, 1956	11.07	18,100				

1845. New River at Hinton, W. Va.

Location.--Lat 37°40'15", long 80°53'40", on right bank at Hinton, Summers County, 0.2 mile upstream from Madam Creek and 1.5 miles downstream from Greenbrier River.

Drainage area.--6,257 sq mi.

Gage.--Recording. At site 400 ft upstream at same datum prior to June 5, 1949. Datum of gage is 1,355.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 80,000 cfs and extended above on the basis of slope-area measurement at station at Bluestone Dam for flood of Aug. 15, 1940, and gaged inflow from Greenbrier River.

Remarks.--Base for partial-duration series, 47,000 cfs. Peaks partly regulated since 1939 by Claytor Reservoir and since 1949 by Bluestone Reservoir (combined usable capacity, 721,000 acre-ft). Only annual peaks are shown subsequent to 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 3, 1937	8.06	53,700	1947	Mar. 15, 1947	8.09	53,700
	Jan. 21, 1937	10.50	87,000				
				1948	Feb. 15, 1948	9.88	78,000
1938	Oct. 20, 1937	9.89	78,000		Mar. 24, 1948	8.07	53,700
	Oct. 28, 1937	10.23	82,500		Apr. 9, 1948	7.78	50,200
	July 23, 1938	8.06	53,700		Apr. 15, 1948	8.55	59,800
1939	Jan. 31, 1939	8.76	62,400	1949	Dec. 5, 1948	8.11	53,700
	Feb. 4, 1939	8.62	59,800		Dec. 16, 1948	8.75	62,400
	Feb. 12, 1939	7.62	48,100		Jan. 6, 1949	7.61	48,000
					Apr. 14, 1949	7.75	50,200
1940	Apr. 20, 1940	9.62	73,500				
	May 31, 1940	7.70	49,200	1950	Feb. 2, 1950	9.32	69,200
	Aug. 15, 1940	18.97	246,000				
	Aug. 31, 1940	8.58	59,800	1951	Dec. 8, 1950	8.01	52,500
1941	July 6, 1941	5.90	30,600	1952	Jan. 28, 1952	7.03	41,400
1942	May 17, 1942	7.58	48,100	1953	Feb. 22, 1953	7.75	50,200
	May 23, 1942	9.62	73,500				
				1954	Mar. 2, 1954	8.84	62,400
1943	Dec. 30, 1942	9.67	75,000				
	Mar. 14, 1943	8.83	62,400	1955	Feb. 7, 1955	8.68	61,100
	Apr. 20, 1943	7.72	49,100		Mar. 6, 1955	7.93	51,300
					Mar. 11, 1955	8.27	56,100
1944	Feb. 18, 1944	8.34	56,100		Mar. 23, 1955	8.14	53,700
1945	Feb. 18, 1945	7.80	49,800	1956	Apr. 17, 1956	7.56	48,000
	May 19, 1945	7.59	47,500	1957	Feb. 3, 1957	9.00	65,000
	Sept.19, 1945	10.60	88,600	1958	Mar. 31, 1958	8.50	58,500
				1959	Apr. 13, 1959	6.92	40,300
1946	Jan. 8, 1946	12.70	124,000	1960	Mar. 31, 1960	9.81	76,500
1947	Jan. 21, 1947	9.12	66,400	1961	Feb. 26, 1961	8.70	61,100

1850. Piney Creek at Raleigh, W. Va.

Location.--Lat 37°45'40", long 81°09'50", on left bank at Raleigh, Raleigh County, 0.5 mile downstream from Whitestick Creek, 0.5 mile upstream from Beaver Creek, and 1½ miles southeast of Beckley.

Drainage area.--52.2 sq mi.

Gage.--Recording. Datum of gage is 2,087.24 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 21, 1951	3.61	740	1956	Apr. 16, 1956	4.56	1,360
	Mar. 23, 1952	3.62	740				
	Apr. 28, 1952	4.51	1,310	1957	Jan. 10, 1957	3.81	846
	Aug. 12, 1952	4.15	1,070		Jan. 29, 1957	5.78	2,500
					Feb. 2, 1957	3.83	858
1953	Feb. 21, 1953	3.98	980		Feb. 10, 1957	4.09	1,020
1954	Jan. 16, 1954	4.09	1,040	1958	Dec. 8, 1957	3.73	810
	May 15, 1954	3.55	710		Feb. 7, 1958	3.71	780
					Mar. 27, 1958	3.66	722
1955	Dec. 30, 1954	3.80	860		Mar. 31, 1958	4.17	1,040
	Feb. 7, 1955	4.43	1,280		May 6, 1958	4.00	940
	Feb. 28, 1955	5.13	1,760				
	Mar. 6, 1955	5.73	2,470	1959	Jan. 22, 1959	3.47	624
	Mar. 17, 1955	3.81	840				
				1960	Mar. 30, 1960	3.73	780
1956	Mar. 8, 1956	3.69	780				
	Mar. 14, 1956	3.98	960	1961	Feb. 25, 1961	4.16	1,140

1855. New River at Caperton, W. Va.

Location.--Lat 38°01'20", long 81°01'45", at suspension footbridge at Caperton, Fayette County, 1 mile upstream from Keeney Creek and 2 miles southeast of Nuttalburg.

Drainage area.--6,826 sq mi.

Gage.--Recording. Datum of gage is 938.44 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 202,000 cfs.

Remarks.--Base for partial-duration series, 56,000 cfs. Peaks partly regulated since 1939 by Claytor Reservoir and since 1949 by Bluestone Reservoir (combined usable capacity, 721,000 acre-ft). Only annual peaks are shown subsequent to 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 1, 1929	17.60	92,500	1934	Mar. 9, 1934	13.53	59,600
	Mar. 6, 1929	15.05	71,500		Mar. 28, 1934	16.93	86,800
1930	Oct. 3, 1929	21.10	121,000	1935	Dec. 2, 1934	16.46	83,600
	Oct. 23, 1929	14.05	63,500		Jan. 10, 1935	13.16	57,200
	Nov. 19, 1929	18.59	101,000		Jan. 23, 1935	23.60	142,000
					Mar. 26, 1935	17.86	94,900
1931	Apr. 5, 1931	11.43	43,400		Apr. 1, 1935	19.18	106,000
					Sept. 7, 1935	13.63	60,300
1932	Feb. 5, 1932	16.00	79,500				
	Mar. 29, 1932	13.38	58,800	1936	Nov. 13, 1935	13.68	61,100
	May 2, 1932	13.85	61,900		Jan. 4, 1936	15.13	72,300
					Jan. 20, 1936	15.73	77,100
1933	Mar. 20, 1933	13.46	59,600		Feb. 15, 1936	20.68	118,000
					Mar. 18, 1936	22.74	135,000
1934	Mar. 5, 1934	20.24	114,000		Apr. 7, 1936	16.13	80,300

Peak stages and discharges of New River at Caperton, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 3, 1937	14.03	63,500	1947	Mar. 15, 1947	14.02	62,100
	Jan. 21, 1937	18.80	102,000	1948	Feb. 15, 1948	17.35	89,300
1938	Oct. 20, 1937	16.80	86,000		Mar. 24, 1948	14.23	63,700
	Oct. 28, 1937	18.75	102,000		Apr. 8, 1948	13.74	59,800
	July 24, 1938	13.84	61,900		Apr. 15, 1948	14.93	69,300
1939	Jan. 31, 1939	14.95	71,500	1949	Dec. 5, 1948	13.78	60,600
	Feb. 4, 1939	14.87	70,700		Dec. 16, 1948	15.52	74,100
1940	Apr. 21, 1940	18.35	99,000	1950	Feb. 2, 1950	16.85	84,500
	May 31, 1940	13.16	57,200	1951	Dec. 8, 1950	13.88	61,400
	Aug. 15, 1940	36.0	244,000	1952	Jan. 28, 1952	12.48	50,800
	Aug. 31, 1940	14.6	68,300	1953	Feb. 22, 1953	13.56	59,100
1941	Apr. 6, 1941	10.08	33,900	1954	Mar. 2, 1954	15.15	71,700
1942	May 23, 1942	16.83	86,000	1955	Dec. 30, 1954	13.19	56,100
1943	Dec. 31, 1942	17.40	89,300		Feb. 8, 1955	15.28	72,500
	Mar. 14, 1943	15.32	72,500		Feb. 28, 1955	15.38	73,300
	Apr. 20, 1943	13.29	56,800		Mar. 6, 1955	17.00	86,100
1944	Feb. 19, 1944	14.32	64,500		Mar. 12, 1955	13.94	61,400
1945	Feb. 18, 1945	13.77	60,600		Mar. 23, 1955	13.86	61,400
	May 19, 1945	13.22	56,100	1956	Apr. 17, 1956	13.25	56,100
	Sept.19, 1945	18.19	95,700	1957	Jan. 30, 1957	15.54	74,100
1946	Jan. 8, 1946	23.15	136,000	1958	Mar. 31, 1958	15.56	74,900
1947	Jan. 21, 1947	15.66	75,700				

1860. New River at Fayette, W. Va.

Location.--Lat 38°03'55", long 81°04'40", at highway bridge at Fayette, Fayette County, 850 ft upstream from Wolf Creek.

Drainage area.--6,850 sq mi.

Gage.--Nonrecording. Datum of gage is 838.44 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 174,000 cfs.

Remarks.--Base for partial-duration series, 50,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	Mar. 28, 1878	a53	310,000	1901	Dec. 5, 1900	-	b50,000
1896	Mar. 30, 1896	28.0	113,000		Apr. 4, 1901	-	b71,500
	Apr. 2, 1896	24.7	92,500		Apr. 21, 1901	-	b146,000
	July 10, 1896	29.0	119,000		May 23, 1901	-	b150,000
1897	Nov. 6, 1896	18.0	56,300		May 28, 1901	-	b90,000
	Feb. 7, 1897	18.45	58,300		June 18, 1901	-	b60,000
	Feb. 23, 1897	28.0	113,000		June 24, 1901	-	b90,000
	Mar. 15, 1897	17.40	53,400	1903	Jan. 3, 1903	18.0	56,300
	May 14, 1897	21.0	72,000		Feb. 5, 1903	17.70	54,800
1898	Mar. 31, 1898	20.0	66,700		Feb. 17, 1903	23.0	82,900
	May 7, 1898	17.0	51,500		Mar. 1, 1903	23.0	82,900
	Aug. 11, 1898	20.5	69,400		Mar. 24, 1903	34.0	152,000
1899	Oct. 23, 1898	22.0	77,400	1904	Mar. 9, 1904	13.50	36,000
	Feb. 7, 1899	24.0	88,500	1909	Apr. 15, 1909	18.13	56,800
	Feb. 28, 1899	20.05	66,700	1910	Feb. 18, 1910	16.8	50,500
	Mar. 5, 1899	30.5	129,000		June 14, 1910	19.80	65,600
	Mar. 20, 1899	20.00	66,700		June 17, 1910	23.15	84,000
	Mar. 29, 1899	18.70	59,900	1911	Jan. 4, 1911	18.6	59,300
1900	Mar. 21, 1900	13.6	36,400		Jan. 31, 1911	22.0	77,400
1901	Nov. 27, 1900	-	b120,000		Apr. 6, 1911	18.0	56,300

a Maximum stage known, from floodmarks. b Maximum daily discharge.

Peak stages and discharges of New River at Fayette, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Oct. 19, 1911	20.0	66,700	1913	Mar. 28, 1913	36.5	169,000
	Mar. 13, 1912	19.25	62,500		Apr. 14, 1913	17.90	55,800
	Mar. 16, 1912	27.0	106,000		May 25, 1913	17.15	52,400
	Mar. 30, 1912	25.0	94,200	1915	Jan. 8, 1915	28.0	113,000
	Apr. 2, 1912	19.25	62,500		Feb. 3, 1915	20.0	66,700
	May 13, 1912	20.25	67,800	1916	Oct. 2, 1915	19.04	61,400
	May 17, 1912	18.40	58,300		Dec. 30, 1915	20.70	70,400
1913	Jan. 8, 1913	18.5	58,800		July 17, 1916	39.8	191,000
	Mar. 15, 1913	18.5	58,800				

1865. Williams River at Dyer, W. Va.

Location.--Lat 38°22'45", long 80°29'05", on left bank at Dyer, Webster County, 0.2 mile downstream from Craig Run and 7 miles southwest of Webster Springs.

Drainage area.--128 sq mi.

Gage.--Nonrecording prior to June 11, 1930; recording thereafter. Datum of gage is 2,193.46 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs and extended on basis of slope-area measurements at 12,000 and 22,000 cfs.

Remarks.--Base for partial-duration series, 4,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 3, 1929	12.0	11,500	1946	Jan. 7, 1946	11.07	10,100
1931	Apr. 4, 1931	8.00	5,440	1947	Mar. 25, 1947	7.85	5,440
	Aug. 22, 1931	7.58	4,830	1948	Feb. 14, 1948	10.35	9,050
1932	Feb. 4, 1932	10.57	8,650		Feb. 26, 1948	8.25	5,970
	Mar. 18, 1932	8.54	5,600	1949	Dec. 15, 1948	7.79	5,440
	Mar. 28, 1932	10.20	8,050		Jan. 5, 1949	7.16	4,670
	July 4, 1932	18.45	22,000		July 13, 1949	7.63	5,180
1933	Aug. 11, 1933	8.12	5,080	1950	Jan. 31, 1950	9.67	8,030
1934	Mar. 4, 1934	9.90	7,600		Sept. 2, 1950	7.47	5,050
	Mar. 27, 1934	7.86	4,830	1951	Dec. 4, 1950	8.40	6,240
	Aug. 16, 1934	8.44	5,470		Dec. 7, 1950	8.58	6,510
1935	May 7, 1935	8.93	6,160		Feb. 1, 1951	7.54	5,050
	July 8, 1935	7.78	4,640		June 13, 1951	7.47	5,050
	Aug. 7, 1935	9.38	6,860	1952	Mar. 11, 1952	9.55	7,890
1936	Mar. 17, 1936	11.04	9,250	1953	Feb. 21, 1953	-	(a)
	Mar. 24, 1936	8.37	5,460	1954	Feb. 21, 1954	7.29	4,800
1937	Dec. 7, 1936	8.42	5,460		Mar. 1, 1954	9.43	7,610
1938	Oct. 28, 1937	9.40	6,860		July 15, 1954	12.33	12,000
1939	Jan. 30, 1939	9.10	6,440		July 19, 1954	11.74	11,000
	Feb. 3, 1939	11.68	10,400	1955	Oct. 15, 1954	11.63	10,900
	Apr. 16, 1939	9.48	7,000		Dec. 30, 1954	9.28	7,470
	July 29, 1939	10.70	8,800		Feb. 23, 1955	7.2	4,670
1940	Apr. 20, 1940	7.94	4,770		Feb. 27, 1955	7.86	5,570
	May 25, 1940	10.26	8,200		Mar. 5, 1955	13.30	13,600
	June 27, 1940	12.38	11,400	1956	Aug. 6, 1956	10.58	9,100
1941	Apr. 5, 1941	6.82	3,420	1957	Jan. 10, 1957	8.97	6,700
1942	Mar. 9, 1942	7.95	4,900		Jan. 23, 1957	7.93	5,160
	May 16, 1942	11.45	9,890		Jan. 29, 1957	10.17	8,500
1943	Mar. 13, 1943	8.08	5,720	1958	Dec. 8, 1957	7.93	5,160
1944	Feb. 22, 1944	9.05	7,000		Apr. 6, 1958	7.83	5,020
	Apr. 12, 1944	7.83	5,270	1959	Jan. 22, 1959	8.44	5,860
1945	Dec. 26, 1944	7.98	5,800	1960	Dec. 12, 1959	7.73	4,880
	Jan. 1, 1945	8.35	6,400		Mar. 31, 1960	8.69	6,280
	Mar. 3, 1945	7.93	5,660		Apr. 4, 1960	12.20	11,500
				1961	May 6, 1961	8.15	5,580

a Undetermined; over 5,000 cfs.

1870. Gauley River at Camden on Gauley, W. Va.
(Published as "at Allingdale" prior to 1935)

Location.--Lat 38°21'55", long 80°36'05", on right bank at Baltimore & Ohio Railroad station at Camden on Gauley, Webster County, 0.2 mile downstream from Coon Creek and 0.9 mile upstream from Strouds Creek.

Drainage area.--236 sq mi.

Gage.--Nonrecording prior to Nov. 21, 1934; recording thereafter. At site 1.1 miles downstream at datum 3.08 ft lower prior to Oct. 20, 1929, and at present datum Oct. 20, 1929, to Oct. 29, 1934. Datum of gage is 2,003.28 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended above on basis of velocity-area studies.

Historical data.--Flood of July 4, 1932, 27.4 ft, was highest in previous fifty years, from information by local residents.

Remarks.--Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1902	Dec. 15, 1901	a23.7	-	1940	June 27, 1940	18.18	17,500
1909	Apr. 14, 1909	11.55	7,650	1941	Apr. 5, 1941	9.76	5,310
1910	Jan. 7, 1910	10.45	5,830	1942	Mar. 9, 1942	11.70	7,650
1911	Jan. 30, 1911	16.1	15,000		May 16, 1942	13.98	11,000
1912	Feb. 27, 1912	11.75	7,970	1943	Mar. 13, 1943	12.58	8,910
1913	Mar. 27, 1913	12.68	9,410	1944	Feb. 22, 1944	13.39	10,000
	May 31, 1913	11.25	7,030		Apr. 12, 1944	12.2	8,350
1914	Oct. 25, 1913	12.0	8,290	1945	Dec. 26, 1944	13.52	10,200
	Nov. 16, 1913	12.1	8,450		Jan. 1, 1945	13.4	10,000
1915	Jan. 7, 1915	12.68	9,410		Mar. 3, 1945	12.42	8,630
	Jan. 18, 1915	12.0	8,290	1946	Jan. 7, 1946	16.43	14,600
	Feb. 2, 1915	12.15	8,610	1947	Mar. 25, 1947	13.36	10,000
1916	Oct. 1, 1915	15.13	13,300	1948	Feb. 14, 1948	16.24	14,300
					Feb. 26, 1948	11.5	7,400
1930	Oct. 2, 1929	-	b20,000	1949	Dec. 15, 1948	11.4	7,300
	Nov. 18, 1929	10.46	10,400		July 13, 1949	15.2	12,800
1931	Apr. 4, 1931	8.5	7,160	1950	Jan. 31, 1950	15.1	12,600
1932	Feb. 4, 1932	13.2	15,800	1951	Dec. 4, 1950	14.28	11,400
	Mar. 17, 1932	10.0	9,700		Dec. 8, 1950	11.38	7,260
	Mar. 28, 1932	11.0	11,500	1952	Mar. 11, 1952	10.10	5,660
	July 4, 1932	27.38	42,500	1953	Feb. 21, 1953	13.60	10,400
1933	Jan. 21, 1933	9.5	8,800	1954	Mar. 1, 1954	13.09	9,610
	Aug. 4, 1933	8.5	7,100		July 1, 1954	16.07	14,100
	Aug. 11, 1933	10.69	11,000		July 19, 1954	19.42	19,800
1934	Mar. 5, 1934	10.69	11,000	1955	Oct. 15, 1954	16.82	15,200
	Mar. 27, 1934	8.6	7,260		Dec. 30, 1954	12.47	8,770
1935	Mar. 12, 1935	12.0	7,920		Feb. 27, 1955	11.29	7,130
	Mar. 24, 1935	11.43	7,140		Mar. 5, 1955	18.63	18,300
	May 7, 1935	11.53	7,270	1956	Jan. 30, 1956	12.34	8,490
	Aug. 7, 1935	15.26	12,800		Aug. 6, 1956	15.05	12,400
1936	Feb. 15, 1936	11.50	7,270	1957	Jan. 10, 1957	13.17	9,750
	Mar. 17, 1936	16.23	14,200		Jan. 29, 1957	16.25	14,300
	Mar. 24, 1936	14.12	11,000	1958	Dec. 8, 1957	11.80	7,790
	Apr. 6, 1936	12.5	8,620	1959	Jan. 22, 1959	12.50	8,770
1937	Dec. 7, 1936	12.12	8,120	1960	Dec. 12, 1959	11.80	7,790
1938	Oct. 28, 1937	15.63	13,300		Mar. 31, 1960	13.49	10,200
1939	Jan. 30, 1939	13.28	9,850		Apr. 4, 1960	15.61	13,400
	Feb. 3, 1939	17.76	16,800	1961	Feb. 25, 1961	12.00	8,070
	Apr. 16, 1939	15.50	13,200		May 6, 1961	11.60	7,520
	July 29, 1939	14.54	11,700				
1940	May 25, 1940	14.41	11,600				

a From Weather Bureau gage, adjusted for datum and stream slope. b Estimated.

1875. Cranberry River near Richwood, W. Va.

Location.--Lat 38°17'45", long 80°31'40", at U.S. Forest Service highway bridge, 0.6 mile upstream from Barrenshe Run, 5 miles upstream from mouth and 5 miles north of Richwood, Nicholas County.

Drainage area.--81.2 sq mi.

Gage.--Recording. Altitude of gage is 2,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Dec. 26, 1944	6.66	3,020	1949	July 13, 1949	6.04	2,220
	Jan. 1, 1945	7.37	4,120				
	Feb. 27, 1945	5.88	2,040	1950	Nov. 1, 1949	6.18	2,410
	Mar. 2, 1945	7.08	3,710		Jan. 31, 1950	7.26	3,960
					Mar. 13, 1950	6.03	2,220
1946	Jan. 7, 1946	8.65	6,960		Sept.22, 1950	6.15	2,340
1947	Mar. 25, 1947	6.84	3,320	1951	Dec. 4, 1950	7.17	3,790
	Apr. 6, 1947	6.21	2,410		Dec. 7, 1950	7.07	3,630
					Feb. 1, 1951	6.25	2,480
1948	Feb. 14, 1948	7.75	4,870		Mar. 30, 1951	6.05	2,220
	Feb. 26, 1948	7.44	4,300		June 13, 1951	6.25	2,480
	May 3, 1948	6.32	2,540				
				1952a/	Nov. 26, 1951	5.42	1,500
1949	Dec. 15, 1948	6.65	3,020				
	Jan. 5, 1949	6.07	2,220	1954	July 19, 1954	12.22	-

a Partial year.

1885. Cherry River at Richwood, W. Va.

Location.--Lat 38°13'20", long 80°32'00", at highway bridge at Richwood, Nicholas County, half a mile below confluence of North and South Forks.

Drainage area.--85.0 sq mi.

Gage.--Nonrecording. Altitude of gage 2,150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	5.72	2,240	1913	Jan. 8, 1913	5.8	2,710
					Mar. 14, 1913	5.25	2,070
1910	June 16, 1910	6.50	3,280		Mar. 27, 1913	6.40	3,370
1911	Dec. 30, 1910	6.00	2,720	1914	Nov. 15, 1913	6.0	2,930
	Jan. 2, 1911	5.50	2,190				
	Jan. 13, 1911	6.2	2,940	1915	Dec. 5, 1914	5.7	2,600
	Jan. 30, 1911	7.00	4,090		Jan. 7, 1915	6.5	3,490
	Apr. 5, 1911	5.4	2,090		Jan. 18, 1915	5.5	2,380
					Feb. 1, 1915	6.0	2,930
1912	Oct. 18, 1911	5.5	2,380				
	Mar. 15, 1912	7.0	4,090	1916	Oct. 1, 1915	8.97	6,600
	Mar. 29, 1912	5.30	2,170		Dec. 18, 1915	6.50	3,490
	May 12, 1912	5.45	2,270		Dec. 29, 1915	6.00	2,930
	May 16, 1912	6.90	3,970		Sept.15, 1916	6.00	2,930

1890. Cherry River at Fenwick, W. Va.

Location.--Lat 38°13'45", long 80°35'00", on left bank at downstream side of highway bridge at Fenwick, Nicholas County, 1,000 ft downstream from Laurel Creek.

Drainage area.--150 sq mi.

Gage.--Nonrecording prior to Mar. 17, 1939; recording thereafter. Datum of gage is 2,088.94 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs and extended on basis of contracted-opening measurement at 37,000 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	12.0	12,100	1946	Jan. 7, 1946	11.13	10,800
1931	Apr. 4, 1931	9.44	5,100	1947	Mar. 25, 1947	8.92	5,970
1932	Feb. 4, 1932	10.12	6,550	1948	Feb. 14, 1948	10.43	9,000
	Mar. 28, 1932	12.7	14,800		Feb. 26, 1948	9.46	7,090
	July 4, 1932	14.58	23,000				
				1949	Dec. 15, 1948	8.48	5,270
1933	Jan. 21, 1933	9.84	5,900				
	Mar. 15, 1933	9.73	5,700	1950	Jan. 31, 1950	9.16	6,520
1934	Mar. 5, 1934	10.04	6,300	1951	Dec. 4, 1950	10.10	8,310
					Dec. 7, 1950	10.70	9,750
1935	Mar. 12, 1935	8.95	4,740				
				1952	Mar. 11, 1952	10.86	10,200
1936	Mar. 17, 1936	11.50	10,400				
	Apr. 6, 1936	11.00	8,900	1953	Dec. 10, 1952	9.02	6,150
					Feb. 21, 1953	10.19	8,530
1937	Dec. 7, 1936	9.94	6,100				
				1954	Feb. 21, 1954	8.58	5,440
1938	Oct. 28, 1937	10.99	8,900		Mar. 1, 1954	9.42	6,900
					July 19, 1954	b19.8	37,000
1939	Jan. 30, 1939	9.4	6,300				
	Feb. 3, 1939	11.9	13,100	1955	Oct. 15, 1954	10.63	10,900
	Mar. 6, 1939	9.8	7,100		Dec. 30, 1954	9.28	8,000
	July 29, 1939	10.92	9,840		Feb. 23, 1955	7.85	5,280
					Feb. 27, 1955	7.73	5,120
1940	Feb. 11, 1940	8.45	5,100		Mar. 5, 1955	10.60	10,900
	Mar. 4, 1940	8.92	5,970				
	Mar. 29, 1940a/	8.68	5,610	1956	May 28, 1956	8.73	6,860
	Apr. 20, 1940	8.63	5,440		July 27, 1956	8.17	5,960
	May 25, 1940	11.54	12,000				
	May 30, 1940	8.84	5,790	1957	Jan. 10, 1957	9.87	9,200
	June 27, 1940	15.2	27,300		Jan. 29, 1957	9.70	8,800
1941	Apr. 5, 1941	8.86	5,970	1958	Dec. 8, 1957	8.02	5,600
					Apr. 6, 1958	8.60	6,680
1942	Mar. 9, 1942	8.87	5,970		July 22, 1958	8.35	6,320
	May 16, 1942	8.70	5,610		July 24, 1958	7.93	5,440
1943	Dec. 30, 1942	8.52	5,270	1959	Jan. 22, 1959	7.77	5,280
1944	Feb. 22, 1944	8.67	5,610	1960	Dec. 12, 1959	8.90	7,220
	Apr. 12, 1944	9.25	6,520		Mar. 31, 1960	9.10	7,600
					Apr. 3, 1960	11.15	12,500
1945	Dec. 26, 1944	8.50	5,270				
	Jan. 1, 1945	9.26	6,710	1961	Feb. 25, 1961	10.70	11,200
	Mar. 2, 1945	8.82	5,790				

a Date of peak questionable.
b Maximum stage known.

1895. Gauley River near Summersville, W. Va.

Location.--Lat 38°16'15", long 80°49'10", on right bank at Brocks Bridge, 500 ft downstream from Muddlety Creek and 2 miles east of Summersville, Nicholas County.

Drainage area.--680 sq mi.

Gage.--Nonrecording prior to Jan. 5, 1939; recording thereafter. At datum 2.00 ft lower prior to Nov. 23, 1928. Datum of gage is 1,580.90 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs and extended on basis of contracted-opening measurement at 77,700 cfs.

Remarks.--Base for partial-duration series, 15,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	13.87	14,000
1910	Jan. 7, 1910	12.7	11,300
1911	Dec. 30, 1910	15.0	16,700
	Jan. 3, 1911	15.3	17,400
	Jan. 30, 1911	18.3	25,000
1912	Mar. 15, 1912	15.0	16,700
	May 12, 1912	14.9	16,400
	May 16, 1912	14.4	15,200
1913	Jan. 8, 1913	14.20	14,700
1914	Oct. 26, 1913	15.30	17,400
	Nov. 16, 1913	16.20	19,700
	Feb. 19, 1914	15.3	17,400
1915	Jan. 7, 1915	17.9	24,000
	Feb. 3, 1915	15.5	17,900
1916	Oct. 1, 1915	18.16	24,800
	Dec. 18, 1915	15.9	18,900
	Dec. 29, 1915	14.8	16,200
1929	Nov. 30, 1928	17.0	33,100
	Feb. 27, 1929	12.0	15,000
	Mar. 6, 1929	13.3	19,500
	May 21, 1929	12.3	16,000
1930	Oct. 2, 1929	20.5	48,000
	Nov. 18, 1929	16.3	30,400
	Feb. 7, 1930	12.4	16,400
1931	Apr. 4, 1931	12.48	16,700
1932	Jan. 30, 1932	13.2	19,100
	Feb. 4, 1932	16.4	30,800
	July 4, 1932	a28.75	77,700
1933	Jan. 21, 1933	14.44	23,400
	Mar. 15, 1933	12.2	15,700
	Aug. 4, 1933	12.4	16,400
1934	Mar. 5, 1934	15.93	28,900
	Mar. 28, 1934	12.7	17,400
1935	Mar. 12, 1935	13.90	21,600
	Mar. 24, 1935	13.72	20,900
	May 7, 1935	13.06	18,800
	Aug. 7, 1935	14.6	24,200
1936	Mar. 17, 1936	16.97	33,100
	Mar. 24, 1936	16.7	32,000
	Apr. 6, 1936	14.0	22,000
1937	Dec. 7, 1936	13.37	19,800
	Jan. 20, 1937	12.0	15,000
1938	Oct. 28, 1937	17.16	33,900
1938	Dec. 16, 1937	15.0	25,600
	May 20, 1938	12.9	18,100
1939	Jan. 30, 1939	14.18	23,200
	Feb. 3, 1939	17.84	36,700
	Feb. 11, 1939	12.53	17,400
	Mar. 6, 1939	12.39	17,000
	Apr. 16, 1939	15.70	28,700
	July 29, 1939	15.35	27,600
1940	Feb. 11, 1940	11.93	15,000
	Mar. 4, 1940	12.07	15,300
	Apr. 20, 1940	11.90	15,000
	May 25, 1940	14.78	24,800
	June 27, 1940	21.87	50,500
1941	Apr. 5, 1941	11.52	13,800
1942	Mar. 9, 1942	12.95	18,500
	May 16, 1942	13.21	19,200
1943	Dec. 30, 1942	12.40	16,600
	Mar. 13, 1943	14.15	22,600
1944	Feb. 23, 1944	13.90	21,600
	Apr. 12, 1944	13.38	19,900
1945	Dec. 26, 1944	14.38	23,300
	Jan. 1, 1945	14.55	24,100
	Mar. 3, 1945	13.41	19,900
1946	Jan. 7, 1946	17.35	35,000
1947	Mar. 25, 1947	13.52	20,200
1948	Feb. 14, 1948	17.00	33,300
	Feb. 26, 1948	13.95	21,900
1949	Dec. 15, 1948	13.3	19,500
	July 13, 1949	13.0	18,500
1950	Jan. 31, 1950	15.26	26,600
1951	Dec. 4, 1950	15.48	27,400
	Dec. 8, 1950	13.78	21,200
	Feb. 2, 1951	12.20	15,900
1952	Jan. 28, 1952	12.18	15,900
	Mar. 11, 1952	12.78	17,900
1953	Feb. 21, 1953	14.27	23,000
1954	Mar. 1, 1954	13.13	18,800
	July 5, 1954	15.23	26,100
	July 19, 1954	25.87	66,100
1955	Oct. 16, 1954	15.25	26,100
	Dec. 30, 1954	13.77	21,200
	Feb. 7, 1955	13.70	20,900
	Feb. 27, 1955	13.03	18,500

a Maximum stage known.

Peak stages and discharges of Gauley River near Summersville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 5, 1955	18.95	39,700	1958	July 24, 1958	12.78	18,400
					Aug. 4, 1958	11.95	15,700
1956	Aug. 6, 1956	13.38	20,500				
				1959	Jan. 22, 1959	13.40	20,500
1957	Jan. 10, 1957	14.37	23,900				
	Jan. 23, 1957	12.40	17,100	1960	Dec. 12, 1959	13.33	20,100
	Jan. 29, 1957	16.59	31,300		Mar. 31, 1960	14.21	23,200
	Feb. 10, 1957	12.23	16,400		Apr. 4, 1960	14.67	24,900
1958	Dec. 8, 1957	13.08	19,400	1961	Feb. 25, 1961	13.54	20,800
	Apr. 6, 1958	12.08	16,000		May 7, 1961	11.87	15,400

1900. Meadow River at Nallen, W. Va.
(Published as "near Russellville" prior to 1929)

Location.--Lat 38°06'45", long 80°52'35", on left bank at highway bridge at Nallen, Fayette County, 0.3 mile downstream from highway bridge on U.S. Highway 19, 2 miles upstream from Anglins Creek, and 3 miles downstream from Brackens Creek and Russellville.

Drainage area.--287 sq mi.

Gage.--Nonrecording prior to Oct. 27, 1942; recording thereafter. Datum of gage is 1,869.47 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs.

Remarks.--Base for partial-duration series, 3,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Mar. 10, 1909	9.5	3,240	1932	Mar. 28, 1932	11.0	4,240
					June 28, 1932	14.68	9,690
1910	June 17, 1910	10.0	3,690				
				1933	Mar. 20, 1933	10.67	3,970
1911	Dec. 30, 1910	10.4	4,090				
	Jan. 3, 1911	11.2	4,920	1934	Mar. 5, 1934	15.64	11,200
	Jan. 30, 1911	13.3	7,360				
	Apr. 6, 1911	10.5	4,190	1935	Jan. 23, 1935	11.09	4,790
					Mar. 12, 1935	11.34	5,030
1912	Feb. 27, 1912	10.4	4,090		Mar. 24, 1935	11.22	4,910
	Mar. 16, 1912	12.64	6,520		Apr. 1, 1935	12.84	6,910
	May 12, 1912	10.4	4,090				
	May 17, 1912	11.5	5,250	1936	Jan. 3, 1936	10.54	4,130
					Feb. 15, 1936	12.6	6,650
1913	Mar. 28, 1913	11.08	4,810		Mar. 18, 1936	12.65	6,650
	May 28, 1913	10.2	3,890		Mar. 25, 1936	12.1	6,000
					Apr. 6, 1936	11.99	5,870
1914	Nov. 17, 1913	10.8	4,490				
	Jan. 21, 1914	10.3	3,990	1937	Jan. 21, 1937	10.96	4,250
	Mar. 18, 1914	10.2	3,890				
				1938	Oct. 28, 1937	14.79	8,920
1915	Jan. 7, 1915	12.8	6,760				
	Jan. 19, 1915	11.8	5,580	1939	Jan. 31, 1939	11.6	4,890
	Feb. 3, 1915	13.25	7,300		Feb. 3, 1939	13.2	6,760
					Feb. 11, 1939	11.0	4,670
1916	Dec. 30, 1915	11.25	4,920		Mar. 6, 1939	10.40	4,030
	Feb. 25, 1916	10.5	4,190				
	Mar. 7, 1916	10.8	4,490	1940	Mar. 4, 1940	10.2	3,830
					Apr. 21, 1940	11.1	4,790
1929	Dec. 1, 1928	11.6	4,780		May 25, 1940	12.2	6,130
	Feb. 28, 1929	12.03	5,140		June 27, 1940	12.5	6,520
	Mar. 6, 1929	12.0	5,140		Aug. 14, 1940	13.05	7,170
1930	Oct. 2, 1929	14.5	9,350	1941	Apr. 6, 1941	10.25	3,830
	Oct. 22, 1929	12.21	5,340				
	Nov. 3, 1929	11.2	4,420	1942	Mar. 9, 1942	11.95	5,870
	Nov. 18, 1929	12.63	5,740		Aug. 6, 1942	11.5	4,850
	May 8, 1930	11.92	5,050		Aug. 9, 1942	11.2	4,520
1931	Apr. 4, 1931	10.70	3,970	1943	Oct. 15, 1942	10.8	4,150
					Dec. 30, 1942	12.45	5,970
1932	Jan. 30, 1932	10.6	3,880		Mar. 13, 1943	12.43	5,970
	Feb. 4, 1932	13.0	6,140				

Peak stages and discharges of Meadow River at Nallen, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 12, 1944	11.56	5,010	1955	Dec. 30, 1954	12.10	5,220
					Feb. 7, 1955	12.08	5,220
1945	Dec. 26, 1944	10.91	4,250		Mar. 5, 1955	15.36	9,200
	Jan. 1, 1945	11.38	4,790				
	Feb. 17, 1945	11.27	4,680	1956	Feb. 7, 1956	10.83	4,020
	Mar. 3, 1945	10.74	4,050		Apr. 16, 1956	11.55	4,740
					May 28, 1956	11.43	4,560
1946	Jan. 8, 1946	14.92	10,000		July 27, 1956	10.63	3,840
1947	Mar. 25, 1947	11.05	4,350	1957	Jan. 10, 1957	12.29	5,420
					Jan. 30, 1957	12.32	5,420
1948	Feb. 14, 1948	14.70	8,890		Feb. 10, 1957	11.75	4,920
	Mar. 24, 1948	11.40	4,740				
				1958	Dec. 8, 1957	10.64	3,840
1949	Dec. 16, 1948	13.85	7,620		(a)	12.10	5,220
	Apr. 14, 1949	10.47	3,850		Mar. 31, 1958	12.27	5,420
					Apr. 7, 1958	10.99	4,200
1950	Feb. 2, 1950	13.62	7,360		July 24, 1958	10.90	4,110
					Aug. 4, 1958	11.78	4,920
1951	Dec. 4, 1950	12.79	6,340				
	Dec. 7, 1950	12.26	5,740	1959	Jan. 22, 1959	9.55	3,000
	June 10, 1951	11.25	4,540				
				1960	Dec. 13, 1959	11.52	4,650
1952	Apr. 28, 1952	10.29	3,570		Mar. 31, 1960	15.07	8,750
					Apr. 4, 1960	11.95	5,120
1953	Feb. 21, 1953	13.28	6,450				
	June 17, 1953	12.88	6,020	1961	Feb. 20, 1961	11.50	4,650
					Feb. 26, 1961	13.03	6,120
1954	July 22, 1954	11.68	4,830				

a Date unknown.

1910. Gauley River near Leander, W. Va.

Location.--Lat 38°12'10", long 81°00'50", 100 ft below Ramsey Branch, 1 mile northeast of Leander, Fayette County.

Drainage area.--1,230 sq mi.

Gage.--Nonrecording. Datum of gage is 981.17 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Oct. 26, 1925	20.0	40,000	1929	Dec. 1, 1928	20.0	40,000
1927	Nov. 16, 1926	20.35	41,400	1930	Oct. 2, 1929	25.0	62,000
1928	May 1, 1928	18.0	32,000				

1915. Peters Creek near Lockwood, W. Va.

Location.--Lat 38°15'40", long 81°01'20", on right bank 0.9 mile upstream from Line Creek and Lockwood, Nicholas County, 1.3 miles downstream from Tate Run and 4¼ miles upstream from mouth.

Drainage area.--40.9 sq mi.

Gage.--Nonrecording prior to Nov. 2, 1945; recording thereafter. At site 0.5 mile upstream at datum 12.67 ft higher prior to Aug. 3, 1955. Datum of gage is 1,059.52 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended on basis of slope-area measurement at 6,500 cfs.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges of Peters Creek near Lockwood, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 7, 1946	5.95	1,930
1947	July 31, 1947	5.57	1,560
	Aug. 4, 1947	10.25	4,700
1948	Feb. 14, 1948	6.92	2,340
	Mar. 24, 1948	5.67	1,620
	Apr. 13, 1948	5.98	1,800
1949	Dec. 15, 1948	7.83	2,960
	Apr. 13, 1949	10.2	4,660
1950	Jan. 31, 1950	8.7	3,590
	May 28, 1950	5.2	1,320
	June 17, 1950	7.8	2,960
	Aug. 1, 1950	5.5	1,500
1951	Dec. 4, 1950	7.22	2,540
	Feb. 1, 1951	6.14	1,860
1952	Jan. 27, 1952	5.44	1,470
1953	June 17, 1953	8.10	3,170
1954	July 21, 1954	8.25	3,240
1955	Oct. 15, 1954	5.07	1,230
	Feb. 6, 1955	5.55	1,560
	Feb. 27, 1955	6.07	1,860
	Mar. 5, 1955	9.92	4,430
1956	Mar. 14, 1956	7.44	1,230
	June 1, 1956	8.52	1,620
	July 27, 1956	10.20	2,370
1957	Jan. 29, 1957	9.49	2,040
1958	July 21, 1958	11.92	3,660
	July 24, 1958	-	-
	Aug. 2, 1958	14.43	6,500
1959	Aug. 4, 1959	7.35	1,230
	Aug. 30, 1959	14.40	6,500
1960	Nov. 28, 1959	7.30	1,200
1961	May 7, 1961	8.19	1,620
	July 20, 1961	8.10	1,580

1920. Gauley River above Belva, W. Va.

Location.--Lat 38°14'00", long 81°10'45", on right bank 0.5 mile upstream from Belva, Nicholas County, and 1 mile upstream from Twentymile Creek.

Drainage area.--1,315 sq mi.

Gage.--Recording. Datum of gage is 669.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 37,000 cfs and extended on basis of velocity-area studies and inflow and storage adjustments to record for Kanawha River at Kanawha Falls.

Remarks.--Base for partial-duration series, 25,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 13, 1918	a30	-
1929	Dec. 1, 1928	16.25	41,400
	Mar. 6, 1929	13.13	29,200
1930	Oct. 2, 1929	20.3	59,900
	Nov. 18, 1929	16.40	42,300
1931	Apr. 4, 1931	11.94	25,200
	Apr. 21, 1931	12.55	28,000
1932	Jan. 30, 1932	12.72	27,800
	Feb. 5, 1932	16.90	44,600
	Mar. 18, 1932	13.85	31,800
	Mar. 28, 1932	15.68	39,300
	June 28, 1932	12.39	26,700
	July 5, 1932	28.60	105,000
1933	Jan. 22, 1933	14.02	32,500
1934	Mar. 5, 1934	17.30	46,400
	Mar. 28, 1934	11.86	25,000
1935	Mar. 12, 1935	14.54	34,500
	Mar. 24, 1935	12.70	27,800
	Aug. 8, 1935	12.45	26,700
1936	Jan. 3, 1936	12.03	25,300
	Mar. 17, 1936	17.98	49,500
	Mar. 25, 1936	16.47	42,800
	Apr. 6, 1936	13.89	32,100
1937	Dec. 7, 1936	12.56	27,600
1938	Oct. 27, 1937	21.37	65,300
1939	Jan. 30, 1939	14.20	33,400
	Feb. 3, 1939	20.22	59,500
	Feb. 11, 1939	12.55	27,600
	Mar. 6, 1939	12.24	26,200
	Apr. 16, 1939	16.25	41,400
	July 30, 1939	13.10	29,400
1940	May 25, 1940	14.58	34,900
	June 27, 1940	26.35	92,300
1941	Apr. 5, 1941	10.02	18,800
1942	Mar. 9, 1942	13.90	32,200
1943	Dec. 30, 1942	15.08	36,800
	Mar. 13, 1943	15.82	39,700
1944	Feb. 23, 1944	13.37	30,300
	Apr. 12, 1944	14.39	34,100
1945	Dec. 26, 1944	15.46	37,600
	Jan. 1, 1945	15.79	38,800
	Mar. 3, 1945	14.00	31,600
1946	Jan. 7, 1946	21.00	63,200
1947	Mar. 25, 1947	14.05	31,600

a About.

Peak stages and discharges of Gauley River above Belva, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 14, 1948	20.62	60,300	1955	Dec. 30, 1954	14.60	31,300
	Feb. 27, 1948	13.67	30,400		Feb. 7, 1955	15.42	33,900
	Apr. 14, 1948	13.05	27,700		Feb. 27, 1955	13.00	26,200
1949	Dec. 16, 1948	15.5	37,600		Mar. 5, 1955	22.99	60,400
	July 13, 1949	13.0	27,700	1956	July 27, 1956	12.98	26,200
1950	Jan. 31, 1950	17.80	47,500	1957	Jan. 10, 1957	16.06	36,200
1951	Dec. 4, 1950	19.0	52,800		Jan. 29, 1957	20.02	49,300
	Dec. 8, 1950	14.95	35,600		Feb. 10, 1957	13.20	26,800
	Feb. 2, 1951	12.5	26,000	1958	Dec. 8, 1957	13.37	27,500
1952	Jan. 28, 1952	13.07	28,000		July 24, 1958	16.85	38,500
					Aug. 4, 1958	13.33	27,200
1953	Feb. 21, 1953	15.45	37,200	1959	Jan. 22, 1959	13.82	28,800
	June 17, 1953	13.72	30,400				
				1960	Dec. 13, 1959	13.38	27,500
1954	Mar. 1, 1954	12.92	25,900		Mar. 31, 1960	16.43	37,200
	July 15, 1954	13.20	26,800		Apr. 4, 1960	14.55	31,300
	July 19, 1954	24.80	67,500				
	July 21, 1954	17.50	40,800	1961	Feb. 25, 1961	15.27	33,600
1955	Oct. 16, 1954	15.00	32,600				

1925. Gauley River at Belva, W. Va.
(Published as "near Belva" 1911-13, 1915)

Location.--Lat 38°13'30", long 81°11'30", about a quarter of a mile below Chesapeake and Ohio Railway bridge at Belva, Nicholas County and one-eighth of a mile downstream from Twentymile Creek.

Drainage area.--1,402 sq mi.

Gage.--Nonrecording. Datum of gage is 663.53 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs and extended on basis of rating for station above Belva.

Remarks.--Base for partial-duration series, 15,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Jan. 16, 1909	9.3	14,000	1915	Jan. 7, 1915	-	30,000
					Jan. 18, 1915	-	20,000
1910	Jan. 7, 1910	11.0	19,000		Feb. 3, 1915	-	23,000
	Jan. 19, 1910	9.7	15,200				
	June 17, 1910	15.0	32,000	1916	Oct. 1, 1915	15.05	32,000
					Dec. 18, 1915	13.8	27,400
1911	Dec. 30, 1910	12.0	22,000		Dec. 30, 1915	13.0	25,000
	Jan. 3, 1911	11.2	19,600		Jan. 12, 1916	11.3	19,900
	Jan. 14, 1911	10.35	17,200		Mar. 8, 1916	12.40	23,200
	Jan. 30, 1911	19.0	50,000				
	Mar. 7, 1911	10.2	16,600	1918	Mar. 13, 1918	34	112,000
	Apr. 5, 1911	10.0	16,000				
				1926	Oct. 26, 1925	20.0	40,000
1912	Oct. 18, 1911	11.1	19,300		Jan. 21, 1926	19.0	36,000
	Feb. 27, 1912	13.0	25,000				
	Mar. 16, 1912	15.3	33,200	1927	Nov. 16, 1926	20.35	41,400
	May 12, 1912	11.8	21,400		Dec. 22, 1926	18.35	33,600
	May 16, 1912	12.6	23,800		Feb. 24, 1927	18.0	32,000
1913	Dec. 31, 1912	9.70	15,200	1928	May 1, 1928	18.0	32,000
	Jan. 8, 1913	15.5	34,000		June 30, 1928	15.5	23,000
	Mar. 27, 1913	16.0	36,000				
	Apr. 15, 1913	12.2	22,600	1929	Dec. 1, 1928	20.0	40,000
	May 28, 1913	11.0	19,000		Mar. 6, 1929	15.6	23,300
					May 21, 1929	14.7	20,600
1914	Oct. 26, 1913	11.7	21,100				
	Nov. 16, 1913	14.7	30,800	1930	Oct. 2, 1929	25.0	62,000
	Jan. 21, 1914	10.85	18,400		Nov. 18, 1929	19.8	39,200
	Feb. 20, 1914	13.0	25,000				

1930. Kanawha River at Kanawha Falls, W. Va.

Location.--Lat 38°08'20", long 81°12'45", on right bank 150 ft downstream from toll bridge, three-quarters of a mile downstream from village of Kanawha Falls, Fayette County, 2 miles downstream from Gauley Bridge, and 2 miles downstream from confluence of New River and Gauley River.

Drainage area.--8,367 sq mi.

Gage.--Nonrecording prior to Oct. 27, 1928; recording thereafter. At several sites within 9 miles of present site at various datums prior to Oct. 27, 1928. Datum of gage is 623.20 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 150,000 cfs.

Remarks.--Only annual peaks are shown. Gage-height record furnished by Corps of Engineers and U.S. Weather Bureau prior to Oct. 27, 1928. Regulated by Claytor Reservoir since 1939 and since 1949 by Claytor Reservoir and Bluestone Dam.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1877a/	Apr. 10, 1877	12.9	b64,000	1921	Feb. 12, 1921	13.0	63,800
1878	Sept.14, 1878	37.8	320,000	1922	Feb. 21, 1922	14.6	79,500
1879	Jan. 13, 1879	21.2	140,000	1923	Feb. 3, 1923	17.2	102,000
1880	Feb. 14, 1880	17.5	105,000	1924	May 13, 1924	19.4	b122,000
				1925	Oct. 1, 1924	16.6	b98,000
1881	Feb. 11, 1881	17.1	b101,000				
1882	Jan. 22, 1882	18.3	111,000	1926	Jan. 22, 1926	15.8	b90,000
1883	Apr. 1, 1883	18.2	110,000	1927	Nov. 16, 1926	19.7	b125,000
1884	Feb. 10, 1884	19.5	123,000	1928	May 1, 1928	c13.4	82,900
1885	Jan. 17, 1885	13.0	66,900	1929	Mar. 1, 1929	16.04	110,000
				1930	Oct. 3, 1929	21.35	160,000
1886	Apr. 1, 1886	30.0	b229,000				
1887	Jan. 25, 1887	17.1	b101,000	1931	Apr. 4,5,1931	10.33	55,600
1888	Sept.17, 1888	16.5	95,700	1932	July 5, 1932	16.30	109,000
1889	June 1, 1889	24.8	175,000	1933	Mar. 20, 1933	12.97	79,500
1890	Feb. 26, 1890	20.0	128,000	1934	Mar. 5, 1934	21.43	160,000
				1935	Jan. 23, 1935	c21.3	159,000
1891	Apr. 12, 1891	19.2	120,000				
1892	Jan. 15, 1892	22.0	148,000	1936	Mar. 18, 1936	20.52	150,000
1893	May 4, 1893	20.95	138,000	1937	Jan. 21, 1937	17.23	118,000
1894	Oct. 15, 1893	14.3	75,900	1938	Oct. 28, 1937	21.00	155,000
1895	Apr. 9, 1895	24.00	167,000	1939	Feb. 4, 1939	15.68	104,000
				1940	Aug. 15, 1940	29.60	248,000
1896	Mar. 31, 1896	19.6	124,000				
1897	Feb. 23, 1897	28.5	214,000	1941	Apr. 6, 1941	10.04	53,000
1898	Aug. 10, 1898	20.75	136,000	1942	May 23, 1942	15.04	97,500
1899	Mar. 5, 1899	30.6	236,000	1943	Dec. 31, 1942	17.43	120,000
1900	Mar. 21, 1900	15.90	87,200	1944	Feb. 19, 1944	12.23	72,300
					Apr. 12, 1944	12.18	72,300
1901	May 23, 1901	34.5	281,000	1945	Sept.19, 1945	15.59	103,000
1902	Dec. 30, 1901	30.2	233,000				
1903	Mar. 24, 1903	26.0	188,000	1946	Jan. 8, 1946	21.32	159,000
1904	Mar. 9, 1904	10.1	b43,800	1947	Jan. 21, 1947	13.62	84,900
1905	July 13, 1905	20.1	128,000	1948	Feb. 14, 1948	20.08	146,000
				1949	Dec. 16, 1948	15.43	101,000
1906	Jan. 24, 1906	23.1	159,000	1950	Feb. 2, 1950	17.13	117,000
1907	June 14, 1907	23.7	165,000				
1908	Feb. 16, 1908	23.1	159,000	1951	Dec. 4, 1950	13.94	87,600
1909	Apr. 15, 1909	13.3	67,800	1952	Jan. 28, 1952	12.70	76,800
1910	June 17, 1910	17.8	106,000	1953	Feb. 21, 1953	13.30	82,200
				1954	Mar. 2, 1954	13.70	85,800
1911	Jan. 30, 1911	17.0	100,000	1955	Mar. 6, 1955	18.46	131,000
1912	Mar. 16, 1912	19.7	125,000				
1913	Mar. 28, 1913	27.5	203,000	1956	Apr. 17, 1956	12.16	72,300
1914	Feb. 21, 1914	12.1	b58,600	1957	Jan. 30, 1957	18.63	132,000
1915	Jan. 8, 1915	21.5	142,000	1958	Apr. 1, 1958	13.35	83,100
				1959	Jan. 23, 1959	10.60	57,900
1916	July 17, 1916	31.7	248,000		Apr. 14, 1959	10.58	57,900
1917	Mar. 5, 1917	22.0	148,000	1960	Mar. 31, 1960	18.30	129,000
1918	Mar. 13, 1918	25.4	182,000				
1919	Jan. 2, 1919	24.2	169,000	1961	Feb. 26, 1961	14.40	92,100
1920	Jan. 23, 1920	16.5	b95,700				

a Partial year.
b Daily mean.
c Approximate.

1940. Elk River at Webster Springs, W. Va.

Location.--Lat 38°28'30", long 80°24'50", a quarter of a mile above Back Fork at Webster Springs, Webster County.

Drainage area.--168 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	6.5	6,240	1913	Mar. 27, 1913	6.3	5,780
					Apr. 15, 1913	5.50	3,980
1910	Jan. 2, 1910	5.7	4,410		May 28, 1913	5.80	4,630
	Jan. 7, 1910	5.50	3,980		May 31, 1913	6.00	5,090
	June 17, 1910	8.1	9,100		July 10, 1913	8.00	9,850
1911	Dec. 30, 1910	6.0	5,090	1914	Nov. 16, 1913	7.1	7,640
	Jan. 2, 1911	5.50	3,980		Jan. 21, 1914	5.50	3,980
	Jan. 13, 1911	6.1	5,320		Feb. 19, 1914	6.20	5,550
	Jan. 26, 1911	5.9	4,860		Apr. 2, 1914	5.6	4,190
	Jan. 29, 1911	11.00	17,300		Apr. 26, 1914	5.50	3,980
	Apr. 5, 1911	5.30	3,560				
				1915	Jan. 7, 1915	7.50	8,600
1912	Oct. 18, 1911	5.90	4,860		Jan. 8, 1915	6.3	5,780
	Feb. 27, 1912	6.2	5,550		Feb. 2, 1915	6.7	6,700
	Mar. 15, 1912	7.3	8,120		June 14, 1915	5.50	3,980
	May 12, 1912	5.80	4,630				
	May 16, 1912	5.90	4,860	1916	Dec. 18, 1915	6.97	7,400
					Dec. 29, 1915	6.20	5,550
1913	Nov. 7, 1912	5.60	4,190		Jan. 11, 1916	6.0	5,090
	Jan. 8, 1913	6.00	5,090		Mar. 7, 1916	6.0	5,090
	Mar. 14, 1913	5.50	3,980		Sept.15, 1916	6.00	5,090

1945. Elk River below Back Fork, at Webster Springs, W. Va.

Location.--Lat 38°28'50", long 80°25'15", at West Virginia Midland Railway bridge, a quarter of a mile below Back Fork and half a mile west of Webster Springs, Webster County.

Drainage area.--242 sq mi.

Gage.--Nonrecording. Altitude of gage is about 1,450 ft.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended above on basis of velocity-area study.

Historical data.--Observer stated that flood of July 4, 1932, was the highest since 1896.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	a9.0	12,800	1932	May 1, 1932	5.23	4,710
	Nov. 18, 1929	8.0	10,400		June 28, 1932	5.17	4,710
					July 4, 1932	12.98	26,000
1931	Apr. 4, 1931	6.47	6,890				
	Aug. 23, 1931	5.4	4,600	1933	Jan. 21, 1933	6.05	6,500
					Mar. 15, 1933	5.50	5,350
1932	Jan. 30, 1932	6.6	7,110		May 16, 1933	5.30	4,920
	Feb. 4, 1932	11.45	18,800		Aug. 11, 1933	5.22	4,710
	Mar. 17, 1932	7.8	11,100				
	Mar. 28, 1932	7.6	10,600	1934	Mar. 3, 1934	7.3	9,780

a Estimated.

1950. Elk River at Centralia, W. Va.

Location.--Lat 38°37'00", long 80°33'20" on left bank at Centralia, Braxton County, 200 ft upstream from Houston Run and 0.6 mile upstream from Laurel Creek. Records include flow of Houston Run.

Drainage area.--281 sq mi (including that of Houston Run).

Gage.--Recording. Datum of gage is 931.89 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs.

Remarks.--Base for partial-duration series, 8,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Mar. 12, 1935	10.15	9,030	1949	Dec. 15, 1948	10.2	8,700
	Aug. 7, 1935	11.70	12,400		July 13, 1949	12.8	14,100
1936	Mar. 17, 1936	13.04	15,400	1950	Jan. 31, 1950	10.90	10,100
	Mar. 24, 1936	12.12	13,400		Sept. 2, 1950	10.58	9,500
1937	Apr. 26, 1937	10.25	8,700	1951	Dec. 4, 1950	12.42	13,200
					June 10, 1951	10.10	8,500
1938	Oct. 28, 1937	13.45	15,400				
				1952	Jan. 27, 1952	10.67	9,700
1939	Jan. 31, 1939	11.70	11,700				
	Feb. 3, 1939	14.72	18,300	1953	Feb. 21, 1953	9.66	7,730
	Apr. 16, 1939	10.88	10,100				
	July 21, 1939	11.16	10,700	1954	July 15, 1954	11.35	11,100
1940	May 25, 1940	11.05	10,300	1955	Oct. 16, 1954	11.90	12,100
					Dec. 30, 1954	11.45	11,100
1941	Apr. 6, 1941	9.13	6,590		Feb. 7, 1955	10.91	10,100
					Feb. 27, 1955	10.91	10,100
1942	May 16, 1942	10.15	8,700		Mar. 5, 1955	13.39	15,400
1943	Mar. 13, 1943	10.46	9,300	1956	June 1, 1956	10.73	9,700
					Aug. 6, 1956	11.42	11,100
1944	Feb. 23, 1944	10.52	9,300				
				1957	Jan. 10, 1957	10.32	8,900
1945	Dec. 26, 1944	10.64	9,500		Jan. 30, 1957	13.07	14,700
	Jan. 1, 1945	10.34	8,900				
	Feb. 28, 1945	11.65	11,500	1958	July 24, 1958	10.99	10,300
	Mar. 3, 1945	10.39	9,100		Aug. 8, 1958	12.44	13,200
1946	Jan. 7, 1946	10.39	9,100	1959	Jan. 22, 1959	-	a9,900
1947	Mar. 25, 1947	10.60	9,500	1960	Mar. 31, 1960	12.00	12,300
					Apr. 4, 1960	12.20	12,700
1948	Feb. 14, 1948	12.34	11,700				
	Feb. 26, 1948	10.38	9,100	1961	May 6, 1961	-	a10,000
	July 23, 1948	12.35	13,100		May 9, 1961	b18.66	-

a About.
b Backwater from Sutton Reservoir.

1955. Elk River at Sutton, W. Va.

Location.--Lat 38°39'45", long 80°42'35", on left bank 150 ft upstream from highway bridge on U.S. Highway 19, at Sutton, Braxton County, 0.5 mile upstream from Granny Creek, and 0.9 mile downstream from Sutton Dam.

Drainage area.--543 sq mi.

Gage.--Nonrecording prior to Apr. 5, 1940; recording thereafter. At site 150 ft downstream at datum 8.03 ft higher prior to Oct. 1, 1960. Datum of gage is 800.00 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Remarks.--Base for partial-duration series, 11,000 cfs.

Peak stages and discharges of Elk River at Sutton, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 13, 1918	a37.2	49,000	1951	Dec. 4, 1950	25.1	24,900
					Dec. 8, 1950	16.7	12,600
1939b/	Apr. 16, 1939	27.8	27,700		Feb. 1, 1951	17.7	13,800
					June 10, 1951	16.1	11,900
1940	Feb. 11, 1940	15.5	11,200				
	May 25, 1940	17.93	14,100	1952	Jan. 27, 1952	18.95	15,500
	June 18, 1940	18.95	15,400				
				1953	Feb. 21, 1953	15.35	11,100
1941	Apr. 6, 1941	14.98	10,700				
				1954	Jan. 16, 1954	15.75	11,600
1942	Mar. 9, 1942	15.65	11,400		July 15, 1954	19.15	15,800
	Aug. 24, 1942	21.17	19,400		July 21, 1954	22.35	20,400
1943	Mar. 14, 1943	17.86	14,100	1955	Oct. 16, 1954	29.42	32,300
					Dec. 30, 1954	19.23	15,800
1944	Feb. 23, 1944	25.43	24,100		Feb. 7, 1955	20.40	17,500
	Apr. 12, 1944	17.76	13,900		Feb. 27, 1955	17.25	13,200
					Mar. 1, 1955	15.28	11,000
1945	Dec. 26, 1944	23.63	21,500		Mar. 5, 1955	24.98	24,700
	Dec. 28, 1944	15.53	11,200				
	Jan. 1, 1945	19.85	16,400	1956	Jan. 30, 1956	16.06	11,400
	Feb. 28, 1945	23.36	21,300		Mar. 14, 1956	16.13	11,400
	Mar. 3, 1945	17.79	14,000		June 1, 1956	21.98	18,800
					Aug. 6, 1956	17.68	13,300
1946	Jan. 8, 1946	20.15	16,900	1957	Jan. 11, 1957	18.96	14,800
					Jan. 29, 1957	31.27	34,200
1947	Mar. 25, 1947	18.43	14,700		Feb. 10, 1957	18.23	14,000
					June 30, 1957	19.85	15,900
1948	Feb. 14, 1948	25.18	25,000				
	Feb. 26, 1948	21.68	18,900	1958	July 23, 1958	19.27	15,300
	Mar. 24, 1948	15.67	11,500		Aug. 8, 1958	25.10	23,700
	Apr. 13, 1948	17.56	13,700				
	July 23, 1948	20.87	17,800	1959	Jan. 22, 1959	19.70	15,700
1949	Dec. 16, 1948	18.09	13,100	1960	Mar. 31, 1960	16.04	12,200
	July 13, 1949	26.20	26,700				
1950	Jan. 31, 1950	22.85	21,100	1961	Feb. 26, 1961	21.67	c8,590

a Maximum stage known. b Partial year. c Partly regulated by Sutton Reservoir.

1960. Elk River at Gassaway, W. Va.

Location.--Lat 38°40'30", long 80°46'20", near left end on downstream side of highway bridge 300 ft above Little Otter Creek, at Gassaway, Braxton County.

Drainage area.--578 sq mi (includes that of Little Otter Creek).

Gage.--Nonrecording. At site 300 ft upstream prior to June 17, 1913. Datum of gage is 796.31 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above on basis of velocity-area studies.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Apr. 14, 1909	15.0	11,200	1914	Jan. 21, 1914	13.0	9,140
1910	Jan. 7, 1910	13.2	9,340		Feb. 20, 1914	18.7	15,200
	Jan. 19, 1910	13.0	9,140		Apr. 20, 1914	13.7	9,840
	June 17, 1910	21.0	17,800		Apr. 26, 1914	17.6	14,000
1911	Jan. 27, 1911	13.6	9,740	1915	Dec. 21, 1914	16.7	13,000
	Jan. 30, 1911	30.4	28,700		Jan. 7, 1915	16.34	12,600
					Jan. 12, 1915	13.45	9,540
1912	Oct. 18, 1911	14.0	10,100		Jan. 19, 1915	16.94	13,200
	Feb. 27, 1912	16.6	12,900		Feb. 3, 1915	17.5	13,900
	Mar. 16, 1912	17.6	14,000				
	May 17, 1912	13.2	9,340	1916	Dec. 18, 1915	17.48	13,900
	July 25, 1912	17.5	13,900		Dec. 29, 1915	14.64	10,800
					Jan. 12, 1916	15.84	12,000
1913	Dec. 31, 1912	13.3	9,440		Mar. 8, 1916	17.2	13,600
	Jan. 8, 1913	18.0	14,400				
	Mar. 27, 1913	16.5	12,800	1918	Mar. 13, 1918	b44	-
	May 28, 1913	-	a9,500		May 25, 1918	c24.8	-
	July 10, 1913	17.6	14,000				
				1919	July 16, 1919	c23.9	-
1914	Oct. 26, 1913	14.1	10,200				
	Nov. 16, 1913	21.5	18,400	1920	Jan. 23, 1920	c17.8	-

a Estimated. b Maximum known. c From reports of U.S. Weather Bureau.

1968. Elk River at Clay, W. Va.

Location.--Lat 38°27'36", long 81°05'15", on right bank at downstream side of pier of highway bridge at Clay, Clay County, 0.9 mile downstream from Buffalo Creek, 2.1 miles downstream from Lower Two Run Creek and 53.2 miles upstream from mouth.

Drainage area.--994 sq mi.

Gage.--Nonrecording prior to Mar. 27, 1959; recording thereafter. Datum of gage is 677.46 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Gage heights prior to Mar. 27, 1959, furnished by U.S Weather Bureau are mostly maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916a/	Jan. 12, 1916	13.0	-	1940	Apr. 20, 1940	12.8	-
1917	Mar. 12, 1917	20.3	-				
1918	Mar. 14, 1918	32.4	-	1941	Apr. 7, 1941	12.0	-
1919	Jan. 2, 1919	22.7	-	1942	Aug. 24, 1942	11.5	-
1920	Jan. 23, 1920	17.2	-	1943	Dec. 30, 1942	16.3	-
				1944	Feb. 23, 1944	16.4	-
1921	Mar. 4, 1921	9.6	-	1945	Dec. 26, 1944	17.8	-
1922	June 12, 1922	16.7	-				
1923	Feb. 2, 1923	19.6	-	1946	Jan. 8, 1946	14.5	-
1924	May 12, 1924	23.6	-	1947	Mar. 7, 1947	13.1	-
1925	Mar. 19, 1925	12.7	-	1948a/	Feb. 27, 1948	16.7	-
				1949	July 14, 1949	15.2	-
1926	Jan. 22, 1926	15.6	-	1950	Feb. 1, 1950	19.2	-
1927	Dec. 22, 1926	17.9	-				
1928	May 1, 1928	15.0	-	1951	Feb. 1, 1951	20.1	-
1929	Dec. 1, 1928	17.2	-	1952	Jan. 28, 1952	17.1	-
1930	Oct. 3, 1929	23.0	-	1953a/	June 17, 1953	13.0	-
				1954	July 21, 1954	19.7	-
1931	Aug. 22, 1931	14.2	-	1955	Mar. 6, 1955	18.4	-
1932	Feb. 5, 1932	26.6	-				
1933	Jan. 22, 1933	15.0	-	1956	June 2, 1956	15.7	-
1934	Mar. 4, 1934	16.0	-	1957	Jan. 30, 1957	22.6	-
1935	Aug. 8, 1935	17.1	-	1958	Aug. 9, 1958	20.0	-
				1959	Jan. 22, 1959	13.60	19,100
1936	Mar. 25, 1936	23.1	-	1960	Mar. 31, 1960	14.84	21,900
1937	Jan. 25, 1937	12.8	-				
1938	Oct. 28, 1937	24.6	-	1961	May 6, 1961	13.04	16,800
1939	Feb. 4, 1939	25.4	-				

a Partial year.

1970. Elk River at Queen Shoals, W. Va.

Location.--Lat 38°28'20", long 81°17'10", on right bank 50 ft upstream from Queen Shoals Creek, 100 ft downstream from highway bridge at Queen Shoals, Kanawha County, and 4 miles upstream from Big Sandy Creek. Records include flow of Queen Shoals Creek.

Drainage area.--1,145 sq mi (including that of Queen Shoals Creek).

Gage.--Nonrecording prior to June 19, 1932; recording thereafter. Datum of gage is 604.09 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

State-discharge relation.--Defined by current-meter measurements below 40,000 cfs.

Remarks.--Base for partial-duration series, 18,000 cfs.

Peak stages and discharges of Elk River at Queen Shoals, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 13, 1918	37.2	-
1929	Dec. 1, 1928	17.66	30,800
	Mar. 6, 1929	14.0	21,000
1930	Oct. 3, 1929	22.34	39,700
	Nov. 19, 1929	16.6	28,800
1931	Aug. 22, 1931	14.86	23,900
1932	Jan. 30, 1932	15.0	24,200
	Feb. 5, 1932	26.0	56,200
	Mar. 16, 1932	16.14	27,700
	Mar. 29, 1932	16.0	27,500
	July 5, 1932	29.2	72,000
1933	Jan. 22, 1933	16.62	29,800
	Mar. 15, 1933	13.72	20,000
	Mar. 19, 1933	14.24	21,600
	May 17, 1933	13.63	19,700
	Aug. 11, 1933	13.07	18,200
1934	Mar. 4, 1934	15.43	25,600
1935	Mar. 12, 1935	17.88	31,100
	Aug. 8, 1935	16.04	27,500
1936	Jan. 3, 1936	15.35	25,500
	Feb. 15, 1936	14.08	21,300
	Mar. 18, 1936	17.24	30,000
	Mar. 25, 1936	21.25	36,300
	Apr. 6, 1936	15.13	24,500
1937	Aug. 25, 1937	12.67	17,000
1938	Oct. 29, 1937	23.90	44,000
	Dec. 18, 1937	14.11	21,300
1939	Jan. 31, 1939	14.57	22,900
	Feb. 3, 1939	26.59	59,100
	Apr. 16, 1939	24.82	50,600
1940	Apr. 20, 1940	13.81	20,400
	June 27, 1940	14.92	23,600
1941	Apr. 7, 1941	12.32	15,000
1942	Aug. 24, 1942	13.76	19,700
1943	Dec. 30, 1942	18.20	30,300
	Mar. 14, 1943	13.82	19,700
	Mar. 20, 1943	13.91	20,100
1944	Feb. 23, 1944	16.2	26,700
1944	Apr. 13, 1944	14.27	20,400
1945	Dec. 26, 1944	17.98	27,600
	Jan. 1, 1945	19.47	30,600
	Feb. 28, 1945	18.04	27,600
	Mar. 4, 1945	14.56	20,800
1946	Jan. 8, 1946	14.71	21,000
1947	Mar. 26, 1947	13.19	17,300
1948	Feb. 15, 1948	17.39	25,900
	Feb. 27, 1948	14.76	21,100
	Apr. 14, 1948	16.91	24,900
	July 24, 1948	14.00	19,300
1949	Dec. 17, 1948	15.51	22,500
	Jan. 28, 1949	13.81	18,800
	July 14, 1949	15.34	22,100
1950	Feb. 1, 1950	21.0	34,700
	Mar. 13, 1950	13.65	18,300
1951	Dec. 4, 1950	20.53	33,000
	Feb. 1, 1951	21.90	38,800
1952	June 28, 1952	17.20	25,500
1953	June 17, 1953	14.25	19,700
1954	June 22, 1954	19.26	29,400
1955	Oct. 16, 1954	16.35	23,500
	Dec. 30, 1954	15.68	21,100
	Feb. 7, 1955	15.69	22,100
	Mar. 6, 1955	19.26	29,400
1956	Mar. 14, 1956	15.14	20,800
	June 2, 1956	15.98	22,700
1957	Dec. 14, 1956	15.04	19,700
	Jan. 30, 1957	23.03	44,200
	Feb. 11, 1957	14.32	18,300
1958	July 24, 1958	17.76	26,100
	Aug. 3, 1958	18.82	28,200
	Aug. 9, 1958	19.18	29,200
1959	Jan. 23, 1959	13.82	17,900
1960	Mar. 31, 1960	15.13	20,800
1961	July 20, 1961	13.24	a16,500

a Partly regulated by Sutton Reservoir.

1975. Elk River at Clendenin, W. Va.

Location.--Lat 38°29'25", long 81°20'55", on upstream side of highway bridge at Clendenin, Kanawha County, just above mouth of Big Sandy Creek.

Drainage area.--1,290 sq mi (including that of Big Sandy Creek).

Gage.--Nonrecording. Datum of gage is 588.7 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs.

Historical data.--Maximum stage known, about 32 ft in 1888 or 1889.

Remarks.--Base for partial-duration series, 14,000 cfs. Only yearly maximums previously published.

Peak stages and discharges of Elk River at Clendenin, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Feb. 16, 1909	12.70	14,700	1914	Nov. 16, 1913	22.8	37,600
	Apr. 22, 1909	14.09	17,700		Feb. 20, 1914	19.20	29,400
	May 1, 1909	14.80	19,200		Apr. 27, 1914	14.58	18,800
1910	May 12, 1910	12.76	14,900	1915	Dec. 21, 1914	12.88	15,100
	June 17, 1910	16.94	24,100		Jan. 8, 1915	13.2	15,700
					Jan. 13, 1915	13.14	15,500
1911	Jan. 14, 1911	12.60	14,500		Jan. 19, 1915	13.69	16,800
	Jan. 30, 1911	24.0	40,400		Feb. 3, 1915	20.8	33,000
	Mar. 8, 1911	12.49	14,300		June 3, 1915	14.02	17,400
1912	Jan. 19, 1912	12.60	14,500	1916	Oct. 1, 1915	17.16	24,800
	Feb. 27, 1912	15.26	20,400		Dec. 19, 1915	18.4	27,500
	Mar. 16, 1912	16.88	24,100		Dec. 30, 1915	14.65	18,800
	July 26, 1912	13.68	16,800		Jan. 12, 1916	18.1	26,800
	Aug. 29, 1912	13.26	15,900		Feb. 13, 1916	13.59	16,600
					Feb. 25, 1916	13.87	17,200
1913	Jan. 8, 1913	21.5	34,600		Mar. 8, 1916	16.4	22,900
	Mar. 27, 1913	22.0	35,800		Mar. 28, 1916	16.00	22,000
	May 24, 1913	12.78	14,900				
	May 28, 1913	13.49	16,400				

1980. Kanawha River at Charleston, W. Va.

Location.--Lat 38°22'10", long 81°42'05", at old lock 6, 1.0 mile upstream from Davis Creek, 1.5 miles downstream from Twomile Creek, and 3.5 miles downstream from Elk River.

Drainage area.--10,419 sq mi.

Gage.--Recording. Recording auxiliary gage 2.3 miles upstream from base gage. Prior to July 1, 1942, recording and nonrecording auxiliary gage at the Kanawha Boulevard Bridge over Elk River at its mouth. July 1, 1942, to Sept. 30, 1955, recording auxiliary gage 0.5 mile downstream from Elk River and 3.0 miles upstream from base gage. Prior to June 1939, nonrecording Weather Bureau gage on or at site of the South Side bridge 4.1 miles upstream from base gage at datum 10.65 ft higher. Datum of gage is 548.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 216,000 cfs.

Remarks.--Only annual peaks are shown. Peaks prior to 1939 are from U.S. Weather Bureau. Peak stage usually occurs at a different time than peak discharge. Peaks partly regulated since 1939 by Claytor Reservoir, since 1949 by Bluestone Reservoir, and since 1960 by Sutton Reservoir (combined usable capacity, 982,200 acre-ft).

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1861	Sept.29, 1861	46.9	-	1898	Aug. 11, 1898	31.2	-
				1899	Mar. 5, 1899	41.2	-
1865	-	38.0	-				
				1901	May 23, 1901	38.5	-
1870	Apr. 23, 1870	31.4	-	1902	Dec. 30, 1901	38.6	-
				1903	Mar. 24, 1903	33.0	-
1874	Apr. 11, 1874	31.6	-				
1875	Feb. 26, 1875	36.1	-	1905	Mar. 10, 1905	28.5	-
1877	Jan. 17, 1877	35.7	-	1906	Jan. 24, 1906	28.55	-
1878	Sept.14, 1878	41.6	-	1907	June 14, 1907	33.0	-
1879	Jan. 14, 1879	36.7	-	1908	Apr. 2, 1908	31.0	-
				1909	May 2, 1909	a15.8	-
1886	Apr. 1, 1886	39.3	-	1910	June 18, 1910	23.0	-
1889	June 1, 1889	30.9	-	1911	Jan. 31, 1911	26.3	-
1890	Mar. 23, 1890	30.9	-	1912	Mar. 17, 1912	a24.6	-
				1913	Mar. 28, 1913	34.8	-
1893	Feb. 18, 1893	30.1	-	1914	Feb. 20, 1914	19.5	-
				1915	Feb. 3, 1915	29.9	-
1897	Feb. 23, 1897	41.4	-				

a Maximum observed.

Peak stages and discharges of Kanawha River at Charleston, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 17, 1916	29.2	-	1940	Aug. 15, 1940	38.25	216,000
1917	Mar. 5, 1917	29.7	-				
1918	Mar. 14, 1918	36.1	-	1941	Apr. 6, 1941	23.83	71,000
1919	Jan. 2, 1919	35.6	-	1942	May 23, 1942	27.67	116,000
1920	Dec. 7, 1919	26.6	-	1943	Dec. 31, 1942	38.77	150,000
				1944	Apr. 13, 1944	28.27	96,000
1921	Feb. 12, 1921	a14.9	-	1945	Jan. 1, 1945	29.70	104,000
1922	Dec. 25, 1921	25.0	-				
1923	Feb. 4, 1923	22.8	-	1946	Jan. 8, 1946	38.42	170,000
1924	May 13, 1924	30.1	-	1947	Jan. 22, 1947	26.41	88,100
1925	Oct. 1, 1924	a21.4	-	1948	Feb. 14, 1948	37.08	157,000
				1949	Dec. 16, 1948	30.97	115,000
1926	Jan. 23, 1926	a22.0	-	1950	Feb. 2, 1950	37.82	148,000
1927	Dec. 22, 1926	28.3	-				
1928	May 1, 1928	a22.5	-	1951	Dec. 4, 1950	31.59	118,000
1929	Mar. 7, 1929	24.5	-	1952	Jan. 28, 1952	30.08	106,000
1930	Oct. 3, 1929	30.6	-	1953	Feb. 22, 1953	27.46	89,100
				1954	Mar. 2, 1954	27.44	93,000
1931	Apr. 6, 1931	15.5	-	1955	Mar. 6, 1955	39.72	159,000
1932	Feb. 5, 1932	28.8	-				
1933	Mar. 21, 1933	24.0	-	1956	Mar. 15, 1956	28.15	86,600
1934	Mar. 5, 1934	37.9	-	1957	Jan. 30, 1957	37.10	164,000
1935	Mar. 24, 1935	35.4	-	1958	May 7, 1958	30.01	104,000
				1959	Jan. 23, 1959	25.66	77,500
1936	Mar. 18, 1936	31.2	-	1960	Mar. 31, 1960	33.47	141,000
1937	Jan. 21, 1937	31.8	-				
1938	Oct. 29, 1937	33.8	-	1961	Feb. 27, 1961	29.95	107,000
1939	Feb. 4, 1939	32.0	-				

a Maximum observed.

1985. Big Coal River at Ashford, W. Va.
(Published as Coal River at Brushton 1909-16
and as Coal River at Ashford 1931-60)

Location.--Lat 38°10'45", long 81°42'40", on left bank at downstream side of highway bridge at Ashford, Boone County, 300 ft upstream from Lick Creek, 1 mile downstream from Brush Creek, and 1.8 miles upstream from Bull Creek.

Drainage area.--393 sq mi.

Gage.--Nonrecording prior to Feb. 10, 1939; recording thereafter. At site 1 mile upstream at different datum prior to Aug. 9, 1916. Datum of gage is 622.46 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	July 7, 1909	11.20	8,710	1931	Apr. 1, 1931	8.78	6,860
1910	July 4, 1910	10.20	7,660	1932	Jan. 30, 1932	15.0	14,300
					Feb. 4, 1932	12.20	10,900
1911	Jan. 30, 1911	13.0	10,600		Mar. 28, 1932	12.0	10,700
	Mar. 6, 1911	11.4	8,920		May 13, 1932	8.4	6,380
					June 28, 1932	10.60	9,020
1912	Feb. 26, 1912	9.2	6,610		July 6, 1932	16.96	15,200
	Mar. 13, 1912	9.6	7,030				
	Mar. 15, 1912	9.8	7,240	1933	Jan. 21, 1933	9.0	6,450
	Apr. 2, 1912	9.6	7,030		Mar. 15, 1933	10.0	7,550
					Mar. 19, 1933	10.80	8,430
1913	Jan. 8, 1913	10.3	7,760		Mar. 21, 1933	10.60	8,210
	Mar. 27, 1913	13.3	10,900				
				1934	Mar. 3, 1934	15.17	13,300
1914	Feb. 19, 1914	8.4	5,770				
				1935	Mar. 12, 1935	16.26	14,500
1915	Jan. 12, 1915	9.8	7,240		Mar. 25, 1935	11.00	8,660
	Feb. 3, 1915	8.67	6,080		Mar. 31, 1935	11.75	9,530
1916	Dec. 18, 1915	10.8	8,290	1936	Jan. 3, 1936	11.31	9,040
	Dec. 28, 1915	9.33	6,720		Feb. 15, 1936	9.1	6,560
	Aug. 9, 1916	35.66	35,800		Mar. 24, 1936	8.8	6,240
					Apr. 6, 1936	18.70	17,800
1931	Mar. 15, 1931	8.7	6,740				

Peak stages and discharges of Big Coal River at Ashford, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 21, 1937	8.9	6,340	1949	Dec. 16, 1948	9.98	6,080
	Jan. 25, 1937	10.80	8,470				
				1950	Jan. 31, 1950	17.14	13,300
1938	Oct. 28, 1937	17.8	16,700		June 19, 1950	11.93	7,900
	Feb. 12, 1938	10.1	7,660				
	July 3, 1938	12.78	10,900	1951	Dec. 1, 1950	10.79	6,800
					Dec. 4, 1950	11.11	7,100
1939	Feb. 3, 1939	25.70	24,800		Feb. 1, 1951	16.78	13,000
	Feb. 11, 1939	9.63	7,070		Mar. 18, 1951	12.35	8,600
	Mar. 6, 1939	11.22	8,820				
				1952	Dec. 21, 1951	10.25	6,020
1940	Apr. 20, 1940	7.60	4,940		Jan. 28, 1952	11.46	7,110
					Mar. 23, 1952	13.77	9,180
1941	Mar. 11, 1941	9.31	6,740		Apr. 28, 1952	11.72	7,290
1942	Mar. 9, 1942	10.86	8,490	1953	Feb. 21, 1953	8.81	4,900
	July 9, 1942	8.63	6,070				
	Aug. 6, 1942	9.77	7,280	1954	Jan. 16, 1954	8.13	4,340
1943	Dec. 2, 1942	10.50	8,050	1955	Dec. 30, 1954	10.47	6,260
	Dec. 30, 1942	21.17	19,800		Feb. 7, 1955	12.64	8,100
	Mar. 13, 1943	14.25	12,100		Mar. 1, 1955	13.52	8,910
	Mar. 20, 1943	13.25	11,000		Mar. 5, 1955	17.94	13,200
	Apr. 19, 1943	13.68	11,600				
				1956	Feb. 18, 1956	13.23	8,640
1944	Mar. 20, 1944	9.51	6,520		Mar. 8, 1956	11.08	6,750
	Apr. 12, 1944	14.40	11,800		Mar. 14, 1956	17.05	12,300
					Apr. 16, 1956	11.52	7,110
1945	Dec. 26, 1944	10.04	6,400				
	Jan. 1, 1945	10.21	6,600	1957	Jan. 30, 1957	20.88	18,300
	Feb. 18, 1945	10.93	7,300		Feb. 10, 1957	13.82	8,380
	Feb. 28, 1945	10.20	6,600				
	Mar. 3, 1945	10.93	7,300	1958	Jan. 25, 1958	11.96	6,600
	Aug. 2, 1945	11.50	7,600		Apr. 28, 1958	13.00	8,400
					May 6, 1958	11.28	6,890
1946	Jan. 8, 1946	17.34	14,200				
				1959	Jan. 22, 1959	10.96	6,630
1947	Mar. 15, 1947	8.13	4,370				
				1960	Mar. 29, 1960	9.67	5,490
1948	Feb. 14, 1948	17.20	13,400				
	Apr. 8, 1948	12.35	8,400	1961	Feb. 26, 1961	13.44	8,640
	Apr. 14, 1948	16.30	12,400		Jan. 15, 1961	12.28	7,760

1990. Little Coal River at Danville, W. Va.
(Published as "at Madison" prior to 1942)

Location.--Lat 38°04'45", long 81°50'15", on right bank at upstream side of highway bridge at Danville, Boone County, 900 ft upstream from Turtle Creek and 2.3 miles downstream from confluence of Pond and Spruce Forks.

Drainage area.--270 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1941; recording thereafter. At site 1.5 miles upstream at datum 6.80 ft higher prior to Oct. 1, 1941. Datum of gage is 661.12 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended on basis of slope-area measurement at 42,800 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 15, 1931	7.10	4,660	1933	Jan. 21, 1933	9.00	7,560
	Apr. 4, 1931	7.0	4,500		Feb. 20, 1933	7.28	4,500
					Mar. 15, 1933	9.60	8,640
1932	Jan. 30, 1932	13.20	16,300		Mar. 19, 1933	9.40	8,280
	Feb. 4, 1932	11.60	13,100		Apr. 12, 1933	7.44	4,680
	Mar. 28, 1932	9.80	9,480		May 16, 1933	7.86	5,580
	June 28, 1932	11.40	12,700				
	July 6, 1932	10.10	10,100	1934	Feb. 26, 1934	7.5	4,860

Peak stages and discharges of Little Coal River at Danville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 3, 1934	12.32	13,500
1935	Mar. 12, 1935	16.10	17,600
	Mar. 25, 1935	11.30	9,950
	Mar. 31, 1935	12.36	11,600
1936	Jan. 3, 1936	-	7,000
	Apr. 6, 1936	17.80	20,300
1937	Jan. 25, 1937	10.46	8,600
	Feb. 9, 1937	9.0	6,200
1938	Oct. 28, 1937	14.5	15,000
	Feb. 11, 1938	8.66	5,500
	June 19, 1938	9.42	6,550
	July 3, 1938	14.0	13,900
	Aug. 11, 1938	8.8	5,650
1939	Feb. 3, 1939	27.35	42,800
	Feb. 11, 1939	9.08	5,340
	Mar. 6, 1939	10.0	6,600
1940	Mar. 31, 1940	7.1	2,630
1941	Mar. 11, 1941	7.9	3,720
1942	Mar. 9, 1942	10.32	4,870
1943	Dec. 2, 1942	10.57	5,400
	Dec. 30, 1942	23.78	23,100
	Mar. 13, 1943	14.25	8,260
	Mar. 20, 1943	16.60	10,200
	Apr. 19, 1943	16.45	10,100
1944	Feb. 29, 1944	11.21	5,960
	Mar. 20, 1944	11.07	5,880
	Apr. 8, 1944	13.35	7,720
	Apr. 12, 1944	13.55	7,880
1945	Jan. 1, 1945	13.57	6,860
	Feb. 17, 1945	11.14	5,230
	Feb. 28, 1945	12.21	5,940
	Mar. 3, 1945	12.21	5,940
	Aug. 2, 1945	15.14	7,560
1946	Jan. 7, 1946	22.44	19,700
1947	Mar. 14, 1947	8.84	3,740
1948	Feb. 13, 1948	18.70	12,200
1948	Mar. 24, 1948	10.24	4,640
	Apr. 8, 1948	11.73	5,620
	Apr. 14, 1948	17.76	10,900
1949	Feb. 16, 1949	10.05	4,520
1950	Jan. 31, 1950	16.4	9,240
	June 19, 1950	14.5	7,480
	Sept.21, 1950	12.4	6,080
1951	Dec. 4, 1950	12.78	6,340
	Dec. 8, 1950	9.89	4,790
	Feb. 1, 1951	20.83	16,100
	Mar. 18, 1951	13.60	7,720
1952	Dec. 21, 1951	10.88	5,390
	Jan. 28, 1952	10.63	5,210
	Mar. 23, 1952	15.38	8,480
	Apr. 28, 1952	9.67	4,660
1953	Jan. 8, 1953	9.03	4,210
1954	July 22, 1954	9.31	4,060
1955	Dec. 30, 1954	10.41	4,780
	Feb. 7, 1955	12.07	5,880
	Feb. 28, 1955	14.90	7,810
	Mar. 5, 1955	21.44	17,400
1956	Feb. 18, 1956	14.63	7,980
	Mar. 8, 1956	12.31	6,140
	Mar. 14, 1956	20.05	12,500
	Apr. 15, 1956	12.39	6,220
1957	Jan. 10, 1957	10.24	4,570
	Jan. 29, 1957	22.25	14,500
	Feb. 2, 1957	11.25	5,270
	Feb. 10, 1957	15.00	8,300
1958	Jan. 25, 1958	13.28	6,780
	Apr. 28, 1958	18.23	10,900
	May 7, 1958	13.48	6,920
1959	Jan. 22, 1959	10.52	4,760
1960	Mar. 29, 1960	8.71	3,590
1961	Feb. 26, 1961	12.13	5,880
	May 7, 1961	11.18	5,250
	June 15, 1961	14.17	7,450

2000. Big Coal River at Fuqua, W. Va.
(Previously published as "Coal River")

Location.--Lat 38°18'15", long 81°49'00", at Fuqua, Kanawha County, 1 mile downstream from Fuqua Creek.

Drainage area.--849 sq mi.

Gage.--Nonrecording. Altitude of gage is 600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges of Big Coal River at Fuqua, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 27, 1912	14.40	11,800	1915	Jan. 12, 1915	16.19	14,600
	Mar. 13, 1912	16.8	15,600		Jan. 19, 1915	14.43	11,800
	Mar. 16, 1912	16.2	14,600		Feb. 3, 1915	17.4	16,500
	Apr. 3, 1912	15.70	13,800				
	May 7, 1912	16.4	14,900	1916	Dec. 18, 1915	18.55	18,500
					Dec. 30, 1915	15.45	13,300
1913	Jan. 8, 1913	18.6	18,500		Jan. 12, 1916	15.01	12,700
	Feb. 4, 1913	13.7	10,800		Feb. 1, 1916	13.50	10,400
	Mar. 27, 1913	21.50	23,100		Mar. 8, 1916	14.00	11,200
	Apr. 15, 1913	13.16	10,000		Aug. 9, 1916	36.6	47,300
					Aug. 17, 1916	19.37	19,700
1914	Feb. 20, 1914	17.3	16,400				
	Apr. 20, 1914	14.6	12,100				

2005. Big Coal River at Tornado, W. Va.
(Previously published as "Coal River")

Location.--Lat 38°20'15", long 81°50'30", at highway bridge at Tornado, Kanawha County, a quarter of a mile upstream from Falls Creek.

Drainage area.--857 sq mi.

Gage.--Nonrecording. Altitude of gage is 600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Mar. 10, 1909	8.4	9,460	1929	Dec. 1, 1928	10.0	16,000
	Apr. 22, 1909	8.30	9,300		Feb. 26, 1929	14.2	27,300
	May 1, 1909	9.15	10,800		Mar. 6, 1929	13.0	23,900
	July 7, 1909	15.40	20,900		Mar. 24, 1929	13.0	23,900
					May 3, 1929	8.00	11,000
1910	May 12, 1910	7.90	8,650				
	June 27, 1910	12.75	16,600	1930	Nov. 4, 1929	7.1	8,460
	July 5, 1910	10.25	12,400		Nov. 18, 1929	16.30	33,500
1911	Jan. 30, 1911	15.60	21,200	1931	Mar. 15, 1931	10.04	16,000
	Mar. 8, 1911	11.10	13,900		Apr. 1, 1931	8.87	13,100
	Apr. 5, 1911	10.70	13,200		Apr. 5, 1931	10.0	16,000

2010. Pocatalico River at Sissonville, W. Va.
(Published as "Pocataligo River" prior to 1915)

Location.--Lat 38°31'35", long 81°37'50", on left bank at downstream side of bridge on U.S. Highway 21 at Sissonville, Kanawha County, 0.3 mile downstream from Grapevine Creek and 1.8 miles downstream from Pocatalico Creek.

Drainage area.--238 sq mi.

Gage.--Nonrecording prior to Nov. 4, 1948; recording thereafter. At same site at datum 0.59 ft lower prior to May 20, 1930. Datum of gage is 594.56 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Remarks.--Base for partial-duration series, 3,200 cfs.

Peak stages and discharges of Pocatalico River at Sissonville, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Feb. 17, 1909	16.00	5,530
	Feb. 24, 1909	13.00	3,930
	Apr. 20, 1909	11.90	3,380
	May 1, 1909	21.00	8,530
1910	Jan. 6, 1910	12.00	3,430
	Jan. 14, 1910	14.5	4,680
	Jan. 18, 1910	15.70	5,350
	Feb. 16, 1910	12.50	3,680
	Feb. 22, 1910	12.0	3,430
	May 12, 1910	13.30	4,080
	June 6, 1910	14.0	4,430
	June 27, 1910	33.00	17,000
1911	Jan. 30, 1911	19.54	7,630
	Mar. 7, 1911	11.70	3,280
	Aug. 31, 1911	19.0	7,330
1912	Oct. 18, 1911	14.3	4,580
	Dec. 27, 1911	13.0	3,930
	Jan. 19, 1912	15.00	4,930
	Feb. 26, 1912	15.0	4,930
	Mar. 13, 1912	13.50	4,180
	Mar. 15, 1912	13.52	4,180
	Aug. 12, 1912	14.0	4,430
	Aug. 29, 1912	15.8	5,410
1913	Jan. 8, 1913	16.00	5,530
	Jan. 12, 1913	19.50	7,630
	Mar. 27, 1913	22.00	9,130
1914	Nov. 16, 1913	19.82	7,810
	Dec. 26, 1913	12.0	3,430
	Feb. 19, 1914	21.50	8,830
	Apr. 20, 1914	13.8	4,330
	Apr. 26, 1914	13.50	4,180
	May 6, 1914	14.0	4,430
1915	Dec. 21, 1914	16.00	5,530
	Jan. 12, 1915	12.0	3,430
	Feb. 1, 1915	14.1	4,480
	Feb. 3, 1915	15.00	4,930
1916	Oct. 1, 1915	24.0	10,400
	Nov. 15, 1915	19.50	7,630
	Dec. 18, 1915	21.00	8,530
	Dec. 29, 1915	16.00	5,530
	Jan. 12, 1916	17.50	6,430
	Feb. 13, 1916	19.0	7,330
	Mar. 22, 1916	13.10	3,980
	Mar. 28, 1916	21.0	8,530
1931	Apr. 1, 1931	17.69	5,060
1938	Oct. 28, 1937	17.8	4,750
	Dec. 18, 1937	15.2	3,540
	Feb. 12, 1938	15.8	3,810
	May 20, 1938	19.0	5,350
	Sept. 15, 1938	15.1	3,500
1939	Nov. 20, 1938	14.6	3,290
	Jan. 30, 1939	23.01	7,400
	Feb. 3, 1939	31.3	12,200
	Feb. 11, 1939	16.0	3,900
	Mar. 5, 1939	18.7	5,200
	Mar. 13, 1939	18.3	5,000
	Apr. 16, 1939	34.4	14,100
1940	Feb. 14, 1940	15.4	3,630
	Feb. 19, 1940	17.22	4,450
	Mar. 4, 1940	14.45	3,210
	Mar. 31, 1940	17.54	4,600
	Apr. 20, 1940	22.8	7,290
	June 27, 1940	28.2	10,300
1941	Mar. 11, 1941	16.82	4,260
1942	Mar. 7, 1942	15.3	3,580
	May 23, 1942	14.8	3,370
	Aug. 24, 1942	15.2	3,540
1943	Nov. 24, 1942	16.0	3,900
	Dec. 2, 1942	18.1	4,900
	Dec. 23, 1942	-	a3,500
	Dec. 30, 1942	27.84	10,100
	Mar. 7, 1943	15.0	3,450
	Mar. 14, 1943	16.0	3,900
	Mar. 20, 1943	27.34	9,780
	Apr. 19, 1943	25.9	9,000
1944	Jan. 4, 1944	15.5	3,680
	Feb. 23, 1944	19.7	5,700
	Mar. 18, 1944	17.7	4,700
	Mar. 20, 1944	17.5	4,600
	Apr. 12, 1944	20.4	6,050
1945	Dec. 26, 1944	22.4	7,070
	Dec. 28, 1944	18.0	4,750
	Jan. 1, 1945	22.8	7,290
	Feb. 27, 1945	22.7	7,240
	Mar. 3, 1945	21.22	6,410
	Mar. 7, 1945	18.6	5,050
	Mar. 22, 1945	14.7	3,230
	May 17, 1945	14.7	3,230
	Aug. 2, 1945	20.3	5,920
1946	Jan. 7, 1946	21.5	6,580
	Feb. 14, 1946	20.5	6,020
	Mar. 15, 1946	18.0	4,750
	Mar. 19, 1946	-	3,500
	June 2, 1946	17.6	4,550
1947	Jan. 3, 1947	14.05	3,050
1948	Feb. 14, 1948	23.24	6,820
	Apr. 13, 1948	27.66	9,520
1949	Nov. 29, 1948	16.40	3,320
	Dec. 16, 1948	23.97	7,300
	Jan. 25, 1949	17.28	3,700
	Feb. 16, 1949	16.47	3,360
1950	Dec. 13, 1949	18.7	4,370
	Jan. 5, 1950	17.2	3,650
	Feb. 1, 1950	27.4	9,340
	Mar. 13, 1950	16.2	3,240
	June 4, 1950	21.0	5,590
	Sept. 21, 1950	20.6	5,370
1951	Nov. 4, 1950	18.97	4,520
	Dec. 4, 1950	22.35	6,360
	Dec. 7, 1950	16.97	3,560
	Jan. 15, 1951	20.74	5,420
	Feb. 1, 1951	28.87	10,200
	Mar. 4, 1951	18.68	4,370
1952	Dec. 9, 1951	16.76	3,480
	Dec. 15, 1951	16.83	3,480
	Dec. 21, 1951	17.37	3,750
	Jan. 5, 1952	-	a3,500
	Jan. 28, 1952	-	a6,000
	May 23, 1952	20.05	5,040
	May 21, 1952	23.45	6,940
1953	Mar. 24, 1953	17.53	3,800
1954	Mar. 13, 1954	12.98	2,230
1955	Dec. 30, 1954	17.87	3,920
	Feb. 7, 1955	17.62	3,770
	Feb. 27, 1955	22.91	6,640
	Mar. 6, 1955	21.73	5,920
	Mar. 16, 1955	21.87	6,040
1956	Feb. 18, 1956	24.56	7,560
	Mar. 8, 1956	20.50	5,100
	Mar. 14, 1956	23.40	6,840
	Apr. 3, 1956	19.92	4,740
	May 28, 1956	18.30	3,780
	July 28, 1956	20.50	5,100

a About.

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Peak stages and discharges of Pocatalico River at Sissonville, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Dec. 14, 1956	28.88	10,100	1960	Jan. 15, 1960	17.98	3,560
	Jan. 29, 1957	20.28	4,980		Feb. 26, 1960	17.40	3,530
	Feb. 10, 1957	20.60	5,300				
				1961	Jan. 16, 1961	16.65	3,260
1958	Jan. 22, 1958	16.37	3,350		Feb. 26, 1961	16.48	3,350
	Jan. 25, 1958	21.25	5,340		Mar. 5, 1961	16.51	3,350
	Feb. 7, 1958	20.07	4,830		Apr. 1, 1961	16.90	3,470
	Apr. 28, 1958	18.27	4,070		May 6, 1961	17.18	3,560
	May 7, 1958	22.19	5,860		July 16, 1961	16.65	3,380
	July 24, 1958	20.97	5,240		July 20, 1961	19.59	4,280
	Aug. 4, 1958	19.14	4,390				
1959	Jan. 21, 1959	16.75	3,500				

OHIO RIVER MAIN STEM

2015. Ohio River at Point Pleasant, W. Va.

Location.--Lat 38°50'25", long 82°08'30", on left bank at Point Pleasant, Mason County, 1,200 ft upstream from Kanawha River and at mile 265.4.

Drainage area.--52,760 sq mi, approximately (includes that of Kanawha River).

Gage.--Base gage: Recording, at site 0.3 mile upstream prior to Oct. 1, 1951; datum, 514.10 ft above mean sea level, Sandy Hook datum. Auxiliary gage: Recording, at site 13.1 miles downstream from base gage at old lock 26; datum, 505.22 ft above mean sea level, Sandy Hook datum.

Stage-discharge relation.--Expressed as a fall rating and defined by adjusted current-meter measurements below 150,000 cfs.

Remarks.--Flow partly regulated by reservoirs upstream and by Gallipolis Dam. Peak gage height occurs at a different time than the peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940a/	Apr. 22, 1940	51.38	473,000	1951	Dec. 9, 1950	47.06	431,000
				1952	Jan. 29, 1952	48.62	436,000
1941	June 7, 1941	31.20	236,000	1953	Mar. 28, 1953	29.37	195,000
1942	Mar. 18, 1942	36.57	288,000	1954	Mar. 4, 1954	29.96	210,000
1943	Jan. 1, 1943	54.38	522,000	1955	Mar. 7, 1955	51.87	502,000
1944	Apr. 13, 1944	36.46	289,000				
1945	Mar. 9, 1945	52.78	448,000	1956	Mar. 10, 1956	40.95	353,000
				1957	Apr. 10, 1957	39.02	329,000
1946	Jan. 9, 1946	39.06	314,000	1958	May 9, 1958	46.61	405,000
1947	Jan. 22, 1947	30.90	234,000	1959	Jan. 24, 1959	43.88	412,000
1948	Apr. 16, 1948	55.00	487,000	1960	Apr. 2, 1960	40.21	365,000
1949	Jan. 29, 1949	41.90	365,000				
1950	Feb. 3, 1950	47.46	407,000	1961	Mar. 1, 1961	41.12	b330,000

a Partial year.
b Estimated.

2020. Raccoon Creek at Adamsville, Ohio

Location.--Lat 38°52'31", long 82°21'18", at highway bridge, 480 ft upstream from U.S. Highway 35 at Adamsville, Gallia County, and 1.3 miles downstream from Indian Creek.

Drainage area.--587 sq mi. Channel slope, main stream, 2.28 ft per mile; channel slope, tributary, 26.5 ft per mile; length of longest watercourse, 79.9 miles; mean elevation of land surface, 761 ft above mean sea level; average land slope, 830 ft per mile.

Gage.--Nonrecording prior to June 13, 1940; recording thereafter. Datum of gage is 570.85 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 9,200 cfs.

Bankfull stage.--18 ft.

Remarks.--Base for partial-duration series, 3,000 cfs. Only annual peaks are shown prior to 1941.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 20, 1915	18.3	7,380
1917	Mar. 14, 1917	17.9	6,930
1918	Mar. 15, 1918	18.5	7,620
1919	Jan. 2, 1919	16.2	5,320
1920	Apr. 21, 1920	21.1	11,100
1921	May 4, 1921	14.1	4,300
1922	Dec. 25, 1921	20.0	9,540
1923	Apr. 16, 1923	15.2	4,850
1924	Jan. 3, 1924	20.0	9,540
1925	May 13, 1925	12.9	3,700
1926	Aug. 20, 1926	17.8	6,820
1927	Jan. 23, 1927	19.8	9,280
1928	June 23, 1928	15.9	5,200
1929	May 3, 1929	15.0	4,750
1930	Mar. 10, 1930	14.6	4,550
1931	Apr. 6, 1931	17.5	6,510
1932	Jan. 30, 1932	14.9	4,700
1933	Mar. 21, 1933	18.5	7,620
1934	Mar. 29, 1934	13.0	3,750
1935	Sept. 8, 1935	16.7	5,760
1937	January 1937	a25.2	b16,000
1939	Apr. 18, 1939	22.8	13,700
1940	Apr. 22, 1940	21.4	11,500
1941	June 6, 1941	20.4	9,800
	June 15, 1941	14.0	3,940
	July 19, 1941	15.0	4,520
1942	Mar. 15, 1942	14.57	4,280
	Apr. 12, 1942	13.12	3,480
1943	Dec. 31, 1942	18.0	6,880
	Mar. 22, 1943	19.0	7,850
	Apr. 22, 1943	16.9	5,920
	May 14, 1943	16.6	5,680
	May 22, 1943	12.44	3,320
	May 25, 1943	12.66	3,460
1944	Mar. 9, 1944	14.74	4,430
	Mar. 24, 1944	13.1	3,570
	Apr. 12, 1944	12.8	3,430
1945	Jan. 1, 1945	c14.9	4,520
	Feb. 24, 1945	14.2	4,130
	Feb. 28, 1945	19.7	8,580
	Mar. 7, 1945	20.07	9,010
	Mar. 24, 1945	14.23	4,130
	Apr. 7, 1945	12.33	3,190
	Apr. 19, 1945	12.41	3,240
	May 20, 1945	13.86	3,970
1946	Mar. 21, 1946	14.80	4,370
	Mar. 27, 1946	15.98	5,150
	June 2, 1946	14.86	4,430
	June 19, 1946	13.76	3,790
1947	Jan. 17, 1947	14.5	4,190
	May 3, 1947	15.81	5,010
	May 24, 1947	13.96	3,900
	Sept. 6, 1947	13.55	3,680
1948	Feb. 16, 1948	19.35	8,040
	Feb. 28, 1948	14.40	4,130
	Mar. 2, 1948	13.63	3,680
	Mar. 18, 1948	12.31	3,030
	Mar. 30, 1948	14.42	4,130
	Apr. 15, 1948	24.92	15,500
1949	Dec. 16, 1948	19.12	7,520
	Jan. 28, 1949	17.46	5,720
	Feb. 17, 1949	16.42	4,800
1950	Jan. 8, 1950	18.78	7,160
	Jan. 27, 1950	14.25	3,620
	Feb. 2, 1950	16.99	5,260
	Feb. 10, 1950	15.33	4,150
	July 21, 1950	13.78	3,460
1951	Dec. 8, 1950	16.82	5,100
	Jan. 6, 1951	-	b3,600
	Jan. 17, 1951	20.11	8,770
	Feb. 1, 1951	14.75	3,900
	Feb. 7, 1951	14.3	3,540
	Feb. 16, 1951	15.3	3,980
	Mar. 7, 1951	14.13	3,440
	Mar. 20, 1951	13.36	3,160
1952	Jan. 5, 1952	15.04	3,850
	Jan. 30, 1952	15.60	4,130
	Feb. 7, 1952	14.48	3,620
	Mar. 14, 1952	13.30	3,120
	Mar. 25, 1952	17.10	5,190
1953	Mar. 7, 1953	13.55	3,240
	May 8, 1953	13.35	3,160
	May 25, 1953	13.38	3,160
1954	May 6, 1954	11.17	2,320
1955	Mar. 4, 1955	15.66	4,190
	Mar. 24, 1955	14.04	3,460
	Apr. 15, 1955	13.86	3,420
	July 12, 1955	14.92	3,820
1956	Feb. 2, 1956	14.96	3,870
	Feb. 18, 1956	15.88	4,290

a From floodmarks.
b Estimated.
c From daily gage reading.

Peak stages and discharges of Raccoon Creek at Adamsville, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 25, 1956	15.17	3,960	1958	May 8, 1958	18.75	6,290
	Mar. 8, 1956	15.93	4,290		July 26, 1958	19.19	6,830
	Mar. 16, 1956	13.58	3,300				
	Mar. 29, 1956	13.44	3,220	1959	Jan. 24, 1959	19.42	7,090
	Apr. 3, 1956	17.00	5,090		Feb. 15, 1959	13.54	3,070
	May 30, 1956	14.10	3,500				
				1960	Feb. 11, 1960	13.80	3,170
1957	Feb. 10, 1957	17.02	5,090				
	Apr. 8, 1957	13.75	3,380	1961	Mar. 10, 1961	15.93	4,200
					Apr. 4, 1961	13.41	3,140
1958	May 2, 1958	15.42	3,920		May 10, 1961	18.33	6,010

GUYANDOTTE RIVER BASIN

2030. Guyandotte River at Man, W. Va.
(Published as "Guyandot River" prior to 1960)

Location.--Lat 37°44'30", long 81°52'45", on right bank on downstream side of highway bridge at Man, Logan County, 500 ft upstream from Buffalo Creek and 0.7 mile downstream from Huff Creek.

Drainage area.--762 sq mi (including that of Buffalo Creek).

Gage.--Nonrecording prior to July 3, 1934; recording thereafter. Datum of gage is 710.88 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended on basis of logarithmic plotting.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 28, 1929	12.0	12,800	1938	July 3, 1938	13.07	17,000
	Mar. 5, 1929	13.2	16,700		July 24, 1938	12.09	13,800
	Mar. 24, 1929	11.22	10,600		Aug. 11, 1938	12.90	16,300
1930	Nov. 18, 1929	14.0	19,600	1939	Feb. 3, 1939	16.60	30,100
					Feb. 11, 1939	12.27	14,800
1931	Mar. 28, 1931	12.80	14,200		Mar. 6, 1939	10.92	10,400
	Apr. 1, 1931	12.20	13,400				
				1940	June 19, 1940	10.12	8,280
1932	Jan. 30, 1932	13.77	18,800				
	Feb. 4, 1932	13.87	19,200	1941	Mar. 11, 1941	11.97	13,500
	May 12, 1932	15.0	23,400				
	June 28, 1932	13.78	18,800	1942	Mar. 9, 1942	9.64	7,120
1933	Jan. 22, 1933	11.8	11,900	1943	Dec. 2, 1942	12.28	14,400
	Mar. 21, 1933	12.40	12,800		Dec. 30, 1942	15.43	25,400
					Mar. 14, 1943	13.50	18,700
1934	Feb. 26, 1934	12.10	12,900		Mar. 20, 1943	12.13	14,200
	Mar. 3, 1934	19.11	40,000		Apr. 19, 1943	12.12	14,200
	Mar. 9, 1934	11.6	12,300				
				1944	Feb. 18, 1944	10.92	10,000
1935	Mar. 12, 1935	14.45	21,600		Mar. 20, 1944	12.30	14,300
	Mar. 25, 1935	16.83	30,900		Apr. 12, 1944	13.33	17,600
	Apr. 1, 1935	16.02	27,700				
	May 15, 1935	13.52	18,400	1945	Feb. 14, 1945	10.92	10,400
					Feb. 18, 1945	13.74	19,000
1936	Jan. 3, 1936	11.69	12,600		Mar. 6, 1945	13.62	18,700
	Feb. 5, 1936	11.58	12,300				
	Feb. 15, 1936	11.78	12,900	1946	Jan. 8, 1946	16.30	28,900
	Apr. 6, 1936	16.75	30,900		Mar. 19, 1946	11.88	13,100
1937	Jan. 3, 1937	11.66	12,600	1947	Mar. 15, 1947	10.72	9,550
	Jan. 18, 1937	11.22	11,200				
	Jan. 20, 1937	13.53	18,400	1948	Feb. 13, 1948	18.19	36,500
	Jan. 26, 1937	11.63	12,300		Mar. 24, 1948	11.25	11,200
	Feb. 9, 1937	13.60	18,700		Apr. 7, 1948	14.72	22,800
					Apr. 14, 1948	14.58	22,400
1938	Oct. 28, 1937	13.07	17,000				
	Mar. 3, 1938	13.83	19,100	1949	Dec. 16, 1948	11.85	12,900
	June 20, 1938	14.25	20,900		Jan. 6, 1949	10.84	10,200

Peak stages and discharges of Guyandotte River at Man, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 22, 1949	10.92	10,400	1955	Feb. 28, 1955	20.19	34,600
	Mar. 18, 1949	11.76	12,900		Mar. 6, 1955	18.76	30,500
					Mar. 16, 1955	16.15	23,100
1950	Dec. 13, 1949	12.1	13,800				
	Feb. 2, 1950	17.1	32,100	1956	Feb. 18, 1956	13.74	15,800
	July 27, 1950	13.0	16,500		Mar. 8, 1956	12.90	13,800
					Mar. 14, 1956	13.92	16,400
1951	Dec. 4, 1950	12.42	14,700		Apr. 16, 1956	16.72	23,400
	Dec. 8, 1950	11.13	10,800				
	Feb. 1, 1951	11.89	13,200	1957	Jan. 10, 1957	13.75	16,000
	Mar. 18, 1951	13.72	19,000		Jan. 29, 1957	22.25	37,600
					Feb. 2, 1957	13.15	14,600
1952	Dec. 15, 1951	11.42	11,700		Feb. 10, 1957	13.25	14,900
	Dec. 21, 1951	12.13	13,800				
	Jan. 23, 1952	12.53	15,000	1958	Dec. 8, 1957	12.43	12,600
	Jan. 28, 1952	12.03	13,500		Feb. 7, 1958	11.52	10,700
	Mar. 23, 1952	14.34	21,000		Mar. 31, 1958	12.15	12,200
	Apr. 28, 1952	14.08	20,400		May 6, 1958	12.65	13,200
1953	Feb. 21, 1953	12.37	14,700	1959	Jan. 22, 1959	12.46	12,800
					Apr. 13, 1959	11.87	11,500
1954	Jan. 16, 1954	12.02	13,500				
	July 21, 1954	12.18	14,100	1960	Nov. 28, 1959	11.15	9,120
1955	Dec. 29, 1954	13.65	15,600	1961	Feb. 26, 1961	14.29	16,600
	Feb. 7, 1955	14.65	18,400				

2036. Guyandotte River at Logan, W. Va.

Location.--Lat 37°50'50", long 81°59'35", on left bank at Logan, Logan County, 1,000 ft downstream from Town Branch and 0.3 mile upstream from Island Creek.

Drainage area.--837 sq mi, as determined by Geological Survey (859 sq mi by U.S. Weather Bureau).

Gage.--Nonrecording. Prior to July 10, 1923, at datum 0.66 ft lower, and July 10, 1923, to Nov. 4, 1934, at datum 1.05 ft higher. Datum of gage is 639.1 ft above mean sea level.

Remarks.--Annual peaks obtained from Weather Bureau records.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Feb. 21, 1922	11.5	-	1942	Mar. 9, 1942	a7.3	-
				1943	Dec. 30, 1942	19.5	-
1924	Sept.22, 1924	a16.0	-	1944	Apr. 12, 1944	13.9	-
1925	Feb. 16, 1925	a10.0	-	1945	Mar. 6, 1945	14.0	-
1926	Jan. 22, 1926	a15.4	-	1946	Jan. 8, 1946	18.9	-
1927	Dec. 22, 1926	20.2	-	1947	Mar. 15, 1947	a9.2	-
1928	June 30, 1928	a14.0	-	1948	Feb. 14, 1948	23.0	-
1929	Mar. 23, 1929	a15.0	-	1949	Mar. 18, 1949	10.3	-
1930	Nov. 18, 1929	12.6	-	1950	Feb. 2, 1950	19.8	-
1931	Mar. 29, 1931	a7.9	-	1951	Feb. 1, 1951	12.8	-
1932	Feb. 4, 1932	a13.7	-	1952	Mar. 23, 1952	15.5	-
1933	Mar. 19, 1933	10.0	-	1953	Feb. 22, 1953	11.1	-
1934	Mar. 3, 1934	a20.8	-	1954	July 21, 1954	10.7	-
1935	Mar. 26, 1935	a18.4	-	1955	Feb. 28, 1955	25.2	-
1936	Apr. 6, 1936	17.3	-	1956	Apr. 16, 1956	19.2	-
1937	Feb. 10, 1937	12.5	-	1957	Jan. 29, 1957	28.2	-
1938	Aug. 11, 1938	a14.3	-	1958	May 6, 1958	15.8	-
1939	Feb. 3, 1939	21.8	-	1959	Jan. 22, 1959	11.5	-
1940	June 20, 1940	8.2	-	1960	Nov. 28, 1959	9.5	-
1941	Mar. 12, 1941	a10.0	-	1961	Feb. 26, 1961	14.3	-

a Maximum observed.

2040. Guyandotte River at Branchland, W. Va.
(Published as "Guyandot River" prior to 1960)

Location.--Lat 38°13'15", long 82°12'10", on right bank at downstream side of highway bridge at Branchland, Lincoln County, 20 ft downstream from Fourmile Creek.

Drainage area.--1,226 sq mi.

Gage.--Nonrecording prior to June 20, 1932; recording thereafter. Datum of gage is 547.91 ft above mean sea level, adjustment of 1912. Auxiliary nonrecording gage 4 miles upstream since Oct. 1, 1942.

Stage-discharge relation.--Defined by adjusted current-meter measurements below 33,000 cfs. Backwater from downstream tributaries or the Ohio River computed using fall as a factor.

Remarks.--Auxiliary gage record supplied by Corps of Engineers. Base for partial-duration series, 13,000 cfs. Only annual peaks are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	(a)	44	43,500	1938	July 3,4,1938	21.50	15,000
					Aug. 12, 1938	27.77	22,200
1916	Dec. 18, 1915	23.9	17,300				
1917	Mar. 5, 1917	31.34	25,400	1939	Feb. 4, 1939	38.60	36,100
1918	Jan. 29, 1918	39.24	36,900		Feb. 20, 1939	22.92	16,500
1919	Jan. 2, 1919	33.25	-				
1920	Dec. 7, 1919	35.0	-	1940	June 20, 1940	15.17	9,020
1921	Feb. 11, 1921	15.46	-	1941	Mar. 12, 1941	19.40	12,800
1922	Nov. 25, 1921	28.58	-				
				1942	Mar. 10, 1942	15.88	9,620
1929	Feb. 26, 1929	29.97	24,000				
	Mar. 6, 1929	24.49	18,000	1943	Dec. 3, 1942	21.98	b15,500
	Mar. 24, 1929	29.0	22,900		Dec. 31, 1942	36.23	b33,100
	May 21, 1929	20.0	13,300		Mar. 14, 1943	26.53	b22,100
					Mar. 20, 1943	28.05	b22,200
1930	Nov. 18, 1929	26.35	20,000		Apr. 20, 1943	28.13	b22,200
1931	Mar. 29, 1931	19.99	14,600	1944	Mar. 20, 1944	23.87	b16,500
					Apr. 9, 1944	20.16	13,600
1932	Jan. 31, 1932	28.76	22,700		Apr. 13, 1944	28.59	23,100
	Feb. 5, 1932	29.30	23,200				
	Mar. 29, 1932	22.96	16,300	1945	Feb. 18, 1945	24.62	18,400
	May 13, 1932	23.55	17,000		Mar. 6, 1945	c26.68	b21,200
	June 29, 1932	25.4	18,900				
	July 6, 1932	19.35	13,800	1946	Jan. 8, 1946	33.70	28,100
					Mar. 20, 1946	19.70	13,000
1933	Jan. 23, 1933	20.42	15,000				
	Feb. 21, 1933	20.00	14,500	1947	Jan. 21, 1947	18.35	11,800
	Mar. 16, 1933	19.35	13,800				
	Mar. 20, 1933	24.00	17,400	1948	Feb. 14, 1948	38.85	33,700
	Mar. 22, 1933	22.12	15,400		Apr. 9, 1948	30.80	24,900
					Apr. 15, 1948	30.43	24,400
1934	Mar. 4, 1934	35.60	30,200				
	Mar. 9, 1934	20.33	14,900	1949	Mar. 19, 1949	19.75	13,100
1935	Mar. 13, 1935	32.85	29,900	1950	Feb. 3, 1950	37.40	b30,000
	Mar. 26, 1935	34.78	29,300		July 28, 1950	20.04	13,300
	Apr. 2, 1935	31.42	27,400				
	May 15, 1935	24.50	17,800	1951	Dec. 5, 1950	24.56	b16,400
					Feb. 1, 1951	c31.02	b23,400
1936	Feb. 5, 1936	20.43	13,400		Mar. 19, 1951	24.98	17,400
	Mar. 22, 1936	21.15	14,200				
	Mar. 25, 1936	20.46	13,500	1952	Dec. 16, 1951	19.96	13,300
	Apr. 7, 1936	32.38	29,200		Dec. 22, 1951	21.74	15,000
					Jan. 23, 1952	20.62	13,900
1937	Jan. 19, 1937	23.85	b17,100		Jan. 29, 1952	24.95	b16,400
	Jan. 21, 1937	25.77	b19,300		Mar. 24, 1952	31.18	b23,800
	Jan. 26, 1937	25.55	b18,000		Apr. 29, 1952	22.86	16,200
	Feb. 10, 1937	24.33	17,600				
				1953	Feb. 22, 1953	20.62	b13,300
1938	Oct. 29, 1937	23.94	17,600				
	Mar. 4, 1938	24.35	18,100	1954	July 22, 1954	c22.75	b14,600
	June 21, 1938	24.76	18,600				

a Probably in 1907; maximum stage known.
b Backwater, computed from auxiliary gage.
c Occurred at different time.

Peak stages and discharges of Guyandotte River at Branchland, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 30, 1954	25.63	b17,000	1957	Feb. 11, 1957	30.60	b22,300
	Feb. 8, 1955	27.41	b18,300				
	Mar. 1, 1955	42.57	b36,200	1958	Feb. 8, 1958	21.97	b13,300
	Mar. 7, 1955	39.04	b33,700		Apr. 28, 1958	24.50	b15,600
	Mar. 17, 1955	30.45	b21,600		May 7, 1958	34.82	b27,700
1956	Feb. 19, 1956	28.49	b19,500	1959	Jan. 22, 1959	21.78	14,600
	Mar. 15, 1956	30.66	23,300		Apr. 14, 1959	21.70	b14,500
	Apr. 17, 1956	34.39	b26,300				
				1960	Mar. 30, 1960	16.39	9,260
1957	Jan. 11, 1957	27.18	19,700				
	Jan. 30, 1957	41.88	40,400	1961	Feb. 27, 1961	26.30	b16,600
	Feb. 2, 1957	28.18	b18,600				

b Backwater, computed from auxiliary gage.

2045. Mud River near Milton, W. Va.

Location.--Lat 38°23'15", long 82°06'46", on right bank 75 ft downstream from highway bridge, 700 ft downstream from Little Two Mile Creek, 0.9 mile upstream from Charley Creek, and 3.4 miles south of Milton, Cabell County.

Drainage area.--256 sq mi.

Gage.--Nonrecording prior to Nov. 21, 1957, with crest-stage gage since June 11, 1948; recording thereafter. At site 75 ft upstream at same datum prior to Nov. 21, 1957. Datum of gage is 572.64 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs.

Remarks.--Base for partial-duration series, 3,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938a/	Apr. 9, 1938	13.5	2,930	1949	Dec. 16, 1948	16.5	4,380
	July 23, 1938	13.5	2,930		Feb. 16, 1949	15.41	3,860
1939	Jan. 29, 1939	21.5	6,960	1950	Feb. 1, 1950	25.04	9,320
	Feb. 3, 1939	29.35	14,500		Sept.22, 1950	22.85	7,560
	Mar. 6, 1939	23.00	8,030				
	Mar. 12, 1939	21.00	6,630	1951	Nov. 5, 1950	15.7	3,710
	Apr. 16, 1939	24.00	8,860		Dec. 4, 1950	16.1	3,890
					Feb. 2, 1951	25.6	9,910
1940	Mar. 31, 1940	16.70	4,480				
	Apr. 20, 1940	18.0	5,150	1952	Dec. 9, 1951	18.19	4,880
	June 28, 1940	15.50	3,910		Feb. 28, 1952	18.49	5,030
					Mar. 23, 1952	21.5	6,710
1941	July 13, 1941	15.4	3,860		May 21, 1952	16.85	4,210
1942	Aug. 25, 1942	19.0	5,680	1953	Jan. 9, 1953	15.00	3,470
1943	Dec. 31, 1942	26.7	11,700	1954	May 8, 1954	11.2	2,210
	Mar. 14, 1943	15.7	4,000				
	Mar. 20, 1943	20.5	6,510	1955	Feb. 7, 1955	17.28	4,440
	Apr. 20, 1943	24.3	9,410		Feb. 28, 1955	18.40	4,980
					Mar. 6, 1955	22.22	7,160
1944	Mar. 20, 1944	15.65	3,960				
	Apr. 12, 1944	19.64	6,000	1956	Feb. 19, 1956	21.1	6,460
					Mar. 9, 1956	16.4	4,020
1945	Jan. 1, 1945	21.14	6,870		Mar. 15, 1956	21.45	6,650
	Mar. 1, 1945	21.80	7,360				
	Mar. 3, 1945	18.16	5,260	1957	Dec. 15, 1956	23.28	7,700
	May 18, 1945	18.7	5,520		Jan. 30, 1957	20.3	5,820
	June 12, 1945	15.28	3,820				
				1958	Mar. 26, 1958	15.73	3,830
1946	Jan. 8, 1946	20.2	6,340		Apr. 28, 1958	19.93	5,760
	May 27, 1946	15.2	3,770		May 8, 1958	19.80	5,700
	June 3, 1946	15.9	4,090				
				1959	Apr. 14, 1959	12.73	2,780
1947	June 9, 1947	20.3	6,390				
				1960	Feb. 26, 1960	14.88	3,540
1948	Feb. 14, 1948	19.36	5,900				
	Apr. 3, 1948	24.13	9,220	1961	June 16, 1961	18.80	5,060

a Partial year.

2055. Symmes Creek at Getaway, Ohio

Location.--Lat 38°29'45", long 82°28'35", at bridge on State Highway 243 at north edge of Getaway, Lawrence County, three-quarters of a mile downstream from Leatherwood Creek, 1.2 miles upstream from Rankin Creek, and 5½ miles northwest of Huntington, W. Va.

Drainage area.--333 sq mi.

Gage.--Nonrecording. Datum of gage is 539.15 ft above mean sea level, Sandy Hook datum (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,230 cfs and extended on basis of slope-area measurement at 14,400 cfs. Affected by backwater from the Ohio River at times.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 27, 1937	a22.7	(b)	1943	Jan. 1, 1943	17.8	6,230
				1944	Apr. 12, 1944	14.5	3,660
1939	Apr. 17, 1939	22.2	14,400	1945	Mar. 8, 1945	18.3	6,810
1940	Apr. 20, 1940	16.0	4,900				
				1946	June 3, 1946	16.98	5,810
1941	Jan. 25, 1941	10.7	1,740	1947	June 8, 1947	17.34	6,170
1942	Apr. 10, 1942	14.9	3,950				

a Backwater from Ohio River; maximum known.
b Less than that of Apr. 17, 1939.

OHIO RIVER MAIN STEM

2060. Ohio River at Huntington, W. Va.

Location.--Lat 38°24'48", long 82°30'02", on right bank at lock 28 at Sybene, Lawrence County, Ohio, 0.1 mile upstream from Fourpole Creek, 3.0 miles downstream from Symmes Creek, and at mile 311.6.

Drainage area.--55,900 sq mi, approximately.

Gage.--Base gage, recording. At datum 1.737 ft higher prior to July 8, 1942. Datum of gage is 490.26 ft above mean sea level, Sandy Hook datum. Auxiliary gage, recording, 4.7 miles upstream from base gage, on left bank at foot of 24th Street, Huntington. Datum same as base gage.

Stage-discharge relation.--Expressed as a fall rating and defined by adjusted current-meter measurements below 650,000 cfs.

Remarks.--Only annual peaks are shown. Peak stage usually occurs at different time than peak discharge. Gage-height records collected at same site since 1913 are contained in reports of U.S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 19, 1884	a64.6	-	1946	Jan. 9, 1946	47.09	338,000
				1947	Jan. 22, 1947	37.42	248,000
1907	Mar. 18, 1907	b58.1	-	1948	Apr. 16, 1948	61.60	554,000
				1949	Jan. 29, 1949	47.34	374,000
1913	Mar. 30, 1913	a65.8	-	1950	Feb. 3, 1950	56.62	418,000
1935	Mar. 14, 1935	49.77	384,000	1951	Dec. 9, 1950	53.10	431,000
				1952	Jan. 30, 1952	54.29	459,000
1936	Mar. 22, 1936	58.82	536,000	1953	Mar. 27, 1954	31.61	209,000
1937	Jan. 28, 1937	69.45	654,000	1954	Mar. 4, 1954	32.93	225,000
1938	Dec. 22, 1937	40.34	323,000	1955	Mar. 7, 1955	59.54	504,000
1939	Feb. 5, 1939	56.92	477,000				
1940	Apr. 23, 1940	56.66	506,000	1956	Mar. 15, 1956	48.66	367,000
				1957	Feb. 11, 1957	46.43	346,000
1941	June 7, 1941	34.75	247,000	1958	May 9, 1958	55.32	414,000
1942	Mar. 18, 1942	42.50	318,000	1959	Jan. 24, 1959	49.67	444,000
1943	Jan. 1, 1943	60.11	558,000	1960	Apr. 3, 1960	44.93	351,000
1944	Apr. 14, 1944	44.22	319,000				
1945	Mar. 9, 1945	59.86	514,000	1961	Mar. 1, 1961	48.26	334,000

a Computed from wharf gage heights and slopes for 1937.
b Computed from wharf gage heights and slopes for 1936.

2065. Fourpole Creek at Huntington, W. Va.

Location.--Lat 38°24'15", long 82°28'45", at bridge on 11th Avenue in Huntington, Cabell County, 400 ft downstream from Right Fork and 1¾ miles upstream from mouth.

Drainage area.--20.9 sq mi.

Gage.--Recording. Datum of gage is 520.23 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended on basis of slope-area measurement at 2,400 cfs.

Remarks.--Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	July 12, 1941	5.72	895	1945	June 11, 1945	9.05	2,370
1942	Apr. 9, 1942	7.66	1,640	1946	Jan. 7, 1946	7.63	1,670
	June 7, 1942	6.25	1,070		Feb. 13, 1946	5.54	758
	Aug. 23, 1942	6.75	1,280		May 15, 1946	6.54	1,140
					June 2, 1946	11.83	3,770
1943	Dec. 30, 1942	(a)	1,020		July 21, 1946	6.02	930
	Mar. 19, 1943	(a)	1,430				
	Apr. 19, 1943	7.96	1,750	1947	Jan. 15, 1947	5.82	850
					June 8, 1947	7.30	1,520
1944	Apr. 11, 1944	7.42	1,510		Aug. 3, 1947	5.85	870
1945	Dec. 31, 1944	(a)	1,620	1948	Feb. 13, 1948	6.40	1,100
	Feb. 28, 1945	(a)	1,150		Mar. 16, 1948	6.33	1,060
	Mar. 2, 1945	(a)	1,700		Apr. 12, 1948	9.05	2,370
	Mar. 6, 1945	(a)	1,000				

a Backwater from Ohio River.

TWELVEPOLE CREEK BASIN

2070. Twelvepole Creek at Wayne, W. Va.

Location.--Lat 38°13'05", long 82°26'55", on right bank at bridge on State Highway 37 at Wayne, Wayne County, three-quarters of a mile downstream from confluence of East and West Forks.

Drainage area.--291 sq mi.

Gage.--Nonrecording prior to Aug. 28, 1957, with crest-stage gage since June 1948; recording thereafter. Datum of gage, 576.53 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Remarks.--Base for partial-duration series, 3,400 cfs. Only annual peaks are shown prior to 1929 and for 1939 and 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	18.95	7,140	1929	May 3, 1929	13.54	3,980
1917	Jan. 22, 1917	15.25	5,120		May 20, 1929	13.80	4,130
1918	Jan. 28, 1918	20.48	7,960				
1919	Jan. 2, 1919	21.1	8,300	1930	Nov. 18, 1929	15.89	5,180
1920	Jan. 9, 1920	21.45	8,500				
				1931	Apr. 23, 1931	12.90	3,680
1921	Mar. 3, 1921	13.50	4,270				
1922	Dec. 23, 1921	19.46	7,410	1939	Feb. 4, 1939	a31.03	22,000
1928	June 30, 1928	a28.3	14,000	1947	Jan. 21, 1947	13.02	3,480
1929	Dec. 1, 1928	13.96	4,230	1948	Feb. 14, 1948	21.2	8,360
	Feb. 27, 1929	20.0	7,680		Apr. 8, 1948	19.7	7,290
	Mar. 5, 1929	13.27	3,880		Apr. 14, 1948	23.3	10,000
	Mar. 23, 1929	17.15	5,950				

a Reading by U.S. Weather Bureau.

Peak stages and discharges of Twelvepole Creek at Wayne, W. Va.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 16, 1949	14.3	4,120	1955	March 1955	b25.82	12,000
1950	Jan. 13, 1950	14.8	4,390	1956	Feb. 15, 1956	14.1	4,050
	Feb. 1, 1950	25.6	11,900		Feb. 18, 1956	21.0	8,200
	June 4, 1950	14.2	4,060		Mar. 9, 1956	b18.45	6,440
	June 20, 1950	b19.94	7,540		Mar. 14, 1956	21.3	8,440
	July 5, 1950	12.95	3,430		Apr. 16, 1956	b17.62	5,960
1951	Nov. 4, 1950	13.65	3,740	1957	Dec. 14, 1956	20.00	7,280
	Jan. 15, 1951	14.0	3,950		Jan. 30, 1957	b18.47	6,500
	Feb. 2, 1951	b27.0	13,000		Feb. 10, 1957	b17.20	5,720
	Feb. 7, 1951	13.5	3,690		Apr. 9, 1957	14.1	4,050
	Mar. 18, 1951	14.4	4,170	1958	Apr. 29, 1958	18.85	6,680
1952	Dec. 9, 1951	b17.31	5,840		May 8, 1958	19.39	7,040
	Dec. 15, 1951	13.3	3,590	1959	Apr. 13, 1959	11.48	2,800
	Dec. 21, 1951	14.4	4,170				
	Jan. 5, 1952	13.4	3,640	1960	Feb. 26, 1960	11.17	2,380
	Jan. 28, 1952	16.3	5,230				
	Mar. 23, 1952	b23.30	10,000	1961	May 5, 1961	13.98	3,740
	May 20, 1952	14.1	4,260		June 15, 1961	17.71	5,740
1953	Jan. 8, 1953	12.45	3,400				
1954	July 22, 1954	11.61	2,760				

b Crest-stage gage reading.

BIG SANDY RIVER BASIN

2074. Prater Creek at Vansant, Va.

Location.--Lat 37°13'05", long 82°06'10", 500 ft downstream from Trace Fork and 1 mile south of Vansant, Buchanan County.

Drainage area.--19.8 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 1,180 ft (by topographic map).

Stage-discharge relation.--Defined by current-meter measurement at 260 cfs and extended above by contracted-opening measurements at 1,140 and 4,550 cfs.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Feb. 1, 1951	3.54	260	1957	Jan. 29, 1957	9.45	4,550
1952	Apr. 28, 1952	-	a1,500	1958	Aug. 25, 1958	-	a3,000
1953	May 19, 1953	4.30	720	1959	Dec. 29, 1958	4.70	1,000
1954	Jan. 22, 1954	-	a450	1960	Nov. 28, 1959	4.30	700
1955	Feb. 27, 1955	5.20	1,400	1961	Feb. 25, 1961	4.94	1,210
1956	Apr. 15, 1956	4.87	1,140				

a Estimated.

2075. Levisa Fork near Grundy, Va.

Location.--Lat 37°18'00", long 82°07'30", on right bank 20 ft downstream from wooden bridge to Appalachian Power Co. substation, 2 miles northwest of Grundy, Buchanan County, 2.7 miles downstream from Slate Creek, and 2.8 miles upstream from Poplar Creek.

Drainage area.--235 sq mi.

Gage.--Nonrecording prior to Aug. 20, 1949; recording thereafter. At sites about 1,000 ft downstream at datum 2.33 ft lower prior to July 28, 1958. At site 1,020 ft downstream at datum 4.33 ft lower July 29, 1958, to Aug. 1, 1961. Datum of gage is 988.50 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs and extended above on basis of slope-area and contracted-opening measurements at 33,200 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 2,500 cfs. Only annual peaks are shown prior to 1950 and for 1958.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	March 1929	16.0	21,800	1953	May 19, 1953	13.17	13,800
1942	June 20, 1942	9.37	5,720	1954	Jan. 22, 1954	6.55	2,680
1943	Mar. 13, 1943	11.94	11,700		May 14, 1954	6.52	2,590
1944	Feb. 17, 1944	14.0	16,000				
1945	Feb. 17, 1945	13.6	14,900	1955	Feb. 7, 1955	7.57	3,620
					Feb. 27, 1955	13.36	14,400
1946	Jan. 7, 1946	14.5	17,400		Mar. 1, 1955	11.47	10,500
1947	Jan. 15, 1947	10.5	8,000		Mar. 6, 1955	13.29	13,000
1948	Feb. 13, 1948	11.17	9,700		Mar. 16, 1955	13.10	12,600
1949	Mar. 18, 1949	10.0	7,000				
				1956	Feb. 3, 1956	6.61	2,680
1950	Dec. 13, 1949	7.30	3,170		Feb. 18, 1956	7.92	3,920
	Jan. 30, 1950	9.60	6,280		Mar. 8, 1956	7.95	4,030
	Feb. 2, 1950	13.00	13,300		Mar. 14, 1956	6.45	2,500
	May 13, 1950	7.27	3,170		Apr. 15, 1956	12.43	11,800
	May 15, 1950	6.72	2,560				
				1957	Jan. 29, 1957	19.06	33,200
1951	Dec. 4, 1950	8.13	4,140		Feb. 9, 1957	8.75	4,950
	Dec. 8, 1950	6.74	2,770				
	Feb. 1, 1951	8.33	4,370	1958	Aug. 25, 1958	16.6	a17,700
1952	Jan. 22, 1952	9.66	6,460	1959	Jan. 22, 1959	9.00	4,670
	Jan. 28, 1952	7.09	3,130		Apr. 12, 1959	10.25	6,420
	Mar. 23, 1952	9.37	5,940				
	Apr. 26, 1952	6.94	2,950	1960	Nov. 28, 1959	8.29	3,830
	Apr. 28, 1952	10.98	9,200				
	May 12, 1952	6.80	2,860	1961	Feb. 25, 1961	10.93	7,520
					May 2, 1961	7.35	2,900
1953	Dec. 11, 1952	6.36	2,500		May 12, 1961	10.26	6,540
	Feb. 21, 1953	8.78	5,020		July 31, 1961	11.01	7,700

a Annual peak only.

2080. Levisa Fork at Fishtrap, Ky.

Location.--Lat 37°25'45", long 82°23'20", on right bank 300 ft south of U.S. Highway 460, 700 ft downstream from Hurricane Creek, 1 mile southeast of Fishtrap, Pike County, and 6.1 miles upstream from Russell Fork.

Drainage area.--386 sq mi.

Gage.--Nonrecording. Datum of gage is 688.10 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs, and extended on basis of slope-area measurements at 23,000 and 33,000 cfs.

Historical data.--Flood in 1929 reached a stage of about 26.5 ft. Flood of January 1957 is highest flood known since at least 1862, according to local residents.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 3, 1938	14.00	a10,200	1950	Feb. 2, 1950	19.54	17,200
					July 21, 1950	8.4	5,240
1939	Feb. 3, 1939	20.26	17,900		July 27, 1950	9.8	6,430
	Feb. 11, 1939	9.4	6,460				
	Mar. 6, 1939	8.6	5,740	1951	Dec. 4, 1950	12.85	8,960
					Dec. 8, 1950	9.8	6,020
1940	Aug. 14, 1940	14.78	11,000		Feb. 1, 1951	10.2	6,380
1941	Mar. 11, 1941	6.96	4,360	1952	Jan. 23, 1952	11.2	7,280
					Jan. 28, 1952	8.9	5,210
1942	June 20, 1942	10.8	7,640		Mar. 23, 1952	14.4	10,400
	June 23, 1942	9.8	6,820		Apr. 28, 1952	15.3	11,300
1943	Dec. 2, 1942	11.3	8,040	1953	Feb. 21, 1953	11.24	7,320
	Dec. 30, 1942	15.54	11,700		May 19, 1953	19.5	17,100
	Jan. 28, 1943	11.7	8,360				
	Mar. 13, 1943	12.2	8,760	1954	Jan. 16, 1954	7.8	4,240
	Mar. 20, 1943	10.5	7,400				
	Apr. 19, 1943	10.8	7,640	1955	Feb. 7, 1955	12.4	8,400
					Feb. 27, 1955	20.74	19,500
1944	Feb. 18, 1944	16.7	12,900		Mar. 6, 1955	20.34	18,700
	Feb. 29, 1944	11.6	8,280		Mar. 16, 1955	18.91	16,100
	Mar. 20, 1944	10.3	7,240				
	Apr. 12, 1944	9.6	6,640	1956	Feb. 18, 1956	14.12	9,420
					Mar. 8, 1956	13.87	9,170
1945	Feb. 17, 1945	17.0	13,200		Apr. 16, 1956	20.10	16,100
	Mar. 5, 1945	8.4	5,500				
	Aug. 2, 1945	12.5	9,000	1957	Jan. 10, 1957	9.5	5,200
					Jan. 29, 1957	33.9	33,000
1946	Jan. 7, 1946	22.82	23,000		Feb. 2, 1957	13.6	8,900
	Feb. 11, 1946	9.9	6,910		Feb. 9, 1957	-	b8,000
	May 4, 1946	9.4	6,460				
				1958	Jan. 25, 1958	9.40	5,120
1947	Jan. 16, 1947	11.6	8,580		Mar. 31, 1958	9.62	5,300
	Jan. 20, 1947	8.9	6,000		Apr. 28, 1958	9.30	5,040
					May 7, 1958	20.60	16,700
1948	Feb. 13, 1948	17.0	13,200		Aug. 25, 1958	15.30	10,600
	Mar. 17, 1948	12.2	8,200				
	Mar. 24, 1948	8.3	5,400	1959	Jan. 22, 1959	13.29	8,590
	Mar. 27, 1948	9.8	6,820		Apr. 13, 1959	13.84	9,140
	Apr. 8, 1948	15.8	11,800				
	Apr. 14, 1948	8.8	5,900	1960	Nov. 28, 1959	11.86	7,270
1949	Dec. 4, 1948	12.4	8,560	1961	Feb. 26, 1961	16.21	11,500
	Mar. 18, 1949	11.6	7,880		May 2, 1961	9.25	5,000
					May 12, 1961	14.65	9,950
1950	Dec. 14, 1949	10.2	6,760		July 31, 1961	15.95	11,200
	Jan. 31, 1950	16.0	12,000				

a Annual peak only.
b About.

2085. Russell Fork at Haysi, Va.

Location.--Lat 37°12'25", long 82°17'45", on right bank 180 ft downstream from highway bridge at Haysi, Dickenson County, and 700 ft downstream from McClure River.

Drainage area.--286 sq mi.

Gage.--Nonrecording prior to Dec. 21, 1939, at site 180 ft upstream; recording thereafter. Datum of gage is 1,237.45 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended above on basis of slope-area measurements at 19,000 and 46,600 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Dec. 21, 1926	12.5	17,500
1928	Apr. 29, 1928	8.8	8,800
1929	Mar. 23, 1929	18.5	34,500
1930	Nov. 18, 1929	8.72	8,600
1931	July 23, 1931	8.02	7,200
1932	Jan. 30, 1932	13.04	18,800
1933	Dec. 28, 1932	11.0	13,800
1934	Mar. 3, 1934	8.70	8,600
1935	Mar. 12, 1935	11.0	13,800
1936	Apr. 6, 1936	9.35	10,100
1937	Feb. 9, 1937	13.0	18,800
1938	Mar. 6, 1938	10.6	12,800
1939	Feb. 3, 1939	16.95	30,000
1940	Aug. 14, 1940	10.20	11,900
1941	Mar. 11, 1941	5.72	3,120
1942	July 8, 1942	7.44	6,250
1943	Dec. 2, 1942	7.74	6,660
	Dec. 30, 1942	8.83	8,800
	Jan. 28, 1943	6.53	4,500
	Mar. 13, 1943	10.68	13,100
	Mar. 20, 1943	7.36	6,120
	Apr. 19, 1943	9.24	9,640
1944	Feb. 17, 1944	15.46	25,600
	Feb. 29, 1944	10.13	11,600
	Mar. 19, 1944	7.60	6,480
	Apr. 12, 1944	7.17	5,760
1945	Feb. 17, 1945	10.82	13,300
	Aug. 2, 1945	6.49	4,500
1946	Jan. 7, 1946	13.10	19,000
	Feb. 10, 1946	9.63	10,500
1947	Jan. 2, 1947	6.48	4,500
	Jan. 15, 1947	9.65	10,500
	Jan. 20, 1947	7.77	6,840
1948	Feb. 14, 1948	11.30	14,500
	Mar. 16, 1948	7.90	7,020
	Apr. 8, 1948	7.71	6,660
1949	Dec. 3, 1948	8.65	8,400
	Mar. 18, 1949	8.58	8,400
1950	Dec. 13, 1949	8.33	7,800
1950	Jan. 30, 1950	11.45	14,800
	Feb. 2, 1950	11.33	14,500
	May 12, 1950	8.91	9,000
	May 15, 1950	7.30	5,940
1951	Dec. 4, 1950	8.52	8,200
	Dec. 7, 1950	9.60	10,500
	Feb. 1, 1951	8.10	7,400
1952	Dec. 21, 1951	6.60	4,680
	Jan. 22, 1952	9.37	10,100
	Jan. 28, 1952	6.64	4,680
	Mar. 11, 1952	6.73	4,860
	Mar. 23, 1952	11.32	14,500
	Apr. 26, 1952	6.69	4,860
	Apr. 28, 1952	9.30	9,860
1953	Feb. 21, 1953	9.73	10,700
	May 19, 1953	12.62	17,800
	June 10, 1953	6.95	5,400
1954	Jan. 22, 1954	5.50	2,820
1955	Feb. 7, 1955	7.02	5,400
	Feb. 27, 1955	10.37	12,400
	Mar. 1, 1955	12.01	16,200
	Mar. 6, 1955	14.63	23,100
	Mar. 16, 1955	13.58	20,400
	Mar. 18, 1955	7.75	6,840
	Mar. 22, 1955	8.47	8,200
1956	Feb. 18, 1956	7.86	7,020
	Mar. 8, 1956	8.30	7,800
	Apr. 15, 1956	14.32	22,200
1957	Jan. 29, 1957	23.17	46,600
	Feb. 2, 1957	8.32	7,840
	Feb. 10, 1957	7.16	5,690
1958	Jan. 25, 1958	7.91	6,360
	May 6, 1958	14.97	24,400
	Aug. 25, 1958	13.28	19,900
1959	Jan. 22, 1959	10.08	11,500
	Apr. 12, 1959	10.39	12,200
1960	Nov. 28, 1959	10.46	12,500
1961	Feb. 23, 1961	6.77	4,700
	Feb. 25, 1961	11.73	15,600
	Mar. 8, 1961	6.89	4,850
	July 31, 1961	14.88	24,200

2090. Pound River near Haysi, Va.

Location.--Lat 37°12'50", long 82°22'50", on left bank 0.2 mile downstream from Cranesnest River, 0.8 mile upstream from Twin Branch, and 4.7 miles west of Haysi, Dickenson County.

Drainage area.--212 sq mi. At site used prior to December 1939, 217 sq mi.

Gage.--Nonrecording prior to Feb. 4, 1939; recording thereafter. At site 0.8 mile downstream at different datum prior to Feb. 4, 1939. Datum of gage is 1,279.91 ft above mean sea level, unadjusted (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 1,750 cfs and extended above by logarithmic plotting for 1927-39 site. Since 1939 defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement at 27,300 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 3,500 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1920	-	a14.5	21,800
1927	Dec. 21, 1926	14.0	19,900
1928	Apr. 30, 1928	9.5	7,800
1929	Mar. 23, 1929	16.5	30,000
1930	Oct. 22, 1929	10.7	10,400
1931	Apr. 22, 1931	8.0	5,100
1932	Jan. 29, 1932	11.6	12,700
1933	Dec. 28, 1932	10.0	8,800
1934	Mar. 3, 1934	10.0	8,800
1935	Mar. 31, 1935	9.6	8,000
1936	Mar. 24, 1936	11.2	11,600
1937	Feb. 9, 1937	11.4	12,100
1938	July 14, 1938	10.5	10,000
1939	Feb. 3, 1939	13.5	18,200
1940	July 17, 1940	9.65	3,700
1941	July 16, 1941	9.02	2,980
1942	Mar. 9, 1942	10.28	4,710
	Mar. 17, 1942	10.08	4,400
	July 8, 1942	15.55	17,700
1943	Dec. 2, 1942	9.63	3,620
	Dec. 30, 1942	10.33	4,480
	Mar. 13, 1943	11.62	7,180
	Mar. 20, 1943	10.40	4,620
	Apr. 19, 1943	12.80	10,000
1944	Feb. 18, 1944	14.68	15,100
	Feb. 29, 1944	12.14	8,320
	Mar. 20, 1944	10.11	4,400
	Apr. 12, 1944	10.52	5,040
1945	Feb. 13, 1945	10.09	4,400
	Feb. 17, 1945	12.27	8,800
1946	Jan. 8, 1946	15.5	17,400
	Feb. 11, 1946	10.31	4,710
	July 26, 1946	10.32	4,710
1947	Jan. 3, 1947	9.89	4,110
	Jan. 15, 1947	10.9	5,760
	Jan. 20, 1947	11.21	6,340
1948	Feb. 14, 1948	13.10	10,800
	Mar. 16, 1948	11.23	6,340
	Apr. 8, 1948	10.29	4,710
1949	Mar. 18, 1949	11.76	7,620
1950	Nov. 29, 1949	10.18	4,550
	Dec. 13, 1949	10.90	5,760
	Jan. 30, 1950	12.55	9,520
	Feb. 2, 1950	12.10	8,320
1951	Dec. 4, 1950	10.62	5,210
	Dec. 7, 1950	11.77	7,620
	Feb. 1, 1951	11.00	5,950
	Feb. 21, 1951	9.78	3,970
1952	Dec. 15, 1951	9.86	4,110
	Dec. 21, 1951	9.59	3,710
	Jan. 22, 1952	11.80	7,620
	Mar. 23, 1952	11.12	6,140
	Apr. 28, 1952	9.77	3,970
1953	Feb. 21, 1953	11.03	5,950
	May 19, 1953	13.00	10,500
1954	Jan. 16, 1954	9.10	3,150
1955	Feb. 6, 1955	9.98	4,250
	Feb. 27, 1955	11.50	6,960
	Mar. 1, 1955	12.05	8,080
	Mar. 6, 1955	12.42	9,040
	Mar. 16, 1955	13.17	11,000
	Mar. 18, 1955	10.16	4,550
	Mar. 22, 1955	10.74	5,390
1956	Feb. 18, 1956	11.36	7,070
	Mar. 8, 1956	10.30	5,470
	Mar. 14, 1956	9.51	4,350
	Apr. 7, 1956	9.25	3,930
	Apr. 16, 1956	13.73	12,300
	Aug. 19, 1956	10.67	6,030
1957	Jan. 29, 1957	18.65	27,300
	Feb. 2, 1957	10.02	5,080
	Feb. 10, 1957	9.54	4,410
1958	Dec. 8, 1957	9.78	4,740
	Apr. 29, 1958	9.44	4,270
	May 6, 1958	12.75	9,880
1959	Jan. 22, 1959	11.24	6,730
	Apr. 13, 1959	9.32	4,070
1960	Nov. 24, 1959	9.40	4,210
	Nov. 28, 1959	11.47	7,250
1961	Feb. 25, 1961	11.80	7,790
	Mar. 8, 1961	9.52	4,350

a From information by local residents.

2093. Russell Fork at Elkhorn City, Ky.

Location.--Lat 37°18'14", long 82°20'35", on left bank 10 ft downstream from steel highway bridge on State Highway 80, at Elkhorn City, Pike County, and 0.9 mile upstream from Elkhorn Creek.

Drainage area.--554 sq mi.

Gage.--Nonrecording and crest-stage gage prior to Jan. 5, 1961; recording thereafter. At site 10 ft upstream at same datum prior to Jan. 5, 1961. Datum of gage is 773.00 ft above mean sea level, Big Sandy River Survey datum (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended on basis of slope-area measurement at 51,200 cfs.

Remarks.--Base for partial-duration series, 8,500 cfs. Only annual peaks are shown prior to 1961.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 29, 1957	24.21	51,200	1961	Feb. 25, 1961	14.77	18,900
1958	May 8, 1958	17.00	26,000		Mar. 8, 1961	11.35	8,780
1959	Apr. 13, 1959	14.05	16,600		July 31, 1961	17.20	26,700
1960	Nov. 28, 1959	14.96	19,500				

2095. Levisa Fork at Pikeville, Ky.

Location.--Lat 37°28'35", long 82°31'05", on left bank at foot of Huffman Avenue in Pikeville, Pike County, 150 ft upstream from lower Chole Creek, 0.2 mile upstream from bridge on U.S. Highway 119, 0.5 mile upstream from Ferguson Fork, and 7.6 miles downstream from Shelby Creek.

Drainage area.--1,237 sq mi, includes that of Lower Chole Creek.

Gage.--Nonrecording prior to Sept. 23, 1944; recording thereafter. Prior to Oct. 1, 1952, at site 0.2 mile downstream (Oct. 1, 1907, to Dec. 31, 1923, at datum 1.08 ft lower than present datum; Jan. 1, 1924, to Sept. 22, 1944, at datum 1.0 ft higher than present datum; and Sept. 23, 1944, to Sept. 30, 1952, at present datum). Datum of present gage is 632.88 ft above mean sea level, datum of 1929. Gage heights given herein converted to present site and datum.

Stage-discharge relation.--Defined by current-meter measurements below 43,000 cfs and extended on basis of slope-area measurements at 50,000 cfs and 85,000 cfs.

Bankfull stage.--40 ft.

Remarks.--Peak stages for the water years 1908 to 1937 from records by the U.S. Weather Bureau. Discharges for these stages were taken from a stage-discharge relation based on measurements of discharge obtained during the period, 1937-57. Only annual peaks are listed prior to 1908. Base for partial-duration series, 15,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1862	Feburary 1862	52	a82,900	1912	Apr. 3, 1912	27.3	24,200
1903	August 1903	38.8	a44,100	1913	Mar. 27, 1913	38.3	43,000
1908	Apr. 1, 1908	25.9	22,200	1914	Mar. 31, 1914	22.7	18,100
1909	May 1, 1909	18.5	13,700	1915	Jan. 12, 1915	18.3	13,500
1910	Feb. 18, 1910	10.3	5,840	1916	Dec. 18, 1915	28.3	25,600
1911	Mar. 8, 1911	21.3	16,500		Aug. 16, 1916	24.3	20,000
	Apr. 5, 1911	22.8	18,200	1917	Jan. 5, 1917	30.3	28,800
					Feb. 20, 1917	23.3	18,800
1912	Mar. 13, 1912	23.8	19,400		Mar. 4, 1917	40.3	47,500

a Annual peak only.

Peak stages and discharges of Levisa Fork at Pikeville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Mar. 24, 1917	25.3	21,300
1918	Jan. 28, 1918	45.1	60,300
	Apr. 9, 1918	21.8	17,100
1919	Jan. 2, 1919	31.8	31,200
	Mar. 28, 1919	20.8	16,000
1920	Nov. 2, 1919	19.8	15,000
	Jan. 23, 1920	33.3	33,600
	Mar. 13, 1920	23.3	18,800
	Mar. 20, 1920	20.3	15,500
1921	May 4, 1921	15.8	11,000
1922	Feb. 21, 1922	30.8	29,600
	Mar. 11, 1922	24.8	20,600
	Mar. 15, 1922	22.3	17,600
	May 6, 1922	22.9	18,300
1923	Feb. 3, 1923	36.8	39,900
	Mar. 7, 1923	22.3	17,600
	June 13, 1923	26.8	23,400
1924	Jan. 1, 1924	23.4	18,900
	Jan. 3, 1924	20.4	15,600
	Sept. 22, 1924	28.4	25,800
1925	Dec. 9, 1924	29.4	27,300
	Jan. 1, 1925	21.4	16,600
	Jan. 12, 1925	20.4	15,600
	Feb. 16, 1925	29.9	28,100
1926	Jan. 22, 1926	25.4	21,500
	Feb. 15, 1926	21.9	17,200
	May 16, 1926	23.4	18,900
1927	Nov. 16, 1926	21.4	16,600
	Dec. 22, 1926	44.4	58,300
	Dec. 26, 1926	30.4	28,900
	Dec. 29, 1926	24.4	20,100
	Feb. 24, 1927	30.0	28,300
	Apr. 14, 1927	23.9	19,500
	Apr. 22, 1927	28.9	26,600
	May 9, 1927	20.4	15,600
	May 31, 1927	25.4	21,500
1928	Apr. 30, 1928	29.4	27,300
	May 19, 1928	28.4	25,800
1929	Nov. 20, 1928	26.4	22,900
	Feb. 27, 1929	26.3	22,700
	Mar. 6, 1929	25.3	21,300
	Mar. 23, 1929	45.0	60,000
	May 21, 1929	23.3	18,800
1930	Oct. 22, 1929	22.3	17,600
	Nov. 3, 1929	21.3	16,500
	Nov. 18, 1929	27.3	24,200
1931	Apr. 23, 1931	18.2	13,400
1932	Jan. 30, 1932	41.2	49,800
	Feb. 4, 1932	27.4	24,300
	Feb. 13, 1932	20.1	15,300
1933	Dec. 29, 1932	26.2	22,600
	Feb. 16, 1933	23.6	19,100
	Feb. 21, 1933	23.1	18,500
	Mar. 20, 1933	21.1	16,300
1934	Feb. 26, 1934	28.8	26,400
	Mar. 3, 1934	35.8	38,000
	Mar. 9, 1934	23.1	18,500
1935	Mar. 12, 1935	30.9	29,700
	Apr. 2, 1935	27.9	25,000
	May 15, 1935	22.9	18,300
1936	Jan. 20, 1936	19.9	15,100
	Feb. 5, 1936	23.4	18,900
1936	Mar. 25, 1936	30.4	28,900
	Apr. 6, 1936	32.7	32,600
1937	Jan. 3, 1937	20.9	16,100
	Jan. 16, 1937	19.9	15,100
	Jan. 19, 1937	30.7	29,400
	Jan. 25, 1937	28.5	26,000
	Feb. 9, 1937	31.7	31,000
1938	Oct. 28, 1937	20.5	15,700
	Mar. 4, 1938	25.54	22,700
	July 15, 1938	22.1	17,400
1939	Feb. 4, 1939	40.25	43,600
	Feb. 11, 1939	29.4	27,300
	Mar. 7, 1939	20.6	15,800
1940	Aug. 14, 1940	19.6	15,200
1941	Mar. 12, 1941	12.71	8,070
1942	July 9, 1942	26.3	23,700
	Aug. 9, 1942	20.8	16,000
1943	Dec. 2, 1942	22.4	17,700
	Dec. 30, 1942	31.3	30,500
	Mar. 14, 1943	28.3	25,600
	Mar. 20, 1943	25.4	21,500
	Apr. 20, 1943	30.4	28,900
1944	Feb. 18, 1944	34.40	34,800
	Feb. 29, 1944	28.2	25,500
	Mar. 20, 1944	23.7	19,200
	Apr. 12, 1944	22.7	18,100
1945	Feb. 18, 1945	31.85	31,200
	Mar. 6, 1945	22.53	18,800
	Aug. 2, 1945	21.78	17,900
1946	Jan. 8, 1946	43.30	50,300
	Feb. 11, 1946	23.51	20,100
1947	Jan. 16, 1947	24.74	21,800
	Jan. 21, 1947	24.37	21,400
1948	Feb. 14, 1948	36.65	39,400
	Mar. 17, 1948	25.52	22,900
	Mar. 28, 1948	20.32	16,000
	Apr. 8, 1948	28.24	26,700
	Apr. 15, 1948	22.36	18,600
1949	Dec. 4, 1948	22.48	18,800
	Mar. 19, 1949	27.05	25,100
1950	Dec. 14, 1949	24.66	21,700
	Feb. 2, 1950	38.06	41,700
	May 13, 1950	27.80	17,900
	May 15, 1950	22.72	19,100
1951	Dec. 4, 1950	26.30	22,500
	Dec. 8, 1950	24.55	20,100
	Feb. 2, 1951	27.23	23,800
1952	Jan. 23, 1952	27.83	24,600
	Jan. 29, 1952	20.19	15,300
	Mar. 23, 1952	30.60	28,900
	Apr. 28, 1952	27.36	23,900
1953	Feb. 22, 1953	24.29	20,000
	May 20, 1953	37.77	40,900
1954	Jan. 23, 1954	16.20	11,400
1955	Feb. 7, 1955	23.23	18,700
	Feb. 28, 1955	38.63	42,400
	Mar. 7, 1955	39.05	43,100
	Mar. 17, 1955	37.12	39,800
	Mar. 19, 1955	24.44	20,200
	Mar. 22, 1955	23.09	18,500
1956	Feb. 18, 1956	31.04	30,000

Peak stages and discharges of Levisa Fork at Pikeville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Mar. 9, 1956	25.28	21,300	1958	Aug. 25, 1958	23.83	19,400
	Mar. 15, 1956	22.68	18,000				
	Apr. 16, 1956	39.30	45,200	1959	Jan. 22, 1959	24.53	20,300
1957	Jan. 30, 1957	52.72	85,500		Apr. 13, 1959	24.62	20,400
	Feb. 2, 1957	27.80	24,900	1960	Nov. 28, 1959	25.58	21,700
	Feb. 10, 1957	27.90	25,000				
				1961	Feb. 26, 1961	29.92	28,200
1958	Apr. 29, 1958	20.10	15,300		July 31, 1961	30.57	29,200
	May 7, 1958	42.79	53,900				

2100. Johns Creek near Meta, Ky.

Location.--Lat 37°33'50", long 82°27'20", on left bank 100 ft upstream from Ford Branch, 1,200 ft upstream from bridge on U.S. Highway 119, 0.9 mile upstream from Raccoon Creek, and 1.1 miles southwest of Meta, Pike County.

Drainage area.--55.8 sq mi.

Gage.--Recording. Datum of gage is 717.66 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended on basis of contracted-opening measurement of 4,680 cfs.

Remarks.--Base for partial-duration series, 1,600 cfs. Only annual peaks are listed prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	-	11.5	3,190	1952	Dec. 21, 1951	9.53	1,640
1939	Feb. 3, 1939	13.6	4,500		Jan. 22, 1952	10.32	1,990
					Mar. 22, 1952	10.87	2,330
1942	June 20, 1942	9.69	2,160				
	Aug. 9, 1942	9.03	1,810	1953	Feb. 21, 1953	7.24	900
1943	Dec. 30, 1942	9.60	2,100	1954	Jan. 16, 1954	6.75	780
	Mar. 20, 1943	9.20	1,900				
	Apr. 19, 1943	10.75	2,740	1955	Feb. 27, 1955	14.28	4,480
					Mar. 6, 1955	11.48	2,670
1944	Feb. 29, 1944	10.17	2,420		Mar. 16, 1955	13.50	3,930
	Mar. 19, 1944	9.23	1,900		Mar. 22, 1955	9.91	1,790
	Apr. 11, 1944	9.95	2,300				
				1956	Feb. 18, 1956	12.68	3,390
1945	Feb. 17, 1945	8.56	1,630		Mar. 8, 1956	11.92	2,930
	Mar. 5, 1945	13.14	4,350		Mar. 14, 1956	12.83	3,480
	Aug. 2, 1945	12.12	3,610		Apr. 15, 1956	12.38	3,210
1946	Jan. 7, 1946	13.01	4,270	1957	Jan. 9, 1957	11.83	2,880
					Jan. 29, 1957	14.54	4,680
1947	Jan. 20, 1947	8.46	1,580		Feb. 10, 1957	9.67	1,700
					Apr. 8, 1957	10.03	1,840
1948	Feb. 13, 1948	13.14	4,350				
	Mar. 23, 1948	10.82	2,740	1958	Apr. 28, 1958	11.22	2,510
	Apr. 7, 1948	11.48	3,190		May 7, 1958	12.44	3,240
	Apr. 14, 1948	11.07	2,920				
				1959	June 2, 1959	8.85	1,370
1949	Mar. 18, 1949	8.97	1,420				
				1960	Nov. 28, 1959	8.98	1,420
1950	Feb. 2, 1950	10.83	2,240				
				1961	July 30, 1961	12.00	2,980
1951	Dec. 4, 1950	9.79	1,750				
	Feb. 1, 1951	12.32	3,170				

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2115. Johns Creek near Van Lear, Ky.

Location.--Lat 37°44'37", long 82°43'27", 100 ft upstream from Long Branch, 0.3 mile upstream from Daniels Creek, 0.5 mile downstream from Dewey Dam and 2½ miles southeast of Van Lear, Johnson County.

Drainage area.--206 sq mi.

Gage.--Nonrecording prior to Aug. 14, 1940; recording thereafter. At site 5½ miles upstream at different datum prior to Oct. 1, 1939. Datum of gage is 597.28 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs at present site and below 5,500 cfs at former site. Periods of backwater from debris in channel, tributary inflow, and high stages of Levisa Fork.

Remarks.--Stages for the 1897, 1918, and 1935 floods were estimated on the basis of Corps of Engineers high-water profiles. Discharges given herein converted to present site. Flow regulated by Dewey Reservoir since May 1950. Only annual peaks are listed prior to 1940 and after 1950. Base for partial-duration series, 2,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	-	27.6	-	1946	Jan. 9, 1946	26.50	8,350
1918	March 1918	23.4	a7,000	1947	Jan. 21, 1947	13.70	2,670
1935	-	23.6	a7,000	1948	Feb. 14, 1948	25.22	7,010
					Mar. 25, 1948	13.67	2,670
1938	Aug. 5, 1938	21.22	a5,500		Apr. 8, 1948	21.54	5,840
1939	Feb. 4, 1939	25.71	a8,500		Apr. 13, 1948	18.96	4,680
1940	Apr. 20, 1940	13.1	2,510	1949	Mar. 19, 1949	11.9	2,080
1941	Mar. 12, 1941	7.51	848	1950	Feb. 3, 1950	22.55	5,170
1942	July 2, 1942	14.9	3,080	1951	Feb. 7, 1951	15.12	3,180
	July 12, 1942	13.5	2,640	1952	Mar. 26, 1952	14.97	3,120
	Aug. 6, 1942	16.61	3,350	1953	May 22, 1953	b14.10	1,730
				1954	Mar. 4, 1954	8.25	1,120
1943	Dec. 31, 1942	20.01	4,520	1955	Mar. 1, 1955	21.77	-
	Mar. 14, 1943	14.71	2,710		Mar. 22, 1955	17.45	4,100
	Mar. 20, 1943	20.33	4,640				
	Apr. 20, 1943	21.50	5,120	1956	Apr. 17, 1956	18.39	4,490
				1957	Jan. 30, 1957	27.88	-
1944	Feb. 19, 1944	14.19	2,840		Feb. 14, 1957	14.96	3,150
	Mar. 1, 1944	17.28	4,010	1958	May 8, 1958	22.49	-
	Mar. 21, 1944	15.86	3,470		May 11, 1958	13.01	2,510
	Apr. 13, 1944	18.53	4,480	1959	Jan. 23, 1959	12.58	2,380
				1960	Feb. 7, 1960	11.94	2,170
1945	Feb. 18, 1945	14.54	2,950				
	Mar. 6, 1945	20.52	5,350	1961	Aug. 2, 1961	13.79	2,760

a About.
b Occurred on previous day.

2120. Paint Creek at Staffordsville, Ky.

Location.--Lat 37°50'05", long 82°52'15", near center of span on downstream side of bridge on U.S. Highway 460, 100 ft downstream from Barnetts Creek, 0.8 mile upstream from Mudlick Creek, 1.7 miles west of Staffordsville, Johnson County, 4 miles upstream from Jenny Creek, and 7.6 miles upstream from mouth.

Drainage area.--103 sq mi.

Gage.--Nonrecording and crest-stage gage. Datum of gage is 600.96 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs.

Bankfull stage.--10 ft.

Historical data.--Flood of 1925 or 1927 reached about same stage as flood July 5, 1939.

Remarks.--Base for partial-duration series, 2,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	July 5, 1939	a25	-	1956	Feb. 18, 1956	20.33	7,360
					Mar. 14, 1956	18.81	5,870
1950	Sept.20, 1950	24.07	11,700		Apr. 15, 1956	15.88	3,790
1951	Nov. 4, 1950	14.70	3,200	1957	Dec. 14, 1956	20.90	7,990
	Feb. 1, 1951	21.38	8,520		Jan. 29, 1957	16.50	4,150
					Feb. 10, 1957	14.30	3,140
1952	Dec. 8, 1951	14.72	3,210		Apr. 8, 1957	14.33	3,150
	Mar. 22, 1952	24.11	11,700				
	May 20, 1952	17.89	5,090	1958	Apr. 28, 1958	18.00	5,180
					May 7, 1958	19.19	6,210
1953	Jan. 8, 1953	15.20	3,450				
				1959	Apr. 11, 1959	11.00	1,970
1954	May 8, 1954	6.60	920				
				1960	Feb. 11, 1960	9.00	1,440
1955	Feb. 6, 1955	14.0	2,900				
	Feb. 28, 1955	15.22	3,460	1961	Jan. 15, 1961	14.40	3,180
	Mar. 6, 1955	15.27	3,480		May 7, 1961	13.79	2,940
	Mar. 22, 1955	15.48	3,590		July 30, 1961	31.41	17,400

a About; from information by local residents.

2125. Levisa Fork at Paintsville, Ky.

Location.--Lat 37°48'55", long 82°47'30", on left bank 700 ft downstream from bridge on State Highway 40, at Paintsville, Johnson County, and 900 ft downstream from Paint Creek.

Drainage area.--2,143 sq mi.

Gage.--Nonrecording prior to Apr. 6, 1940, and Oct. 24, 1953, to Oct. 19, 1954; recording Apr. 6, 1940, to Oct. 23, 1953, and after Oct. 19, 1954. Prior to Oct. 20, 1954, at former bridge 400 ft upstream at present datum. Datum of gage is 566.84 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements for 1918 flood, and below 54,000 cfs after 1928.

Bankfull stage.--40 ft.

Remarks.--Base for partial-duration series, 18,000 cfs. Only annual peaks are shown prior to 1945.

Peak stages and discharges of Levisa Fork at Paintsville, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1862	February 1862	46.6	-	1950	May 16, 1950	23.09	20,200
1918	Jan. 29, 1918	42.0	69,000	1951	Dec. 5, 1950	24.41	21,800
					Dec. 9, 1950	22.72	19,800
1929	Mar. 24, 1929	42.0	60,500		Feb. 2, 1951	31.59	31,700
1930	Nov. 19, 1929	27.18	28,100				
				1952	Dec. 22, 1951	22.04	18,900
1931	Apr. 23, 1931	19.02	16,400		Jan. 24, 1952	26.10	23,800
1932	Jan. 31, 1932	37.37	50,700		Jan. 28, 1952	23.13	20,300
1933	Feb. 21, 1933	24.13	25,900		Mar. 24, 1952	31.83	32,200
1934	Mar. 4, 1934	36.60	49,100		Apr. 29, 1952	24.55	22,000
1935	Mar. 13, 1935	35.14	49,100				
				1953	Feb. 23, 1953	22.27	19,200
1936	Apr. 7, 1936	33.46	45,600		May 21, 1953	32.43	33,400
1937	Jan. 19, 1937	30.4	38,900				
1938	Mar. 4, 1938	27.4	31,100	1954	Jan. 17, 1954	16.8	12,700
1939	Feb. 4, 1939	42.15	62,300				
1940	Apr. 21, 1940	19.51	17,800	1955	Feb. 8, 1955	23.2	20,300
					Mar. 1, 1955	41.36	53,900
1941	Mar. 12, 1941	15.82	12,400		Mar. 7, 1955	36.20	41,000
1942	July 10, 1942	25.41	26,500		Mar. 17, 1955	35.10	38,700
1943	Apr. 20, 1943	32.25	37,800		Mar. 23, 1955	26.26	24,000
1944	Feb. 19, 1944	29.65	32,400				
				1956	Feb. 19, 1956	32.26	33,000
1945	Feb. 18, 1945	29.00	31,300		Mar. 9, 1956	26.91	24,900
	Mar. 1, 1945	21.29	19,000		Mar. 15, 1956	29.23	27,900
	Mar. 6, 1945	29.20	31,700		Apr. 17, 1956	36.81	42,500
1946	Jan. 9, 1946	41.06	58,300	1957	Jan. 11, 1957	22.49	19,500
	Feb. 12, 1946	22.03	20,000		Jan. 31, 1957	45.92	69,700
					Feb. 11, 1957	31.67	31,800
1947	Jan. 4, 1947	21.10	18,600		Apr. 9, 1957	22.67	19,700
	Jan. 17, 1947	23.47	22,200				
	Jan. 21, 1947	25.29	25,000	1958	Apr. 29, 1958	26.41	24,200
					May 8, 1958	41.06	53,200
1948	Feb. 15, 1948	39.15	53,800				
	Mar. 18, 1948	23.06	21,600	1959	Jan. 23, 1959	23.62	20,800
	Mar. 28, 1948	21.95	20,000		Apr. 14, 1959	23.94	21,200
	Apr. 9, 1948	31.90	37,200				
	Apr. 13, 1948	26.57	27,100	1960	Nov. 29, 1959	22.04	18,900
1949	Mar. 19, 1949	25.96	26,100	1961	Feb. 27, 1961	27.42	25,500
					July 30, 1961	22.54	19,500
1950	Dec. 15, 1949	23.29	20,400		Aug. 2, 1961	23.77	21,000
	Feb. 3, 1950	38.88	47,700				

2130. Tug Fork at Litwar, W. Va.

Location.--Lat 37°29'05", long 81°50'40", on left bank 200 ft downstream from War Branch, 0.5 mile downstream from Litwar, McDowell County, 2.2 miles northwest of Iaeger, and 2.7 miles downstream from Dry Fork.

Drainage area.--502 sq mi.

Gage.--Nonrecording prior to Oct. 16, 1942; recording thereafter. At site 0.5 mile upstream at same datum prior to Oct. 16, 1942. Datum of gage is 936.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges of Tug Fork at Litwar, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Apr. 1, 1931	9.18	5,630
1932	Jan. 30, 1932	11.78	9,770
	Feb. 4, 1932	11.00	8,430
	Feb. 12, 1932	10.00	6,830
	Mar. 28, 1932	10.30	7,310
	May 13, 1932	11.00	8,430
1933	Dec. 28, 1932	10.36	7,470
	Feb. 15, 1933	10.55	7,790
	Mar. 21, 1933	10.30	7,310
1934	Feb. 26, 1934	11.80	9,770
	Mar. 3, 1934	14.78	16,000
	Mar. 8, 1934	11.42	9,100
	Mar. 20, 1934	9.64	6,210
	Mar. 28, 1934	10.20	7,150
1935	Jan. 17, 1935	9.82	6,520
	Jan. 23, 1935	13.0	12,000
	Feb. 26, 1935	9.8	6,520
	Mar. 12, 1935	10.0	6,830
	Mar. 25, 1935	19.0	27,600
	Apr. 1, 1935	15.9	18,800
	May 15, 1935	9.98	6,830
1936	Jan. 3, 1936	9.83	6,530
	Jan. 19, 1936	9.91	6,680
	Feb. 4, 1936	9.55	6,230
	Apr. 6, 1936	13.73	13,100
1937	Dec. 7, 1936	10.6	7,790
	Jan. 2, 1937	9.6	6,230
	Jan. 18, 1937	9.9	6,680
	Jan. 25, 1937	11.5	9,280
	Feb. 9, 1937	12.56	11,200
1938	Oct. 28, 1937	12.7	11,300
	Mar. 3, 1938	14.0	13,600
	June 20, 1938	9.47	6,080
1939	Feb. 3, 1939	12.9	11,700
	Feb. 11, 1939	11.0	8,430
	Mar. 6, 1939	10.3	7,310
1940	Aug. 31, 1940	7.8	3,850
1941	Mar. 11, 1941	10.3	7,310
1942	June 20, 1942	9.1	5,490
1943	Dec. 30, 1942	8.20	8,930
	Jan. 29, 1943	6.81	6,210
	Mar. 13, 1943	10.58	14,000
1944	Feb. 18, 1944	11.46	15,800
	Feb. 29, 1944	7.46	8,300
	Mar. 20, 1944	7.91	8,330
1944	Apr. 12, 1944	7.53	8,300
1945	Feb. 17, 1945	13.20	19,400
	Mar. 5, 1945	10.10	12,900
	May 29, 1945	7.36	8,020
1946	Jan. 7, 1946	13.36	19,800
	Feb. 11, 1946	7.37	8,020
	Mar. 19, 1946	8.50	9,550
1947	Jan. 16, 1947	7.68	7,930
1948	Feb. 13, 1948	10.06	12,900
	Mar. 17, 1948	7.35	7,330
	Apr. 1, 1948	9.23	11,000
1949	Dec. 4, 1948	8.21	8,930
	Mar. 18, 1949	7.65	7,730
1950	Jan. 31, 1950	8.32	9,130
	Feb. 2, 1950	13.70	20,500
1951	Dec. 4, 1950	6.55	6,110
	Dec. 8, 1950	6.77	6,720
1952	Jan. 22, 1952	8.00	8,530
	Mar. 23, 1952	6.90	6,970
	Apr. 28, 1952	10.00	12,700
1953	Feb. 21, 1953	6.65	6,480
	May 19, 1953	11.75	16,500
1954	May 15, 1954	6.95	6,480
	July 21, 1954	10.70	14,200
1955	Feb. 7, 1955	6.92	6,390
	Feb. 27, 1955	13.95	21,100
	Mar. 6, 1955	14.90	23,000
	Mar. 16, 1955	13.24	19,400
	Mar. 18, 1955	6.98	6,570
1956	Feb. 18, 1956	6.68	6,030
	Apr. 16, 1956	10.50	13,500
1957	Jan. 29, 1957	21.60	35,700
	Feb. 2, 1957	7.93	8,560
	Feb. 9, 1957	8.33	9,360
1958	Mar. 31, 1958	7.52	7,520
	May 6, 1958	10.60	13,700
	Aug. 25, 1958	11.78	16,100
1959	Apr. 12, 1959	8.08	8,700
1960	Nov. 28, 1959	5.90	4,660
1961	Feb. 25, 1961	8.24	8,900

2135. Panther Creek near Panther, W. Va.

Location.--Lat 37°26'45", long 81°52'15", on left bank 200 ft downstream from Cub Branch, 2.1 miles upstream from Trace Fork, and 3 miles southwest of Panther, McDowell County.

Drainage area.--30.8 sq mi.

Gage.--Recording. Altitude of gage is 1,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges of Panther Creek near Panther, W. Va.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 20, 1947	4.97	576	1955	Mar. 6, 1955	8.98	4,200
					Mar. 16, 1955	7.63	2,380
1948	Feb. 13, 1948	7.47	1,700				
	Mar. 23, 1948	7.23	1,550	1956	Feb. 18, 1956	6.14	1,100
	Mar. 27, 1948	5.41	744		Mar. 8, 1956	6.37	1,210
	Apr. 7, 1948	6.02	990		Mar. 14, 1956	5.43	738
	Apr. 14, 1948	5.45	764		Apr. 15, 1956	7.14	1,670
					July 25, 1956	5.48	760
1949	Dec. 3, 1948	5.86	927		July 28, 1956	6.48	1,300
	Mar. 18, 1949	5.88	948				
				1957	Jan. 9, 1957	5.44	733
1950	Jan. 30, 1950	6.16	1,060		Jan. 29, 1957	9.50	4,900
	Feb. 2, 1950	6.85	1,350		Feb. 1, 1957	6.08	1,030
	July 26, 1950	5.35	725		Feb. 9, 1957	6.08	1,030
1951	Feb. 1, 1951	5.82	906	1958	Jan. 25, 1958	5.45	710
					Mar. 31, 1958	5.69	820
1952	Jan. 22, 1952	5.34	725		May 7, 1958	6.60	1,350
	Mar. 23, 1952	6.40	1,170		Aug. 25, 1958	6.51	1,280
	Apr. 28, 1952	6.58	1,260				
				1959	Jan. 22, 1959	6.98	1,660
1953	Feb. 21, 1953	5.47	764		Apr. 12, 1959	6.35	1,180
	May 19, 1953	6.63	1,260				
				1960	Nov. 28, 1959	5.67	798
1954	Jan. 22, 1954	4.71	492				
				1961	Feb. 25, 1961	6.74	1,460
1955	Feb. 7, 1955	5.62	824		May 1, 1961	5.62	775
	Feb. 28, 1955	8.56	3,570		May 12, 1961	7.16	1,810

2137. Tug Fork at Williamson, W. Va.

Location.--Lat 37°40'15", long 82°16'44", on right bank at end of Pike Street, Williamson, Mingo County, 0.7 mile downstream from Pond Creek.

Drainage area.--941 sq mi, determined by U.S. Weather Bureau.

Gage.--Nonrecording. June 24, 1910, to May 9, 1942, at site 1,800 ft upstream on highway at Prichard Street at datum 620.9 ft above mean sea level, Geological Survey datum. Datum of present gage not determined.

Bankfull stage.--40 ft.

Remarks.--Zero of gage remained about the same 1897 to 1942. Gage readings of all locations are comparable. Records furnished by U.S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	June 1875	42	-	1928	Apr. 30, 1928	18.7	-
				1929	Mar. 24, 1929	29.5	-
1901	June 1901	31	-	1930	Nov. 18, 1929	18.6	-
1908	April 1908	35.0	-	1931	Mar. 29, 1931	11.8	-
				1932	Feb. 4, 1932	b18.6	-
1913	Mar. 27, 1913	30.4	-	1933	Feb. 16, 1933	14.1	-
1914a/	Feb. 20, 1914	b14.2	-	1934	Mar. 3, 1934	27.3	-
1915	Jan. 12, 1915	14.0	-	1935	Mar. 26, 1935	33.00	-
1916	Dec. 19, 1915	15.6	-	1936	Apr. 6, 1936	25.00	-
1917	Mar. 4, 1917	30.8	-	1937	Feb. 10, 1937	21.0	-
1918	Jan. 29, 1918	38.3	-	1938	June 20, 1938	23.0	-
1919	Jan. 2, 1919	24.6	-	1939	Feb. 3, 1939	28.85	-
1920	Jan. 23, 1920	b23.4	-	1940	Sept. 1, 1940	b9.02	-
1921	May 5, 1921	b9.5	-	1941	Mar. 12, 1941	b11.4	-
1922	Nov. 28, 1921	23.5	-	1942a/	Mar. 10, 1942	b10.49	-
1923	Feb. 3, 1923	25.2	-				
1924	Sept.22, 1924	26.0	-	1955	Mar. 1, 1955	36.96	-
1925	Feb. 16, 1925	b16.4	-				
				1956	Apr. 6, 1956	31.8	-
1926a/	Jan. 22, 1926	b18.7	-	1957	Jan. 30, 1957	c43.7	-
1927a/	Dec. 22, 1926	34.0	-	1958	May 7, 1958	36.3	-

a Partial year.
b Maximum observed.
c From water company readings.

2140. Tug Fork near Kermit, W. Va.

Location.--Lat 37°49'05", long 82°23'20", on right bank 2 miles upstream from Wolf Creek, 3 miles upstream from Kermit, Mingo County, and 3 miles downstream from Pigeon Creek.

Drainage area.--1,185 sq mi.

Gage.--Recording. Datum of gage is 581.82 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 29,000 cfs and extended on basis of slope-area measurement at 61,300 cfs.

Historical data.--Stage of about 43.3 ft was reached on unknown date prior to 1915.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 23, 1935	18.44	12,200
	Mar. 12, 1935	29.22	24,900
	Mar. 26, 1935	35.75	34,200
	Apr. 2, 1935	26.78	21,700
	May 15, 1935	24.73	19,100
1936	Jan. 4, 1936	16.39	10,200
	Feb. 5, 1936	17.64	11,400
	Mar. 22, 1936	17.62	11,400
	Mar. 25, 1936	19.13	12,900
	Apr. 7, 1936	28.28	23,700
1937	Jan. 19, 1937	21.20	15,100
	Jan. 21, 1937	18.19	12,000
	Jan. 26, 1937	21.51	15,400
	Feb. 10, 1937	22.65	16,700
1938	Oct. 28, 1937	22.02	16,000
	Mar. 4, 1938	25.75	20,500
	June 20, 1938	23.70	17,900
	Aug. 5, 1938	16.89	10,700
	Aug. 12, 1938	21.23	15,100
1939	Feb. 3, 1939	35.9	34,400
	Feb. 11, 1939	20.90	14,800
	Mar. 7, 1939	18.78	12,600
1940	Apr. 20, 1940	13.26	7,370
1941	Mar. 12, 1941	14.75	8,720
1942	Aug. 5, 1942	18.95	12,800
1943	Dec. 2, 1942	18.53	12,300
	Dec. 30, 1942	30.75	27,000
	Jan. 29, 1943	18.08	11,900
	Mar. 14, 1943	23.73	17,900
	Mar. 20, 1943	25.31	19,900
	Apr. 20, 1943	25.31	19,900
1944	Feb. 18, 1944	22.03	16,000
	Feb. 29, 1944	20.44	14,200
	Mar. 20, 1944	22.53	16,600
	Apr. 12, 1944	23.23	17,300
1945	Jan. 1, 1945	16.66	10,100
	Feb. 18, 1945	26.34	21,100
	Feb. 28, 1945	17.22	10,600
	Mar. 6, 1945	28.52	24,000
	May 30, 1945	17.07	10,500
	Aug. 2, 1945	18.45	11,800
1946	Jan. 8, 1946	33.88	31,400
	Feb. 11, 1946	18.12	11,500
	Mar. 19, 1946	16.65	10,000
1947	Jan. 16, 1947	17.91	11,300
	Jan. 21, 1947	18.68	12,200
1948	Feb. 14, 1948	33.73	31,100
1948	Mar. 16, 1948	17.42	10,800
	Mar. 24, 1948	18.53	12,000
	Mar. 28, 1948	18.53	12,000
	Apr. 15, 1948	26.15	20,700
1949	Dec. 4, 1948	20.20	13,500
	Feb. 17, 1949	17.50	10,400
	Mar. 19, 1949	21.08	14,500
1950	Dec. 14, 1949	18.72	11,900
	Feb. 2, 1950	34.16	31,800
	May 16, 1950	17.06	10,200
	July 27, 1950	20.83	14,200
	Sept.22, 1950	18.1	11,200
1951	Dec. 4, 1950	22.00	15,600
	Dec. 8, 1950	18.21	11,300
	Feb. 1, 1951	30.90	27,200
1952	Dec. 21, 1951	18.30	11,200
	Jan. 23, 1952	22.41	15,900
	Jan. 28, 1952	21.92	15,300
	Mar. 23, 1952	30.42	26,500
	Apr. 29, 1952	24.30	18,200
1953	Feb. 22, 1953	18.52	11,400
	May 20, 1953	25.27	19,500
1954	July 22, 1954	21.43	14,400
1955	Feb. 28, 1955	40.6	44,600
	Mar. 7, 1955	36.68	33,000
	Mar. 17, 1955	33.46	28,200
	Mar. 22, 1955	18.67	10,400
1956	Feb. 18, 1956	29.20	22,100
	Mar. 8, 1956	25.29	17,200
	Mar. 14, 1956	30.40	23,800
	Apr. 15, 1956	34.70	30,000
1957	Jan. 10, 1957	26.82	19,000
	Jan. 30, 1957	43.88	61,300
	Feb. 2, 1957	27.82	20,300
	Feb. 10, 1957	30.00	23,200
	Apr. 9, 1957	18.98	10,700
1958	Feb. 8, 1958	18.40	10,200
	Apr. 1, 1958	20.22	11,800
	Apr. 28, 1958	25.57	17,500
	May 7, 1958	41.25	46,800
	Aug. 26, 1958	20.67	12,300
1959	Jan. 22, 1959	20.78	12,400
	Apr. 13, 1959	22.96	14,600
1960	Nov. 29, 1959	16.98	8,900
1961	Feb. 26, 1961	25.17	17,000

2145. Tug Fork at Kermit, W. Va.

Location.--Lat 37°50'15", long 82°24'35", at highway bridge at Kermit, Mingo County, 1 mile downstream from Wolf Creek and 2 miles upstream from Marrowbone Creek.

Drainage area.--1,240 sq mi.

Gage.--Nonrecording. At datum 0.2 ft lower Dec. 21, 1928, to July 27, 1932. Datum of gage is 574.77 ft above mean sea level, datum of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 36,000 cfs and extended on basis of logarithmic plotting.

Remarks.--Base for partial-duration series, 10,000 cfs. Prior to Sept. 30, 1920, base data furnished by Corps of Engineers. Gage-height records collected at same site since 1925 are contained in reports of the U.S. Weather Bureau. Peaks prior to 1918 are daily mean discharges.

Peak stages and discharges a/

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915b/	June 2, 1915	6.10	2,280	1929	Mar. 5, 1929	23.0	17,200
					Mar. 24, 1929	34.00	34,700
1916	Dec. 18, 1915	21.25	20,600		May 21, 1929	17.4	10,600
	Dec. 30, 1915	16.35	13,500				
	Jan. 8, 1916	13.95	10,300	1930	Nov. 18, 1929	26.00	21,500
	Jan. 12, 1916	14.0	10,300				
	Mar. 8, 1916	14.15	10,600	1931	Mar. 28, 1931	18.00	11,200
1917	Dec. 29, 1916	17.30	14,700	1932	Jan. 31, 1932	30.61	28,900
	Jan. 5, 1917	20.70	19,800		Feb. 4, 1932	30.00	27,900
	Feb. 21, 1917	17.50	15,000		Feb. 13, 1932	18.30	11,600
	Feb. 25, 1917	17.80	15,400		Mar. 29, 1932	22.00	16,000
	Mar. 5, 1917	29.75	34,300				
	Mar. 8, 1917	14.60	11,100	1933	Feb. 16, 1933	19.00	12,600
	Mar. 13, 1917	16.00	12,900		Feb. 20, 1933	20.50	14,300
	Mar. 18, 1917	14.75	11,300		Mar. 15, 1933	19.22	12,800
	Mar. 24, 1917	20.25	19,000		Mar. 20, 1933	18.80	12,400
1918	Jan. 29, 1918	38.8	c51,400		May 10, 1933	17.60	11,000
1919	Jan. 2, 1919	26.4	-	1934	Feb. 26, 1934	18.86	12,500
					Mar. 3, 1934	33.46	34,200
1920	Jan. 23, 1920	29.5	-		Mar. 9, 1934	22.80	17,200
					Mar. 21, 1934	18.20	11,700
1929b/	Feb. 26, 1929	25.30	20,400		Mar. 28, 1934	17.60	11,000

a Peaks prior to 1918 are daily mean discharges. b Partial year. c Annual peak only.

2150. Big Sandy River at Louisa, Ky.

Location.--Lat 38°10'16", long 82°38'05", on left bank 1.6 miles upstream from Blaine Creek, 4.3 miles northwest of Louisa, Lawrence County, and at mile 21.2.

Drainage area.--3,892 sq mi.

Gage.--Nonrecording prior to May 20, 1940; recording thereafter. At site 5.0 miles upstream at datum 3.65 ft higher prior to Nov. 10, 1951. Datum of gage is 512.81 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage prior to Feb. 21, 1940; recording thereafter. Prior to Nov. 10, 1951, at site 1.6 miles downstream from present base gage; since Nov. 10, 1951, at site 5.0 miles upstream from present base gage.

Stage-discharge relation.--Defined by discharge measurements. Subject to backwater from Ohio River.

Remarks.--Maximum stage and discharge frequently occur at different times. Base for partial-duration series, 25,000 cfs. Only annual peaks shown prior to 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Apr. 3, 1908	48.4	-	1942	July 10, 1942	23.0	29,700
				1943	Jan. 1, 1943	41.64	63,700
1939	Feb. 5, 1939	48.0	a85,000	1944	Apr. 13, 1944	33.7	47,500
1940	Apr. 21, 1940	29.0	24,000	1945	Mar. 7, 1945	40.8	57,000
1941	Mar. 13, 1941	20.04	24,400	1946	Jan. 9, 1946	41.4	69,500

a About.

Peak stages and discharges of Big Sandy River at Louisa, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 22, 1947	28.2	36,100	1955	Mar. 23, 1955	28.92	42,500
1948	Feb. 15, 1948	41.67	70,200				
1949	Mar. 20, 1949	26.8	a35,000	1956	Feb. 5, 1956	24.76	31,400
1950	Feb. 3, 1950	47.54	a83,000		Feb. 19, 1956	36.43	57,200
					Mar. 10, 1956	31.18	36,200
1951	Feb. 2, 1951	37.03	55,900		Mar. 15, 1956	36.52	48,400
					Apr. 17, 1956	36.34	62,100
1952	Dec. 16, 1951	23.02	26,500				
	Dec. 22, 1951	24.58	29,700	1957	Dec. 15, 1956	25.90	25,900
	Jan. 24, 1952	27.45	35,700		Jan. 11, 1957	27.81	39,500
	Jan. 29, 1952	33.35	35,400		Jan. 31, 1957	44.43	84,900
	Mar. 24, 1952	38.25	58,900		Feb. 11, 1957	36.83	52,800
	Apr. 29, 1952	27.82	37,200		Apr. 10, 1957	29.72	28,000
1953	Feb. 23, 1953	23.38	27,500	1958	Apr. 29, 1958	31.94	39,100
	Mar. 5, 1953	23.82	26,900		May 8, 1958	46.37	77,900
	May 21, 1953	30.47	44,100				
1954	Jan. 24, 1954	16.82	15,400	1959	Apr. 14, 1959	27.39	27,100
1955	Feb. 8, 1955	27.35	34,500	1960	Nov. 30, 1959	21.28	23,300
	Mar. 2, 1955	46.36	89,400		Apr. 7, 1960	21.55	-
	Mar. 8, 1955	46.18	71,600				
	Mar. 18, 1955	37.88	62,700	1961	Feb. 27, 1961	31.80	39,000

a About.

2155. Blaine Creek at Yatesville, Ky.

Location.--Lat 38°08'40", long 82°41'05" on upstream wall near center of span of covered bridge at Yatesville, Lawrence County, 5 miles northwest of Louisa, 5.8 miles upstream from Cat Creek, and 10.2 miles downstream from Little Blaine Creek.

Drainage area.--217 sq mi.

Gage.--Nonrecording. At site 50 ft upstream at datum 0.45 ft higher, 1915-20. From 1938 to December 25, 1945, at site 130 ft upstream at present datum. Datum of gage is 561.57 ft above mean sea level, unadjusted. Gage heights given herein converted to present datum.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs.

Bankfull stage.--25 ft.

Historical data.--Maximum stage known, 27.6 ft, present site and datum, sometime prior to April 1915.

Remarks.--Base for partial-duration series, 4,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	17.4	7,060	1920	Mar. 19, 1920	17.4	7,060
	Dec. 29, 1915	13.2	4,750		Apr. 21, 1920	13.4	4,860
	Jan. 13, 1916	14.8	5,630				
	Mar. 29, 1916	13.9	5,140	1938	Aug. 5, 1938	20.35	a8,220
	June 19, 1916	12.2	4,220				
				1939	Jan. 30, 1939	17.35	5,720
1917	Jan. 22, 1917	18.4	7,610		Feb. 4, 1939	26.55	15,500
	Feb. 28, 1917	14.4	5,410		Mar. 6, 1939	18.10	6,280
	Mar. 24, 1917	16.1	6,340		July 6, 1939	16.25	4,970
	June 2, 1917	14.4	5,410				
	Sept. 8, 1917	12.4	4,320	1940	Apr. 20, 1940	14.75	4,120
1918	Jan. 28, 1918	15.4	5,960	1941	July 19, 1941	11.64	2,620
1919	Jan. 1, 1919	18.4	7,610	1942	Aug. 24, 1942	20.0	7,860
	May 10, 1919	14.6	5,520				
				1943	Dec. 31, 1942	19.3	7,240
1920	Nov. 2, 1919	16.3	6,460		Mar. 20, 1943	16.5	5,120
	Nov. 27, 1919	14.1	5,240		Apr. 20, 1943	17.0	5,470
	Dec. 7, 1919	19.4	8,260				
	Dec. 14, 1919	13.8	5,080	1944	Apr. 12, 1944	17.1	5,540
	Jan. 9, 1920	22.4	10,300				
	Jan. 22, 1920	16.8	6,730	1945	Jan. 1, 1945	15.6	4,580

a Annual peak only.

Peak stages and discharges of Blaine Creek at Yatesville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 1, 1945	16.0	4,820	1952	Jan. 28, 1952	16.45	5,090
					Mar. 23, 1952	23.23	11,200
1946	Jan. 8, 1946	15.23	4,360		May 21, 1952	17.58	5,880
	June 3, 1946	20.65	8,400				
				1953	Jan. 9, 1953	15.51	4,530
1947	Jan. 16, 1947	11.1	2,460				
				1954	May 8, 1954	8.8	1,710
1948	Feb. 14, 1948	18.3	6,440				
	Apr. 14, 1948	21.1	8,900	1955	Feb. 7, 1955	16.0	4,820
					Mar. 1, 1955	17.0	5,470
1949	Feb. 15, 1949	14.8	4,120		Mar. 6, 1955	21.0	8,800
1950	Jan. 6, 1950	16.75	5,300	1956	Feb. 16, 1956	17.51	5,830
	Jan. 13, 1950	15.8	4,700		Feb. 19, 1956	19.33	7,260
	Feb. 1, 1950	23.2	11,200		Mar. 15, 1956	17.92	6,140
	June 4, 1950	15.95	4,790		Apr. 16, 1956	16.37	5,040
	June 20, 1950	19.4	7,320				
	Sept.22, 1950	18.7	6,780	1957	Dec. 15, 1956	22.55	9,720
					Jan. 30, 1957	16.05	4,320
1951	Nov. 4, 1950	15.2	4,340				
	Dec. 7, 1950	16.2	4,940	1958	Apr. 29, 1958	19.15	6,170
	Jan. 15, 1951	15.5	4,520		May 8, 1958	19.60	6,540
	Feb. 2, 1951	22.4	10,200				
	Feb. 8, 1951	15.8	4,700	1959	Apr. 11, 1959	13.45	3,230
	May 3, 1951	16.5	5,120				
				1960	Feb. 26, 1960	16.75	4,680
1952	Dec. 9, 1951	15.68	4,630				
	Dec. 15, 1951	15.1	4,280	1961	July 31, 1961	18.49	5,690
	Dec. 21, 1951	15.15	4,310				

OHIO RIVER MAIN STEM

2160. Ohio River at Ashland, Ky.

Location.--Lat 38°27'23", long 82°36'27", on left bank in upper pool at lock and dam 29, at Ashland, Boyd County, 2.8 miles downstream from Big Sandy River and at mile 319.9.

Drainage area.--60,750 sq mi, approximately.

Gage.--Nonrecording. Prior to Jan. 1, 1934, at datum 1.7 ft higher. Datum of gage is 483.12 ft above mean sea level, Ohio River datum. Gage heights given herein converted to present datum. Auxiliary nonrecording gage on left bank at lock and dam 30, 19.5 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 560,000 cfs.

Bankfull stage.--46 ft.

Remarks.--Records prior to 1939 based on once-daily gage heights published by the U.S. Weather Bureau and discharges computed from rating based on discharge measurements made during period 1936-57. Maximum stage and discharge frequently occur at different times. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 12, 1884	68.7	a620,000	1928	Dec. 19, 1927	53.0	421,000
				1929	Mar. 2, 1929	53.0	408,000
1907	Mar. 18, 1907	-	574,000	1930	Nov. 20, 1929	48.0	372,000
1913	Mar. 31, 1913	70.0	669,000	1931	Apr. 6, 1931	46.5	349,000
				1932	Feb. 6, 1932	51.0	402,000
1917	Mar. 16, 1917	56.0	a450,000	1933	Mar. 21, 1933	61.5	524,000
1918	Mar. 16, 1918	54.0	a430,000	1934	Mar. 7, 1934	48.5	373,000
1919	Jan. 4, 1919	54.5	a430,000	1935	Mar. 14, 1935	53.9	441,000
1920	Mar. 21, 1920	55.2	460,000				
				1936	Mar. 23, 1936	62.7	582,000
1921	Mar. 10, 1921	39.5	256,000	1937	Jan. 27, 1937	73.6	a690,000
1922	Dec. 26, 1921	54.2	425,000	1938	Apr. 12, 1938	43.7	a300,000
1923	Feb. 4, 1923	47.5	357,000	1939	Feb. 5, 1939	60.6	544,000
1924	Jan. 5, 1924	56.5	472,000	1940	Apr. 23, 1940	60.4	510,000
1925	Feb. 16, 1925	46.0	349,000				
				1941	June 8, 1941	37.9	253,000
1926	Jan. 23, 1926	49.0	386,000	1942	Mar. 18, 1942	46.1	337,000
1927	Jan. 25, 1927	58.7	493,000	1943	Jan. 1, 1943	63.4	587,000

a About.

Peak stages and discharges of Ohio River at Ashland, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 14, 1944	48.1	361,000	1953	Mar. 27, 1953	34.9	224,000
1945	Mar. 9, 1945	63.85	531,000	1954	Mar. 5, 1954	36.05	235,000
				1955	Mar. 8, 1955	63.22	576,000
1946	Jan. 10, 1946	50.6	413,000				
1947	Jan.22,23,1947	41.1	281,000	1956	Mar. 16, 1956	52.45	416,000
1948	Apr. 16, 1948	65.3	589,000	1957	Feb. 12, 1957	50.30	387,000
1949	Jan. 30, 1949	51.0	382,000	1958	May 9, 1958	59.3	500,000
1950	Feb. 3, 1950	60.4	528,000	1959	Jan. 25, 1959	53.4	392,000
				1960	Apr. 3, 1960	48.7	344,000
1951	Dec. 10, 1950	56.75	465,000				
1952	Jan. 30, 1952	58.0	483,000	1961	Feb. 28, 1961	52.55	360,000

LITTLE SANDY RIVER BASIN

2165. Little Sandy River near Grayson, Ky.

Location.--Lat 38°20'25", long 82°55'10", on downstream side of center pier of highway bridge, 0.3 mile upstream from Lower Stinson Creek, 1.3 miles downstream from U.S. Highway 60, and 1.7 miles northeast of Grayson, Carter County.

Drainage area.--402 sq mi.

Gage.--Nonrecording prior to Aug. 11, 1939; recording thereafter. Datum of gage is 557.95 ft above mean sea level, datum of 1929. Since Apr. 6, 1948, auxiliary nonrecording gage 1.4 miles upstream at same datum as base gage.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs.

Historical data.--Flood of September 1950 is highest flood known since at least 1884, according to local residents.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	February 1937	25.0	a16,600	1949	Feb. 16, 1949	17.65	6,510
1939	Jan. 30, 1939	21.4	10,500	1950	Dec. 13, 1949	19.57	7,980
	Feb. 4, 1939	26.25	19,800		Jan. 6, 1950	20.84	9,530
	Feb. 15, 1939	b20.68	9,370		Feb. 1, 1950	26.21	19,800
	Mar. 6, 1939	22.94	12,800		June 5, 1950	17.19	6,310
	Mar. 12, 1939	18.08	6,850		June 20, 1950	19.35	7,770
	Apr. 16, 1939	23.60	14,400		Sept.22, 1950	27.53	24,500
	July 6, 1939	16.70	6,230				
				1951	Jan. 15, 1951	19.60	8,060
1940	Mar. 31, 1940	20.06	8,200		Feb. 1, 1951	21.01	9,780
	Apr. 20, 1940	18.21	6,850		Feb. 7, 1951	b16.84	6,030
1941	July 20, 1941	17.40	5,940	1952	Dec. 9, 1951	18.06	6,730
					Dec. 21, 1951	b18.20	6,830
1942	Apr. 10, 1942	19.47	7,940		Jan. 28, 1952	18.81	7,240
	Aug. 24, 1942	19.32	7,790		Mar. 23, 1952	25.83	19,200
1943	Dec. 30, 1942	c24.03	15,400	1953	Mar. 4, 1953	d20	8,210
	Mar. 20, 1943	21.31	10,100				
	Apr. 20, 1943	19.43	7,910	1954	Sept.20, 1954	d9	2,560
1944	Apr. 12, 1944	19.58	8,040	1955	Feb. 7, 1955	17.07	6,470
					Feb. 28, 1955	16.88	6,390
1945	Jan. 2, 1945	21.18	9,530		Mar. 6, 1955	23.28	13,500
	Feb. 22, 1945	17.83	6,600		Mar. 22, 1955	17.73	6,870
	Feb. 27, 1945	20.52	9,140				
	Mar. 3, 1945	20.38	8,940	1956	Feb. 3, 1956	17.76	6,880
					Feb. 16, 1956	20.40	8,950
1946	Jan. 8, 1946	17.62	6,470		Feb. 18, 1956	b22.96	12,900
	June 3, 1946	21.70	10,000		Mar. 15, 1956	19.50	8,100
1947	Sept. 6, 1947	13.60	4,440	1957	Dec. 15, 1956	22.07	11,100
					Jan. 23, 1957	17.09	6,400
1948	Feb. 14, 1948	23.20	13,500				
	Apr. 9, 1948	21.56	9,790	1958	Apr. 28, 1958	19.7	8,200
	Apr. 13, 1948	b23.75	14,600		May 8, 1958	21.2	9,840

a Annual peak only. b Occurred on following day. c Occurred at different time than maximum discharge. d About.

Peak stages and discharges of Little Sandy River near Grayson, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 22, 1959	16.18	5,860	1961	May 8, 1961	19.40	7,960
1960	Feb. 11, 1960	16.41	6,000		June 6, 1961	16.99	6,340
	July 4, 1960	20.50	9,000		June 11, 1961	18.30	7,160
	July 11, 1960	17.58	6,700		June 16, 1961	21.50	10,200
1961	Apr. 2, 1961	17.03	6,370		July 31, 1961	16.47	6,030

TYGARTS CREEK BASIN

2170. Tygarts Creek near Greenup, Ky.

Location.--Lat 38°33'51", long 82°57'08", on downstream side of center pier of bridge on State Highway 7, 100 ft downstream from Lick Run, 0.4 mile upstream from White Oak Creek, and 6½ miles west of Greenup, Greenup County.

Drainage area.--242 sq mi.

Gage.--Recording. Datum of gage is 547.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	-	a20	-	1951	Feb. 8, 1951	13.59	3,800
					Mar. 19, 1951	13.12	3,560
1937	-	a19	-	1952	Dec. 9, 1951	13.19	3,600
1941	July 20, 1941	9.27	2,560		Dec. 22, 1951	14.22	4,110
					Jan. 3, 1952	15.37	4,720
1942	Apr. 10, 1942	16.40	6,340		Jan. 5, 1952	14.12	4,060
					Jan. 28, 1952	13.23	3,620
1943	Dec. 30, 1942	18.02	8,280		Mar. 12, 1952	13.85	3,920
	Mar. 12, 1943	13.46	3,730		Mar. 23, 1952	19.49	11,000
	Mar. 20, 1943	18.19	8,780				
	Apr. 20, 1943	14.7	4,350	1953	Mar. 4, 1953	17.22	7,080
	May 26, 1943	14.30	4,150				
				1954	Sept.21, 1954	7.44	1,540
1944	Apr. 12, 1944	12.29	3,340				
				1955	Feb. 7, 1955	14.15	4,080
1945	Feb. 23, 1945	15.86	5,110		Feb. 27, 1955	14.99	4,500
	Feb. 27, 1945	16.84	6,870		Mar. 6, 1955	17.08	6,870
	Mar. 3, 1945	16.03	5,300		Mar. 16, 1955	13.42	3,710
	Mar. 7, 1945	16.28	5,670		Mar. 22, 1955	13.22	3,610
	May 18, 1945	13.02	3,520		May 14, 1955	14.89	4,440
1946	Feb. 14, 1946	16.22	5,580	1956	Jan. 31, 1956	14.03	4,020
	Mar. 27, 1946	16.34	6,270		Feb. 3, 1956	16.15	5,480
	June 2, 1946	15.82	5,070		Feb. 16, 1956	16.06	5,340
					Feb. 19, 1956	17.48	7,470
1947	Jan. 21, 1947	10.84	2,730		Mar. 8, 1956	15.20	4,620
					Mar. 15, 1956	14.81	4,400
1948	Feb. 14, 1948	19.56	11,200				
	Mar. 17, 1948	13.63	3,830	1957	Dec. 15, 1956	16.79	6,640
	Apr. 9, 1948	14.42	4,380		Jan. 23, 1957	13.99	4,000
	Apr. 13, 1948	20.35	12,800		Apr. 9, 1957	13.97	3,980
1949	Dec. 16, 1948	15.79	5,650	1958	Apr. 29, 1958	14.34	4,170
	Jan. 25, 1949	14.30	4,300		May 5, 1958	16.14	5,460
	Feb. 15, 1949	14.89	4,770		May 8, 1958	17.42	7,380
					July 24, 1958	15.06	4,540
1950	Dec. 14, 1949	17.33	7,240				
	Jan. 6, 1950	17.96	8,190	1959	Jan. 21, 1959	15.65	4,920
	Feb. 1, 1950	18.12	8,430				
	May 28, 1950	13.60	3,800	1960	Feb. 11, 1960	13.76	3,880
	May 31, 1950	15.20	4,620		July 2, 1960	13.37	3,680
	June 5, 1950	14.07	4,040		July 4, 1960	17.77	7,900
	June 20, 1950	15.29	4,670				
	Sept.22, 1950	20.02	12,000	1961	Jan. 16, 1961	13.91	3,960
					Apr. 2, 1961	15.25	4,650
1951	Nov. 21, 1950	13.38	3,690		May 8, 1961	17.90	8,100
	Jan. 4, 1951	15.02	4,510		June 6, 1961	16.47	5,960
	Jan. 15, 1951	17.18	7,020		June 10, 1961	13.27	3,640
	Feb. 2, 1951	15.12	4,570		June 16, 1961	17.52	7,530

a About, from information by local resident.

2175. Scioto River at La Rue, Ohio

Location.--Lat 40°34'28", long 83°23'15", 200 ft downstream from highway bridge, 500 ft downstream from Cleveland, Cincinnati, Chicago & St. Louis Railway bridge at La Rue, Marion County, and 3½ miles upstream from Rush Creek.

Drainage area.--255 sq mi. Channel slope, main stream, 2.19 ft per mile; channel slope, tributary, 19.4 ft per mile; length of longest watercourse, 43.0 miles; mean elevation of land surface, 997 ft above mean sea level; average slope of land surface, 102 ft per mile.

Gage.--Nonrecording prior to July 5, 1929; recording thereafter. At site 200 ft upstream at same datum prior to July 5, 1929. Datum of gage is 910.2 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs and contracted-opening measurement at 16,300 cfs in 1959.

Bankfull stage.--11 ft.

Remarks.--Gage-height records collected in this vicinity since 1916 are contained in reports of U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	17.8	-	1941	June 5, 1941	11.7	2,710
				1942	Apr. 10, 1942	13.15	5,080
1927	Mar. 20, 1927	15.0	10,700	1943	Mar. 20, 1943	13.25	5,080
1928	Dec. 1, 1927	14.6	9,160	1944	Apr. 12, 1944	13.65	5,500
1929	Feb. 26, 1929	14.7	9,540	1945	June 18, 1945	14.58	7,750
1930	Jan. 9, 1930	14.5	8,780				
				1946	June 18, 1946	13.07	4,340
1931	Apr. 4, 1931	10.92	1,940	1947	June 3, 1947	13.79	5,650
1932	Jan. 18, 1932	11.76	2,810	1948	Feb. 14, 1948	13.58	5,250
1933	Dec. 31, 1932	13.56	6,150	1949	Dec. 16, 1948	13.08	4,480
1934	Mar. 4, 1934	10.30	1,570	1950	Feb. 14, 1950	13.84	5,850
1935	May 4, 1935	11.44	2,370				
				1951	Dec. 3, 1950	13.62	5,400
1938	Apr. 8, 1938	13.17	5,070				
1939	Mar. 12, 1939	14.68	9,590	1959	Jan. 21, 1959	15.30	16,300
1940	Apr. 20, 1940	13.08	4,860				

2180. Little Scioto River above Marion, Ohio

Location.--Lat 40°37'43", long 83°10'11", at Chesapeake and Ohio Railway bridge, 1 mile downstream from Rock Fork and 3½ miles northwest of Marion, Marion County.

Drainage area.--70.0 sq mi. Channel slope, main stream, 4.8 ft per mile; channel slope, tributary, 11.9 ft per mile; length of longest watercourse, 22.8 miles; mean elevation of land surface, 972 ft above mean sea level; average slope of land surface, 60 ft per mile.

Gage.--Nonrecording prior to June 17, 1940; recording thereafter. Datum of gage is 909.43 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,830 cfs.

Bankfull stage.--6 ft.

Remarks.--At times backwater from the Scioto River occurs. Base for partial-duration series, 450 cfs. Only annual peaks are shown prior to 1943.

Peak stages and discharges of Little Scioto River above Marion, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 12, 1939	7.20	1,970
1940	Apr. 20, 1940	5.90	1,200
1941	Dec. 30, 1940	4.50	745
1942	Apr. 10, 1942	5.60	1,100
1943	Dec. 30, 1942	5.14	933
	Feb. 11, 1943	3.92	565
	Mar. 17, 1943	4.60	776
	Mar. 20, 1943	a6.25	1,280
	May 18, 1943	4.44	607
1944	Apr. 12, 1944	5.45	913
1945	Feb. 23, 1945	3.87	464
	Mar. 3, 1945	4.15	541
	Mar. 7, 1945	5.21	833
	Mar. 20, 1945	6.20	1,310
	May 18, 1945	5.15	818
	June 19, 1945	4.63	675
1946	Feb. 14, 1946	3.98	498
	Feb. 27, 1946	4.55	650
	May 28, 1946	4.28	580
	June 17, 1946	7.01	1,730
1947	Jan. 21, 1947	4.20	536
	Jan. 31, 1947	5.50	920
	Mar. 25, 1947	4.37	580
	Apr. 2, 1947	6.07	1,100
	Apr. 26, 1947	3.93	466
	May 22, 1947	4.25	550
	June 3, 1947	7.33	2,020
	June 7, 1947	8.16	3,720
	June 15, 1947	5.87	1,040
1948	Feb. 14, 1948	6.80	1,570
	Mar. 24, 1948	5.40	890
	Mar. 27, 1948	3.92	452
	Apr. 14, 1948	4.93	740
	May 17, 1948	4.81	710
1949	Dec. 16, 1948	4.46	620
	Jan. 5, 1949	4.40	607
	Jan. 19, 1949	4.08	528
	Jan. 28, 1949	4.55	648
	Feb. 15, 1949	4.60	661
	Mar. 27, 1949	4.24	567
1950	Jan. 5, 1950	5.38	896
	Jan. 7, 1950	5.18	820
	Jan. 11, 1950	5.73	1,020
	Jan. 14, 1950	3.94	490
	Jan. 16, 1950	7.57	2,530
	Jan. 27, 1950	5.57	950
	Feb. 9, 1950	4.23	567
1950	Feb. 14, 1950	6.59	1,430
	Apr. 5, 1950	4.55	648
1951	Dec. 4, 1950	5.38	896
	Dec. 8, 1950	-	b750
	Jan. 4, 1951	5.68	1,000
	Jan. 15, 1951	3.79	452
	Jan. 19, 1951	4.16	541
	Feb. 13, 1951	5.08	803
	Feb. 21, 1951	4.52	634
1952	Dec. 31, 1951	4.32	580
	Jan. 15, 1952	3.91	477
	Jan. 18, 1952	6.44	1,340
	Jan. 27, 1952	7.32	2,110
	Feb. 4, 1952	4.32	580
	Mar. 12, 1952	5.08	803
	Mar. 23, 1952	4.20	554
	Apr. 14, 1952	3.90	477
	Apr. 24, 1952	3.90	477
1953	May 18, 1953	4.10	528
	May 23, 1953	5.13	818
1954	Apr. 17, 1954	4.22	553
	June 17, 1954	6.13	1,180
1955	Feb. 22, 1955	3.97	480
	Mar. 5, 1955	5.03	788
	Mar. 12, 1955	4.59	661
	Mar. 22, 1955	4.51	633
1956	Feb. 26, 1956	5.07	788
	Mar. 8, 1956	5.40	896
	Mar. 24, 1956	3.84	452
1957	Apr. 5, 1957	6.75	1,540
	Apr. 9, 1957	5.50	866
	Apr. 19, 1957	4.17	483
	June 30, 1957	4.69	626
1958	Dec. 26, 1957	4.04	457
	Aug. 11, 1958	4.20	496
1959	Jan. 22, 1959	8.73	5,160
	Jan. 30, 1959	4.00	472
	Feb. 10, 1959	6.83	1,590
	Feb. 15, 1959	4.30	538
	Apr. 29, 1959	5.11	743
1960	Apr. 4, 1960	3.88	446
1961	Feb. 27, 1961	3.97	506
	Mar. 9, 1961	3.85	477
	Apr. 23, 1961	4.37	604
	Apr. 26, 1961	4.53	646

a Backwater from Scioto River.
b About.

2195. Scioto River near Prospect, Ohio

Location.--Lat 40°25'10", long 83°11'50", at Hoskins Bridge, Delaware County, 1½ miles upstream from Ottawa Creek, 2 miles south of Prospect, Marion County, and 2½ miles downstream from Patton Run.

Drainage area.--571 sq mi (prior to Oct. 1, 1939, 554 sq mi).

Gage.--Nonrecording prior to Dec. 5, 1939; recording thereafter. At Prospect 2½ miles upstream, at datum 4.8 ft higher prior to October 1939. Datum of gage is 886.9 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 7,700 cfs. Relation prior to October 1939 defined below 8,750 cfs.

Bankfull stage.--10 ft.

Remarks.--Peaks prior to October 1939 are from U.S. Weather Bureau gage. Base for partial-duration series, 3,600 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	21.1	a27,000
1915	July 18, 1915	14.9	9,700
1916	Mar. 29, 1916	13.9	8,700
1917	Mar. 14, 1917	7.1	2,720
1918	Feb. 13, 1918	12.5	7,300
1919	Mar. 18, 1919	10.7	5,630
1920	Apr. 21, 1920	10.2	5,180
1921	Mar. 30, 1921	11.9	6,710
1922	Apr. 19, 1922	11.8	6,620
1923	May 14, 1923	12.2	7,000
1924	Mar. 30, 1924	11.5	6,350
1925	Feb. 26, 1925	9.5	4,550
1926	Apr. 9, 1926	10.9	6,210
1927	Mar. 22, 1927	15.0	10,100
1928	Dec. 2, 1927	12.9	7,600
1929	Feb. 28, 1929	14.0	8,800
1930	Jan. 14, 1930	14.0	8,800
1931	Apr. 5, 1931	7.8	2,490
1932	Jan. 19, 1932	9.2	3,520
1933	Jan. 1, 1933	12.1	6,900
1934	Mar. 5, 1934	6.6	1,680
1935	May 5, 1935	8.4	2,950
1936	Feb. 27, 1936	12.6	7,400
1937	Jan. 23, 1937	13.4	8,200
1938	Apr. 10, 1938	12.8	7,600
1939	Mar. 14, 1939	13.8	8,600
1940	Mar. 5, 1940	12.12	6,630
	Apr. 22, 1940	11.84	6,300
1941	June 6, 1941	8.86	3,450
1942	Apr. 11, 1942	12.0	6,520
1943	Mar. 21, 1943	11.85	6,300
1944	Apr. 13, 1944	11.68	6,190
1945	Mar. 8, 1945	9.40	4,020
	Mar. 22, 1945	10.25	4,690
	May 19, 1945	11.00	5,460
	June 20, 1945	12.10	6,630
	Aug. 17, 1945	10.00	4,510
1946	June 19, 1946	12.08	6,530
1947	Feb. 1, 1947	10.32	4,800
	June 4, 1947	13.15	7,770
1948	Jan. 4, 1948	8.98	3,790
1948	Feb. 14, 1948	9.49	4,160
	Feb. 16, 1948	9.83	4,400
	Mar. 25, 1948	9.90	4,480
	Apr. 15, 1948	11.73	6,120
1949	Dec. 18, 1948	10.99	5,430
	Jan. 7, 1949	10.83	5,250
	Jan. 29, 1949	10.09	4,640
	Feb. 17, 1949	9.85	4,400
	Mar. 29, 1949	8.86	3,720
1950	Jan. 6, 1950	11.59	6,020
	Jan. 12, 1950	10.29	4,800
	Jan. 17, 1950	12.50	6,970
	Jan. 28, 1950	10.89	5,340
	Feb. 11, 1950	8.91	3,720
	Feb. 16, 1950	13.08	7,650
1951	Dec. 5, 1950	11.43	5,820
	Jan. 5, 1951	10.85	5,250
	Feb. 14, 1951	9.72	4,320
	Feb. 23, 1951	10.97	5,430
1952	Jan. 2, 1952	10.09	4,640
	Jan. 19, 1952	12.11	6,530
	Jan. 29, 1952	13.08	7,650
	Feb. 6, 1952	9.05	3,790
	Mar. 13, 1952	11.24	5,620
	Apr. 25, 1952	9.73	4,320
1953	May 25, 1953	9.30	4,000
1954	Apr. 18, 1954	6.85	2,220
1955	Feb. 23, 1955	9.37	4,080
	Mar. 6, 1955	10.44	4,890
	Mar. 24, 1955	9.36	4,080
1956	Feb. 27, 1956	10.33	4,800
	Mar. 10, 1956	11.34	5,720
1957	Apr. 6, 1957	13.45	8,010
	Apr. 20, 1957	9.06	3,840
	July 1, 1957	10.50	4,980
1958	Dec. 22, 1957	8.80	3,600
	June 13, 1958	8.92	3,680
1959	Jan. 21, 1959	15.30	10,100
	Feb. 12, 1959	12.30	6,750
	Apr. 30, 1959	11.08	5,500
1960	Jan. 15, 1960	8.51	3,400
1961	Apr. 27, 1961	10.35	4,840

a Computed by the Franklin County Conservancy District.

2196. Eagon Run near Warrensburg, Ohio

Location.--Lat 40°19'35", long 83°09'15", 0.9 mile upstream from Prairie Run, 1.7 miles northeast of Warrensburg, and 5.0 miles northwest of Delaware, Delaware County.

Drainage area.--0.123 sq mi (79 acres). Length of main stream, 0.58 mile; average slope main stream, 68 ft per mile; average slope main stream and upper reach, 69 ft per mile; slope at gage, 33 ft per mile; length divided by average width of basin, 2.73.

Gage.--Recording. Datum of gage is 922.7 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 13 cfs.

Remarks.--Flow regulated by farm pond (area, 0.064 sq mi, 41 acres; capacity, 10.6 acre-ft) since October 1954. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 15, 1950	5.09	32	1956	Feb. 25, 1956	4.92	24
				1957	June 28, 1957	4.40	8.3
1951	Jan. 3, 1951	4.54	11	1958	June 10, 1958	5.16	37
1952	Mar. 10, 1952	4.69	15	1959	May 28, 1959	5.29	48
1953	July 18, 1953	4.16	4.7	1960	Aug. 7, 1960	3.90	2.3
1954	July 31, 1954	4.33	7.1				
1955	Mar. 3, 1955	5.06	31	1961	Apr. 25, 1961	4.88	22

2200. Mill Creek near Bellepoint, Ohio

Location.--Lat 40°14'55", long 83°10'30", at county bridge, 1¼ miles upstream from mouth and 1½ miles west of Bellepoint, Delaware County.

Drainage area.--181 sq mi.

Gage.--Nonrecording prior to Jan. 1, 1948; recording thereafter. Datum of gage is 865.14 ft above mean sea level, adjustment of 1912 (levels by Ohio State University students, city of Columbus bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 13,700 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,500 cfs. Only annual peaks are shown prior to 1957.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a18.0	-	1957	Apr. 4, 1957	8.78	5,740
					June 29, 1957	6.11	2,540
1943	Mar. 19, 1943	8.7	4,870				
1944	Apr. 11, 1944	7.4	3,500	1958	Apr. 29, 1958	6.24	2,740
1945	Mar. 6, 1945	8.80	5,870		May 5, 1958	6.86	3,500
					June 10, 1958	6.86	3,500
1946	June 17, 1946	8.24	5,010		June 13, 1958	6.82	3,380
1947	June 2, 1947	9.10	6,130				
1948	Apr. 12, 1948	9.44	6,520	1959	Jan. 21, 1959	13.85	20,300
1949	Jan. 5, 1949	7.23	3,810		Feb. 10, 1959	8.67	5,700
1950	Feb. 14, 1950	8.98	6,000				
				1960	Jan. 13, 1960	5.34	1,800
1951	Dec. 30, 1950	8.42	5,250				
1952	Jan. 26, 1952	9.85	7,040	1961	Feb. 27, 1961	6.10	2,570
1953	Mar. 4, 1953	5.72	2,120		Mar. 5, 1961	6.65	3,200
1954	June 17, 1954	6.12	2,540		Apr. 25, 1961	7.37	4,060
1955	Mar. 22, 1955	7.02	3,570				
1956	May 27, 1956	9.92	7,170				

a Maximum stage known.

2210. Scioto River below O'Shaughnessy Dam, near Dublin, Ohio

Location.--Lat 40°08'36", long 83°07'14", in Delaware County, a quarter of a mile north of county line, three-quarters of a mile downstream from O'Shaughnessy Dam, and 3 miles north of Dublin, Franklin County.

Drainage area.--988 sq mi.

Gage.--Nonrecording prior to Oct. 14, 1924; recording thereafter. Datum of gage is 775.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs.

Remarks.--Affected by storage in O'Shaughnessy Reservoir (17,940 acre-ft, 987 sq mi) since November 1924. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	24.6	a74,500	1943	Mar. 20, 1943	12.6	17,000
				1944	Apr. 12, 1944	10.7	11,400
1922	Apr. 15, 1922	9.6	10,800	1945	Mar. 6, 1945	11.6	14,000
1923	May 13, 1923	9.6	10,800				
1924	Mar. 29, 1924	11.9	16,200	1946	June 18, 1946	11.67	14,300
1925	Mar. 20, 1925	8.0	5,250	1947	June 3, 1947	12.28	16,100
				1948	Apr. 13, 1948	12.78	17,600
1926	Apr. 8, 1926	10.2	10,100	1949	Jan. 5, 1949	10.20	10,400
1927	Mar. 21, 1927	14.5	23,500	1950	Jan. 17, 1950	12.80	17,900
1928	Dec. 1, 1927	11.7	14,300				
1929	Feb. 26, 1929	14.4	23,100	1951	Dec. 4, 1950	11.20	13,200
1930	Jan. 10, 1930	12.7	17,300		Jan. 3, 1951	11.21	13,200
					Feb. 21, 1951	11.20	13,200
1931	Aug. 14, 1931	8.34	5,880	1952	Jan. 27, 1952	13.80	21,100
1932	Jan. 17, 1932	9.90	9,420	1953	May 18, 1953	8.05	5,340
1933	May 14, 1933	15.03	25,400	1954	June 18, 1954	7.87	4,910
1934	Mar. 4, 1934	7.04	3,560	1955	Mar. 22, 1955	9.89	9,660
1935	May 3, 1935	9.04	7,350				
				1956	Feb. 25, 1956	10.86	12,300
1936	Feb. 27, 1936	12.61	17,000	1957	Apr. 5, 1957	12.48	17,000
1937	Jan. 15, 1937	15.45	27,000	1958	June 13, 1958	10.05	9,920
1938	Apr. 9, 1938	11.80	14,600	1959	Jan. 22, 1959	22.04	55,200
1939	Mar. 13, 1939	12.28	16,100	1960	Jan. 16, 1960	8.81	7,320
1940	Apr. 20, 1940	11.73	14,300				
				1961	Apr. 25, 1961	11.26	13,300
1941	Dec. 30, 1940	7.76	4,880				
1942	Apr. 10, 1942	11.20	12,800				

a At Griggs Dam, 9 miles downstream from gage; computed by C. E. Sherman, Ohio State University.

2230. Olentangy River at Claridon, Ohio

Location.--Lat 40°35'05", long 82°59'20", at bridge on State Highway 95, half a mile downstream from Otter Creek, half a mile east of Claridon, Marion County, and 7½ miles east of Marion.

Drainage area.--156 sq mi.

Gage.--Recording. Datum is 962.25 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 4,630 cfs, and contracted-opening measurement at 14,900 cfs.

Bankfull stage.--7.5 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges of Olentangy River at Claridon, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 31, 1947	10.32	2,040	1953	May 23, 1953	10.14	2,340
	Mar. 25, 1947	9.92	2,040				
	Apr. 2, 1947	9.87	2,040	1954	Apr. 17, 1954	9.31	1,770
	June 3, 1947	10.70	2,950		June 17, 1954	9.80	2,090
	June 7, 1947	13.57	6,800				
	June 15, 1947	10.49	2,730	1955	Feb. 22, 1955	9.45	1,830
					Mar. 1, 1955	9.12	1,660
1948	Feb. 14, 1948	11.64	3,220		Mar. 4, 1955	9.98	2,250
	Mar. 25, 1948	10.51	2,760		Mar. 22, 1955	10.08	2,340
	Apr. 12, 1948	10.20	2,430				
				1956	Nov. 17, 1955	9.09	1,660
1949	Dec. 16, 1948	10.06	2,340		Feb. 26, 1956	10.90	3,170
	Jan. 6, 1949	8.76	1,510		Mar. 8, 1956	10.30	2,530
	Jan. 19, 1949	8.81	1,510				
	Jan. 28, 1949	9.31	1,770	1957	Apr. 5, 1957	11.21	3,520
	Feb. 16, 1949	9.76	2,090		Apr. 9, 1957	9.39	1,830
	Mar. 27, 1949	9.14	1,660		May 20, 1957	8.89	1,560
					June 29, 1957	11.36	3,640
1950	Jan. 4, 1950	10.93	3,170				
	Jan. 11, 1950	10.18	2,430	1958	Dec. 8, 1957	9.32	1,770
	Jan. 16, 1950	12.34	4,900		Dec. 26, 1957	8.85	1,510
	Jan. 27, 1950	9.65	1,950		Aug. 8, 1958	9.79	2,090
	Feb. 14, 1950	11.45	3,760				
	Apr. 5, 1950	9.82	2,090	1959	Jan. 22, 1959	16.77	14,900
					Feb. 11, 1959	11.49	3,870
1951	Nov. 21, 1950	8.79	1,510		Feb. 15, 1959	9.11	1,730
	Dec. 4, 1950	10.33	2,530		Apr. 29, 1959	9.45	1,890
	Dec. 8, 1950	9.82	2,090				
	Jan. 4, 1951	10.98	3,280	1960	Feb. 11, 1960	8.30	1,410
	Feb. 13, 1951	10.42	2,630				
				1961	Feb. 27, 1961	8.92	1,630
1952	Jan. 1, 1952	9.26	1,770		Apr. 23, 1961	8.94	1,640
	Jan. 18, 1952	10.71	2,950		Apr. 26, 1961	9.13	1,730
	Jan. 27, 1952	12.27	4,900				
	Mar. 11, 1952	10.08	2,340				

2235. Whetstone Creek near Shawtown, Ohio

Location.--Lat 40°28'30", long 82°56'40", at highway bridge 1¼ miles southeast of Shawtown, Morrow County, 1½ miles upstream from Shaw Creek, and 3½ miles southwest of Cardington.

Drainage area.--61.7 sq mi.

Gage.--Recording. Datum of gage is 954.69 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 3,610 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 31, 1947	7.70	2,650	1950	Apr. 5, 1950	6.59	1,460
	Mar. 25, 1947	6.50	1,400				
	Apr. 2, 1947	6.42	1,340	1951	Nov. 20, 1950	6.30	1,290
	June 2, 1947	8.30	3,700		Dec. 3, 1950	7.21	2,000
	June 7, 1947	7.92	2,960		Dec. 7, 1950	7.03	1,840
	June 14, 1947	8.02	3,130		Jan. 4, 1951	6.98	1,790
					Jan. 15, 1951	6.56	1,430
1948	Feb. 14, 1948	8.84	4,920		Feb. 13, 1951	-	1,400
	Mar. 24, 1948	8.04	3,220		June 9, 1951	7.43	2,580
	Mar. 27, 1948	6.16	1,220				
	Apr. 12, 1948	8.64	4,450	1952	Dec. 30, 1951	-	-
					Jan. 17, 1952	5.95	1,240
1949	Dec. 16, 1948	7.10	1,890		Jan. 27, 1952	8.11	3,550
	Jan. 28, 1949	6.32	1,290		Mar. 11, 1952	6.95	1,980
	Feb. 15, 1949	7.00	1,790				
	Mar. 27, 1949	6.52	1,400	1953	May 23, 1953	5.94	1,250
1950	Jan. 4, 1950	7.63	2,580	1954	Apr. 17, 1954	5.83	1,240
	Jan. 6, 1950	7.23	2,060				
	Jan. 10, 1950	7.42	2,240	1955	Mar. 4, 1955	6.63	1,730
	Jan. 16, 1950	8.08	3,310		Mar. 22, 1955	6.53	1,650
	Feb. 13, 1950	7.16	1,940				

2240. Shaw Creek at Shawtown, Ohio

Location.--Lat 40°29'00", long 82°57'25", at highway bridge half a mile east of Shawtown, Morrow County, 1½ miles upstream from mouth, and 3½ miles southwest of Cardington.

Drainage area.--25.2 sq mi. Length of main stream, 17.2 miles; average slope main stream, 8.0 ft per mile; average slope main stream and tributaries, 17.8 ft per mile; slope at gage, 6.2 ft per mile; length divided by average width of basin, 11.7.

Gage.--Recording. Datum of gage is 954.99 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 920 cfs and contracted-opening measurement at 4,120 cfs in 1959.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 20, 1947	4.21	414	1951	Nov. 21, 1950	4.68	523
	Jan. 30, 1947	5.25	812		Dec. 3, 1950	5.30	836
	Mar. 25, 1947	4.48	508		Dec. 7, 1950	5.02	698
	Apr. 2, 1947	4.32	444		Jan. 4, 1951	-	750
	June 2, 1947	5.62	990		Jan. 15, 1951	-	500
	June 8, 1947	4.22	414		Feb. 13, 1951	-	750
	June 14, 1947	5.20	788		June 9, 1951	5.00	698
1948	Feb. 14, 1948	5.86	1,130	1952	Dec. 31, 1951	4.23	429
	Mar. 24, 1948	5.02	698		Jan. 17, 1952	4.73	597
	Mar. 27, 1948	4.37	460		Jan. 27, 1952	5.73	1,070
	Apr. 12, 1948	6.05	1,250		Mar. 11, 1952	5.07	720
					Apr. 24, 1952	4.25	429
1949	Dec. 16, 1948	5.23	812				
	Jan. 5, 1949	4.35	460	1953	May 18, 1953	4.35	460
	Jan. 19, 1949	4.28	444		May 23, 1953	4.42	475
	Jan. 28, 1949	4.67	560				
	Feb. 15, 1949	4.98	698	1954	Mar. 30, 1954	4.22	414
	Mar. 27, 1949	4.42	475		Apr. 17, 1954	4.39	475
1950	Jan. 4, 1950	5.54	844	1955	Feb. 21, 1955	4.23	429
	Jan. 10, 1950	5.34	754		Mar. 1, 1955	4.45	492
	Jan. 16, 1950	5.77	946		Mar. 4, 1955	5.15	765
	Jan. 24, 1950	4.70	523		Mar. 22, 1955	4.90	656
	Jan. 27, 1950	4.56	482				
	Feb. 9, 1950	4.45	455	1959	Jan. 21, 1959	8.12	4,120
	Feb. 13, 1950	5.36	754				
	Apr. 5, 1950	4.88	585				

2245. Whetstone Creek near Ashley, Ohio

Location.--Lat 40°27'20", long 82°57'25", 800 ft upstream from bridge on State Highway 746 in Morrow County, 0.6 mile downstream from Shaw Creek, and 3¼ miles north of Ashley, Delaware County.

Drainage area.--98.5 sq mi.

Gage.--Recording. Datum of gage is 942.77 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,840 cfs and extended on basis of slope-area measurement at 19,100 cfs.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 21, 1955	6.57	1,980	1958	Dec. 7, 1957	6.52	1,910
	Mar. 4, 1955	7.56	2,770		Apr. 29, 1958	6.36	1,800
	Mar. 22, 1955	7.36	2,610				
				1959	Jan. 21, 1959	14.34	19,100
1956	Nov. 17, 1955	7.85	3,190		Feb. 10, 1959	8.47	4,090
	Feb. 25, 1956	8.54	4,020		Feb. 15, 1959	6.60	2,040
	Mar. 8, 1956	7.47	2,590				
				1960	Dec. 13, 1959	6.45	1,920
1957	Apr. 4, 1957	7.89	3,300				
	June 29, 1957	8.26	3,780	1961	Feb. 26, 1961	6.50	1,960

2255. Olentangy River near Delaware, Ohio

Location.--Lat 40°21'20", long 83°04'05", 500 ft upstream from highway bridge, 1,000 ft downstream from Delaware Dam, 1,300 ft upstream from Pennsylvania Railroad bridge, and 4 miles north of Delaware, Delaware County.

Drainage area.--387 sq mi. Channel slope, main stream, 5.4 ft per mile; channel slope, tributary, 17.8 ft per mile; length of longest watercourse, 54.0 miles; mean elevation of land surface, 1,038 ft above mean sea level; average slope of land surface, 100 ft per mile.

Gage.--Recording. Datum of gage is 800.00 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers). Prior to Oct. 1, 1950, at site 500 ft downstream at datum 876.7 ft above mean sea level. U.S. Weather Bureau gage at Delaware is nonrecording and was used for gage heights from June 16, 1910, to Sept. 30, 1921, at datum 848.58 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 8,950 cfs at former site and 6,110 cfs at present gage.

Bankfull stage.--9 ft.

Remarks.--Gage heights prior to December 1923 are from U.S. Weather Bureau gage at Delaware, but discharges are based on a relation curve and are for the gage near Delaware. Flow regulated by temporary storage in Delaware Reservoir (132,000 acre-ft, 381 sq mi) from October 1947 to March 1951 and completely regulated after March 1951. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Apr. 1, 1904	16.3	-	1938	Apr. 9, 1938	11.05	6,240
				1939	June 19, 1939	16.15	13,000
1911	Jan. 15, 1911	7.2	4,500	1940	June 11, 1940	11.12	6,350
1912	June 17, 1912	9.5	7,520				
1913	Mar. 25, 1913	25.5	a41,600	1941	Dec. 30, 1940	10.68	5,910
1914	May 13, 1914	5.8	2,920	1942	Apr. 10, 1942	12.10	7,520
1915	July 16, 1915	13.2	12,200	1943	Mar. 20, 1943	12.70	8,240
				1944	Apr. 11, 1944	10.2	5,360
1916	Mar. 27, 1916	11.4	9,850	1945	Mar. 7, 1945	12.02	7,400
1917	Apr. 6, 1917	8.6	6,240				
1918	May 13, 1918	8.9	6,680	1946	June 19, 1946	10.76	5,840
1919	Mar. 17, 1919	8.6	6,240	1947	June 2, 1947	13.52	9,160
1920	Apr. 21, 1920	12.0	10,700	1948	Feb. 14, 1948	11.29	6,400
				1949	Dec. 17, 1948	9.51	4,490
1921	Mar. 28, 1921	12.0	10,700	1950	Jan. 17, 1950	11.87	7,120
1922	May 20, 1922	11.3	9,720				
1923	May 13, 1923	11.1	9,460	1951	Jan. 4, 1951	87.97	5,880
1924	Mar. 29, 1924	12.4	7,770	1952	Jan. 26, 1952	88.13	5,990
1925	Feb. 8, 1925	9.9	4,990	1953	May 19, 1953	86.04	3,910
				1954	Apr. 18, 1954	84.95	3,020
1926	Apr. 8, 1926	10.5	5,650	1955	Feb. 22, 1955	85.96	3,910
1927	Mar. 21, 1927	16.9	14,100				
1928	Dec. 1, 1927	15.5	12,000	1956	Mar. 8, 1956	86.18	4,000
1929	Feb. 26, 1929	16.3	13,200	1957	Apr. 11, 1957	86.56	4,460
1930	Jan. 8, 1930	13.9	9,670	1958	Apr. 30, 1958	85.95	3,910
				1959	Jan. 31, 1959	88.11	6,000
1931	July 18, 1931	9.76	4,880	1960	Dec. 13, 1959	85.95	4,080
1932	Jan. 18, 1932	9.38	4,450				
1933	May 13, 1933	15.74	12,400	1961	Mar. 6, 1961	86.02	4,120
1934	Mar. 3, 1934	b9.43	2,360				
1935	Aug. 8, 1935	-	c3,810				

a Estimated from mean of two estimates for station at Delaware adjusted for difference in drainage areas. b Backwater from ice. c Estimated from gage at Stratford.

2262. Delaware Run near Delaware, Ohio

Location.--Lat 40°18'30", long 83°06'35", at culvert on Houk Road, 400 ft south of State Highway 37 and 1 mile west of Delaware corporation line, Delaware County.

Drainage area.--3.33 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 905 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 840 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Delaware Run near Delaware, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	11.89	200	1955	-	11.38	460
1948	Feb. 14, 1948	12.42	780				
1949	-	10.80	315	1956	Feb. 25, 1956	11.98	650
1950	-	11.55	500	1957	Apr. 4, 1957	10.77	305
				1958	-	11.24	420
1951	-	11.30	435	1959	Jan. 21, 1959	13.01	1,050
1952	-	11.53	500	1960	-	9.50	98
1953	-	10.09	180				
1954	-	10.09	180	1961	Apr. 8, 1961	11.60	450

2265. Olentangy River at Stratford, Ohio

Location.--Lat 40°15'29", long 83°03'44", 0.2 mile upstream from bridge on U.S. Highway 23 at Stratford, Delaware County, and 3 miles downstream from Delaware Run.

Drainage area.--438 sq mi.

Gage.--Nonrecording prior to Aug. 4, 1934; recording thereafter. Datum of gage is 823.63 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,200 cfs.

Remarks.--Flow regulated by Delaware Reservoir (132,000 acre-ft, 381 sq mi). Temporary retention affecting floodflow began in 1947, storage to maintain conservation pool began 1951. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 8, 1935	4.32	3,810	1950	Jan. 6, 1950	6.09	7,830
1939	June 19, 1939	8.77	15,600	1951	Jan. 4, 1951	5.51	6,310
1940	Apr. 30, 1940	5.68	6,800	1952	Jan. 26, 1952	6.86	10,000
				1953	May 20, 1953	4.50	3,990
1941	Dec. 30, 1940	5.37	6,080	1954	Apr. 18, 1954	4.13	3,220
1942	Apr. 10, 1942	6.25	8,380	1955	Feb. 22, 1955	4.72	4,450
1943	Mar. 20, 1943	6.56	9,190				
1944	Apr. 11, 1944	5.33	5,860	1956	Mar. 9, 1956	4.60	4,220
1945	Mar. 7, 1945	6.34	8,380	1957	Apr. 8, 1957	4.94	5,020
				1958	Apr. 30, 1958	4.56	4,100
1946	June 19, 1946	5.66	6,800	1959	Jan. 21, 1959	6.75	9,600
1947	June 2, 1947	7.51	11,700	1960	Dec. 13, 1959	5.06	5,260
1948	Apr. 13, 1948	6.41	8,650				
1949	Dec. 17, 1948	4.80	4,810	1961	Mar. 6, 1961	4.73	4,560

2268. Olentangy River near Worthington, Ohio

Location.--Lat 40°06'35", long 83°01'55", at Wilson Bridge Road bridge, 1½ miles northwest of Worthington, Franklin County, and 2¾ miles upstream from Rush Run.

Drainage area.--493 sq mi.

Gage.--Recording. Datum of gage is 743.20 ft above mean sea level, datum of 1929, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 13,600 cfs.

Remarks.--Flow regulated by Delaware Reservoir (132,000 acre-ft, 381 sq mi). Only annual peaks are shown.

Peak stages and discharges of Olentangy River near Worthington, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	January 1952	a15.3	15,100	1959	Jan. 21, 1959	15.68	16,500
				1960	Dec. 14, 1959	8.81	3,970
1956	May 27, 1956	11.32	6,080				
1957	May 20, 1957	11.58	6,620	1961	Apr. 25, 1961	10.61	6,040
1958	Dec. 20, 1957	9.58	4,840				

a From information by Corps of Engineers.

2275. Scioto River at Columbus, Ohio

Location.--Lat 39°54'34", long 83°00'33", at sewage-treatment works of city of Columbus, Franklin County, 0.4 mile downstream from Frank Road bridge.

Drainage area.--1,624 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1924; recording thereafter. Datum of gage is 680.40 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 45,100 cfs.

Remarks.--Gage readings are available from May 1906 to April 1921, but are not listed because of changes in the stage-discharge relation caused by channel changes and levees. Flow regulated by Griggs Reservoir (4,415 acre-ft, 1,052 sq mi), O'Shaughnessy Reservoir (16,940 acre-ft, 987 sq mi) beginning in 1925 and by Delaware Reservoir (132,000 acre-ft, 381 sq mi) beginning in October 1947. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a25.9	b138,000	1941	Dec. 30, 1940	15.1	10,100
				1942	Apr. 11, 1942	19.5	19,900
1921	Mar. 29, 1921	22.4	30,100	1943	Mar. 20, 1943	21.5	27,400
1922	Apr. 15, 1922	20.3	22,700	1944	Apr. 12, 1944	18.4	16,700
1923	May 13, 1923	19.0	18,800	1945	Mar. 6, 1945	21.75	28,600
1924	Mar. 29, 1924	22.6	30,900				
1925	Mar. 20, 1925	14.2	9,050	1946	June 18, 1946	19.65	20,500
				1947	June 3, 1947	22.71	31,600
1926	Apr. 9, 1926	19.0	18,800	1948	Apr. 13, 1948	22.55	31,200
1927	Mar. 21, 1927	24.7	39,600	1949	June 28, 1949	18.86	18,500
1928	Dec. 1, 1927	21.7	27,400	1950	Feb. 14, 1950	21.98	28,800
1929	Feb. 26, 1929	23.84	35,900				
1930	Jan. 10, 1930	21.7	27,400	1951	Jan. 4, 1951	20.39	23,100
				1952	Jan. 27, 1952	24.70	40,300
1931	Aug. 14, 1931	12.94	7,020	1953	May 20, 1953	13.39	7,940
1932	Jan. 17, 1932	18.25	16,900	1954	Mar. 31, 1954	13.48	8,090
1933	May 14, 1933	24.32	37,800	1955	Mar. 22, 1955	17.60	15,100
1934	Mar. 5, 1934	12.01	5,500				
1935	May 3, 1935	15.81	11,500	1956	Feb. 25, 1956	18.77	16,400
				1957	Apr. 4, 1957	20.60	21,400
1936	Feb. 27, 1936	20.92	24,700	1958	June 13, 1958	18.51	15,600
1937	Jan. 15, 1937	24.50	38,800	1959	Jan. 22, 1959	27.22	68,200
1938	Apr. 9, 1938	19.98	21,800	1960	Feb. 10, 1960	15.78	10,800
1939	Mar. 13, 1939	21.75	28,500				
1940	Apr. 20, 1940	20.14	22,100	1961	Apr. 26, 1961	19.57	18,300

a This stage is not comparable with present gage heights because of subsequent channel improvements and levee construction.
b Estimated by Franklin County Conservancy District.

2280. Scioto Big Run at Briggsdale, Ohio

Location.--Lat 39°54'55", long 83°03'55", at bridge on U.S. Highway 62 at Briggsdale, Franklin County, 2¾ miles northeast of Grove City and 4 miles upstream from mouth.

Drainage area.--11.0 sq mi. Length of main stream, 6.30 miles; average slope main stream, 27 ft per mile; average slope of main stream and tributaries, 35 ft per mile; slope at gage, 7 ft per mile; length divided by average width of basin, 3.61.

Gage.--Recording prior to October 1958; crest-stage gage thereafter. Datum of gage is 729.06 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,790 cfs.

Remarks.--Base for partial-duration series, 500 cfs. Only annual peaks are shown subsequent to 1958.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 2, 1947	4.89	500	1951	Feb. 12, 1951	5.41	555
	Jan. 30, 1947	7.45	1,080		Feb. 20, 1951	5.96	705
	Apr. 20, 1947	4.95	511				
	May 17, 1947	5.39	610	1952	Jan. 26, 1952	9.97	1,910
	Aug. 21, 1947	5.75	701		Mar. 10, 1952	6.91	930
	Sept. 2, 1947	4.93	511				
				1953	Aug. 1, 1953	9.77	1,830
1948	Jan. 1, 1948	6.86	961				
	Feb. 13, 1948	8.2	1,290	1954	June 16, 1954	5.31	558
	Mar. 19, 1948	5.18	566		July 20, 1954	11.92	2,790
	Apr. 12, 1948	5.72	630				
	Apr. 14, 1948	5.75	655	1955	Mar. 21, 1955	6.24	761
	July 23, 1948	5.74	630				
				1956	Apr. 3, 1956	4.78	506
1949	Jan. 5, 1949	6.38	805				
	Jan. 24, 1949	5.64	618	1957	Apr. 3, 1957	6.32	826
	Jan. 27, 1949	6.12	730		May 22, 1957	7.49	1,110
	Feb. 15, 1949	6.04	705				
				1958	June 10, 1958	6.30	821
1950	Jan. 6, 1950	8.30	1,060		June 13, 1958	7.17	1,020
	Jan. 15, 1950	5.76	655		July 22, 1958	6.46	865
	Apr. 25, 1950	6.73	880		July 31, 1958	7.17	1,020
					Aug. 3, 1958	8.20	1,270
1951	Nov. 20, 1950	6.04	705				
	Dec. 3, 1950	6.96	955	1959	Jan. 21, 1959	12.09	2,920
	Dec. 7, 1950	6.84	905	1960	Feb. 10, 1960	5.00	560
	Jan. 4, 1951	5.3	530				
	Jan. 14, 1951	5.46	568	1961	-	8.13	1,250

2285. Big Walnut Creek at Central College, Ohio

Location.--Lat 40°06'13", long 82°53'03", at highway bridge a quarter of a mile east of Central College, Franklin County, 0.4 mile downstream from Hoover Dam, and 3 miles southeast of Westerville.

Drainage area.--190 sq mi. Channel slope, main stream, 12.04 ft per mile; channel slope, tributary,29 ft per mile; length of longest watercourse, 36.2 miles; mean elevation of land surface, 1,061 ft above mean sea level; average slope of land surface, 140 ft per mile.

Gage.--Recording. Datum of gage is 814.96 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 13,200 cfs, and computation of flow over Hoover Dam at 23,800 cfs.

Bankfull stage.--12 ft.

Remarks.--Flow regulated by Hoover Reservoir (60,340 acre-ft, 190 sq mi) beginning in September 1954. Only annual peaks are shown.

Peak stages and discharges of Big Walnut Creek at Central College, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	June 19, 1939	14.2	9,310	1951	Jan. 4, 1951	12.31	6,960
1940	Mar. 3, 1940	12.4	7,270	1952	Jan. 27, 1952	15.3	11,700
				1953	July 19, 1953	9.92	3,940
1941	Dec. 30, 1940	7.65	2,830	1954	Mar. 29, 1954	9.18	3,760
1942	June 21, 1942	8.78	3,820	1955	Mar. 23, 1955	7.13	2,030
1943	Aug. 4, 1943	16.6	14,400				
1944	Mar. 7, 1944	11.6	6,400	1956	Mar. 8, 1956	8.04	2,320
1945	Mar. 6, 1945	14.90	11,000	1957	May 20, 1957	13.02	6,990
				1958	May 4, 1958	9.38	3,410
1946	June 17, 1946	11.00	5,300	1959	Jan. 21, 1959	19.75	23,800
1947	June 3, 1947	14.18	9,760	1960	Feb. 11, 1960	9.20	3,270
1948	Feb. 14, 1948	15.40	11,900				
1949	Jan. 5, 1949	10.88	5,500	1961	Apr. 26, 1961	12.52	6,440
1950	Jan. 6, 1950	12.98	7,900				

2290. Alum Creek at Columbus, Ohio

Location.--Lat 39°56'42", long 82°56'28", a quarter of a mile downstream from Livingston Avenue Bridge in Columbus, Franklin County, and 6 miles upstream from mouth.

Drainage area.--190 sq mi. Channel slope, main stream, 6.75 ft per mile; channel slope, tributary, 28 ft per mile; length of longest watercourse, 51.1 miles; mean elevation of land surface, 927 ft above mean sea level; average slope of land surface, 146 ft per mile.

Gage.--Recording. Datum of gage is 733.62 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 16,400 cfs and extended on basis of contracted-opening measurement at 26,400 cfs.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Dec. 6, 1923	9.18	3,200	1932	Jan. 22, 1932	8.48	3,080
	Dec. 14, 1923	9.38	3,340				
	Dec. 23, 1923	9.22	3,200	1933	Jan. 1, 1933	11.10	5,380
	Jan. 12, 1924	9.96	3,760		Mar. 15, 1933	a10.0	a4,160
	Mar. 29, 1924	12.1	6,130		Mar. 21, 1933	a10.0	a4,160
	June 9, 1924	11.68	5,610		May 11, 1933	9.07	3,450
					May 14, 1933	12.75	7,600
1925	Feb. 24, 1925	7.2	2,100				
				1934	Mar. 3, 1934	6.87	2,180
1926	Sept.17, 1926	9.08	3,130				
	Sept.24, 1926	9.36	3,340	1935	Aug. 11, 1935	6.96	2,230
1927	Jan. 19, 1927	10.75	4,550	1936	Feb. 15, 1936	b9.97	-
	Jan. 22, 1927	9.89	3,690		Feb. 26, 1936	8.50	3,080
	Mar. 21, 1927	11.60	5,480				
	May 20, 1927	10.56	4,330	1938	Mar. 14, 1938	7.97	3,500
	June 5, 1927	8.90	3,010		Apr. 7, 1938	9.54	4,820
1928	Dec. 1, 1927	12.24	6,260	1939	Mar. 13, 1939	8.07	3,680
	Dec. 14, 1927	9.80	3,620		June 19, 1939	12.08	7,270
1929	Jan. 19, 1929	12.20	6,260	1940	Mar. 4, 1940	9.49	4,820
	Jan. 25, 1929	9.59	3,480		Apr. 20, 1940	10.72	5,900
	Feb. 27, 1929	13.58	8,800				
	May 15, 1929	9.03	3,380	1941	June 4, 1941	9.90	5,170
1930	Dec. 19, 1929	9.65	3,820	1942	Apr. 10, 1942	7.34	3,110
	Jan. 9, 1930	10.3	4,450		June 22, 1942	7.83	3,460
	Jan. 13, 1930	9.24	3,520				
	Feb. 27, 1930	9.86	4,070	1943	Dec. 27, 1942	8.42	3,910
					Dec. 30, 1942	8.34	3,500
1931	July 22, 1931	6.62	2,010		Mar. 17, 1943	8.32	3,500
					Mar. 20, 1943	10.60	5,520
1932	Dec. 14, 1931	9.48	3,740		Aug. 5, 1943	11.40	6,340
	Jan. 18, 1932	9.95	4,160				

a Estimated.
b Backwater.

Peak stages and discharges of Alum Creek at Columbus, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Mar. 7, 1944	8.53	3,650	1951	Dec. 7, 1950	10.00	3,860
	Apr. 8, 1944	9.34	4,310		Jan. 4, 1951	11.13	4,800
	Apr. 12, 1944	8.63	3,730		Jan. 15, 1951	8.87	3,180
					Feb. 13, 1951	9.07	3,300
1945	Feb. 23, 1945	8.86	3,260				
	Mar. 3, 1945	8.50	3,020	1952	Dec. 31, 1951	8.58	3,000
	Mar. 7, 1945	12.17	6,180		Jan. 27, 1952	12.71	7,370
	Mar. 20, 1945	10.37	4,380		Mar. 11, 1952	9.16	3,360
	June 18, 1945	8.55	3,080		Apr. 24, 1952	8.89	3,180
1946	June 17, 1946	9.21	3,360	1953	July 19, 1953	7.55	2,480
1947	Jan. 31, 1947	10.63	4,310	1954	Mar. 29, 1954	b6.83	1,840
	May 26, 1947	9.72	3,660				
	June 3, 1947	13.12	8,160	1955	Feb. 22, 1955	8.68	3,060
	June 14, 1947	9.00	3,240		Mar. 5, 1955	10.59	4,310
	July 19, 1947	8.90	3,180		Mar. 23, 1955	9.14	3,300
1948	Feb. 14, 1948	11.81	5,760	1956	Feb. 26, 1956	11.91	5,920
	Mar. 24, 1948	10.27	4,070		May 28, 1956	11.22	4,920
	Mar. 27, 1948	11.08	4,800				
	Apr. 6, 1948	8.58	3,000	1957	Apr. 4, 1957	11.68	5,600
	Apr. 13, 1948	11.04	4,690		May 20, 1957	11.76	5,760
					May 22, 1957	9.43	3,480
1949	Jan. 5, 1949	9.38	3,480				
	Jan. 28, 1949	8.90	3,180	1958	May 4, 1958	10.12	3,820
	Feb. 15, 1949	9.24	3,360				
				1959	Jan. 22, 1959	19.59	26,400
1950	Jan. 6, 1950	11.00	4,690		Feb. 11, 1959	12.80	7,530
	Jan. 11, 1950	9.80	3,720				
	Jan. 17, 1950	9.47	3,540	1960	Feb. 11, 1960	8.31	2,530
	Jan. 24, 1950	9.58	3,600				
	Feb. 14, 1950	9.73	3,660	1961	Mar. 6, 1961	9.51	3,370
					Apr. 26, 1961	11.08	4,780
1951	Dec. 4, 1950	10.80	4,490				

b Backwater.

2295. Big Walnut Creek at Rees, Ohio

Location.--Lat 39°51'24", long 82°57'26", at highway bridge half a mile southwest of Rees, Franklin County, and 4¼ miles downstream from Alum Creek.

Drainage area.--544 sq mi. Channel slope, main stream, 6.47 ft per mile; channel slope, tributary, 26.6 ft per mile; length of longest watercourse, 60.0 miles; mean elevation of land surface, 989 ft above mean sea level, average slope of land surface, 131 ft per mile.

Gage.--Nonrecording prior to Nov. 18, 1927; recording thereafter. At site 0.3 mile upstream prior to Oct. 23, 1927. Prior to Oct. 1, 1924, at datum 2.00 ft higher. Datum of gage is 698.20 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 16,800 cfs, and extended on basis of contracted-opening measurement at 59,800 cfs.

Remarks.--Flood discharges for 1936 are based on discharge rating for 1935. Flow regulated by Hoover Reservoir (60,340 acre-ft, 190 sq mi) beginning in September 1954. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a20.5	-	1931	Apr. 23, 1931	8.43	4,860
				1932	Jan. 18, 1932	13.26	11,200
1922	Apr. 15, 1922	14.6	16,600	1933	May 14, 1933	16.20	17,100
1923	May 13, 1923	9.8	7,800	1934	Mar. 3, 1934	9.57	6,170
1924	Mar. 29, 1924	15.4	18,000	1935	Aug. 8, 1935	12.60	10,100
1925	Mar. 19, 1925	10.6	6,310				
				1936	Feb. 27, 1936	12.32	9,670
1926	Sept. 24, 1926	14.0	11,000				
1927	Jan. 20, 1927	16.8	16,700	1939	June 20, 1939	14.91	13,600
1928	Dec. 14, 1927	14.9	13,600	1940	Apr. 20, 1940	15.9	15,100
1929	Feb. 27, 1929	18.0	21,800				
1930	Jan. 9, 1930	13.2	11,000	1941	June 4, 1941	12.7	9,680

a Present datum; from floodmarks.

Peak stages and discharges of Big Walnut Creek at Rees, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 10, 1942	10.8	7,090	1952	Jan. 27, 1952	17.73	21,000
1943	Aug. 5, 1943	16.4	17,600	1953	July 19, 1953	8.98	4,710
1944	Apr. 8, 1944	13.3	11,000	1954	Mar. 30, 1954	9.66	5,460
1945	Mar. 7, 1945	17.33	19,900	1955	Mar. 22, 1955	11.41	7,700
1946	June 17, 1946	13.02	10,300	1956	May 28, 1956	11.95	8,610
1947	June 3, 1947	16.32	17,400	1957	Apr. 5, 1957	15.22	14,800
1948	Feb. 14, 1948	16.00	16,600	1958	May 5, 1958	13.02	9,540
1949	Jan. 5, 1949	13.44	11,100	1959	Jan. 22, 1959	22.03	59,800
1950	Jan. 7, 1950	15.38	15,200	1960	Feb. 11, 1960	12.21	8,390
1951	Jan. 4, 1951	15.23	14,800	1961	Apr. 26, 1961	13.88	11,000

2300. Scioto River near Circleville, Ohio

Location.--Lat 39°38'00", long 82°57'45", at highway bridge, 1¼ miles upstream from Darby Creek and 2½ miles northwest of Circleville, Pickaway County.

Drainage area.--2,635 sq mi.

Gage.--Recording. Datum of gage is 644.46 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Fairly well defined by current-meter measurements below 61,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Flow regulated by four reservoirs (combined capacity, 213,695 acre-ft) since 1954. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a31	-	1948	Apr. 14, 1948	21.38	50,000
				1949	Jan. 6, 1949	19.36	33,300
1939	June 20, 1939	19.9	35,000	1950	Jan. 8, 1950	20.97	43,000
1940	Apr. 21, 1940	21.8	55,600				
				1951	Dec. 5, 1950	20.50	40,300
1941	June 4, 1941	13.7	13,300	1952	Jan. 28, 1952	24.07	69,100
1942	Apr. 11, 1942	18.1	27,600	1953	Mar. 5, 1953	11.76	9,260
1943	Mar. 21, 1943	22.4	61,400	1954	Mar. 31, 1954	12.97	11,300
1944	Apr. 13, 1944	18.44	29,400	1955	Mar. 23, 1955	17.60	19,600
1945	Mar. 7, 1945	23.13	69,200				
				1956	Feb. 27, 1956	16.80	15,900
1946	June 19, 1946	18.95	32,400				
1947	June 4, 1947	21.17	48,200	1959	Jan. 22, 1959	27.2	100,000

a Maximum known.

2305. Big Darby Creek at Darbyville, Ohio
(Published as "Darby Creek" prior to October 1959)

Location.--Lat 39°42'05", long 83°06'35", at bridge on State Highway 316, three-eighths of a mile northeast of Darbyville, Pickaway County, and 3 miles downstream from Greenbrier Creek.

Drainage area.--533 sq mi. Channel slope, main stream, 5.28 ft per mile; channel slope, tributary, 22.7 ft per mile; length of longest watercourse, 86.5 miles; mean elevation of land surface, 950 ft above mean sea level; average slope land surface, 114 ft per mile.

Gage.--Nonrecording prior to Mar. 17, 1940; recording thereafter. Datum of gage is 713.6 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 21,300 cfs, and extended on basis of contracted-opening measurement at 49,000 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 4,500 cfs. Only annual peaks are shown prior to 1941.

Peak stages and discharges of Big Darby Creek at Darbyville, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Apr. 16, 1922	10.2	8,590
1923	Mar. 23, 1923	6.30	2,880
1924	June 9, 1924	13.7	19,100
1925	Mar. 20, 1925	6.4	2,990
1926	Apr. 8, 1926	8.9	6,420
1927	Jan. 21, 1927	11.3	11,400
1928	Dec. 14, 1927	10.5	8,990
1929	Feb. 27, 1929	a15.9	22,600
1930	Jan. 10, 1930	10.4	8,780
1931	Aug. 14, 1931	7.0	3,380
1932	Dec. 14, 1931	9.40	7,080
1933	May 14, 1933	12.7	15,400
1934	Mar. 5, 1934	6.9	3,600
1935	May 4, 1935	8.50	5,930
1936	Feb. 26, 1936	11.8	12,100
1938	Apr. 8, 1938	11.50	11,900
1939	June 20, 1939	9.96	7,800
1940	Apr. 20, 1940	11.1	11,000
1941	June 4, 1941	7.00	3,560
1942	Apr. 11, 1942	8.6	5,510
1943	Dec. 31, 1942	8.88	5,980
	Mar. 18, 1943	8.84	5,820
	Mar. 20, 1943	12.6	15,800
1944	Mar. 7, 1944	8.33	4,980
	Apr. 9, 1944	9.29	6,660
	Apr. 12, 1944	10.60	9,730
1945	Mar. 4, 1945	8.07	4,690
	Mar. 7, 1945	12.76	14,900
	Mar. 21, 1945	10.54	9,450
	May 19, 1945	8.17	4,830
1946	Mar. 20, 1946	8.78	5,790
	June 18, 1946	8.86	5,960
1947	Jan. 31, 1947	10.58	9,570
	Apr. 26, 1947	8.00	4,630
	May 26, 1947	8.50	5,320
	June 3, 1947	12.47	14,800
	June 15, 1947	9.58	7,270
1948	Jan. 3, 1948	9.36	6,870
	Feb. 15, 1948	11.12	10,900
	Mar. 25, 1948	8.08	4,760
	Mar. 28, 1948	9.98	8,130
	Apr. 14, 1948	11.40	11,600
1949	Jan. 6, 1949	10.70	9,820
	Jan. 25, 1949	8.52	5,320
	Jan. 28, 1949	10.00	8,130
1949	Feb. 16, 1949	8.84	5,790
1950	Jan. 7, 1950	10.00	8,130
	Jan. 11, 1950	9.60	7,270
	Jan. 17, 1950	11.09	10 900
	Jan. 25, 1950	8.97	6,130
	Feb. 15, 1950	11.31	11,400
	Apr. 6, 1950	7.98	4,630
1951	Nov. 21, 1950	8.65	5,680
	Dec. 4, 1950	11.40	11,100
	Jan. 4, 1951	10.85	9,580
	Jan. 15, 1951	8.29	5,280
	Feb. 14, 1951	10.56	9,110
	Feb. 22, 1951	12.57	14,300
	May 3, 1951	7.80	4,650
1952	Jan. 27, 1952	14.70	21,600
	Feb. 5, 1952	8.59	5,680
	Mar. 12, 1952	9.46	7,010
	Mar. 24, 1952	8.16	5,150
	Apr. 25, 1952	8.73	5,820
1953	May 23, 1953	6.73	3,430
1954	July 21, 1954	7.17	3,680
1955	Feb. 22, 1955	8.33	5,100
	Mar. 23, 1955	9.27	6,650
1956	Feb. 27, 1956	10.25	8,250
	Apr. 4, 1956	8.10	4,800
	May 29, 1956	8.38	4,660
1957	Apr. 5, 1957	12.83	13,800
	Apr. 9, 1957	8.51	5,390
	May 21, 1957	8.25	4,940
	May 23, 1957	8.92	6,000
1958	Dec. 21, 1957	8.08	4,800
	Dec. 27, 1957	8.06	4,800
	May 5, 1958	10.56	8,790
	June 11, 1958	11.08	9,700
	June 15, 1958	10.71	8,970
	July 22, 1958	9.03	6,140
	Aug. 3, 1958	8.61	5,540
1959	Jan. 22, 1959	17.94	49,000
	Feb. 11, 1959	13.12	14,400
	Feb. 15, 1959	8.60	4,800
1960	Feb. 11, 1960	8.33	4,730
1961	Mar. 6, 1961	9.24	6,390
	Apr. 23, 1961	8.06	4,600
	Apr. 27, 1961	10.68	8,900
	Aug. 11, 1961	8.43	5,120

a Backwater from ice.

2306. Hominy Creek at Circleville, Ohio

Location.--Lat 39°35'25", long 82°55'25", at farm bridge adjacent to State Highway 56, 0.4 mile southeast of railroad crossing at east edge of Circleville, Pickaway County.

Drainage area.--6.28 sq mi. Length of main stream, 4.64 miles; average slope main stream, 35 ft per mile; average slope main stream and tributaries, 56 ft per mile; slope at gage, 22 ft per mile; length divided by average width of basin, 3.43.

Gage.--Crest-stage gage. Altitude of gage is 687 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 376 cfs and indirect measurements at 1,020 cfs and 2,080 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	July 14, 1947	10.16	2,100	1955	-	5.51	500
1948	-	7.63	1,010				
1949	-	5.40	480	1956	-	6.56	740
1950	-	5.58	520	1957	-	5.83	560
				1958	-	7.68	1,040
1951	-	5.24	450	1959	Jan. 21, 1959	6.28	660
1952	-	-	a350	1960	May 26, 1960	8.27	1,020
1953	-	-	a350				
1954	-	5.87	580	1961	May 8, 1961	8.59	1,130

a Less than figure shown.

2310. Deer Creek at Williamsport, Ohio

Location.--Lat 39°35'09", long 83°07'22", at bridge on U.S. Highway 22 at Williamsport, Pickaway County, 2 miles downstream from Dry Run.

Drainage area.--331 sq mi. Channel slope, main stream, 7.32 ft per mile; channel slope, tributary, 16.8 ft per mile; length of longest watercourse, 57.7 miles; mean elevation of land surface, 963 ft above mean sea level; average slope of land surface, 96 ft per mile.

Gage.--Nonrecording prior to Feb. 29, 1940; recording thereafter. Datum of gage is 718.7 ft above mean sea level, adjustment of 1912. Prior to Aug. 24, 1954, at datum 721.7 ft.

Stage-discharge relation.--Defined by current-meter measurements below 23,500 cfs, and contracted-opening measurement at 39,600 cfs for peak of 1959. Prior to 1946, defined below 6,060 cfs.

Remarks.--Base for partial-duration series, 3,000 cfs. Only annual peaks are shown prior to 1941 and for 1959 and 1961.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Jan. 20, 1927	9.2	13,000	1942	Apr. 10, 1942	6.74	4,200
1928	June 20, 1928	8.4	9,610				
1929	Feb. 26, 1929	11.7	29,300	1943	Dec. 30, 1942	8.0	8,100
1930	Dec. 19, 1929	7.40	6,020		Mar. 17, 1943	6.10	3,270
					Mar. 20, 1943	10.6	23,600
1931	Sept.19, 1931	8.30	9,220				
1932	Dec. 14, 1931	6.63	4,090	1944	Mar. 7, 1944	7.35	6,050
1933	May 14, 1933	8.9	11,600		Apr. 9, 1944	6.00	3,150
1934	Mar. 4, 1934	5.6	3,000		Apr. 12, 1944	6.52	3,850
1935	Sept. 3, 1935	8.15	8,840				
				1945	Feb. 23, 1945	7.17	5,150
1938	Mar. 15, 1938	8.00	8,090		Feb. 26, 1945	7.18	5,150
1939	Apr. 16, 1939	7.82	7,370		Mar. 3, 1945	7.19	5,150
1940	Apr. 20, 1940	9.55	16,600		Mar. 7, 1945	9.94	18,700
					Mar. 21, 1945	8.12	8,500
1941	June 4, 1941	6.4	3,700		Apr. 25, 1945	7.60	6,700

Peak stages and discharges of Deer Creek at Williamsport, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 18, 1945	6.25	3,400	1950	Jan. 27, 1950	7.04	3,490
	June 18, 1945	6.28	3,550		Feb. 10, 1950	6.53	3,090
					Feb. 14, 1950	8.57	5,130
1946	Feb. 6, 1946	6.68	3,550				
	Feb. 14, 1946	6.40	3,260	1951	Dec. 4, 1950	10.28	9,100
	May 28, 1946	7.08	3,960		Dec. 8, 1950	7.48	3,920
	June 18, 1946	9.83	12,200		Jan. 4, 1951	9.16	6,000
					Jan. 15, 1951	8.23	4,640
1947	Jan. 31, 1947	8.73	6,810		Feb. 13, 1951	8.96	5,690
	Apr. 22, 1947	8.42	5,880		Feb. 22, 1951	11.14	14,300
	Apr. 26, 1947	6.98	3,850				
	May 18, 1947	6.93	3,750	1952	Jan. 27, 1952	12.49	24,400
	May 26, 1947	7.93	4,950		Feb. 4, 1952	7.05	4,180
	June 3, 1947	8.67	6,520		Mar. 11, 1952	7.39	4,620
					Mar. 23, 1952	6.90	4,070
1948	Jan. 2, 1948	6.80	3,650		Apr. 25, 1952	7.14	4,290
	Feb. 15, 1948	10.05	12,800				
	Mar. 28, 1948	9.80	11,300	1953	May 24, 1953	4.83	2,090
	Apr. 13, 1948	8.38	5,880				
				1954	June 17, 1954	7.10	4,290
1949	Dec. 17, 1948	6.15	3,080				
	Jan. 6, 1949	9.56	10,000	1955	Mar. 5, 1955	10.6	4,640
	Jan. 25, 1949	8.20	5,460		Mar. 22, 1955	11.5	5,770
	Jan. 28, 1949	8.88	7,280				
	Feb. 16, 1949	7.89	4,950	1956	Mar. 29, 1956	9.3	3,270
	Mar. 26, 1949	6.34	3,170		Apr. 4, 1956	11.3	5,510
1950	Jan. 7, 1950	9.47	6,510	1959	Jan. 22, 1959	17.6	39,600
	Jan. 11, 1950	6.59	3,170				
	Jan. 17, 1950	7.27	3,740	1961	-	-	a6,000

a Estimated.

2315. Scioto River at Chillicothe, Ohio

Location.--Lat 39°20'31", long 82°58'27", 450 ft downstream from Bridge Street Bridge, on U.S. Highway 23, in Chillicothe, Ross County.

Drainage area.--3,847 sq mi.

Gage.--Nonrecording prior to Aug. 7, 1930; recording thereafter. At sites about 450 ft upstream prior to Aug. 7, 1930. Datum of gage is 594.0 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 122,000 cfs.

Bankfull stage.--16 ft.

Remarks.--Gage heights for period 1908-21 from U.S. Weather Bureau and are adjusted to present datum. Only annual peaks are shown for period 1908-30, and after closure of Delaware Dam in 1947. Base for partial-duration series, 18,000 cfs for period 1931-46.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1898	Mar. 24, 1898	31.3	-	1919	Mar. 19, 1919	18.3	38,500
				1920	Apr. 22, 1920	22.9	64,100
1908	Feb. 17, 1908	22.0	58,600				
1909	Feb. 26, 1909	24.6	75,300	1921	Mar. 30, 1921	22.8	60,200
1910	Mar. 2, 1910	27.2	93,700	1922	Apr. 16, 1922	20.0	48,100
				1923	May 15, 1923	12.9	20,900
1911	Feb. 1, 1911	17.2	33,300	1924	Mar. 31, 1924	22.9	60,700
1912	Mar. 31, 1912	18.8	41,100	1925	Mar. 21, 1925	11.1	15,200
1913	Mar. 26, 1913	a39.8	b260,000				
1914	Mar. 30, 1914	15.7	27,200	1926	Apr. 10, 1926	15.9	31,600
1915	Feb. 4, 1915	18.2	38,000	1927	Mar. 23, 1927	22.7	59,800
				1928	Dec. 16, 1927	19.1	44,300
1916	Mar. 29, 1916	23.3	66,600	1929	Feb. 28, 1929	26.0	88,700
1917	Mar. 15, 1917	16.4	29,900	1930	Jan. 15, 1930	20.4	49,800
1918	Feb. 14, 1918	19.0	42,100				

a Maximum known.
b Estimated by Franklin County Conservancy District.

Peak stages and discharges of Scioto River at Chillicothe, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 13, 1931	11.82	17,000	1940	Apr. 21, 1940	23.90	70,600
1932	Dec. 15, 1931	16.36	33,200	1941	June 5, 1941	12.1	16,400
	Dec. 24, 1931	12.58	19,500	1942	Apr. 12, 1942	17.00	32,400
	Jan. 4, 1932	12.65	19,500	1943	Jan. 1, 1943	18.32	38,500
	Jan. 8, 1932	12.60	19,500		Mar. 21, 1943	23.8	69,900
	Jan. 20, 1932	16.15	32,400		Aug. 7, 1943	13.20	19,300
	Jan. 25, 1932	15.39	29,300	1944	Mar. 9, 1944	14.70	23,700
	Feb. 1, 1932	14.16	24,900		Mar. 18, 1944	13.00	18,700
1933	Jan. 2, 1933	18.00	38,000		Apr. 9, 1944	14.60	23,400
	Mar. 16, 1933	17.22	34,000		Apr. 14, 1944	16.85	31,600
	Mar. 20, 1933	19.12	44,100	1945	Feb. 24, 1945	13.13	19,000
	Apr. 13, 1933	13.58	20,200		Feb. 29, 1945	14.58	23,400
	Apr. 20, 1933	15.72	27,400		Mar. 8, 1945	25.80	83,600
	May 15, 1933	24.74	84,800		Mar. 22, 1945	21.80	57,500
1934	Mar. 5, 1934	10.60	13,100		May 20, 1945	16.34	29,500
					June 20, 1945	14.84	24,100
1935	May 5, 1935	14.47	23,000	1946	Feb. 16, 1946	12.81	18,900
	Sept. 4, 1935	14.35	22,700		Mar. 1, 1946	12.99	19,400
1936	Feb. 28, 1936	19.68	47,600		Mar. 21, 1946	13.56	20,900
	Mar. 26, 1936	14.97	24,700		June 19, 1946	18.44	39,600
	Apr. 7, 1936	13.52	20,000	1947	June 5, 1947	20.74	51,100
1937	Jan. 16, 1937	25.60	85,900	1948	Apr. 15, 1948	22.50	61,600
	Jan. 20, 1937	20.80	54,400	1949	Jan. 29, 1949	18.58	38,600
	Jan. 23, 1937	27.68	101,000	1950	Jan. 8, 1950	20.52	48,100
	Jan. 26, 1937	25.42	84,500	1951	Jan. 6, 1951	19.73	44,000
	June 24, 1937	17.36	35,000	1952	Jan. 28, 1952	26.66	85,400
	June 27, 1937	14.12	21,700	1953	Mar. 6, 1953	9.40	11,000
	June 19, 1937	13.70	20,500	1954	Apr. 1, 1954	9.90	12,000
1938	Dec. 20, 1937	12.88	18,300	1955	Mar. 24, 1955	15.88	27,800
	Feb. 22, 1938	14.08	21,700	1956	Feb. 28, 1956	14.23	21,800
	Mar. 16, 1938	17.80	36,300	1957	Apr. 6, 1957	21.97	55,000
	Apr. 10, 1938	19.70	47,200	1958	June 16, 1958	18.14	34,600
1939	Feb. 2, 1939	14.24	22,000	1959	Jan. 23, 1959	32.50	144,000
	Mar. 2, 1939	13.10	18,900	1960	Feb. 12, 1960	14.17	21,400
	Mar. 15, 1939	16.76	31,600	1961	Apr. 28, 1961	16.59	28,900
	Apr. 18, 1939	17.31	33,900				
	June 21, 1939	17.40	34,400				
1940	Mar. 5, 1940	19.07	42,600				

2316. East Fork Paint Creek near Sedalia, Ohio

Location.--Lat 39°42'35", long 83°27'45", at culvert on State Highway 38, 1.8 miles southeast of junction of State Highways 38 and 323 in Sedalia, Madison County.

Drainage area.--4.23 sq mi. Length of main stream, 4.84 miles; average slope main stream, 8.1 ft per mile; average slope main stream and tributaries, 9.0 ft per mile; slope at gage, 9 ft per mile; length divided by average width of basin, 5.54.

Gage.--Crest-stage gage. Altitude of gage is 1,013 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 78 cfs and by indirect measurements at 253, 274, and 515 cfs.

Bankfull stage.--13 ft.

Remarks.--Channel dredged in March 1949. Only annual peaks are shown.

Peak stages and discharges of East Fork Paint Creek near Sedalia, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	12.99	152	1955	-	12.20	101
1948	Mar. 22, 1948	13.77	292				
1949	-	13.46	230	1956	Apr. 2, 1956	13.64	260
1950	-	11.40	93	1957	Apr. 4, 1957	13.30	230
				1958	-	13.33	235
1951	Feb. 21, 1951	13.60	265	1959	Jan. 21, 1959	14.47	515
1952	-	13.72	282	1960	-	11.12	44
1953	-	10.26	20				
1954	-	12.60	132	1961	May 8, 1961	12.93	183

2320. Paint Creek near Greenfield, Ohio

Location.--Lat 39°22'50", long 83°22'30", at highway bridge in Fayette County, a quarter of a mile north of county line, 0.6 mile upstream from Stone Run, and 2 miles north of Greenfield, Highland County.

Drainage area.--251 sq mi.

Gage.--Nonrecording prior to Feb. 14, 1940; recording thereafter. Datum of gage is 845.30 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,800 cfs.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 2,000 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Aug. 17, 1926	10.46	12,900	1948	Apr. 13, 1948	7.88	5,580
1927	Jan. 22, 1927	7.50	4,610				
1928	Dec. 14, 1927	8.7	7,460	1949	Dec. 15, 1948	6.00	2,460
1929	Feb. 27, 1929	8.5	6,930		Jan. 5, 1949	8.48	6,930
1930	Dec. 19, 1929	6.40	3,040		Jan. 25, 1949	7.08	4,030
					Jan. 27, 1949	7.50	4,780
1931	July 22, 1931	7.8	5,380		Feb. 16, 1949	6.32	2,770
1932	June 27, 1932	6.05	2,580		Mar. 27, 1949	6.08	2,550
1933	May 14, 1933	9.40	9,500		June 26, 1949	6.95	3,760
1934	July 30, 1934	5.32	2,060				
1935	Sept. 3, 1935	8.00	4,780	1950	Jan. 6, 1950	6.61	3,190
					Jan. 24, 1950	5.56	2,100
1940	Mar. 3, 1940	6.9	4,040		Jan. 26, 1950	6.20	2,650
	Apr. 20, 1940	10.8	13,900		Jan. 29, 1950	5.84	2,340
					Feb. 9, 1950	6.25	2,710
1941	June 10, 1941	4.9	1,690		Feb. 14, 1950	6.65	3,270
					Apr. 3, 1950	6.32	2,770
1942	Apr. 9, 1942	6.17	2,970		Sept.21, 1950	5.74	2,260
1943	Dec. 31, 1942	7.2	4,550	1951	Nov. 20, 1950	5.82	2,300
	Mar. 20, 1943	9.8	10,700		Dec. 4, 1950	8.24	6,210
					Jan. 5, 1951	6.98	3,850
1944	Mar. 6, 1944	7.17	4,550		Jan. 14, 1951	6.87	3,600
					Feb. 13, 1951	7.06	3,940
1945	Feb. 22, 1945	6.9	3,680		Feb. 22, 1951	8.07	5,990
	Feb. 26, 1945	7.18	4,210				
	Mar. 3, 1945	6.90	3,680	1952	Jan. 3, 1952	5.41	2,000
	Mar. 7, 1945	10.19	11,900		Jan. 27, 1952	9.10	8,610
	Mar. 20, 1945	8.22	6,210		Feb. 3, 1952	6.27	2,710
	Apr. 25, 1945	7.63	5,080				
	May 17, 1945	5.90	2,380	1953	Jan. 28, 1953	3.61	990
1946	May 17, 1946	6.65	3,270	1954	June 18, 1954	4.24	1,310
	June 19, 1946	6.96	3,760				
				1955	Mar. 6, 1955	5.82	2,300
1947	Jan. 30, 1947	7.48	4,780		Mar. 21, 1955	6.80	3,510
	Apr. 22, 1947	6.93	3,760				
	Apr. 25, 1947	5.54	2,140	1956	Feb. 25, 1956	5.5	2,030
	June 14, 1947	6.33	2,840		Apr. 4, 1956	7.1	4,030
					May 28, 1956	6.0	2,460
1948	Feb. 13, 1948	7.81	5,380				
	Mar. 16, 1948	6.12	2,550	1959	Jan. 21, 1959	11.0	14,500
	Mar. 28, 1948	7.53	4,880				

2325. Rocky Fork near Barretts Mills, Ohio

Location.--Lat 39°13'05", long 83°23'05", at highway bridge, 1.1 miles north of Barretts Mills, Highland County, 2 miles east of Rainsboro, 2¾ miles upstream from mouth, and 6 miles downstream from Rocky Fork Reservoir.

Drainage area.--141 sq mi.

Gage.--Nonrecording prior to Feb. 15, 1940; recording thereafter. Datum of gage is 770.7 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 5,620 cfs.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown. Flow regulated by Rocky Fork Reservoir since 1952 (capacity, 34,100 acre-ft).

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 19, 1940	13.4	8,170	1952	Mar. 11, 1952	7.15	2,580
				1953	May 22, 1953	7.83	3,030
1941	July 11, 1941	7.30	2,830	1954	July 21, 1954	11.67	6,150
1942	Apr. 9, 1942	9.78	4,750	1955	Mar. 21, 1955	7.84	2,980
1943	Mar. 19, 1943	15.4	12,700				
1944	Mar. 7, 1944	9.14	4,170	1956	Apr. 3, 1956	7.84	2,980
1945	Mar. 6, 1945	15.56	13,200	1957	Apr. 4, 1957	11.37	5,880
				1958	Aug. 3, 1958	14.32	11,100
1946	June 17, 1946	9.00	3,980	1959	Jan. 21, 1959	11.53	6,000
1947	Jan. 30, 1947	11.20	5,990	1960	Feb. 10, 1960	7.81	2,860
1948	Feb. 14, 1948	13.31	8,550				
1949	Jan. 24, 1949	11.48	6,290	1961	May 8, 1961	10.75	4,980
1950	Apr. 4, 1950	11.88	6,720				
1951	Jan. 14, 1951	11.73	6,500				

2340. Paint Creek near Bourneville, Ohio

Location.--Lat 39°15'49", long 83°10'01", at highway bridge 1¼ miles southwest of Bourneville, Ross County, and 1¼ miles upstream from Upper Twin Creek.

Drainage area.--808 sq mi. Channel slope, main stream, 7.51 ft per mile; Channel slope, tributary, 24.2 ft per mile; length of longest watercourse, 80.5 miles; mean elevation of land surface, 970 ft above mean sea level; average slope of land surface, 227 ft per mile.

Gage.--Nonrecording prior to Aug. 26, 1924, and Jan. 20, 1938, to May 3, 1939; recording, Aug. 27, 1924, to Jan. 25, 1937, and after May 3, 1939. At site 9 miles upstream at datum 700.81 ft above mean sea level prior to Sept. 30, 1923. At site 6 miles upstream at datum 687.64 ft above mean sea level Jan. 20, 1938, to May 3, 1939. Datum of gage is 665.2 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 41,600 cfs.

Remarks.--Flow slightly regulated by Rocky Fork Reservoir (34,100 acre-ft, 115 sq mi) since 1952. Base for partial-duration series, 9,000 cfs. Only annual peaks are shown prior to 1940 and after 1951.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Dec. 24, 1921	-	32,000	1931	July 21, 1931	14.20	17,300
1923	Mar. 22, 1923	-	12,300	1932	Feb. 4, 1932	13.35	15,200
1924	Dec. 31, 1923	15.3	24,400	1933	May 14, 1933	18.72	48,100
1925	Apr. 23, 1925	13.6	16,200	1934	Mar. 4, 1934	11.20	8,850
				1935	Aug. 16, 1935	15.7	26,600
1926	Aug. 20, 1926	17.9	41,700				
1927	Jan. 22, 1927	14.7	21,100	1936	Apr. 6, 1936	13.9	14,900
1928	Dec. 14, 1927	13.6	15,700	1937	Jan. 25, 1937	18.92	49,700
1929	Feb. 27, 1929	12.4	12,700	1938	Mar. 14, 1938	-	10,100
1930	Dec. 19, 1929	13.58	15,700	1939	Apr. 16, 1939	16.04	22,100

Peak stages and discharges of Paint Creek near Bourneville, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	13.51	14,100	1948	Mar. 16, 1948	14.98	22,600
	Apr. 20, 1940	18.8	48,900		Mar. 27, 1948	14.27	17,900
	May 31, 1940	12.11	10,600		Apr. 12, 1948	16.60	29,000
1941	July 11, 1941	9.95	6,250	1949	Dec. 15, 1948	14.18	17,500
					Jan. 5, 1949	14.30	17,900
1942	Apr. 9, 1942	13.34	15,000		Jan. 24, 1949	14.75	20,000
					Jan. 28, 1949	14.86	20,500
1943	Dec. 30, 1942	13.7	16,600		Feb. 15, 1949	14.50	18,700
	Mar. 17, 1943	11.5	9,150		Mar. 26, 1949	12.90	12,600
	Mar. 20, 1943	18.4	45,700				
	July 29, 1943	12.4	11,600	1950	Jan. 6, 1950	14.02	16,700
					Jan. 24, 1950	12.76	12,300
1944	Mar. 7, 1944	13.4	15,400		Jan. 26, 1950	12.83	12,300
					Feb. 9, 1950	14.27	17,900
1945	Feb. 22, 1945	14.5	20,100		Feb. 14, 1950	12.50	11,400
	Feb. 27, 1945	15.09	23,200		Apr. 4, 1950	14.55	19,100
	Mar. 3, 1945	13.59	16,200		Sept.21, 1950	13.28	13,900
	Mar. 6, 1945	19.2	52,100				
	Mar. 20, 1945	15.94	27,800	1951	Nov. 20, 1950	13.4	14,300
	May 17, 1945	11.88	9,900		Dec. 3, 1950	-	a22,000
	Aug. 2, 1945	12.92	13,400		Jan. 4, 1951	14.60	16,600
					Jan. 15, 1951	15.40	19,500
1946	Oct. 2, 1945	11.60	9,000		Feb. 13, 1951	14.79	17,300
	Feb. 6, 1946	11.69	9,220		Feb. 21, 1951	13.45	13,100
	May 17, 1946	12.29	10,800				
	June 17, 1946	13.30	14,400	1952	Jan. 27, 1952	14.27	15,700
				1953	May 22, 1953	15.16	18,700
1947	Nov. 26, 1946	12.38	11,100	1954	July 21, 1954	12.56	11,100
	Jan. 2, 1947	12.80	12,400	1955	Mar. 22, 1955	13.73	14,000
	Jan. 15, 1947	11.78	9,460				
	Jan. 31, 1947	14.60	20,600	1956	Mar. 8, 1956	12.90	12,000
	Apr. 16, 1947	12.20	10,500	1957	Apr. 5, 1957	16.69	25,000
	Apr. 21, 1947	11.70	9,220	1958	Aug. 3, 1958	16.18	22,800
	Apr. 25, 1947	11.94	9,700	1959	Jan. 22, 1959	16.63	24,700
				1960	Feb. 11, 1960	13.86	14,400
1948	Jan. 1, 1948	12.20	10,500				
	Feb. 14, 1948	16.30	30,200	1961	May 9, 1961	15.49	19,900
	Feb. 28, 1948	12.22	10,500				

a Estimated.

2341. Indian Creek at Massieville, Ohio

Location.--Lat 39°15'45", long 82°58'10", at private bridge adjacent to east side of U.S. Highway 23, 0.2 mile south of schoolhouse at Massieville, Ross County.

Drainage area.--9.71 sq mi. Length of main stream, 4.86 miles; average slope main stream, 48 ft per mile; average slope main stream and tributaries, 65 ft per mile; slope at gage, 17 ft per mile; length divided by average width of basin, 2.43.

Gage.--Crest-stage gage. Altitude of gage is 605 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs, and by indirect measurements of peak flow.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	13.47	1,120	1955	-	12.55	790
1948	-	15.83	3,440				
1949	-	13.37	1,060	1956	-	12.13	620
1950	-	13.32	1,030	1957	Apr. 4, 1957	13.54	1,180
				1958	-	13.23	1,020
1951	-	14.80	2,120	1959	Jan. 21, 1959	12.79	866
1952	-	13.24	1,000	1960	-	11.63	516
1953	May 22, 1953	16.95	5,640				
1954	Apr. 18, 1954	13.4	1,090	1961	Aug. 11, 1961	13.85	1,390

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2345. Scioto River at Higby, Ohio

Location.--Lat 39°12'44", long 82°51'35", at highway bridge, three-quarters of a mile downstream from Walnut Creek and 1¼ miles north of Higby, Ross County.

Drainage area.--5,129 sq mi.

Gage.--Recording. Datum of gage is 567.6 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 115,000 cfs.

Bankfull stage.--14 ft.

Remarks.--Flow slightly regulated by five reservoirs (combined capacity, 247,795 acre-ft) since 1947. Storage effect negligible on annual peaks prior to 1955. Base for partial-duration series, 24,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a31.6	-	1945	Mar. 8, 1945	23.00	106,000
					Mar. 22, 1945	20.30	70,360
1931	July 22, 1931	13.25	26,000		May 20, 1945	15.23	33,800
					June 20, 1945	13.26	26,860
1932	Dec. 16, 1931	14.92	32,500				
	Dec. 25, 1931	13.11	25,600	1946	Feb. 7, 1946	12.50	24,400
	Jan. 20, 1932	14.70	32,300		May 17, 1946	14.64	31,400
	Jan. 25, 1932	14.11	29,400		June 20, 1946	17.10	42,000
	Jan. 30, 1932	14.42	30,800				
				1947	Jan. 31, 1947	16.40	38,600
1933	Jan. 3, 1933	16.09	40,600		Apr. 23, 1947	14.88	32,600
	Mar. 16, 1933	16.61	44,100		Apr. 26, 1947	13.16	26,540
	Mar. 20, 1933	19.15	65,400		May 27, 1947	14.08	29,560
	Apr. 19, 1933	15.41	36,200		June 5, 1947	17.62	44,500
	May 16, 1933	22.20	94,100				
				1948	Jan. 4, 1948	12.49	24,400
1934	Mar. 4, 1934	11.38	20,400		Feb. 16, 1948	17.68	45,000
					Mar. 17, 1948	14.50	31,000
1935	May 3, 1935	13.97	29,000		Mar. 28, 1948	17.06	42,000
	May 7, 1935	14.13	29,400		Apr. 14, 1948	20.36	74,800
	Aug. 17, 1935	15.95	31,700				
	Sept. 4, 1935	16.67	34,000	1949	Dec. 16, 1948	15.48	35,000
					Jan. 7, 1949	16.92	41,000
1936	Feb. 29, 1936	17.69	52,400		Jan. 28, 1949	18.13	48,000
	Mar. 26, 1936	13.37	26,700		Feb. 16, 1949	16.43	38,600
	Apr. 6, 1936	15.43	36,200		Mar. 27, 1949	14.86	32,600
1937	Jan. 10, 1937	14.07	28,200	1950	Jan. 9, 1950	18.09	48,000
	Jan. 23, 1937	26.4	177,000		Jan. 13, 1950	15.04	33,000
	June 25, 1937	15.38	33,400		Jan. 19, 1950	16.03	37,000
					Jan. 27, 1950	16.77	40,500
1938	Dec. 19, 1937	13.19	25,300		Feb. 10, 1950	14.64	31,400
	Feb. 22, 1938	13.08	25,000		Feb. 16, 1950	17.74	45,000
	Mar. 17, 1938	17.76	51,700		Feb. 23, 1950	12.82	25,300
	Mar. 31, 1938	14.03	27,800		Apr. 25, 1950	14.82	32,200
	Apr. 10, 1938	18.31	56,200				
	May 24, 1938	13.38	25,900	1951	Dec. 6, 1950	17.80	45,600
					Jan. 6, 1951	17.72	45,200
1939	Feb. 2, 1939	13.12	24,800		Jan. 16, 1951	-	b39,000
	Feb. 11, 1939	13.11	24,800		Feb. 13, 1951	17.50	44,000
	Feb. 16, 1939	15.13	31,700		Feb. 23, 1951	17.94	46,600
	Mar. 15, 1939	15.22	32,200				
	Mar. 30, 1939	13.90	27,400	1952	Jan. 3, 1952	16.30	37,500
	Apr. 17, 1939	18.92	61,100		Jan. 29, 1952	22.55	96,400
	June 22, 1939	15.76	35,400		Feb. 4, 1952	16.47	38,500
					Mar. 13, 1952	15.33	33,000
1940	Mar. 5, 1940	17.40	47,000		Mar. 23, 1952	14.47	29,800
	Apr. 21, 1940	22.84	112,000		Apr. 26, 1952	13.73	27,100
1941	June 5, 1941	10.73	18,200	1953	May 22, 1953	11.82	21,700
1942	Apr. 12, 1942	15.7	34,200	1954	Apr. 18, 1954	8.43	13,100
1943	Dec. 31, 1942	18.13	53,300	1955	Feb. 7, 1955	13.35	24,500
	Mar. 20, 1943	22.0	100,000		Feb. 24, 1955	13.36	24,500
					Mar. 1, 1955	13.82	25,800
1944	Apr. 14, 1944	15.32	34,200		Mar. 5, 1955	15.48	32,200
					Mar. 23, 1955	16.36	37,000
1945	Feb. 23, 1945	15.14	33,400				
	Feb. 26, 1945	16.33	38,200	1956	Feb. 18, 1956	13.93	26,100

a Maximum known.
b Estimated.

Peak stages and discharges of Scioto River at Higby, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Mar. 8, 1956	14.19	27,200	1958	Aug. 4, 1958	15.94	33,100
	Mar. 29, 1956	13.99	26,400				
	Apr. 5, 1956	15.30	31,400	1959	Jan. 23, 1959	26.40	160,000
					Feb. 13, 1959	17.70	44,100
1957	Apr. 6, 1957	19.82	66,800				
	May 24, 1957	14.67	29,000	1960	Jan. 15, 1960	14.43	27,400
					Feb. 11, 1960	16.41	35,700
1958	Dec. 21, 1957	14.56	28,000				
	Apr. 29, 1958	13.85	25,400	1961	Mar. 9, 1961	15.60	33,000
	May 7, 1958	16.64	36,800		Apr. 16, 1961	13.81	26,500
	June 16, 1958	17.21	40,600		Apr. 26, 1961	16.11	35,300
	July 23, 1958	15.68	32,200		May 9, 1961	18.68	51,800

2350. Salt Creek at Tarlton, Ohio

Location.--Lat 39°33'45", long 82°47'00", at Tarlton Cross Mound State Park, Fairfield County, half a mile northwest of Tarlton, Pickaway County, and 6¼ miles upstream from Plum Run.

Drainage area.--10.6 sq mi. Length of main stream, 6.72 miles; average slope main stream, 25 ft per mile; average slope main stream and tributaries, 32 ft per mile; slope at gage, 26 ft per mile; length divided by average width of basin, 4.26.

Gage.--Recording. Datum of gage is 875.36 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs, and extended on basis of slope-area measurement at 2,710 cfs.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Nov. 26, 1946	3.36	550	1953	July 1, 1953	3.28	545
	Jan. 30, 1947	4.28	1,020				
	Apr. 16, 1947	4.30	1,020	1954	June 13, 1954	5.28	1,720
	Apr. 20, 1947	3.83	780				
	May 17, 1947	3.60	660	1955	Mar. 4, 1955	3.55	655
	May 25, 1947	3.69	705		Mar. 21, 1955	3.36	578
	July 9, 1947	3.51	615				
	July 14, 1947	4.73	1,300	1956	Feb. 25, 1956	3.31	560
	July 18, 1947	6.40	2,780		Mar. 8, 1956	3.25	542
	Aug. 8, 1947	5.20	1,640		Mar. 28, 1956	3.24	542
	Sept. 12, 1947	5.20	1,640		Apr. 3, 1956	3.58	675
					May 10, 1956	3.41	595
1948	Jan. 1, 1948	3.56	648				
	Feb. 14, 1948	-	a1,000	1957	Feb. 9, 1957	3.71	715
	Mar. 16, 1948	4.41	1,080		Apr. 4, 1957	4.52	1,140
	Mar. 27, 1948	5.14	1,600				
	Apr. 12, 1948	4.40	1,080	1958	June 14, 1958	4.35	1,050
					July 11, 1958	3.41	590
1949	Dec. 15, 1948	3.58	670		July 18, 1958	3.55	652
	Jan. 24, 1949	4.10	910		July 22, 1958	3.65	698
	Jan. 27, 1949	3.23	525				
	Mar. 26, 1949	3.94	835	1959	Jan. 21, 1959	4.56	1,190
1950	Jan. 24, 1950	4.30	1,020	1960	Jan. 15, 1960	3.17	514
	Apr. 3, 1950	4.40	1,080		Feb. 10, 1960	3.88	821
					May 26, 1960	3.74	758
1951	Dec. 2, 1950	3.42	585				
	Jan. 4, 1951	3.25	525	1961	Apr. 25, 1961	4.14	952
	Jan. 14, 1951	3.64	692		May 8, 1961	6.3	2,710
	July 28, 1951	4.28	1,020		June 8, 1961	3.32	608
					Aug. 2, 1961	4.64	1,290
1952	Jan. 26, 1952	3.52	625		Aug. 10, 1961	5.00	1,770
1953	June 9, 1953	3.24	525				

a Estimated.

2354. West Branch Tar Hollow Creek at Tar Hollow State Park, Ohio

Location.--Lat 39°23'35", long 82°45'10", 300 ft upstream from mouth, in Tar Hollow State Park, and 5 miles south of Adelphi, Ross County.

Drainage area.--0.305 sq mi (195 acres). Length of main stream, 0.97 mile; average slope main stream, 221 ft per mile; average slope main stream and upper reach, 306 ft per mile; slope at gage, 433 ft per mile; length divided by average width of basin, 308.

Gage.--Recording. Datum of gage is 822.06 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 12.9 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 3, 1950	5.08	19	1956	Apr. 2, 1956	4.85	12
				1957	Apr. 4, 1957	4.88	13
1951	May 2, 1951	5.4	28	1958	June 13, 1958	5.72	42
1952	Mar. 10, 1952	5.04	18	1959	Jan. 21, 1959	4.63	8.4
1953	Jan. 27, 1953	5.02	17	1960	Jan. 15, 1960	4.83	12
1954	Apr. 16, 1954	4.47	6.5				
1955	Mar. 21, 1955	4.54	6.8	1961	June 9, 1961	5.39	34

2355. Tar Hollow Creek at Tar Hollow State Park, Ohio

Location.--Lat 39°23'20", long 82°45'00", in Tar Hollow State Park, 2 miles upstream from mouth and 5¼ miles south of Adelphi, Ross County.

Drainage area.--1.50 sq mi. Length of main stream, 1.30 miles; average slope main stream, 68 ft per mile; average slope main stream and tributaries, 134 ft per mile; slope at gage, 20 ft per mile; length divided by average width of basin, 1.13.

Gage.--Recording. Datum of gage is 793.91 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 56.8 cfs, and extended on basis of flow-over-dam and slope-area measurements at 118 and 228 cfs, respectively.

Bankfull stage.--4.7 ft.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 30, 1947	3.54	71	1953	Mar. 4, 1953	4.28	52
	Aug. 21, 1947	3.58	74				
				1954	Apr. 16, 1954	3.98	30
1948	Feb. 14, 1948	3.70	86				
	Feb. 28, 1948	3.54	71	1955	Mar. 21, 1955	4.14	41
	Mar. 16, 1948	4.36	172				
	Mar. 27, 1948	4.40	189	1956	Mar. 8, 1956	4.33	57
	Apr. 12, 1948	4.38	186		Apr. 2, 1956	4.42	66
					May 10, 1956	4.35	59
1949	Dec. 15, 1948	3.51	78				
	Jan. 24, 1949	3.58	85	1957	Jan. 10, 1957	4.35	59
	Feb. 15, 1949	3.38	66		Apr. 4, 1957	4.64	94
1950	Jan. 6, 1950	3.34	75				
	Feb. 9, 1950	3.35	76	1958	Apr. 29, 1958	5.02	169
	Apr. 3, 1950	3.74	118		June 13, 1958	5.62	374
					July 22, 1958	4.56	83
1951	Dec. 7, 1950	4.45	74		Aug. 3, 1958	4.36	60
	Jan. 4, 1951	4.78	122				
	Jan. 14, 1951	4.86	136	1959	Jan. 21, 1959	4.38	62
	May 2, 1951	5.21	228				
	July 10, 1951	4.67	104	1960	Jan. 15, 1960	4.95	152
					Feb. 10, 1960	4.34	58
1952	Mar. 10, 1952	4.67	104				
	Mar. 22, 1952	4.58	90	1961	Mar. 5, 1961	4.30	54
					May 8, 1961	4.64	94
1953	Jan. 27, 1953	4.73	108		June 9, 1961	5.05	177

2360. Salt Creek near Londonderry, Ohio

Location.--Lat 39°15'22", long 82°46'12", at bridge on U.S. Highway 50, 1¼ miles southeast of Londonderry, Ross County, 2¼ miles downstream from Poe Run, and 4¼ miles upstream from Little Salt Creek.

Drainage area.--286 sq mi. Channel slope, main stream, 7.07 ft per mile; channel slope, tributary, 59.9 ft per mile; length of longest watercourse, 38.4 miles; mean elevation of land surface, 856 ft above mean sea level; average slope of land surface, 1,016 ft per mile.

Gage.--Nonrecording prior to Jan. 14, 1940; recording thereafter. Datum of gage is 583.95 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 11,100 cfs, and by indirect measurements at 13,500 and 15,600 cfs.

Bankfull stage.--16 ft.

Historical data.--Maximum stage known, 24.5 ft (probably in January) in 1907, from floodmarks.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	19.3	-	1944	Mar. 7, 1944	16.5	8,200
				1945	Mar. 6, 1945	21.2	18,600
1938	May 24, 1938	18.30	11,000				
1939	Apr. 16, 1939	18.5	11,400	1946	May 17, 1946	17.22	9,220
1940	Apr. 20, 1940	20.5	16,400	1947	Jan. 31, 1947	16.09	7,620
				1948	Apr. 12, 1948	20.00	14,900
1941	June 3, 1941	18.4	11,200	1949	Dec. 15, 1948	17.29	9,350
1942	Apr. 9, 1942	15.4	6,710	1950	Apr. 4, 1950	16.5	8,160
1943	Mar. 20, 1943	19.6	13,500				

2361. South Branch Little Salt Creek at Jackson, Ohio

Location.--Lat 39°02'55", long 82°37'55", at county bridge south of State Highway 139, in Jackson, Jackson County, 1 mile above mouth.

Drainage area.--3.90 sq mi. Length of main stream, 3.72 miles; average slope main stream, 32 ft per mile; average slope main stream and upper reach, 53.5 ft per mile; slope at gage, 20 ft per mile; length divided by average width of basin, 3.55.

Gage.--Crest-stage gage. Altitude of gage is 645 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 86.5 cfs and indirect measurements up to 782 cfs.

Bankfull stage.--14 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	14.82	740	1955	-	14.70	680
1948	-	14.60	660				
1949	-	14.86	770	1956	-	15.65	1,050
1950	-	14.75	700	1957	-	15.06	720
				1958	July 21, 1958	15.19	820
1951	-	14.70	680	1959	Jan. 21, 1959	14.88	630
1952	-	15.17	860	1960	-	13.39	174
1953	-	14.70	680				
1954	-	14.70	680	1961	-	15.11	756

2365. Little Salt Creek near Jackson, Ohio

Location.--Lat 39°05'35", long 82°39'50", at highway bridge 3½ miles northwest of Jackson, Jackson County, and half a mile downstream from Rock Run.

Drainage area.--76.5 sq mi. Channel slope, main stream, 7.06 ft per mile; channel slope, tributary, 64.5 ft per mile; length of longest watercourse, 14.8 miles; mean elevation of land surface, 749 ft above mean sea level; average slope of land surface, 806 ft per mile.

Gage.--Nonrecording. Altitude of gage is 630 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 720 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Aug. 18, 1926	13.2	1,470	1930	Nov. 18, 1929	10.2	885
1927	Jan. 21, 1927	12.6	1,360				
1928	Dec. 16, 1927	12.6	1,230	1931	Apr. 4, 1931	12.85	1,280
1929	May 3, 1929	10.9	983	1932	Jan. 30, 1932	11.43	1,070

OHIO BRUSH CREEK BASIN

2373. West Branch Turkey Run near Winchester, Ohio

Location.--Lat 38°56'55", long 83°40'20", at culvert on State Highway 74, 1.3 miles west of Winchester, Adams County.

Drainage area.--0.43 sq mi.

Gage.--Crest-stage gage.

Stage-discharge relation.--Defined by current-meter measurements below 95 cfs and by indirect measurements up to 720 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Sept.16, 1956	19.3	720	1960	-	-	a112
1957	-	12.3	184				
1958	-	17.98	660	1961	-	11.84	156
1959	Jan. 21, 1959	17.30	628				

a Peak stage did not reach bottom of gage; discharge less than figure shown.

2375. Ohio Brush Creek near West Union, Ohio

Location.--Lat 38°48'13", long 83°25'16", at bridge on State Highway 348, 0.3 mile downstream from Cedar Run, 2 miles southwest of Cedar Mills, and 7 miles east of West Union, Adams County.

Drainage area.--388 sq mi.

Gage.--Nonrecording prior to Nov. 22, 1940; recording thereafter. Datum of gage is 510.6 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs and extended on basis of indirect measurement at 51,600 cfs.

Bankfull stage.--19 ft.

Remarks.--Subject to backwater effect during high stages on Ohio River. Base for partial-duration series, 11,000 cfs. Only annual peaks are shown prior to 1941.

Peak stages and discharges of Ohio Brush Creek near West Union, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Jan. 22, 1927	16.8	17,000	1950	Feb. 9, 1950	20.59	28,800
1928	Dec. 14, 1927	17.2	18,000		Apr. 4, 1950	16.35	16,000
1929	Feb. 26, 1929	14.0	12,000		June 4, 1950	14.70	13,200
1930	Nov. 14, 1929	12.9	10,700		Sept.21, 1950	16.85	16,900
1931	Aug. 20, 1931	13.4	11,000	1951	Nov. 20, 1950	15.95	15,200
1932	July 4, 1932	19.8	25,300		Dec. 2, 1950	15.25	13,900
1933	Mar. 19, 1933	26.0	49,300		Jan. 4, 1951	18.28	20,900
1934	Jan. 7, 1934	16.2	15,700		Jan. 15, 1951	20.32	26,900
1935	Mar. 11, 1935	20.6	27,900		Feb. 12, 1951	16.45	16,100
1941	Jan. 24, 1941	13.32	11,400	1952	Jan. 27, 1952	13.45	11,300
					Feb. 4, 1952	13.24	11,000
1942	Apr. 9, 1942	13.8	12,100		Mar. 11, 1952	15.47	14,400
					Mar. 22, 1952	16.56	16,600
1943	Dec. 30, 1942	16.31	15,800				
	Mar. 11, 1943	13.61	11,800	1953	Jan. 28, 1953	14.56	13,000
	Mar. 17, 1943	13.78	12,100		Mar. 3, 1953	15.78	15,000
	Mar. 19, 1943	26.5	51,600				
				1954	July 21, 1954	16.13	15,500
1944	Mar. 7, 1944	18.0	18,500				
				1955	Feb. 22, 1955	13.45	11,000
1945	Jan. 1, 1945	13.07	11,100		Feb. 27, 1955	19.45	24,100
	Feb. 22, 1945	18.66	19,900		Mar. 22, 1955	15.87	15,100
	Feb. 26, 1945	19.43	21,700				
	Mar. 3, 1945	15.85	14,900	1956	Jan. 30, 1956	14.63	12,200
	Mar. 6, 1945	25.30	44,400		Feb. 2, 1956	15.76	14,100
	Mar. 21, 1945	15.3	14,200		Feb. 15, 1956	16.43	15,200
	June 17, 1945	15.55	14,600		Mar. 8, 1956	14.90	12,600
					Apr. 3, 1956	17.76	18,600
1946	Mar. 26, 1946	16.42	15,800		Sept.16, 1956	16.80	16,000
	May 17, 1946	13.06	11,100				
	June 17, 1946	19.75	22,500	1957	Jan. 10, 1957	15.65	13,800
					Feb. 9, 1957	18.25	19,800
1947	Jan. 2, 1947	16.30	15,900		Apr. 4, 1957	20.29	26,400
	Jan. 15, 1947	16.25	15,700		Apr. 8, 1957	14.11	11,400
	Jan. 30, 1947	18.62	21,900		June 29, 1957	14.22	11,600
	Apr. 16, 1947	15.56	14,700				
	June 8, 1947	13.69	12,000	1958	Nov. 19, 1957	16.62	15,600
					Dec. 7, 1957	15.65	13,800
1948	Feb. 14, 1948	21.93	33,400		Dec. 26, 1957	13.87	11,100
	Feb. 28, 1948	14.05	12,500		Apr. 29, 1958	17.41	17,600
	Mar. 16, 1948	17.50	18,600		Aug. 1, 1958	20.33	26,400
	Mar. 27, 1948	21.78	33,000		Sept.21, 1958	14.31	11,700
	Apr. 12, 1948	21.46	31,600				
				1959	Jan. 22, 1959	18.53	20,700
1949	Dec. 15, 1948	19.82	26,000				
	Jan. 5, 1949	15.57	14,500	1960	Dec. 12, 1959	14.90	12,600
	Jan. 24, 1949	18.60	21,900		Jan. 15, 1960	14.03	11,300
	Jan. 28, 1949	14.22	12,600		Feb. 11, 1960	17.34	17,400
	Feb. 15, 1949	17.45	18,400				
	Mar. 10, 1949	13.20	11,000	1961	Mar. 5, 1961	16.08	14,600
					Apr. 16, 1961	14.88	12,600
1950	Jan. 5, 1950	17.19	17,800		May 8, 1961	21.00	29,000

OHIO RIVER MAIN STEM

2380. Ohio River near Maysville, Ky.

Location.--Lat 38°38'05", long 83°42'11", on left bank at lock and dam 33, 1.8 miles upstream from city limits of Maysville, Mason County, 2.2 miles downstream from Cabin Creek, and at mile 405.1.

Drainage area.--70,130 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 452.57 ft above mean sea level, Ohio River datum. Nonrecording auxiliary gage at lock and dam 34, 29.0 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 630,000 cfs; affected by variable slope.

Historical data.--Maximum stage known, that of Jan. 27, 1937.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges of Ohio River near Maysville, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 27, 1937	75.3	a820,000	1950	Feb. 4, 1950	58.1	537,000
1939	Feb. 6, 1939	57.1	554,000	1951	Dec. 10, 1950	55.6	500,000
1940	Apr. 23, 1940	59.5	556,000	1952	Jan. 31, 1952	56.9	529,000
				1953	Mar. 28, 1953	33.6	229,000
1941	June 8, 1941	35.8	253,000	1954	Mar. 6, 1954	34.55	247,000
1942	Mar. 19, 1942	44.8	344,000	1955	Mar. 9, 1955	60.35	575,000
1943	Jan. 3, 1943	60.4	591,000				
1944	Apr. 15, 1944	47.2	390,000	1956	Mar. 17, 1956	51.65	444,000
1945	Mar. 9, 1945	65.5	634,000	1957	Apr. 11, 1957	50.55	418,000
				1958	May 10, 1958	57.5	534,000
1946	Jan. 11, 1946	47.2	401,000	1959	Jan. 25, 1959	54.8	489,000
1947	Jan. 23, 1947	40.4	305,000	1960	Apr. 8, 1960	45.75	364,000
1948	Apr. 17, 1948	64.05	635,000				
1949	Jan. 31, 1949	51.6	436,000	1961	Mar. 2, 1961	50.05	412,000

a Estimated.

WHITEOAK CREEK BASIN

2385. Whiteoak Creek near Georgetown, Ohio

Location.--Lat 38°50'42", long 83°55'16", at bridge on State Highway 221, 600 ft downstream from Opossum Run, 1¾ miles southwest of Georgetown, Brown County, and 6½ miles upstream from mouth.

Drainage area.--221 sq mi.

Gage.--Nonrecording prior to Nov. 30, 1935, and Dec. 8, 1948, to Nov. 6, 1950; recording Feb. 8, 1940, to Dec. 7, 1948, and after Nov. 7, 1950. Prior to Oct. 1, 1949, datum of gage was 577.21 ft above mean sea level. Datum of gage is 569.21 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 16,100 cfs, and extended on basis of indirect measurement at 20,000 cfs.

Remarks.--Base for partial-duration series, 4,600 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Dec. 31, 1923	11.00	11,800	1944	Mar. 7, 1944	-	a8,200
1925	Feb. 23, 1925	7.7	4,440				
				1945	Feb. 22, 1945	8.02	11,500
1926	Nov. 8, 1925	10.48	10,300		Feb. 27, 1945	8.60	13,300
1927	Jan. 20, 1927	9.46	7,940		Mar. 3, 1945	7.35	9,300
1928	Dec. 14, 1927	9.4	7,720		Mar. 6, 1945	10.0	18,600
1929	July 1, 1929	9.5	7,940		Mar. 20, 1945	6.97	7,960
1930	Dec. 18, 1929	10.0	9,080		May 17, 1945	5.95	4,960
					June 17, 1945	6.40	6,280
1931	Apr. 4, 1931	10.12	9,320				
1932	Jan. 30, 1932	8.43	5,650	1946	Feb. 6, 1946	5.92	5,240
1933	May 14, 1933	12.87	20,500		Feb. 14, 1946	5.67	4,700
1934	Dec. 18, 1933	8.56	5,540		June 17, 1946	7.40	14,100
1935	Mar. 11, 1935	10.8	11,500		July 20, 1946	5.57	8,570
1940	Feb. 19, 1940	8.40	5,070	1947	Nov. 26, 1946	4.24	5,020
	Mar. 3, 1940	10.15	9,600		Jan. 3, 1947	5.22	7,460
	Apr. 12, 1940	8.40	5,070		Jan. 15, 1947	4.42	5,390
	Apr. 20, 1940	11.1	12,400		Jan. 31, 1947	5.60	8,570
					Apr. 16, 1947	5.38	8,010
1941	June 3, 1941	8.65	5,580				
				1948	Feb. 14, 1948	6.5	14,900
1942	Apr. 9, 1942	8.8	6,000		Feb. 28, 1948	3.66	4,948
	Aug. 21, 1942	8.32	4,980		Mar. 16, 1948	5.50	11,000
					Mar. 27, 1948	5.03	9,150
1943	Dec. 30, 1942	8.14	7,960		Apr. 12, 1948	6.86	16,600
	Mar. 12, 1943	6.85	4,970				
	Mar. 20, 1943	11.4	20,000	1949	Dec. 15, 1948	5.80	10,500
	May 19, 1943	7.15	5,840		Jan. 5, 1949	6.2	12,700
	June 11, 1943	6.88	5,200		Jan. 24, 1949	5.52	10,200

a Estimated.

Peak stages and discharges of Whiteoak Creek near Georgetown, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 28, 1949	5.37	9,800	1956	Feb. 15, 1956	9.85	5,810
	Feb. 15, 1949	5.60	9,050		Feb. 18, 1956	9.73	5,650
	Mar. 10, 1949	4.00	4,650		Feb. 25, 1956	9.80	5,810
	Mar. 27, 1949	4.55	6,170		Mar. 8, 1956	10.67	7,430
					Apr. 3, 1956	10.43	6,850
1950	Jan. 6, 1950	13.11	8,750				
	Jan. 30, 1950	11.72	5,730	1957	Jan. 10, 1957	8.21	4,680
	Feb. 9, 1950	13.5	11,200		Jan. 23, 1957	8.55	5,420
	Apr. 4, 1950	13.23	10,200		Feb. 10, 1957	9.00	6,220
	June 4, 1950	11.32	5,250		Apr. 5, 1957	11.9	14,000
	Sept.20, 1950	12.60	10,200		Apr. 8, 1957	8.73	5,620
					June 29, 1957	8.48	5,220
1951	Nov. 20, 1950	11.31	8,830				
	Dec. 3, 1950	11.28	8,830	1958	Nov. 19, 1957	9.72	7,800
	Jan. 3, 1951	11.91	10,900		Dec. 7, 1957	10.15	8,940
	Jan. 15, 1951	11.95	11,300		Dec. 20, 1957	8.67	5,070
	Feb. 13, 1951	11.40	9,160		Dec. 26, 1957	8.55	4,850
	Feb. 21, 1951	10.28	5,980		Apr. 29, 1958	9.51	7,100
					May 5, 1958	9.30	6,600
1952	Dec. 21, 1951	9.75	4,720		July 22, 1958	9.33	6,600
	Jan. 27, 1952	10.15	5,620		July 31, 1958	10.64	10,100
	Mar. 11, 1952	10.87	7,600		Aug. 2, 1958	11.57	13,000
	Mar. 22, 1952	11.34	8,830				
				1959	Jan. 22, 1959	11.20	11,800
1953	Jan. 28, 1953	10.84	7,960		Feb. 11, 1959	8.49	4,720
	Mar. 4, 1953	10.16	6,370				
				1960	Dec. 13, 1959	8.79	5,620
1954	July 22, 1954	9.79	4,660		Jan. 15, 1960	8.44	4,850
					Feb. 11, 1960	9.59	7,500
1955	Feb. 6, 1955	10.17	5,680		May 28, 1960	8.68	5,380
	Feb. 17, 1955	9.88	5,120				
	Feb. 22, 1955	9.78	4,910	1961	Feb. 26, 1961	8.45	4,870
	Feb. 27, 1955	11.34	8,830		Mar. 6, 1961	9.60	7,520
	Mar. 21, 1955	10.69	7,040		Apr. 16, 1961	8.36	4,670
					May 8, 1961	12.20	16,400
1956	Jan. 30, 1956	9.77	4,810		June 14, 1961	8.37	4,690
	Feb. 2, 1956	10.27	6,670				

LITTLE MIAMI RIVER BASIN

2390. Little Miami River near Selma, Ohio

Location.--Lat 39°48'40", long 83°44'20", at bridge on Selma Pike, 2.3 miles northwest of Selma, Clark County, and 3.1 miles upstream from North Fork.

Drainage area.--50.6 sq mi.

Gage.--Recording. Datum of gage is 1,019.79 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,260 cfs and extended on basis of contracted-opening measurement at 7,920 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 17, 1953	4.20	380	1958	Aug. 3, 1958	8.59	3,500
1954	Apr. 16, 1954	3.10	166	1959	Jan. 21, 1959	9.42	7,920
1955	Mar. 22, 1955	6.71	1,240	1960	Feb. 10, 1960	4.22	400
1956	Nov. 16, 1955	6.32	1,080	1961	Apr. 25, 1961	5.42	755
1957	Apr. 4, 1957	7.46	1,890				

2395. North Fork Little Miami River near Pitchin, Ohio

Location.--Lat 39°49'40", long 83°46'25", at county highway bridge 1.1 miles upstream from Goose Creek and 1.3 miles southwest of Pitchin, Clark County.

Drainage area.--29.1 sq mi.

Gage.--Recording. Datum of gage is 1,011.46 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 885 cfs and extended on basis of contracted-opening measurement at 3,350 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	June 26, 1952	3.15	a68	1957	Apr. 4, 1957	5.51	660
1953	Jan. 18, 1953	3.89	132	1958	Aug. 3, 1958	6.04	955
1954	June 17, 1954	3.04	63	1959	Jan. 21, 1959	7.58	3,350
1955	Mar. 22, 1955	5.11	390	1960	May 28, 1960	3.83	150
1956	Nov. 16, 1955	5.12	390	1961	Apr. 25, 1961	4.40	270

a For period June 20 to Sept. 30.

2400. Little Miami River near Oldtown, Ohio

Location.--Lat 39°44'55", long 83°55'50", at bridge on U.S. Highway 68, 0.9 mile upstream from Massie Creek, 1.3 miles northeast of Oldtown, Greene County, and 4.5 miles north of Xenia.

Drainage area.--129 sq mi.

Gage.--Recording. Datum of gage is 816.56 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,340 cfs and extended on basis of slope-area measurement at 14,800 cfs.

Remarks.--Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 4, 1953	4.28	625	1958	Dec. 26, 1957	4.78	828
					May 4, 1958	4.79	845
1954	June 8, 1954	10.2	4,720		June 10, 1958	4.84	862
					June 14, 1958	8.73	2,750
1955	Feb. 22, 1955	5.28	950		July 23, 1958	5.19	960
	Mar. 4, 1955	5.94	1,190		July 29, 1958	4.73	802
	Mar. 22, 1955	7.42	1,860		Aug. 3, 1958	10.03	4,390
1956	Nov. 17, 1955	6.06	1,270	1959	Jan. 21, 1959	12.20	14,800
	Feb. 18, 1956	5.23	940		Feb. 10, 1959	7.78	2,180
	Mar. 29, 1956	5.09	887		Feb. 15, 1959	4.85	838
	Apr. 3, 1956	6.70	1,530		Aug. 4, 1959	6.66	1,540
1957	Apr. 4, 1957	9.62	3,880	1960	Feb. 11, 1960	4.43	690
	Apr. 9, 1957	5.17	904				
	May 22, 1957	5.24	940	1961	Apr. 26, 1961	5.75	1,160
					May 9, 1961	5.68	1,130
1958	Dec. 18, 1957	4.71	810		Aug. 11, 1961	6.84	1,630
	Dec. 20, 1957	5.08	950				

2405. North Fork Massie Creek at Cedarville, Ohio

Location.--Lat 39°45'25", long 83°47'25", at bridge on James Barber Road, 1 mile upstream from confluence with South Fork and 1 mile northeast of Cedarville, Greene County.

Drainage area.--25.6 sq mi.

Gage.--Recording. Datum of gage is 1,028.00 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 898 cfs and extended on basis of slope-area measurement at 2,960 cfs.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 9, 1955	5.38	226	1958	June 14, 1958	7.16	1,060
	Feb. 22, 1955	5.58	268		July 13, 1958	5.51	232
	Mar. 5, 1955	6.05	416		July 23, 1958	6.44	535
	Mar. 22, 1955	6.18	480		Aug. 2, 1958	7.62	1,620
1956	Nov. 16, 1955	5.59	268	1959	Jan. 21, 1959	8.55	2,960
	Feb. 18, 1956	5.65	281		Feb. 10, 1959	5.85	318
	Feb. 25, 1956	5.44	236		Feb. 15, 1959	5.46	224
	Apr. 3, 1956	6.02	396		Aug. 4, 1959	5.89	329
1957	Apr. 4, 1957	6.92	970	1960	Feb. 10, 1960	5.47	226
	Apr. 9, 1957	5.57	257		May 27, 1960	5.47	226
	May 23, 1957	5.79	324				
	June 29, 1957	5.95	377	1961	Mar. 5, 1961	5.36	205
					Mar. 8, 1961	5.35	203
1958	Dec. 20, 1957	5.63	281		Apr. 16, 1961	5.37	207
	Dec. 26, 1957	5.46	236		Apr. 26, 1961	5.84	315
	Jan. 21, 1958	5.50	246		May 9, 1961	5.97	353
	Jan. 25, 1958	5.52	246		Aug. 11, 1961	6.09	391
	June 11, 1958	5.70	294				

2410. South Fork Massie Creek near Cedarville, Ohio

Location.--Lat 39°44'20", long 83°45'50", at bridge on Weimer Road, 2.3 miles east of Cedarville, Greene County, and 2.4 miles upstream from confluence with North Fork.

Drainage area.--20.2 sq mi.

Gage.--Recording. Datum of gage is 1,039.14 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 489 cfs and extended on basis of slope-area measurement at 2,440 cfs.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 6, 1955	4.61	220	1958	May 3, 1958	5.11	273
	Feb. 22, 1955	4.83	261		June 10, 1958	4.90	235
	Mar. 5, 1955	5.49	400		June 14, 1958	6.91	940
	Mar. 22, 1955	5.89	508		June 20, 1958	4.91	244
					July 22, 1958	6.25	645
1956	Nov. 16, 1955	5.55	413		Aug. 2, 1958	7.24	1,130
	Feb. 18, 1956	5.09	308				
	Feb. 25, 1956	4.77	244	1959	Jan. 21, 1959	8.27	2,440
	Apr. 3, 1956	6.11	564		Feb. 10, 1959	6.01	484
					Feb. 14, 1959	4.72	210
1957	Feb. 9, 1957	5.09	273		May 12, 1959	4.97	247
	Apr. 4, 1957	6.34	685		Aug. 4, 1959	5.38	326
	Apr. 8, 1957	4.72	207				
	May 22, 1957	5.83	488	1960	Feb. 10, 1960	4.96	245
	June 28, 1957	5.04	263		May 27, 1960	5.39	328
1958	Dec. 20, 1957	5.09	273	1961	Apr. 25, 1961	5.95	310
	Jan. 21, 1958	4.88	235		May 8, 1961	6.26	383
	Jan. 25, 1958	5.02	253		June 10, 1961	5.53	242
	Apr. 29, 1958	5.34	332		Aug. 11, 1961	6.65	515

2415. Massie Creek at Wilberforce, Ohio

Location.--Lat 39°43'20", long 83°52'55", at bridge on Wilberforce-Clinton Road, 0.5 mile northwest of Wilberforce, Greene County, 1.7 miles upstream from Clark Run, and 3.5 miles northeast of Xenia.

Drainage area.--64.3 sq mi.

Gage.--Recording. Datum of gage is 865.30 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,040 cfs and extended on basis of contracted-opening measurement at 7,300 cfs.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 18, 1953	4.45	390	1958	May 3, 1958	5.58	745
					June 10, 1958	5.46	693
1954	Aug. 27, 1954	4.00	256		June 13, 1958	7.98	1,920
					July 13, 1958	6.47	1,070
1955	Mar. 4, 1955	5.90	850		July 23, 1958	6.30	1,010
	Mar. 22, 1955	6.53	1,090		Aug. 2, 1958	10.35	4,300
1956	Nov. 16, 1955	6.17	950	1959	Jan. 21, 1959	11.25	7,300
	Feb. 18, 1956	5.42	676		Feb. 10, 1959	5.95	895
	Apr. 3, 1956	6.84	1,250		Aug. 4, 1959	6.87	1,300
	July 3, 1956	6.20	970				
				1960	May 28, 1960	4.83	510
1957	Apr. 4, 1957	8.34	2,160				
	May 22, 1957	5.25	627	1961	Apr. 25, 1961	6.09	951
					May 8, 1961	6.78	1,260
1958	Dec. 20, 1957	5.28	643		June 9, 1961	6.20	995
	Apr. 28, 1958	5.21	611		Aug. 11, 1961	7.52	1,630

2416. Shawnee Creek at Xenia, Ohio

Location.--Lat 39°40'35", long 83°55'30", at bridge on U.S. Highway 68, 0.7 mile southeast of intersection of U.S. Highways 68 and 42, in Xenia, Greene County.

Drainage area.--4.21 sq mi. Length of main stream, 4.60 miles; average slope main stream, 30 ft per mile; average slope main stream and upper reach, 24.5 ft per mile; slope at gage, 40 ft per mile; length divided by average width of basin, 5.03.

Gage.--Crest-stage gage. Altitude of gage is 914 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs, and by indirect measurements at 401 and 795 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	-	14.29	543	1956	-	13.65	440
1949	Feb. 15, 1949	15.71	790	1957	Apr. 4, 1957	13.07	385
1950	-	14.00	495	1958	-	15.16	705
				1959	Jan. 21, 1959	16.02	855
1951	-	14.33	543	1960	-	10.73	100
1952	-	14.80	626				
1953	-	10.76	93	1961	May 8, 1961	15.44	752
1954	-	10.70	88				
1955	-	15.48	750				

2420. Little Miami River at Spring Valley, Ohio

Location.--Lat 39°36'20", long 84°00'50", at bridge on U.S. Highway 42, three-eighths of a mile southwest of Spring Valley, Greene County, and 2½ miles downstream from Sugar Creek.

Drainage area.--361 sq mi.

Gage.--Nonrecording prior to Dec. 12, 1939; recording thereafter. Datum of gage is 737.9 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 12,400 cfs and by contracted-opening measurement of 36,400 cfs.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Feb. 14, 1926	11.5	6,680	1942	Apr. 9, 1942	10.15	3,390
1927	Jan. 19, 1927	12.6	8,220	1943	Mar. 20, 1943	15.5	13,200
1928	Dec. 14, 1927	10.8	5,740	1944	Apr. 11, 1944	11.62	4,920
1929	Feb. 26, 1929	16.8	18,400	1945	Mar. 6, 1945	15.65	12,800
1930	Jan. 10, 1930	11.3	6,360				
				1946	Feb. 5, 1946	10.39	3,400
1931	Sept.19, 1931	9.9	4,630	1947	June 2, 1947	14.71	10,400
1932	June 27, 1932	12.88	8,590	1948	Feb. 14, 1948	16.47	17,200
1933	Mar. 19, 1933	14.08	10,400	1949	Jan. 5, 1949	16.12	15,600
1934	Aug. 11, 1934	10.27	5,110	1950	Feb. 14, 1950	13.90	8,240
1935	Sept. 3, 1935	13.55	9,600				
				1951	Dec. 3, 1950	15.34	12,400
1940	Apr. 20, 1940	13.97	7,780	1952	Jan. 27, 1952	16.75	16,600
1941	Apr. 4, 1941	5.40	965	1959	Jan. 21, 1959	19.0	36,400

2425. Little Miami River near Fort Ancient, Ohio

Location.--Lat 39°22'42", long 84°05'32", at highway bridge 2 miles south of Fort Ancient, Warren County, 2½ miles northeast of Morrow, and 2¾ miles upstream from Todd Fork.

Drainage area.--677 sq mi.

Gage.--Recording. Datum of gage is 643.65 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 25,700 cfs.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 6,000 cfs. Only annual peak is shown for 1952 and for 1959.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 30, 1939	9.57	7,900	1944	Mar. 6, 1944	10.46	8,940
	Mar. 11, 1939	9.00	6,820		Apr. 11, 1944	8.66	6,070
	Apr. 16, 1939	12.16	13,500				
				1945	Feb. 22, 1945	10.89	9,660
1940	Mar. 3, 1940	9.37	7,540		Feb. 26, 1945	11.45	10,600
	Apr. 12, 1940	9.16	7,180		Mar. 3, 1945	11.30	10,400
	Apr. 20, 1940	15.18	26,100		Mar. 7, 1945	16.80	32,900
					Mar. 20, 1945	12.38	13,900
1941	July 30, 1941	4.50	1,620		Apr. 24, 1945	12.10	13,000
					May 18, 1945	10.87	9,980
1942	Apr. 9, 1942	10.40	9,400				
	June 2, 1942	10.6	9,800	1946	Feb. 6, 1946	9.26	7,300
					Feb. 14, 1946	9.56	7,900
1943	Dec. 30, 1942	11.1	10,800				
	Mar. 17, 1943	9.62	7,900	1947	Jan. 30, 1947	9.98	8,700
	Mar. 20, 1943	15.9	30,600		Apr. 16, 1947	9.30	7,300
	May 18, 1943	9.52	7,720		Apr. 21, 1947	10.80	10,300

Peak stages and discharges of Little Miami River near Fort Ancient, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 25, 1947	9.07	6,940	1950	Jan. 6, 1950	12.03	13,100
	May 18, 1947	11.06	10,900		Jan. 16, 1950	9.77	8,300
	May 21, 1947	8.48	6,040		Jan. 26, 1950	10.44	9,500
	May 25, 1947	13.68	18,600		Feb. 9, 1950	9.24	7,120
	June 3, 1947	11.92	12,800		Feb. 14, 1950	11.70	12,300
	June 15, 1947	8.47	6,040		Apr. 4, 1950	9.38	7,500
	Aug. 31, 1947	8.77	6,460		Sept.22, 1950	9.81	8,300
1948	Jan. 1, 1948	8.83	6,460	1951	Nov. 20, 1950	10.26	9,300
	Feb. 14, 1948	13.93	19,400		Dec. 4, 1950	13.71	18,600
	Mar. 27, 1948	12.50	14,600		Jan. 4, 1951	10.54	9,700
	Apr. 12, 1948	10.94	10,500		Jan. 15, 1951	10.88	10,500
					Feb. 13, 1951	9.66	8,100
1949	Dec. 15, 1948	9.53	7,700		Feb. 21, 1951	10.92	10,500
	Jan. 5, 1949	14.58	22,200				
	Jan. 24, 1949	11.70	12,300	1952	Jan. 27, 1952	16.28	30,200
	Jan. 27, 1949	11.37	11,600				
	Feb. 15, 1949	10.94	10,500	1959	Jan. 21, 1959	21.9	67,000
	Mar. 27, 1949	9.96	8,700				
	June 16, 1949	8.95	6,780				

2435. Cowan Creek near Wilmington, Ohio

Location.--Lat 39°24'20", long 83°49'00", at bridge on State Highway 134, at Burtonville, 2¾ miles south of Wilmington, Clinton County.

Drainage area.--31.9 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,820 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 19, 1943	13.64	3,100	1947	Jan. 30, 1947	11.3	1,960
1944	Mar. 6, 1944	11.0	1,840	1948	Apr. 12, 1948	12.2	2,400
1945	Mar. 6, 1945	13.0	2,800	1949	Jan. 24, 1949	11.5	2,030
				1950	Jan. 6, 1950	11.3	1,930
1946	Feb. 6, 1946	8.4	810				

2440. Todd Fork near Roachester, Ohio

Location.--Lat 39°20'05", long 84°05'10", at bridge on State Highway 123, 0.3 mile downstream from Lick Run, 1.6 miles southeast of Roachester, Warren County, 2¾ miles southeast of Morrow, and 4 miles upstream from mouth.

Drainage area.--219 sq mi.

Gage.--Recording. Datum of gage is 679.40 ft above mean sea level, adjustment of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,900 cfs and extended on basis of contracted-opening measurement at 25,500 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 17, 1953	12.00	4,280	1958	July 22, 1958	17.55	14,500
1954	July 21, 1954	17.2	13,400	1959	Jan. 21, 1959	19.50	25,500
1955	Mar. 22, 1955	14.57	7,770	1960	Jan. 15, 1960	13.78	6,450
1956	Apr. 2, 1956	15.26	9,050	1961	May 8, 1961	16.58	11,900
1957	Apr. 4, 1957	16.06	10,700				

2455. Little Miami River at Milford, Ohio

Location.--Lat 39°10'17", long 84°17'53", 500 ft downstream from Wooster Pike Bridge (U.S. Highway 50) in Milford, Clermont County, and 1¼ miles upstream from East Fork.

Drainage area.--1,195 sq mi. At site used 1915-20, 1,180 sq mi. Channel slope, main stream, 6.72 ft per mile; channel slope, tributary, 19.6 ft per mile; longest watercourse, 101.4 miles; average elevation of land surface, 868 ft above mean sea level; average slope of land surface, 216 ft per mile.

Gage.--Nonrecording prior to Aug. 17, 1928; recording thereafter. Datum of gage is 499.35 ft above mean sea level, adjustment of 1912. At site 4 miles upstream at different datum June 1915 to May 1920. March 1925 to Aug. 16, 1928, at site 500 ft upstream at datum 0.72 ft higher.

Stage-discharge relation.--Defined by current-meter measurements below 59,700 cfs, and extended on basis of slope-area measurement at 84,100 cfs.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 15,000 cfs. Only annual peaks are shown prior to 1929 and for 1937-38.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a25.5	-
1916	Jan. 13, 1916	13.97	27,000
1917	Jan. 5, 1917	13.5	25,600
1918	Feb. 12, 1918	10.88	-
1919	Jan. 1, 1919	11.35	-
1920	Apr. 1, 1920	17.61	-
1926	Aug. 19, 1926	13.3	32,900
1927	Oct. 5, 1926	12.3	29,300
1928	Dec. 14, 1927	14.5	37,500
1939	Jan. 19, 1929	9.55	17,700
	Jan. 25, 1929	8.85	15,000
	Feb. 26, 1929	12.90	29,300
	Apr. 10, 1929	8.95	15,600
	May 14, 1929	9.73	18,000
	May 19, 1929	8.88	15,300
	July 1, 1929	14.3	34,400
1930	Nov. 14, 1929	11.8	25,400
	Dec. 19, 1929	9.00	15,600
	Jan. 14, 1930	8.75	15,000
	Feb. 26, 1930	9.57	17,700
1931	Apr. 4, 1931	9.45	17,000
	July 21, 1931	11.88	25,800
1932	June 28, 1932	10.20	19,800
	July 4, 1932	9.28	16,700
1933	Dec. 31, 1932	12.81	29,000
	Mar. 13, 1933	11.61	24,700
	Mar. 19, 1933	19.72	60,100
	Apr. 18, 1933	10.59	21,200
	May 11, 1933	12.04	26,100
	May 14, 1933	17.66	49,400
1934	Mar. 3, 1934	8.00	12,200
1935	Mar. 12, 1935	9.48	17,400
	Mar. 23, 1935	9.31	16,700
	May 3, 1935	8.95	15,600
	July 26, 1935	12.30	27,200
	Sept. 3, 1935	8.98	15,600
1936	Apr. 6, 1936	9.47	17,400
1937	Jan. 22, 1937	19.55	59,600
1938	July 14, 1938	13.41	31,100
1939	Jan. 30, 1939	10.64	21,200
	Feb. 10, 1939	9.60	17,700
1939	Mar. 11, 1939	10.62	21,200
	Apr. 16, 1939	15.00	37,100
1940	Mar. 3, 1940	12.50	27,900
	Apr. 12, 1940	10.47	20,800
	Apr. 20, 1940	20.1	62,400
	June 17, 1940	10.20	19,800
1941	July 31, 1941	7.55	10,900
1942	Dec. 24, 1941	8.83	15,000
	Feb. 6, 1942	9.16	16,300
	Apr. 9, 1942	10.80	21,700
	June 2, 1942	8.77	15,000
1943	Dec. 30, 1942	11.81	25,400
	Mar. 19, 1943	18.5	53,600
	July 29, 1943	10.80	21,900
1944	Mar. 7, 1944	11.0	22,900
1945	Feb. 22, 1945	12.10	26,400
	Feb. 27, 1945	12.5	27,800
	Mar. 3, 1945	12.5	27,800
	Mar. 6, 1945	20.90	69,900
	Mar. 20, 1945	16.25	41,700
	Apr. 24, 1945	11.50	24,500
	May 18, 1945	12.75	28,700
	June 17, 1945	10.30	20,400
1946	Feb. 6, 1946	9.62	17,700
	Feb. 14, 1946	10.17	20,000
1947	Jan. 2, 1947	9.88	18,300
	Jan. 30, 1947	10.64	20,700
	Apr. 16, 1947	9.21	16,000
	Apr. 21, 1947	10.04	18,600
	Apr. 25, 1947	9.20	16,000
	May 25, 1947	12.66	28,000
	June 3, 1947	9.76	18,000
1948	Jan. 1, 1948	9.0	15,400
	Feb. 14, 1948	15.60	39,000
	Mar. 16, 1948	9.00	15,400
	Mar. 27, 1948	11.88	25,200
	Apr. 12, 1948	12.84	28,400
1949	Dec. 15, 1948	9.86	18,300
	Jan. 5, 1949	15.25	37,400
	Jan. 24, 1949	14.08	33,000
	Jan. 27, 1949	12.12	25,900
	Feb. 15, 1949	12.45	27,000
	Mar. 27, 1949	10.33	19,700

a Present datum; from Corps of Engineers.

Peak stages and discharges of Little Miami River at Milford, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 6, 1950	13.96	32,600	1955	Feb. 27, 1955	9.49	17,400
	Jan. 16, 1950	9.54	17,000		Mar. 5, 1955	8.82	15,200
	Jan. 24, 1950	8.87	15,100		Mar. 22, 1955	11.48	24,100
	Jan. 26, 1950	10.56	20,700				
	Feb. 9, 1950	10.57	20,700	1956	Feb. 18, 1956	9.28	17,500
	Feb. 14, 1950	10.55	20,700		Feb. 25, 1956	8.82	15,900
	Apr. 4, 1950	9.51	17,000		Apr. 2, 1956	12.57	29,300
	Sept.21, 1950	10.98	22,000				
				1957	Apr. 4, 1957	15.08	38,800
1951	Nov. 20, 1950	12.46	27,300		May 22, 1957	10.05	20,000
	Dec. 3, 1950	14.26	33,800				
	Jan. 4, 1951	11.97	25,600	1958	Dec. 7, 1957	9.88	19,600
	Jan. 15, 1951	11.53	23,800		Dec. 20, 1957	8.90	16,200
	Feb. 12, 1951	9.84	18,000		July 22, 1958	13.60	33,100
	Feb. 21, 1951	12.04	25,600		July 31, 1958	10.55	22,100
					Aug. 3, 1958	10.25	20,700
1952	Jan. 27, 1952	12.78	28,400				
	Feb. 4, 1952	8.87	15,100	1959	Jan. 22, 1959	22.30	84,100
	Mar. 11, 1952	9.27	16,300		Feb. 10, 1959	9.03	16,600
	Mar. 23, 1952	10.58	20,700				
	Apr. 13, 1952	9.13	15,700	1960	Jan. 15, 1960	8.63	15,200
1953	May 22, 1953	10.10	19,000	1961	Feb. 25, 1961	8.55	15,000
					Apr. 26, 1961	10.44	21,500
1954	July 21, 1954	11.42	23,400		May 9, 1961	15.67	41,400
1955	Feb. 22, 1955	8.78	15,200				

2465. East Fork Little Miami River at Williamsburg, Ohio

Location.--Lat 39°03'10", long 84°03'05", at Main Street Bridge in Williamsburg, Clermont County, 1.1 miles upstream from Todd Run.

Drainage area.--238 sq mi.

Gage.--Recording. Datum of gage is 784.09 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 6,720 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 27, 1949	9.38	a7,420	1952	Jan. 27, 1952	8.87	6,710
					Mar. 11, 1952	8.08	5,650
1950	Jan. 6, 1950	9.80	8,020		Mar. 23, 1952	8.70	6,430
	Jan. 24, 1950	7.84	5,290				
	Feb. 9, 1950	9.24	7,130	1953	Jan. 28, 1953	8.57	6,300
	Apr. 4, 1950	10.23	8,620		May 23, 1953	9.58	7,720
	Sept.20, 1950	11.32	10,400				
				1960	July 3, 1960	3.41	b2,500
1951	Nov. 20, 1950	9.25	7,130				
	Dec. 3, 1950	9.75	8,020	1961	Feb. 25, 1961	7.84	5,340
	Jan. 4, 1951	10.35	8,940		Apr. 16, 1961	7.20	4,570
	Jan. 15, 1951	9.76	8,020		May 8, 1961	11.76	13,000
	Feb. 13, 1951	8.96	6,850		June 14, 1961	7.53	4,970
	Feb. 21, 1951	8.46	6,170				

a Period Mar. 1 to Sept. 30, 1949
b Period July 1 to Sept. 30, 1960.

2470. East Fork Little Miami River near Bantam, Ohio

Location.--Lat 39°01'40", long 84°08'00", at county highway bridge between Bantam and Afton, 2.1 miles north of Bantam and 4.1 miles southeast of Batavia, Clermont County.

Drainage area.--331 sq mi.

Gage.--Recording. Datum of gage is 634.43 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements below 14,100 cfs.

Remarks.--Base for partial-duration series, 6,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Dec. 15, 1948	14.48	14,800	1951	Nov. 20, 1950	14.42	12,100
	Jan. 5, 1949	15.59	15,700		Dec. 3, 1950	12.42	9,400
	Jan. 24, 1949	16.16	16,800		Jan. 4, 1951	15.31	13,400
	Jan. 27, 1949	13.55	12,400		Jan. 14, 1951	13.61	11,000
	Feb. 15, 1949	15.17	14,000		Feb. 12, 1951	12.50	9,530
	Mar. 26, 1949	13.02	10,800		Feb. 21, 1951	12.38	9,400
1950	Jan. 6, 1950	15.39	13,600	1952	Jan. 27, 1952	12.52	9,530
	Jan. 24, 1950	11.20	7,910		Mar. 11, 1952	12.78	9,920
	Feb. 9, 1950	16.07	14,700		Mar. 23, 1952	12.52	9,530
	Apr. 3, 1950	16.51	15,400				
	June 4, 1950	10.80	7,430	1953	Jan. 28, 1953	13.38	10,700
	Sept.20, 1950	14.88	12,800		May 23, 1953	10.83	7,430

2471. Paterson Run near Owensville, Ohio

Location.--Lat 39°07'40", long 84°06'40", at bridge on private road, 200 ft north of U.S. Highway 50, half a mile upstream from Brushy Fork and 1.2 miles east of Owensville, Clermont County.

Drainage area.--3.34 sq mi. Length of main stream, 3.44 miles; average slope main stream, 30 ft per mile; average slope main stream and tributaries, 30 ft per mile; slope at gage, 34 ft per mile; length divided by average width of basin, 3.54.

Gage.--Recording. Altitude of gage is 815 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs and extended on basis of indirect measurements and flow-over-dam computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 16, 1947	3.90	544	1955	Mar. 21, 1955	4.27	639
1948	Mar. 16, 1948	4.75	760				
1949	Jan. 4, 1949	4.70	735	1956	Apr. 2, 1956	4.26	639
1950	Apr. 3, 1950	4.95	810	1957	Apr. 4, 1957	4.18	615
				1958	July 21, 1958	3.90	544
1951	Jan. 14, 1951	4.00	567	1959	Jan. 21, 1959	3.56	466
1952	Jan. 26, 1952	3.80	521	1960	June 22, 1960	3.69	496
1953	May 17, 1953	3.81	521				
1954	May 2, 1954	3.20	383	1961	May 7, 1961	3.64	484

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2475. East Fork Little Miami River at Perintown, Ohio

Location.--Lat 39°08'13", long 84°14'17", at highway bridge at Perintown, Clermont County, 5 miles upstream from mouth.

Drainage area.--477 sq mi. Channel slope, main stream, 8.5 ft per mile; channel slope, tributary, 21.4 ft per mile; length of longest watercourse, 77.5 miles; mean elevation of land surface, 884 ft above mean sea level; average land slope, 183 ft per mile.

Gage.--Nonrecording prior to Feb. 6, 1940; recording thereafter. Datum of gage is 507.28 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--22 ft.

Remarks.--Peak discharges for 1918-20 are estimated on basis of gage-height record and ratings in use prior to this period. Base for partial-duration series, 10,000 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a22	-	1948	Mar. 27, 1948	16.22	16,900
					Apr. 13, 1948	19.47	26,100
1916	Dec. 17, 1915	17.3	18,900				
1917	Dec. 27, 1916	18.6	21,300	1949	Dec. 15, 1948	15.89	15,800
1918	May 13, 1918	15.9	16,100		Jan. 5, 1949	18.86	24,200
1919	Mar. 17, 1919	18.3	21,900		Jan. 24, 1949	18.80	23,900
1920	Apr. 20, 1920	20.2	27,600		Jan. 27, 1949	17.05	18,600
					Feb. 15, 1949	17.32	19,400
1925	Feb. 3, 1925	11.3	8,250		Mar. 26, 1949	14.72	13,200
1926	Feb. 14, 1926	18.0	20,700	1950	Jan. 6, 1950	18.56	23,300
1927	Jan. 19, 1927	17.6	19,800		Jan. 24, 1950	13.07	10,600
1928	Dec. 14, 1927	18.2	22,100		Feb. 9, 1950	18.03	21,500
1929	July 1, 1929	18.4	22,700		Apr. 3, 1950	19.08	24,800
1930	Nov. 14, 1929	16.7	17,900		Sept. 20, 1950	16.05	16,000
1931	Apr. 4, 1931	15.9	15,800	1951	Nov. 20, 1950	16.96	18,600
1932	Feb. 4, 1932	15.53	15,500		Dec. 2, 1950	13.94	11,800
1933	Mar. 19, 1933	22.68	36,600		Jan. 4, 1951	17.91	21,200
1934	Dec. 17, 1933	10.60	7,330		Jan. 14, 1951	17.20	19,200
1935	Mar. 11, 1935	18.5	23,000		Feb. 12, 1951	15.30	14,400
					Feb. 21, 1951	14.64	13,000
1936	Apr. 6, 1936	b16.86	17,400				
1937	Jan. 22, 1937	21.62	33,400	1952	Jan. 27, 1952	15.33	14,600
1938	July 14, 1938	18.0	20,600		Mar. 11, 1952	14.94	13,600
1939	Apr. 16, 1939	20.6	29,800		Mar. 22, 1952	15.07	14,000
1940	Mar. 3, 1940	18.66	22,300	1953	Jan. 28, 1953	16.17	16,500
	Apr. 12, 1940	13.43	11,500				
	Apr. 19, 1940	19.95	25,400	1954	July 22, 1954	14.95	13,000
1941	June 3, 1941	13.18	11,200	1955	Feb. 6, 1955	14.09	11,600
					Feb. 22, 1955	13.35	10,600
1942	Apr. 9, 1942	16.79	18,000		Feb. 27, 1955	17.55	19,400
					Mar. 22, 1955	17.52	19,100
1943	Dec. 30, 1942	15.96	16,300				
	Mar. 11, 1943	14.74	13,900	1956	Jan. 30, 1956	13.67	11,000
	Mar. 19, 1943	22.3	35,100		Feb. 2, 1956	13.88	11,300
	July 29, 1943	16.28	16,900		Feb. 15, 1956	13.51	10,700
					Feb. 18, 1956	13.72	11,000
1944	Mar. 7, 1944	15.90	16,100		Feb. 25, 1956	13.87	11,300
					Mar. 7, 1956	15.72	14,400
1945	Feb. 22, 1945	18.38	22,200		Apr. 3, 1956	16.93	17,400
	Feb. 26, 1945	19.84	26,400				
	Mar. 2, 1945	17.37	19,400	1957	Feb. 10, 1957	14.12	11,600
	Mar. 6, 1945	23.42	39,400		Apr. 4, 1957	20.59	29,600
	Mar. 20, 1945	20.14	27,300		June 29, 1957	14.04	10,600
	June 17, 1945	13.73	12,100				
				1958	Nov. 19, 1957	16.38	15,700
1946	Oct. 1, 1945	12.83	10,400		Dec. 7, 1957	16.98	17,400
	Feb. 6, 1946	14.47	13,300		July 21, 1958	17.10	17,700
	June 17, 1946	13.4	11,400		Aug. 1, 1958	16.92	17,100
1947	Jan. 2, 1947	12.66	10,300	1959	Jan. 21, 1959	21.24	32,000
	Jan. 30, 1947	15.49	15,300				
	Apr. 16, 1947	14.27	13,000	1960	Feb. 10, 1960	15.08	12,700
	June 8, 1947	13.08	10,900		June 23, 1960	16.10	15,000
1948	Feb. 14, 1948	19.65	26,400	1961	Feb. 25, 1961	14.87	12,200
	Mar. 16, 1948	17.66	20,700		May 8, 1961	20.43	28,900

a About; as reported by local residents. b Occurred Feb. 14, 1936; backwater from ice.

2485. Licking River near Salyersville, Ky.

Location.--Lat 37°45'03", long 83°05'04", on left bank at upstream side of bridge on State Highway 30, 0.2 mile upstream from Gardner Branch, 1.2 miles west of Salyersville, Magoffin County, and 3.1 miles downstream from State Road Fork.

Drainage area.--140 sq mi.

Gage.--Nonrecording prior to Feb. 27, 1939; recording thereafter. Datum of gage is 823.80 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 14, 1939	17.19	2,020	1950	July 26, 1950	19.22	3,730
	Jan. 30, 1939	17.8	2,400		Sept. 3, 1950	17.15	2,000
	Feb. 3, 1939	25.4	14,300				
	Feb. 15, 1939	17.83	2,420	1951	Feb. 1, 1951	22.51	8,720
	Mar. 6, 1939	19.58	4,170				
	July 5, 1939	19.17	3,670	1952	Dec. 9, 1951	18.41	2,870
					Dec. 15, 1951	17.88	2,460
1940	Mar. 31, 1940	17.68	2,320		Jan. 28, 1952	17.95	2,500
	Apr. 20, 1940	18.19	2,700		Mar. 22, 1952	22.41	8,550
					May 20, 1952	19.38	3,930
1941	July 5, 1941	14.12	1,090				
				1953	Jan. 8, 1953	17.44	2,160
1942	June 20, 1942	18.18	2,510				
	June 23, 1942	18.91	3,140	1954	May 8, 1954	12.14	711
1943	Dec. 30, 1942	19.82	4,280	1955	Feb. 7, 1955	18.30	2,210
	Mar. 13, 1943	18.33	2,780		Feb. 28, 1955	21.65	6,280
	Mar. 20, 1943	20.40	5,300		Mar. 5, 1955	19.92	3,460
	Apr. 19, 1943	19.54	4,070		Mar. 17, 1955	19.25	2,860
					Mar. 22, 1955	18.80	2,500
1944	Mar. 20, 1944	18.30	2,780				
	Apr. 12, 1944	19.28	3,830	1956	Feb. 18, 1956	20.95	5,220
					Mar. 14, 1956	19.70	3,260
1945	Jan. 1, 1945	18.63	3,050		Apr. 16, 1956	20.41	4,420
	Mar. 6, 1945	19.63	4,190				
				1957	Dec. 14, 1956	19.00	3,320
1946	Jan. 8, 1946	20.60	5,600		Jan. 10, 1957	18.09	2,120
	June 2, 1946	17.17	2,020		Jan. 30, 1957	20.79	5,880
					Feb. 2, 1957	17.73	2,270
1947	Jan. 21, 1947	17.82	2,400		Feb. 10, 1957	17.93	2,020
	Aug. 5, 1947	18.54	2,950		Apr. 9, 1957	18.19	2,180
1948	Feb. 14, 1948	21.71	7,340	1958	Apr. 28, 1958	18.46	2,510
	Apr. 7, 1948	19.78	4,400		May 8, 1958	19.02	3,050
	Apr. 13, 1948	21.04	6,200				
				1959	Jan. 22, 1959	18.12	2,020
1949	Feb. 14, 1949	18.41	2,870				
				1960	Mar. 17, 1960	16.97	1,530
1950	Dec. 13, 1949	17.45	2,170				
	Jan. 6, 1950	17.86	2,440	1961	Jan. 16, 1961	18.18	2,300
	Jan. 31, 1950	19.95	4,640		July 30, 1961	17.78	2,040

2495. Licking River at Farmers, Ky.

Location.--Lat 38°08'25", long 83°33'30", near right bank on downstream side of bridge on U.S. Highway 60, 300 ft upstream from Chesapeake and Ohio Railway bridge, three-quarters of a mile west of Farmers, Rowan County, and 1.1 miles upstream from Triplett Creek.

Drainage area.--831 sq mi.

Gage.--Nonrecording prior to Sept. 2, 1939; recording thereafter. The base gage has been at several sites within 400 ft of present site since 1915. Gage heights given herein are equivalent to present site and datum within 0.1 ft. Datum of present base gage is 646.55 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage 1 mile downstream at different datum, July 2, 1938, to Sept. 30, 1944; 3.8 miles upstream at different datum Oct. 1, 1944, to Oct. 12, 1960; and 4.0 miles upstream at different datum since Oct. 12, 1960.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs. Backwater from Triplett Creek and return of overbank flow is present during most rises. Discharge computed using a slope as a factor.

Bankfull stage.--Flood stage is 25 ft from reports of U.S. Weather Bureau.

Remarks.--Prior to Sept. 2, 1939, gage heights were obtained from graphs drawn through observed gage heights obtained by the Geological Survey or the U.S. Weather Bureau. Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 27, 1913	a26.9	-	1924	Dec. 7, 1923	19.7	-
					Dec. 24, 1923	18.8	-
1916	Dec. 19, 1915	24.8	-		Jan. 3, 1924	26.2	-
	Dec. 30, 1915	20.7	-		Jan. 12, 1924	17.8	-
	Jan. 13, 1916	23.0	-		Feb. 20, 1924	21.8	-
	Feb. 1, 1916	17.5	-				
	Mar. 29, 1916	21.7	-	1925	Dec. 9, 1924	23.4	-
	June 20, 1916	21.9	-		Jan. 20, 1925	17.4	-
					Feb. 17, 1925	18.4	-
1917	Jan. 6, 1917	18.9	-		Mar. 19, 1925	20.4	-
	Jan. 22, 1917	25.6	-		May 12, 1925	21.8	-
	Mar. 1, 1917	19.3	-				
	Mar. 9, 1917	18.7	-	1926	Jan. 22, 1926	25.2	-
	Mar. 12, 1917	19.2	-		June 2, 1926	20.2	-
	Mar. 24, 1917	19.8	-				
	May 29, 1917	20.9	-	1927	Dec. 22, 1926	24.0	-
					Dec. 26, 1926	23.4	-
1918	Jan. 30, 1918	21.3	-		Jan. 22, 1927	29.8	-
	Feb. 9, 1918	b31.1	-		Apr. 2, 1927	20.6	-
					May 31, 1927	24.8	-
1919	Jan. 2, 1919	25.5	-				
	May 10, 1919	22.7	-	1928	June 30, 1928	25.6	-
1920	Nov. 2, 1919	23.1	-	1929	Dec. 1, 1928	19.2	-
	Nov. 27, 1919	22.9	-		Jan. 18, 1929	18.5	-
	Dec. 7, 1919	25.8	-		Jan. 25, 1929	17.5	-
	Dec. 14, 1919	22.1	-		Feb. 27, 1929	22.3	-
	Jan. 10, 1920	27.3	-		Mar. 7, 1929	22.2	-
	Jan. 24, 1920	23.9	-		Mar. 24, 1929	22.0	-
	Mar. 19, 1920	22.6	-		May 3, 1929	22.2	-
	Apr. 21, 1920	22.0	-		May 7, 1929	20.7	-
1921	Mar. 4, 1921	17.0	-	1930	Feb. 5, 1930	20.3	-
1922	Nov. 18, 1921	20.4	-	1931	Apr. 23, 1931	18.2	-
	Nov. 29, 1921	18.4	-		Apr. 26, 1931	18.0	-
	Dec. 25, 1921	25.6	-				
	Feb. 21, 1922	21.6	-	1932	Jan. 24, 1932	19.8	-
	Mar. 3, 1922	18.7	-		Jan. 30, 1932	25.2	-
	Mar. 11, 1922	18.8	-		Mar. 18, 1932	18.0	-
	Mar. 16, 1922	21.8	-		Mar. 28, 1932	24.0	-
	Apr. 1, 1922	18.8	-		July 5, 1932	18.8	-
	Apr. 15, 1922	21.6	-				
				1933	Jan. 22, 1933	22.6	-
1923	Jan. 22, 1923	18.0	-		Feb. 21, 1933	20.0	-
	Feb. 2, 1923	22.9	-		Mar. 15, 1933	21.0	-
	Mar. 7, 1923	17.6	-		Mar. 19, 1933	22.3	-
	Mar. 13, 1923	17.4	-		Apr. 19, 1933	18.0	-
	Apr. 14, 1923	17.8	-				

a Annual peak only.
b Maximum stage since at least 1904 (backwater from ice); from U.S. Weather Bureau.

Peak stages and discharges of Licking River at Farmers, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 4, 1934	21.0	-
	Aug. 11, 1934	19.0	-
1935	Jan. 21, 1935	22.3	-
	Mar. 12, 1935	26.4	-
	Mar. 26, 1935	21.3	-
	Mar. 31, 1935	22.2	-
	Apr. 9, 1935	22.7	-
	May 15, 1935	20.0	-
	May 21, 1935	22.0	-
	May 26, 1935	19.0	-
	June 22, 1935	21.8	-
	Sept. 5, 1935	19.3	-
1936	Jan. 4, 1936	20.0	-
	Mar. 16, 1936	20.5	-
	Apr. 6, 1936	23.4	-
1937	Jan. 3, 1937	19.2	-
	Jan. 11, 1937	20.0	-
	Jan. 25, 1937	26.2	-
1938	July 15, 1938	25.4	13,500
1939	Jan. 31, 1939	22.6	12,600
	Feb. 3, 1939	24.8	22,200
	Feb. 11, 1939	19.4	8,640
	Feb. 16, 1939	21.8	10,400
	Mar. 6, 1939	23.5	12,500
	Apr. 17, 1939	22.1	10,200
	July 5, 1939	25.4	20,000
1940	Mar. 4, 1940	18.10	8,450
	Mar. 31, 1940	21.35	11,200
	Apr. 21, 1940	20.02	9,280
1941	July 20, 1941	18.53	6,060
1942	Apr. 10, 1942	22.73	10,200
	Aug. 24, 1942	19.33	9,420
1943	Nov. 24, 1942	19.95	7,830
	Dec. 31, 1942	24.56	17,200
	Mar. 21, 1943	22.93	12,800
	Apr. 20, 1943	19.94	9,120
1944	Mar. 21, 1944	19.26	7,620
	Apr. 13, 1944	21.59	10,600
1945	Jan. 1, 1945	23.15	13,700
	Feb. 23, 1945	21.82	10,000
	Mar. 1, 1945	23.97	12,500
	Mar. 7, 1945	21.28	9,400
1946	Jan. 8, 1946	18.70	7,950
	Feb. 14, 1946	20.91	7,440
	June 3, 1946	21.19	10,800
1947	Jan. 21, 1947	17.41	7,140
1948	Feb. 15, 1948	24.80	15,200
	Mar. 16, 1948	19.75	7,680
	Apr. 8, 1948	25.00	17,000
	Apr. 14, 1948	25.60	14,900
1949	Dec. 16, 1948	20.77	9,280
	Jan. 6, 1949	19.01	8,510
	Feb. 17, 1949	22.95	10,500
1950	Dec. 14, 1949	22.60	9,730
	Jan. 6, 1950	23.74	14,300
	Jan. 14, 1950	20.70	9,150
	Feb. 1, 1950	26.31	21,300
	Mar. 13, 1950	19.95	7,270
	June 21, 1950	25.18	9,710
	July 28, 1950	19.82	10,100
	Sept.22, 1950	25.45	c14,000
1951	Nov. 5, 1950	17.00	7,620
	Jan. 16, 1951	22.51	9,800
	Feb. 1, 1951	21.78	11,400
	Mar. 19, 1951	19.24	8,250
1952	Dec. 9, 1951	20.72	9,920
	Dec. 16, 1951	19.37	7,770
	Dec. 22, 1951	20.80	8,640
	Jan. 28, 1952	20.70	9,200
	Mar. 12, 1952	19.56	7,880
	Mar. 24, 1952	25.00	19,700
	May 21, 1952	18.2	8,290
1953	Jan. 9, 1953	18.75	8,660
	Mar. 4, 1953	22.87	11,000
1954	May 9, 1954	10.98	4,220
1955	Feb. 7, 1955	20.55	8,890
	Mar. 5, 1955	25.65	14,500
	Mar. 16, 1955	16.15	7,150
	Mar. 23, 1955	20.22	9,660
1956	Feb. 3, 1956	21.47	8,720
	Feb. 16, 1956	22.87	10,800
	Feb. 19, 1956	24.28	13,200
	Mar. 15, 1956	20.86	10,200
	Apr. 17, 1956	20.47	10,100
1957	Dec. 16, 1956	22.72	12,000
	Jan. 10, 1957	17.62	9,330
	Jan. 24, 1957	20.01	8,100
	Feb. 3, 1957	21.64	10,100
	Feb. 11, 1957	21.46	10,600
	Apr. 10, 1957	17.49	7,140
1958	Apr. 29, 1958	23.65	13,200
	May 9, 1958	21.43	10,100
1959	Jan. 21, 1959	20.1	8,610
	Apr. 13, 1959	17.87	7,420
1960	Feb. 11, 1960	20.13	7,550
	July 3, 1960	21.65	7,370
1961	Jan. 17, 1961	18.61	7,360
	Apr. 2, 1961	19.22	8,050
	May 8, 1961	22.30	11,000
	June 11, 1961	19.80	9,280
	June 16, 1961	20.22	7,840
	Aug. 1, 1961	18.40	8,830

c About.

2500. Triplett Creek at Morehead, Ky.

Location.--Lat 38°10'46", long 83°25'55", on right bank at Morehead, Rowan County, 1.1 miles upstream from Dry Creek, 1.6 miles downstream from Christy Creek, and 13¼ miles upstream from mouth.

Drainage area.--47.9 sq mi.

Gage.--Recording. Datum of gage is 708.26 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended on basis of slope-area measurement at 18,600 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 4,000 cfs. Only annual peaks are shown prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	July 5, 1939	a18.9	44,000	1950	Sept.21, 1950	13.10	11,400
1941	July 19, 1941	11.41	7,090	1951	Jan. 4, 1951	10.15	5,080
					Jan. 14, 1951	10.10	5,010
1942	Apr. 9, 1942	11.53	7,330				
	Aug. 23, 1942	11.09	6,510	1952	Mar. 22, 1952	11.92	8,110
1943	Mar. 19, 1943	8.72	3,520	1953	Mar. 3, 1953	9.77	4,620
1944	Apr. 11, 1944	8.85	3,650	1954	May 1, 1954	6.89	2,190
1945	Dec. 31, 1944	9.84	4,700	1955	Feb. 27, 1955	9.43	4,240
	Apr. 25, 1945	9.47	4,290		Mar. 5, 1955	12.35	9,120
					July 9, 1955	13.00	11,000
1946	May 15, 1946	8.70	3,610				
				1956	Jan. 30, 1956	10.23	5,190
1947	Aug. 5, 1947	10.07	4,970		Feb. 2, 1956	9.37	4,180
					Feb. 15, 1956	10.00	4,890
1948	Feb. 13, 1948	9.80	4,650		Feb. 17, 1956	11.53	7,330
	Mar. 16, 1948	9.24	4,030		Mar. 14, 1956	9.77	4,620
	Apr. 8, 1948	12.40	9,250				
	Apr. 13, 1948	10.35	5,360	1957	Dec. 14, 1956	11.37	7,020
					Jan. 22, 1957	10.61	5,730
1949	Dec. 15, 1948	9.39	4,200				
	Jan. 5, 1949	9.53	4,350	1958	May 5, 1958	8.38	3,210
	Feb. 14, 1949	9.36	4,170				
				1959	Jan. 21, 1959	8.27	3,130
1950	Dec. 13, 1949	9.36	4,170				
	Jan. 5, 1950	9.78	4,630	1960	July 1, 1960	11.88	8,030
	Jan. 31, 1950	9.80	4,650		July 3, 1960	14.83	18,600
	May 26, 1950	11.37	7,020				
	June 19, 1950	12.48	9,490	1961	May 7, 1961	11.01	6,370

a Maximum stage known.

2505. Licking River at Blue Lick Springs, Ky.

Location.--Lat 38°25'19", long 83°59'57", near center of span on downstream side of bridge on U.S. Highway 68 and State Highway 32, at Blue Lick Springs, Nicholas County, 1¼ miles upstream from Indian Run, 10 miles upstream from Johnson Creek, and 10 miles downstream from Fleming Creek.

Drainage area.--1,785 sq mi.

Gage.--Nonrecording, with crest-stage gage since May 4, 1951. Datum of gage is 560.99 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs.

Bankfull stage.--27 ft.

Remarks.--Base for partial-duration series, 16,000 cfs. Only annual peaks are shown for 1938 and after 1959.

Peak stages and discharges of Licking River at Blue Lick Springs, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	-	38.6	-	1949	Feb. 16, 1949	30.2	19,500
1913	-	35.5	-	1950	Dec. 13, 1949	28.6	17,300
					Jan. 6, 1950	38.8	26,300
1937	-	a47.4	-		Jan. 16, 1950	30.2	18,600
					Feb. 3, 1950	40.2	27,800
1938	July 14, 1938	35.6	24,100		June 21, 1950	36.6	24,200
					Sept.24, 1950	29.2	17,800
1939	Feb. 3, 1939	36.4	24,800				
	Feb. 17, 1939	27.1	16,500	1951	Jan. 4, 1951	29.4	18,100
	Mar. 7, 1939	30.9	19,900		Jan. 15, 1951	32.5	20,900
	Apr. 18, 1939	33.6	22,300		Feb. 7, 1951	27.2	16,300
	July 9, 1939	33.2	21,900		Feb. 13, 1951	28.4	17,200
1940	Mar. 3, 1940	28.7	17,900	1952	Jan. 5, 1952	28.9	17,600
					Mar. 23, 1952	34.0	22,400
1941	July 19, 1941	26.7	16,200				
				1953	Mar. 4, 1953	31.19	19,700
1942	Apr. 12, 1942	27.9	17,200				
				1954	Apr. 18, 1954	14.36	6,390
1943	Jan. 1, 1943	36.2	24,600				
	Mar. 19, 1943	38.0	26,300	1955	Mar. 8, 1955	35.32	23,700
1944	Apr. 14, 1944	25.9	15,600	1956	Feb. 2, 1956	29.80	18,400
					Feb. 18, 1956	35.45	23,800
1945	Jan. 3, 1945	28.5	17,700		Mar. 8, 1956	28.12	17,000
	Mar. 6, 1945	39.1	27,200		Mar. 16, 1956	27.40	16,400
1946	Feb. 14, 1946	28.9	18,100	1957	Apr. 4, 1957	28.8	16,700
	June 17, 1946	30.4	19,400				
				1958	May 7, 1958	31.64	20,100
1947	Jan. 22, 1947	20.1	10,900	1959	Jan. 22, 1959	30.47	19,000
1948	Feb. 14, 1948	36.2	25,700	1960	July 4, 1960	28.83	17,600
	Apr. 13, 1948	45.0	35,900	1961	May 9, 1961	34.1	21,900

a Highest known flood since at least 1854.

2510. North Fork Licking River near Lewisburg, Ky.

Location.--Lat 38°32'55", long 83°47'30", on left bank at downstream side of bridge on State Highway 419, 1¼ miles west of Lewisburg, Mason County, and 1½ miles downstream from Mill Creek.

Drainage area.--119 sq mi.

Gage.--Nonrecording prior to Nov. 2, 1950; recording thereafter. Altitude of gage is 680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 3,600 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	July 1938	22.7	13,300	1951	Jan. 4, 1951	15.25	6,390
					Jan. 14, 1951	14.47	5,920
1947	Jan. 30, 1947	11.3	4,020		Feb. 7, 1951	11.82	4,330
					Feb. 12, 1951	12.15	4,530
1948	Feb. 13, 1948	17.6	8,240		Mar. 13, 1951	12.20	4,560
	Mar. 27, 1948	11.9	4,380				
	Apr. 13, 1948	20.7	11,300	1952	Dec. 8, 1951	10.72	3,680
					Dec. 14, 1951	10.71	3,680
1949	Dec. 15, 1948	11.7	4,260		Jan. 2, 1952	10.83	3,740
	Feb. 15, 1949	11.5	4,140		Jan. 4, 1952	11.00	3,840
					Mar. 11, 1952	10.94	3,800
1950	Dec. 12, 1949	12.5	4,740		Mar. 22, 1952	14.45	5,910
	Jan. 6, 1950	16.6	7,440				
	Jan. 10, 1950	11.4	4,080	1953	Mar. 4, 1953	14.18	5,750
	Jan. 26, 1950	11.2	3,960				
	Feb. 1, 1950	14.2	5,760	1954	Mar. 13, 1954	6.92	1,780
	June 20, 1950	14.5	5,850				
	July 20, 1950	12.6	4,710	1955	Feb. 27, 1955	13.16	5,140
	Sept.12, 1950	13.0	4,950		Mar. 16, 1955	12.28	4,610
	Sept.20, 1950	19.8	10,400		May 13, 1955	10.68	3,660

Peak stages and discharges of North Fork Licking River near Lewisburg, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Jan. 30, 1956	13.3	5,220	1958	May 5, 1958	12.47	4,720
	Feb. 2, 1956	13.6	5,400		July 23, 1958	13.53	5,360
	Feb. 15, 1956	11.91	4,390				
	Feb. 17, 1956	12.32	4,630	1959	Jan. 21, 1959	12.95	5,010
	Mar. 8, 1956	13.38	5,270				
	Mar. 14, 1956	11.85	4,350	1960	Jan. 15, 1960	10.95	3,810
	Sept.15, 1956	11.14	3,920		Feb. 10, 1960	12.14	4,520
					July 3, 1960	17.58	8,220
1957	Feb. 9, 1957	14.78	6,110				
	Apr. 4, 1957	15.12	6,310	1961	Mar. 5, 1961	11.74	4,280
	Apr. 8, 1957	12.36	4,660		Apr. 16, 1961	12.35	4,650
					May 7, 1961	15.36	6,460
1958	Nov. 18, 1957	13.65	5,430		June 15, 1961	13.23	5,180

2515. Licking River at McKinneysburg, Ky.

Location.--Lat 38°35'52", long 84°16'00", on right bank at downstream side of highway bridge at McKinneysburg, Pendleton County, 6.5 miles southeast of Falmouth, 9.0 miles upstream from Blanket Creek, and 12.8 miles upstream from South Fork.

Drainage area.--2,326 sq mi.

Gage.--Nonrecording prior to July 1, 1939; recording thereafter. Recording auxiliary gage 4.0 miles downstream since Oct. 1, 1949. July 23, 1924 to Aug. 9, 1926, datum of base gage unknown. Since Nov. 18, 1938, datum of base gage is 520.83 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 38,000 cfs.

Bankfull stage.--30 ft.

Remarks.--Base for partial-duration series, 21,000 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	December 1921	a42.5	-	1947	Jan. 2, 1947	24.72	21,000
1925	Dec. 9, 1924	29.4	34,700	1948	Feb. 14, 1948	37.72	39,800
1926	Jan. 22, 1926	23.3	24,500		Mar. 27, 1948	29.71	28,400
					Apr. 13, 1948	47.59	54,100
1937	January 1937	a47.8	-				
				1949	Jan. 26, 1949	24.77	21,500
1939	Feb. 4, 1939	33.55	35,700		Feb. 16, 1949	30.42	29,400
	Feb. 16, 1939	24.25	22,000				
	Mar. 5, 1939	30.4	31,000	1950	Dec. 13, 1949	25.78	22,100
	Mar. 11, 1939	32.0	33,400		Jan. 6, 1950	b39.30	41,500
	Apr. 17, 1939	36.68	40,400		Jan. 16, 1950	29.18	27,500
	July 9, 1939	28.13	27,500		Feb. 3, 1950	b34.15	35,200
					Feb. 9, 1950	25.63	21,900
1940	Mar. 3, 1940	32.77	34,600		June 21, 1950	35.63	37,100
	Apr. 20, 1940	28.37	28,000		Sept.22, 1950	28.68	27,500
1941	July 17, 1941	21.90	18,800	1951	Jan. 4, 1951	29.93	27,500
					Jan. 15, 1951	33.58	32,700
1942	Mar. 15, 1942	23.72	21,300		Feb. 8, 1951	-	c22,000
					Feb. 13, 1951	30.40	28,400
1943	Dec. 31, 1942	34.84	37,600				
	Mar. 20, 1943	40.86	46,700	1952	Jan. 4, 1952	b28.80	26,000
					Mar. 23, 1952	33.96	32,600
1944	Mar. 7, 1944	24.45	22,300				
				1953	Mar. 4, 1953	31.25	29,400
1945	Feb. 22, 1945	26.60	23,700				
	Feb. 27, 1945	34.82	35,100	1954	Apr. 18, 1954	13.25	7,050
	Mar. 3, 1945	37.40	38,900				
	Mar. 7, 1945	40.41	43,400	1955	Mar. 1, 1955	26.57	23,300
					Mar. 7, 1955	28.95	26,700
1946	Feb. 15, 1946	26.68	23,800		Mar. 22, 1955	26.77	23,000
	Mar. 26, 1946	26.63	23,700				
	June 17, 1946	32.92	32,800	1956	Feb. 2, 1956	29.16	27,000

a Present datum.
b Occurred on next day.
c About.

Peak stages and discharges of Licking River at McKinneysburg, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 18, 1956	32.25	31,600	1958	May 7, 1958	31.93	31,500
	Feb. 25, 1956	25.11	21,400				
	Mar. 8, 1956	b27.60	24,900	1959	Jan. 22, 1959	33.12	33,200
	Mar. 16, 1956	25.77	22,500				
				1960	July 3, 1960	29.24	27,700
1957	Feb. 10, 1957	27.85	24,400				
	Apr. 4, 1957	30.26	26,700	1961	Mar. 6, 1961	31.32	30,600
	Apr. 8, 1957	24.84	21,000		May 9, 1961	41.08	44,700
1958	Nov. 19, 1957	26.66	24,100				

b Occurred on next day.

2520. Stoner Creek at Paris, Ky.

Location.--Lat 38°13'45", long 84°15'22", on left bank at upstream side of bridge on county road, 0.5 mile north of Paris, Bourbon County, and 1.5 miles downstream from Huston Creek.

Drainage area.--239 sq mi.

Gage.--Recording. Datum of gage is 770.43 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,400 cfs.

Historical data.--Highest stage known since about 1928, about 19.5 ft in winter of 1951, from information by local resident.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 21, 1954	5.61	1,240	1958	Dec. 8, 1957	10.59	4,540
					Dec. 21, 1957	9.67	3,780
1955	Feb. 6, 1955	12.03	5,840		May 5, 1958	9.97	4,020
	Feb. 22, 1955	10.39	4,360		July 23, 1958	10.55	4,500
	Feb. 27, 1955	9.67	3,780		Aug. 3, 1958	13.43	7,230
	Mar. 5, 1955	12.51	6,310				
	Mar. 22, 1956	13.19	6,990	1959	Jan. 22, 1959	14.12	7,940
					July 25, 1959	9.94	3,990
1956	Jan. 30, 1956	11.43	5,300				
	Feb. 2, 1956	13.79	7,590	1960	Jan. 15, 1960	11.93	5,750
	Feb. 15, 1956	13.56	7,360		Feb. 10, 1960	11.33	5,210
	Feb. 18, 1956	13.38	7,180		June 24, 1960	10.16	4,170
	Mar. 8, 1956	15.84	10,000		July 1, 1960	9.92	3,980
	Mar. 14, 1956	12.21	6,010		July 4, 1960	10.98	4,890
	June 20, 1956	12.37	6,170				
				1961	Feb. 25, 1961	10.00	4,040
1957	Dec. 15, 1956	10.19	4,190		Mar. 5, 1961	9.42	3,580
	Jan. 23, 1957	10.81	4,740		Apr. 1, 1961	10.05	4,080
	Feb. 10, 1957	11.52	5,380		Apr. 16, 1961	8.77	3,120
	Apr. 4, 1957	15.53	9,640		Apr. 24, 1961	10.06	4,090
	Apr. 8, 1957	10.59	4,540		May 8, 1961	14.80	8,760
					June 16, 1961	8.75	3,100
1958	Nov. 19, 1957	10.84	4,770				

2525. South Fork Licking River at Cynthiana, Ky.

Location.--Lat 38°23'27", long 84°18'11", on left bank at downstream side of bridge on State Highways 356 and 36 at Cynthiana, Harrison County, 0.4 mile downstream from Grays Run, and in pool formed by old milldam 2.6 miles downstream.

Drainage area.--621 sq mi.

Gage.--Nonrecording prior to Oct. 28, 1952; recording thereafter. Datum of gage is 688.52 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--Flood stage is 20 ft, from reports of the U.S. Weather Bureau.

Remarks.--Stage records prior to 1938 from reports of the U.S. Weather Bureau. Discharges were obtained from a rating based on discharge measurements made since 1938. Small diversion by Cynthiana municipal waterplant. Base for partial-duration series, 10,000 cfs. Only annual peak is shown for 1918 and for 1937.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Feb. 8, 1918	18.4	19,600	1933	Jan. 22, 1933	18.2	19,200
					Jan. 26, 1933	13.3	10,600
1919	Jan. 2, 1919	18.4	19,600		Mar. 19, 1933	17.4	17,700
					Apr. 18, 1933	13.5	11,000
1920	Nov. 2, 1919	21.4	27,700				
	Nov. 27, 1919	19.3	21,600	1934	Dec. 17, 1933	15.7	14,700
	Dec. 7, 1919	22.3	31,100		Dec. 20, 1933	14.0	11,800
	Dec. 13, 1919	16.9	16,800				
	Jan. 9, 1920	20.5	24,800	1935	Jan. 21, 1935	15.6	14,500
	Jan. 24, 1920	17.2	17,400		Mar. 12, 1935	17.9	18,600
	Mar. 17, 1920	16.3	15,700		Mar. 31, 1935	14.1	11,900
	Mar. 20, 1920	15.4	14,100		Apr. 8, 1935	17.8	18,400
	Apr. 21, 1920	19.4	21,800		May 21, 1935	18.0	18,800
					June 22, 1935	19.4	21,800
1921	Mar. 29, 1921	10.5	6,300		Sept. 5, 1935	16.4	15,900
1922	Nov. 17, 1921	17.3	17,500	1936	Nov. 13, 1935	14.4	12,400
	Nov. 28, 1921	14.0	11,800		Apr. 6, 1936	16.3	15,700
	Dec. 24, 1921	22.6	32,300				
	Mar. 15, 1922	14.3	12,300	1937	Jan. 22, 1937	20.0	23,300
	Apr. 15, 1922	16.0	15,200				
				1938	July 14, 1938	17.7	18,400
1923	Jan. 22, 1923	13.9	11,600				
	Feb. 1, 1923	18.0	18,800	1939	Jan. 30, 1939	17.2	16,500
	Feb. 13, 1923	13.7	11,300		Feb. 4, 1939	15.55	14,000
	Apr. 14, 1923	13.6	11,100		Mar. 5, 1939	17.85	17,600
					Apr. 17, 1939	16.6	15,600
1924	Dec. 23, 1923	14.3	12,300				
	Jan. 1, 1924	14.2	12,100	1940	Feb. 19, 1940	13.2	10,200
	Jan. 3, 1924	18.3	19,400		Mar. 3, 1940	17.35	16,900
	Jan. 11, 1924	18.8	20,400		Mar. 31, 1940	15.7	14,100
	Feb. 20, 1924	16.3	15,700		Apr. 20, 1940	14.4	12,000
1925	Dec. 8, 1924	20.6	25,100	1941	July 19, 1941	12.65	9,300
1926	Jan. 22, 1926	17.2	17,400	1942	Apr. 10, 1942	14.1	11,600
	July 7, 1926	16.0	15,200				
				1943	Nov. 23, 1942	13.3	10,400
1927	Dec. 22, 1926	16.6	16,300		Dec. 30, 1942	18.2	18,200
	Dec. 25, 1926	14.6	12,800		Mar. 12, 1943	14.0	11,400
	Jan. 22, 1927	21.2	27,000		Mar. 19, 1943	21.4	27,700
	May 9, 1927	13.9	11,600				
				1944	Apr. 12, 1944	12.7	9,450
1928	Nov. 17, 1927	14.8	13,100				
	June 30, 1928	20.1	23,600	1945	Jan. 1, 1945	14.7	12,500
	July 14, 1928	14.8	13,100		Feb. 22, 1945	15.4	13,600
					Feb. 27, 1945	18.4	18,600
1929	Feb. 26, 1929	18.6	20,000		Mar. 3, 1945	17.0	16,200
					Mar. 6, 1945	19.2	19,900
1930	Feb. 5, 1930	16.2	15,600		May 17, 1945	13.1	10,000
1931	Apr. 4, 1931	10.2	5,880	1946	Feb. 14, 1946	16.6	15,600
					June 17, 1946	18.3	18,400
1932	Dec. 14, 1931	14.8	13,100				
	Jan. 16, 1932	14.5	12,600	1947	Jan. 2, 1947	12.3	9,000
	Jan. 24, 1932	16.6	16,300				
	Jan. 30, 1932	17.8	18,400	1948	Feb. 14, 1948	19.9	23,000
	Mar. 18, 1932	13.8	11,400		Mar. 16, 1948	16.2	15,500
	Mar. 28, 1932	15.1	13,600		Mar. 27, 1948	13.6	11,000

Peak stages and discharges of South Fork Licking River at Cynthiana, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 8, 1948	19.3	21,500	1955	Mar. 5, 1955	14.18	12,100
	Apr. 13, 1948	23.32	35,300		Mar. 22, 1955	14.90	13,300
1949	Dec. 16, 1948	14.8	13,000	1956	Feb. 3, 1956	15.38	14,100
	Feb. 15, 1949	17.75	18,300		Feb. 15, 1956	15.40	14,100
					Feb. 18, 1956	15.51	14,300
1950	Dec. 13, 1949	15.0	13,400		Mar. 8, 1956	16.98	17,000
	Jan. 6, 1950	20.8	25,700		Mar. 14, 1956	13.79	11,400
	Feb. 1, 1950	18.3	19,400		June 21, 1956	15.05	13,500
	June 19, 1950	20.6	25,100				
				1957	Feb. 10, 1957	13.37	10,700
1951	Jan. 4, 1951	19.2	21,300		Apr. 5, 1957	16.68	16,400
	Jan. 15, 1951	18.25	19,300		Apr. 9, 1957	12.99	10,100
	Feb. 13, 1951	16.7	16,500				
				1958	Nov. 19, 1957	12.95	10,100
1952	Dec. 9, 1951	13.3	10,600		May 5, 1958	14.47	12,600
	Dec. 21, 1951	14.5	12,600				
	Jan. 3, 1952	13.3	10,600	1959	Jan. 21, 1959	17.56	18,000
	Mar. 11, 1952	13.9	11,600				
	Mar. 23, 1952	20.2	23,900	1960	Jan. 15, 1960	15.13	13,700
					Feb. 11, 1960	13.46	10,900
1953	Mar. 4, 1953	18.59	20,000		July 1, 1960	13.24	10,500
1954	June 13, 1954	7.84	3,120	1961	Mar. 5, 1961	14.57	12,700
					May 8, 1961	20.22	24,000
1955	Feb. 6, 1955	13.81	11,400				

2535. Licking River at Catawba, Ky.

Location.--Lat 38°42'37", long 84°18'39", on left bank 1 mile southeast of Catawba, Pendleton County, 1.6 miles upstream from Kincaid Creek, and 2.3 miles north of Falmouth.

Drainage area.--3,300 sq mi.

Gage.--Nonrecording prior to July 11, 1928; recording thereafter. Sept. 1, 1887, to July 10, 1928, at Falmouth, 3.8 miles upstream at datum 13.8 ft higher. Datum of gage is 498.37 ft above mean sea level (Louisville & Nashville RR. bench mark).

Stage-discharge relation.--At site used 1887 to 1928 defined by current-meter measurements below 30,000 cfs and extended on basis of comparison with relation for present site. At present site defined by current-meter measurements.

Bankfull stage.--36 ft.

Remarks.--Stage records prior to 1929 from reports of U.S. Weather Bureau. Discharges were obtained from a stage-discharge relation based on discharge measurements made in 1915 and 1916 and comparison with the relation obtained at the present site. Records prior to 1929 include flow of South Fork Licking River. Base for partial-duration series, 32,000 cfs. Only annual peak is shown for 1854.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1854	Aug. 2, 1954	41.1	a84,900	1894	Feb. 9, 1894	10.0	13,900
1888	Apr. 10, 1888	16.3	25,600	1895	Jan. 8, 1895	13.0	19,300
1889	Jan. 28, 1889	13.2	19,700	1896	Mar. 20, 1896	16.4	25,800
1890	Feb. 8, 1890	20.3	34,200	1897	Feb. 22, 1897	27.5	50,000
	Feb. 26, 1890	22.2	38,300				
	Mar. 23, 1890	24.8	44,100	1898	Jan. 16, 1898	19.9	33,300
					Jan. 23, 1898	27.7	50,500
1891	Jan. 1, 1891	20.0	33,500				
	Feb. 1, 1891	21.6	37,000	1899	Jan. 14, 1899	22.6	39,200
					Mar. 5, 1899	27.4	49,800
1892	Apr. 21, 1892	23.7	41,600		Mar. 29, 1899	20.6	34,800
1893	Feb. 15, 1893	13.4	20,000	1900	Feb. 9, 1900	15.2	23,400

a Maximum known prior to 1937.

Peak stages and discharges of Licking River at Catawba, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Apr. 20, 1901	20.2	33,900
1902	Jan. 27, 1902	18.8	30,900
1903	Dec. 16, 1902	28.6	52,600
	Feb. 16, 1903	25.8	46,300
	Feb. 28, 1903	19.8	33,100
1904	Mar. 26, 1904	19.5	32,400
1905	May 13, 1905	20.3	34,200
1906	Nov. 29, 1905	24.8	44,100
	Mar. 31, 1906	22.6	39,200
1907	Nov. 20, 1906	19.8	33,100
	Jan. 3, 1907	20.2	33,900
	Jan. 16, 1907	28.7	52,800
	Mar. 14, 1907	28.2	51,700
1908	Feb. 5, 1908	21.0	35,700
	Feb. 15, 1908	24.0	42,300
	Apr. 1, 1908	30.6	57,400
1909	Feb. 24, 1909	38.8	78,700
	Mar. 10, 1909	25.1	44,700
	May 2, 1909	24.9	44,300
1910	Jan. 14, 1910	23.6	41,400
	Jan. 19, 1910	21.4	36,600
	Feb. 23, 1910	19.4	32,200
	June 11, 1910	27.5	50,000
	July 7, 1910	20.0	33,500
1911	Mar. 8, 1911	18.3	29,800
1912	Oct. 3, 1911	19.5	32,400
	Mar. 15, 1912	19.7	32,800
	Mar. 25, 1912	22.5	39,000
	Apr. 29, 1912	21.0	35,700
1913	Jan. 8, 1913	27.6	50,300
	Jan. 12, 1913	34.7	67,900
	Mar. 27, 1913	33.9	65,800
1914	Feb. 20, 1914	27.2	49,400
1915	Feb. 1, 1915	25.1	44,700
	July 8, 1915	23.5	41,200
1916	Dec. 18, 1915	31.0	56,800
	Dec. 30, 1915	21.2	36,100
	Jan. 13, 1916	27.2	49,400
	Jan. 30, 1916	22.5	39,000
1917	Dec. 27, 1916	22.8	39,700
	Jan. 23, 1917	29.7	55,200
	Mar. 13, 1917	23.5	41,200
	Apr. 2, 1917	19.7	32,800
	May 28, 1917	26.5	47,800
1918	Feb. 10, 1918	32.2	61,400
1919	Jan. 2, 1919	27.6	50,300
	May 10, 1919	19.4	32,200
1920	Nov. 2, 1919	27.3	49,600
	Nov. 27, 1919	30.0	55,900
	Dec. 8, 1919	28.2	51,700
	Jan. 9, 1920	28.8	53,000
	Jan. 24, 1920	25.5	45,600
	Mar. 19, 1920	21.8	37,500
	Apr. 21, 1920	34.4	67,100
1921	Feb. 11, 1921	15.3	23,600
1922	Nov. 18, 1921	29.8	55,400
	Dec. 24, 1921	39.1	79,500
	Mar. 15, 1922	27.0	48,900
	Apr. 15, 1922	21.7	37,200
1923	Feb. 2, 1923	28.1	51,400
	Apr. 14, 1923	25.8	46,300
1924	Jan. 4, 1924	27.1	49,100
	Feb. 20, 1924	21.3	36,400
1925	Dec. 9, 1924	29.3	54,200
	Feb. 23, 1925	20.2	33,900
1926	Jan. 22, 1926	23.2	40,500
1927	Dec. 23, 1926	24.2	42,700
	Dec. 26, 1926	26.7	48,200
	Jan. 23, 1927	38.4	77,600
1928	July 1, 1928	26.0	46,700
1929	Feb. 27, 1929	29.9	43,200
	May 3, 1929	24.55	32,000
	May 14, 1929	25.98	35,000
1930	Feb. 5, 1930	24.3	31,500
1931	Apr. 4, 1931	26.2	35,400
1932	Jan. 30, 1932	28.56	40,500
	Feb. 4, 1932	28.45	40,100
	Apr. 9, 1932	25.25	33,400
1933	Jan. 22, 1933	35.22	54,600
	Jan. 25, 1933	27.92	39,000
	Mar. 19, 1933	34	52,000
	Apr. 18, 1933	29	41,300
1934	Dec. 18, 1933	27.57	38,400
1935	Jan. 22, 1935	27.88	39,100
	Mar. 13, 1935	32.55	50,400
	Mar. 25, 1935	28.57	40,800
	Apr. 9, 1935	30.94	46,400
	May 21, 1935	28.13	39,800
	June 23, 1935	28.67	41,000
	Sept. 5, 1935	27.50	38,400
1936	Apr. 7, 1936	28.48	40,600
	Apr. 11, 1936	25.33	33,700
1937	Jan. 11, 1937	33.55	52,800
	Jan. 15, 1937	26.15	35,400
	Jan. 23, 1937	45.98	86,200
1938	July 15, 1938	31.67	47,300
1939	Jan. 30, 1939	26.75	36,400
	Feb. 4, 1939	32.60	49,300
	Mar. 6, 1939	31.05	45,800
	Mar. 11, 1939	33.18	50,700
	Apr. 17, 1939	36.84	59,300
1940	Mar. 3, 1940	35.75	56,900
	Apr. 20, 1940	29.73	42,900
1941	July 20, 1941	20.90	24,400
1942	Mar. 15, 1942	25.02	32,900
1943	Dec. 31, 1942	33.60	51,600
	Mar. 20, 1943	42.40	76,000
1944	Mar. 7, 1944	23.87	30,700
1945	Feb. 22, 1945	27.42	38,200
	Feb. 27, 1945	35.10	56,700
	Mar. 7, 1945	41.35	73,300
1946	Feb. 14, 1946	27.98	39,500
	Mar. 26, 1946	28.75	41,200
	June 18, 1946	33.60	52,900
1947	Jan. 2, 1947	26.19	35,500
1948	Feb. 14, 1948	38.68	64,200
	Mar. 17, 1948	24.80	32,500
	Mar. 27, 1948	32.43	48,900
	Apr. 9, 1948	30.14	43,700
	Apr. 14, 1948	47.0	86,300

Peak stages and discharge of Licking River at Catawba, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 27, 1949	25.49	33,900	1955	Feb. 7, 1955	24.72	32,300
	Feb. 16, 1949	32.27	48,700		Feb. 27, 1955	26.49	36,000
					Mar. 6, 1955	27.85	38,800
1950	Dec. 13, 1949	26.17	35,200		Mar. 16, 1955	26.63	36,300
	Jan. 7, 1950	39.52	66,400		Mar. 22, 1955	27.33	37,900
	Jan. 11, 1950	28.44	40,100				
	Jan. 16, 1950	28.54	40,300	1956	Feb. 2, 1956	28.63	40,500
	Feb. 2, 1950	33.84	52,300		Feb. 18, 1956	31.53	46,900
	Feb. 9, 1950	27.05	37,100		Feb. 25, 1956	27.76	38,600
	June 21, 1950	35.63	55,500		Mar. 9, 1956	28.33	39,800
	Sept.23, 1950	25.06	33,000		Mar. 16, 1956	25.03	33,000
1951	Jan. 4, 1951	31.44	46,700	1957	Feb. 10, 1957	29.39	42,200
	Jan. 15, 1951	34.11	52,900		Apr. 4, 1957	32.73	49,700
	Feb. 14, 1951	30.82	45,300		July 5, 1957	24.84	32,600
	Mar. 18, 1951	24.94	32,800				
				1958	Nov. 19, 1957	30.16	43,900
1952	Dec. 21, 1951	25.35	33,600		May 7, 1958	31.89	47,700
	Jan. 5, 1952	28.70	40,600				
	Mar. 11, 1952	26.95	36,900	1959	Jan. 22, 1959	34.92	54,900
	Mar. 23, 1952	35.11	55,300				
				1960	July 3, 1960	28.50	40,200
1953	Mar. 4, 1953	32.48	49,100				
				1961	Mar. 6, 1961	33.28	50,300
1954	Apr. 17, 1954	14.34	12,400		May 9, 1961	43.03	73,700

2540. Licking River at Butler, Ky.

Location.--Lat 38°47'22", long 84°22'05", at bridge on U.S. Highway 27 at Butler, Pendleton County, 0.3 mile downstream from Lick Creek and 4.4 miles upstream from Grassy Creek.

Drainage area.--3,385 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1939; recording thereafter. Datum of gage is 477.00 ft above mean sea level, datum of 1929. Auxiliary nonrecording gage 5.0 miles upstream.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Peak stage usually occurs at different time than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	July 16, 1938	34.4	47,500	1941	July 20, 1941	22.42	26,500
1939	Apr. 17, 1939	40.4	64,100	1942	Mar. 15, 1942	28.85	35,300
1940	Mar. 3, 1940	37.8	59,800				

2550. Ohio River at Cincinnati, Ohio

Location.--Lat 39°05'40", long 84°30'40", on right bank at downstream side of Covington-Cincinnati suspension bridge, Cincinnati, Hamilton County, 0.2 mile downstream from Licking River, 1.9 miles upstream from Mill Creek, and at mile 470.5.

Drainage area.--76,580 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 1, 1935; recording thereafter. Gage heights given herein are referred to various gages at different sites and datums but all of the gages used read approximately the same at high water. Datum of present gage is 429.61 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--Flood stage is 52 ft, from reports of U.S. Weather Bureau.

Historical data.--Flood of January 1937 is the greatest known flood.

Remarks.--Records listed herein were computed from reports of the U.S. Weather Bureau, Mississippi River Commission, and the Geological Survey. Values of discharge prior to 1936 were computed from a mean stage-discharge relation based on all high-water discharge measurements made since 1908. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1773	-	76	821,000	1896	Apr. 4, 1896	47.7	370,000
				1897	Feb. 26, 1897	61.2	544,000
1792	-	63	594,000	1898	Mar. 29, 1898	61.4	547,000
1793	-	57	498,000	1899	Mar. 8, 1899	57.4	495,000
				1900	Feb. 17, 1900	37.3	258,000
1832	Feb. 18, 1832	64.3	616,000				
				1901	Apr. 27, 1901	59.7	524,000
1848	Dec. 17, 1847	63.6	604,000	1902	Mar. 5, 1902	50.9	410,000
				1903	Mar. 5, 1903	53.2	439,000
1858	June 16, 1858	43.8	326,000	1904	Mar. 9, 1904	45.9	349,000
1859	Feb. 22, 1859	55.4	472,000	1905	Mar. 13, 1905	48.3	378,000
1860	Apr. 17, 1860	49.2	388,000				
				1906	Apr. 2, 1906	50.4	404,000
1861	Apr. 20, 1861	49.4	391,000	1907	Jan. 21, 1907	65.2	631,000
1862	Jan. 24, 1862	57.3	497,000	1908	Apr. 4, 1908	55.9	474,000
1863	Mar. 12, 1863	42.8	316,000	1909	Feb. 28, 1909	54.6	457,000
1864	May 20, 1864	39.8	283,000	1910	Mar. 7, 1910	51.8	421,000
1865	Mar. 7, 1865	56.3	484,000				
				1911	Feb. 3, 1911	49.11	387,000
1866	Sept.26, 1866	42.5	312,000	1912	Mar. 27, 1912	53.4	441,000
1867	Mar. 14, 1867	55.8	477,000	1913	Apr. 1, 1913	69.9	662,000
1868	Mar. 30, 1868	48.2	376,000	1914	Apr. 4, 1914	47.2	364,000
1869	Apr. 2, 1869	48.8	384,000	1915	Feb. 7, 1915	55.9	482,000
1870	Jan. 19, 1870	55.3	471,000				
				1916	Apr. 1, 1916	53.5	445,000
1871	May 13, 1871	40.5	290,000	1917	Mar. 17, 1917	56.1	484,000
1872	Apr. 13, 1872	41.8	304,000	1918	Feb. 12, 1918	61.8	a500,000
1873	Feb. 21, 1873	41.5	300,000	1919	Jan. 6, 1919	52.0	424,000
1874	Jan. 13, 1874	47.9	373,000	1920	Mar. 22, 1920	54.6	462,000
1875	Aug. 6, 1875	55.4	472,000				
				1921	Mar. 11, 1921	41.5	305,000
1876	Jan. 29, 1876	51.8	426,000	1922	Dec. 27, 1921	56.1	485,000
1877	Jan. 20, 1877	53.8	452,000	1923	Feb. 5, 1923	47.6	369,000
1878	Mar. 17, 1878	33.6	221,000	1924	Jan. 6, 1924	55.8	480,000
1879	Dec. 15, 1878	41.2	297,000	1925	Feb. 18, 1925	42.3	309,000
1880	Feb. 17, 1880	53.2	444,000				
				1926	Jan. 25, 1926	46.3	354,000
1881	Feb. 16, 1881	50.8	414,000	1927	Jan. 27, 1927	59.1	530,000
1882	Feb. 21, 1882	58.6	508,000	1928	Dec. 20, 1927	50.4	403,000
1883	Feb. 15, 1883	66.3	650,000	1929	Mar. 4, 1929	52.7	434,000
1884	Feb. 14, 1884	71.1	734,000	1930	Nov. 22, 1929	44.5	334,000
1885	Jan. 20, 1885	46.0	350,000				
				1931	Apr. 8, 1931	44.1	329,000
1886	Apr. 9, 1886	55.8	477,000	1932	Feb. 7, 1932	50.4	403,000
1887	Feb. 6, 1887	56.3	488,000	1933	Mar. 21, 1933	63.6	604,000
1888	Apr. 1, 1888	39.9	284,000	1934	Mar. 9, 1934	46.6	357,000
1889	Feb. 22, 1889	38.3	268,000	1935	Mar. 16, 1935	52.4	430,000
1890	Mar. 26, 1890	59.2	522,000				
				1936	Mar. 28, 1936	60.6	554,000
1891	Feb. 25, 1891	57.4	498,000	1937	Jan. 26, 1937	80.0	894,000
1892	Apr. 25, 1892	43.8	326,000	1938	Apr. 13, 1938	44.2	334,000
1893	Feb. 20, 1893	54.9	460,000	1939	Feb. 7, 1939	58.28	538,000
1894	Feb. 15, 1894	35.6	241,000	1940	Apr. 24, 1940	60.04	568,000
1895	Jan. 14, 1895	48.4	379,000				

a About; stage-discharge relation affected by ice.

Peak stages and discharges of Ohio River at Cincinnati, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 9, 1941	35.62	242,000	1952	Feb. 1, 1952	56.92	510,000
1942	Mar. 20, 1942	45.51	364,000	1953	Mar. 6, 1953	35.95	245,000
1943	Jan. 4, 1943	60.8	594,000	1954	Mar. 7, 1954	34.01	230,000
1944	Apr. 15, 1944	48.6	400,000	1955	Mar. 9, 1955	61.04	592,000
1945	Mar. 7, 1945	69.2	708,000				
				1956	Mar. 17, 1956	53.18	458,000
1946	Jan. 11, 1946	47.6	391,000	1957	Apr. 10, 1957	52.30	441,000
1947	Jan. 24, 1947	41.0	306,000	1958	May 11, 1958	57.98	544,000
1948	Apr. 17, 1948	64.8	637,000	1959	Jan. 26, 1959	55.52	493,000
1949	Jan. 30, 1949	52.63	449,000	1960	Apr. 5, 1960	45.86	370,000
1950	Feb. 4, 1950	58.57	547,000				
				1961	May 9, 1961	55.34	452,000
1951	Dec. 10, 1950	55.98	506,000				

MILL CREEK BASIN

2555. Mill Creek at Reading, Ohio

Location.--Lat 39°13'15", long 84°26'50", at Koehler Street Bridge at Reading, Hamilton County, 1 mile upstream from West Fork Mill Creek and 13 miles upstream from mouth.

Drainage area.--73.1 sq mi.

Gage.--Recording prior to Oct. 1, 1951; nonrecording Oct. 1, 1951, to Apr. 25, 1954; recording thereafter. Datum of gage is 527.00 ft above mean sea level, Ohio River datum. At same site at datum 4.00 ft higher prior to Oct. 1, 1951.

Stage-discharge relation.--Defined by current-meter measurements below 4,130 cfs and extended on basis of slope-area measurement at 5,640 cfs.

Bankfull stage.--18 ft.

Remarks.--Base for partial-duration series, 1,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 30, 1939	10.7	2,000	1947	May 25, 1947	13.65	3,680
	Mar. 11, 1939	10.6	1,940		June 2, 1947	11.92	2,530
	Apr. 6, 1939	10.2	1,730				
	Apr. 15, 1939	12.4	3,180	1948	Feb. 13, 1948	13.45	3,520
					Mar. 16, 1948	10.36	1,760
1940	Mar. 3, 1940	10.50	1,880		Mar. 19, 1948	10.26	1,720
	Apr. 11, 1940	10.26	1,780		Mar. 27, 1948	11.92	2,530
	Apr. 20, 1940	15.04	5,660		Apr. 12, 1948	11.91	2,530
1941	July 7, 1941	8.63	730	1949	Dec. 15, 1948	11.40	2,150
					Jan. 4, 1949	13.21	3,260
1942	Apr. 9, 1942	11.7	2,240		Jan. 24, 1949	12.77	2,970
	June 20, 1942	10.8	2,060		Jan. 27, 1949	11.94	2,400
					Feb. 15, 1949	11.72	2,300
1943	Nov. 18, 1942	10.32	1,780		Mar. 27, 1949	10.98	1,960
	Dec. 30, 1942	10.83	1,760				
	Mar. 16, 1943	10.87	1,820	1950	Jan. 6, 1950	12.07	2,520
	Mar. 19, 1943	14.26	4,200		Jan. 16, 1950	10.69	1,830
					Jan. 26, 1950	11.73	2,300
1944	Mar. 6, 1944	11.50	2,080		Feb. 9, 1950	10.82	1,870
	Apr. 11, 1944	11.12	1,870		Feb. 14, 1950	11.05	1,960
	May 26, 1944	11.24	1,920		Apr. 4, 1950	10.37	1,710
1945	Feb. 26, 1945	12.7	2,970	1951	Nov. 20, 1950	10.95	1,970
	Mar. 3, 1945	12.45	2,760		Dec. 3, 1950	12.35	2,700
	Mar. 6, 1945	16.00	5,780		Jan. 3, 1951	10.8	1,890
	Mar. 20, 1945	13.9	3,920		Jan. 14, 1951	12.0	2,460
	Apr. 24, 1945	12.08	2,550		Feb. 21, 1951	11.1	2,010
	June 17, 1945	12.28	2,690				
				1952	Jan. 26, 1952	10.5	2,010
1946	Feb. 13, 1946	11.59	2,200		Mar. 11, 1952	12.4	3,310
	May 16, 1946	11.06	2,110		Mar. 22, 1952	11.3	2,500
					Apr. 13, 1952	12.0	2,990
1947	Jan. 2, 1947	10.74	1,910				
	Jan. 30, 1947	10.88	2,010	1953	May 22, 1953	13.9	4,530
	Apr. 21, 1947	11.01	2,060				
	May 21, 1947	11.25	2,160	1954	July 21, 1954	11.36	2,040

Peak stages and discharges of Mill Creek at Reading, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 22, 1955	11.73	1,740	1958	July 22, 1958	15.00	3,330
	Feb. 27, 1955	12.21	1,940		July 31, 1958	16.08	3,940
	Mar. 1, 1955	11.73	1,740				
	Mar. 21, 1955	12.96	2,330	1959	Jan. 21, 1959	19.67	5,640
1956	Oct. 6, 1955	12.75	2,230	1960	Jan. 15, 1960	12.52	2,130
	Apr. 2, 1956	14.95	3,330		June 23, 1960	11.48	1,710
1957	Apr. 4, 1957	15.40	3,530	1961	Feb. 25, 1961	12.44	2,100
	Apr. 22, 1957	12.21	2,000		Mar. 5, 1961	12.03	2,030
	May 22, 1957	14.17	2,930		May 7, 1961	16.13	3,820
	June 17, 1957	12.38	2,080				

2570. West Fork Mill Creek near Greenhills, Ohio

Location.--Lat 39°15'45", long 84°29'35", 1,000 ft downstream from West Fork Mill Creek Dam, 1¼ miles east of Greenhills, Hamilton County, and 6 miles upstream from mouth.

Drainage area.--29.9 sq mi.

Gage.--Recording. Datum of gage is 629.4 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,940 cfs.

Remarks.--Flow regulated by West Fork Mill Creek Reservoir since 1951. Base for partial-duration series, 1,400 cfs. Only annual peaks are shown after 1951.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 16, 1945	5.62	a1,820	1949	Jan. 4, 1949	6.97	3,160
					Jan. 24, 1949	7.06	3,270
1946	Feb. 6, 1946	5.10	1,460		Jan. 27, 1949	5.85	1,920
	Feb. 13, 1946	5.35	1,700		Feb. 15, 1949	7.10	3,270
	May 16, 1946	5.72	1,990		Mar. 27, 1949	6.32	2,390
	June 28, 1946	5.28	1,660		July 21, 1949	6.66	2,780
	Aug. 17, 1946	4.98	1,420				
				1950	Jan. 6, 1950	6.87	3,050
1947	Jan. 2, 1947	5.45	1,780		Jan. 15, 1950	6.01	2,070
	Jan. 30, 1947	5.48	1,820		Jan. 26, 1950	6.58	2,720
	Apr. 11, 1947	5.52	1,820		Feb. 9, 1950	6.03	2,120
	Apr. 20, 1947	5.42	1,740		Feb. 14, 1950	6.20	2,280
	May 25, 1947	8.54	5,000		Apr. 4, 1950	5.91	1,950
	June 2, 1947	6.18	2,440		Sept.20, 1950	-	b1,700
1948	Feb. 13, 1948	7.21	3,370	1951	Nov. 20, 1950	6.47	2,560
	Feb. 27, 1948	5.44	1,740		Dec. 3, 1950	7.23	3,390
	Mar. 16, 1948	5.19	1,460		Jan. 3, 1951	5.85	1,920
	Mar. 19, 1948	5.20	1,460		Jan. 14, 1951	7.26	3,510
	Mar. 27, 1948	6.34	2,480				
	Apr. 12, 1948	6.26	2,380	1952	Mar. 10, 1952	6.00	2,070
				1953	May 22, 1953	4.92	1,040
1949	Dec. 15, 1948	5.99	2,070				

a Peak for period June 1 to Sept. 30.
b Estimated.

2575. West Fork Mill Creek at Woodlawn, Ohio

Location.--Lat 39°15'15", long 84°28'15", in NE¼ sec.10, R.1, T.3, on left bank at upstream side of Riddle Road Bridge in Woodlawn, Hamilton County, 0.5 mile upstream from small tributary, 1.9 miles downstream from West Fork Mill Creek Dam, and 4.0 miles upstream from mouth.

Drainage area.--31.9 sq mi.

Gage.--Recording. Datum of gage is 570.00 ft above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by West Fork Mill Creek Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 22, 1953	5.66	1,300	1958	Nov. 19, 1957	-	a1,300
1954	Mar. 12, 1954	4.87	680	1959	Jan. 23, 1959	5.56	1,290
1955	Mar. 22, 1955	6.08	1,410	1960	Feb. 11, 1960	5.53	1,280
1956	Apr. 4, 1956	6.82	2,000	1961	May 13, 1961	5.79	1,390
1957	Apr. 6, 1957	6.12	1,540				

a About.

2580. West Fork Mill Creek at Lockland, Ohio

Location.--Lat 39°13'35", long 84°27'20", at Lock Street Bridge in Lockland, Hamilton County, 1.2 miles upstream from mouth.

Drainage area.--35.6 sq mi. At site used 1938-42, 36.4 sq mi.

Gage.--Recording. At site 0.8 mile downstream at datum 10 ft lower prior to 1943. Datum of gage is 539.00 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements below 3,530 cfs, 1938-42, and below 4,100 cfs, 1942-57.

Bankfull stage.--13 ft.

Remarks.--Flow regulated by West Fork Mill Creek Reservoir (11,380 acre-ft, 29.5 sq mi) beginning December 1952. Base for partial-duration series, 1,600 cfs. Only annual peaks are shown prior to 1943 and after 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 15, 1939	10.6	3,690	1947	Apr. 21, 1947	10.70	1,820
1940	Apr. 19, 1940	13.73	5,900		May 25, 1947	16.93	6,310
					June 2, 1947	12.41	2,810
1941	July 8, 1941	3.83	400				
1942	June 19, 1942	9.2	2,840	1948	Feb. 13, 1948	14.68	4,460
					Feb. 28, 1948	10.30	1,660
1943	Nov. 18, 1942	11.05	2,160		Mar. 27, 1948	12.68	2,950
	Dec. 30, 1942	9.00	1,620		Apr. 12, 1948	12.53	2,810
	Mar. 16, 1943	11.79	2,580				
	Mar. 19, 1943	15.22	4,860	1949	Dec. 15, 1948	11.67	2,320
	May 16, 1943	10.00	1,620		Jan. 4, 1949	14.14	3,980
					Jan. 24, 1949	14.28	4,140
1944	Mar. 6, 1944	11.05	2,100		Jan. 27, 1949	11.44	2,160
	Apr. 11, 1944	10.90	2,050		Feb. 15, 1949	13.8	3,740
					Mar. 10, 1949	10.21	1,620
1945	Feb. 26, 1945	12.92	3,240		Mar. 26, 1949	12.00	2,500
	Mar. 6, 1945	15.90	5,420		July 21, 1949	11.81	2,380
	Mar. 19, 1945	15.09	4,700				
	Apr. 24, 1945	12.55	3,060	1950	Jan. 6, 1950	13.10	3,230
	June 16, 1945	12.04	2,760		Jan. 15, 1950	11.10	2,010
					Jan. 26, 1950	12.69	2,950
1946	Feb. 13, 1946	11.15	2,180		Feb. 9, 1950	11.13	2,010
	May 15, 1946	10.90	2,010		Feb. 14, 1950	11.60	2,260
	June 28, 1946	10.75	1,960		Apr. 4, 1950	10.75	1,860
1947	Jan. 2, 1947	10.95	1,960	1951	Nov. 20, 1950	11.66	2,320
	Jan. 30, 1947	11.05	1,960		Dec. 3, 1950	13.52	3,510
	Apr. 11, 1947	11.30	2,110		Jan. 3, 1951	10.67	1,820

Peak stages and discharges of West Fork Mill Creek at Lockland, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 14, 1951	13.50	3,510	1955	Mar. 22, 1955	9.72	1,280
1952	Mar. 11, 1952	10.28	1,660	1956	Apr. 4, 1956	10.87	1,840
1953	May 22, 1953	-	a1,200	1957	Apr. 6, 1957	10.02	1,420
1954	Mar. 12, 1954	7.54	a667	1959	Jan. 21, 1959	10.63	1,700

a Estimated.

2590. Mill Creek at Carthage, Ohio

Location.--Lat 39°12'05", long 84°28'10", at Anthony Wayne Avenue Bridge at Carthage, Hamilton County, 1 mile downstream from West Fork Mill Creek, 7½ miles upstream from West Fork, and 11 miles upstream from mouth.

Drainage area.--116 sq mi.

Gage.--Recording. Datum of gage is 512.00 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs, and extended on basis of slope-area measurement at 8,900 cfs.

Bankfull stage.--14 ft.

Remarks.--Flow regulated by West Fork Mill Creek Reservoir (11,380 acre-ft, 29.5 sq mi) beginning December 1952. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 25, 1947	14.21	8,300	1955	Mar. 21, 1955	9.18	2,970
1948	Feb. 13, 1948	13.53	7,540				
1949	Jan. 4, 1949	13.11	7,040	1956	Apr. 2, 1956	11.21	3,930
1950	Jan. 6, 1950	12.13	6,040	1957	Apr. 4, 1957	10.97	4,200
				1958	July 31, 1958	12.24	4,860
1951	Dec. 3, 1950	12.49	6,440	1959	Jan. 21, 1959	16.17	8,900
1952	Mar. 11, 1952	10.43	4,510	1960	July 3, 1960	8.30	2,750
1953	May 22, 1953	11.10	5,100				
1954	July 21, 1954	6.44	1,850	1961	May 7, 1961	11.80	4,350

2595. Mill Creek at Mitchell Avenue, Cincinnati, Ohio

Location.--Lat 39°09'55", long 84°30'40", at Mitchell Avenue Bridge in Cincinnati, 2.6 miles upstream from West Fork, 6 miles downstream from West Fork Mill Creek, and 6.3 miles upstream from mouth.

Drainage area.--136 sq mi.

Gage.--Recording. Datum of gage is 428.76 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Records for 1941-43 computed by Corps of Engineers. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Sept. 2, 1941	54.61	694	1946	Feb. 13, 1946	60.30	4,660
1942	Apr. 9, 1942	62.30	6,840	1947	May 25, 1947	64.38	8,300
1943	Mar. 19, 1943	66.12	10,300	1948	Feb. 13, 1948	63.82	7,700
1944	Apr. 11, 1944	60.04	4,430				
1945	Mar. 6, 1945	a69.12	11,900				

a Backwater from Ohio River.

2615. Miami River at Sidney, Ohio

Location.--Lat 40°17'14", long 84°08'57", 100 ft upstream from North Street Bridge in Sidney, Shelby County, half a mile downstream from Tawawa Creek.

Drainage area.--545 sq mi. Channel slope, main stream, 2.52 ft per mile; channel slope, tributary, 17 ft per mile; longest watercourse, 44.4 miles; mean elevation of land surface, 1,036 ft above mean sea level; average land slope, 126 ft per mile; area of water surface, 8.96 sq mi.

Gage.--Nonrecording prior to Aug. 20, 1925; recording thereafter. Datum of gage is 924.70 ft above mean sea level, adjustment of 1912. Prior to Sept. 18, 1919, at datum 1.76 ft higher.

Stage-discharge relation.--Defined by current-meter measurements below 9,200 cfs.

Bankfull stage.--15 ft.

Remarks.--Some regulation by Indian Lake (45,900 acre-ft, 109 sq mi). Base for partial-duration series, 3,400 cfs. Base data furnished by Miami Conservancy District. Only annual peaks are shown prior to 1926.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a19.6	b44,000	1935	May 3, 1935	8.00	5,200
1914	Apr. 8, 1914	8.8	5,530				
1915	Feb. 6, 1915	6.4	4,770	1936	Feb. 27, 1936	9.10	7,110
					Mar. 24, 1936	7.32	4,260
1916	Jan. 31, 1916	10.4	12,200				
1917	Mar. 14, 1917	6.6	4,940	1937	Jan. 15, 1937	12.38	12,400
1918	Feb. 12, 1918	6.7	5,100		Jan. 18, 1937	9.20	6,600
1919	Mar. 17, 1919	7.6	6,730		Jan. 21, 1937	11.50	10,500
1920	Apr. 21, 1920	12.8	15,500		Jan. 25, 1937	10.11	7,980
					Apr. 25, 1937	7.52	4,480
1921	Mar. 28, 1921	10.5	9,300				
1922	Apr. 17, 1922	10.5	9,300	1938	Dec. 17, 1937	7.41	4,370
1923	May 13, 1923	8.40	5,080		Feb. 19, 1938	7.21	4,150
1924	Mar. 29, 1924	12.62	14,900		Mar. 16, 1938	8.73	5,920
1925	Mar. 14, 1925	6.10	2,430		Apr. 8, 1938	9.50	7,040
1926	Apr. 8, 1926	10.30	8,840	1939	Feb. 28, 1939	7.42	4,370
	Sept. 5, 1926	11.10	10,800		Mar. 12, 1939	8.47	5,660
	Sept. 9, 1926	8.23	4,770		Apr. 16, 1939	7.30	4,260
	Sept. 23, 1926	8.38	5,080		June 19, 1939	7.87	4,930
1927	Oct. 5, 1926	10.34	8,840	1940	Mar. 3, 1940	8.78	6,050
	Oct. 29, 1926	8.43	5,080		Apr. 18, 1940	8.14	5,170
	Jan. 22, 1927	9.22	6,500		Apr. 20, 1940	9.32	6,740
	Jan. 30, 1927	7.36	3,720				
	Mar. 20, 1927	14.40	20,700	1941	June 15, 1941	5.30	2,300
	May 19, 1927	11.20	11,000				
	June 4, 1927	8.45	5,080	1942	Feb. 7, 1942	6.59	3,490
					Feb. 17, 1942	6.75	3,710
1928	Dec. 1, 1927	10.48	9,300		Apr. 10, 1942	9.42	5,450
	Dec. 14, 1927	10.70	9,780				
	Mar. 30, 1928	7.07	3,450	1943	Mar. 16, 1943	9.80	7,500
	June 6, 1928	7.36	3,760		Mar. 19, 1943	12.00	11,600
					May 19, 1943	6.60	3,490
1929	Jan. 19, 1929	11.85	12,600		Aug. 4, 1943	10.57	8,840
	Jan. 25, 1929	8.80	5,760				
	Feb. 26, 1929	13.60	18,000	1944	Mar. 6, 1944	7.27	4,260
	Apr. 10, 1929	7.23	3,550		Apr. 11, 1944	10.40	8,490
	May 14, 1929	7.31	3,650				
				1945	Feb. 22, 1945	6.74	3,600
1930	Dec. 13, 1929	7.98	4,480		Mar. 3, 1945	6.60	3,490
	Dec. 18, 1929	7.81	4,220		Mar. 7, 1945	8.80	6,050
	Jan. 2, 1930	8.20	4,770		Mar. 20, 1945	7.97	5,050
	Jan. 10, 1930	12.06	13,300		Apr. 2, 1945	7.28	4,260
	Jan. 13, 1930	12.20	13,800		May 18, 1945	8.97	6,320
	Feb. 26, 1930	11.72	12,400		June 18, 1945	10.72	9,020
1931	Apr. 4, 1931	5.84	2,280	1946	Feb. 14, 1946	7.00	3,550
1932	Jan. 17, 1932	7.54	3,870	1947	Jan. 20, 1947	6.92	3,440
					Jan. 30, 1947	8.14	4,960
1933	Dec. 24, 1932	7.55	3,980		Apr. 30, 1947	7.45	4,030
	Dec. 31, 1932	10.35	9,070		June 2, 1947	10.45	8,490
	Mar. 19, 1933	7.45	3,760				
	May 11, 1933	8.42	5,080	1948	Jan. 1, 1948	8.50	5,520
	May 13, 1933	13.48	17,700		Feb. 14, 1948	9.45	6,860
					Mar. 24, 1948	8.79	5,960
1934	Mar. 4, 1934	5.88	2,360		Mar. 27, 1948	8.20	5,100

a Present datum.
b Computed by Miami Conservancy District.

Peak stages and discharges of Miami River at Sidney, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 6, 1948	-	-	1954	June 16, 1954	9.59	6,510
	Apr. 13, 1948	10.64	8,840		Aug. 5, 1954	9.63	6,510
	May 14, 1948	6.98	3,580				
				1955	Feb. 21, 1955	7.98	4,470
1949	Jan. 5, 1949	10.26	6,510				
	Jan. 19, 1949	7.43	3,770	1956	Nov. 16, 1955	8.60	5,200
	Jan. 28, 1949	8.73	5,330		Feb. 25, 1956	9.70	6,650
	Feb. 15, 1949	8.46	5,070		Mar. 8, 1956	7.19	3,560
	Mar. 27, 1949	8.90	5,590		May 29, 1956	7.40	3,770
1950	Jan. 4, 1950	9.10	5,850	1957	Apr. 5, 1957	10.66	8,050
	Jan. 10, 1950	9.75	6,790		Apr. 8, 1957	8.66	5,330
	Jan. 16, 1950	12.84	11,600		Apr. 18, 1957	7.77	4,230
	Jan. 26, 1950	9.92	6,930		June 29, 1957	11.50	9,210
	Feb. 14, 1950	11.57	9,360		July 4, 1957	9.49	6,370
	Apr. 4, 1950	8.15	4,710				
				1958	Dec. 20, 1957	7.88	4,150
1951	Nov. 20, 1950	8.39	4,950		May 5, 1958	7.80	4,050
	Dec. 3, 1950	11.04	8,470		June 10, 1958	12.18	9,700
	Dec. 7, 1950	7.98	4,470		June 13, 1958	11.16	8,260
	Jan. 4, 1951	8.60	5,200		June 26, 1958	7.16	3,460
	Feb. 13, 1951	8.25	4,710		July 7, 1958	7.60	3,850
	Feb. 21, 1951	10.73	8,050				
				1959	Jan. 21, 1959	15.91	16,800
1952	Jan. 18, 1952	7.75	4,230		Feb. 10, 1959	10.24	6,970
	Jan. 27, 1952	12.43	10,800		Apr. 28, 1959	7.58	4,230
	Feb. 4, 1952	7.06	3,460				
	Mar. 11, 1952	9.12	5,850	1960	Feb. 10, 1960	6.76	3,070
	Apr. 13, 1952	7.23	3,560				
				1961	Apr. 13, 1961	7.13	3,580
1953	May 24, 1953	7.10	3,460		Apr. 25, 1961	9.47	6,010

2620. Loramie Creek at Lockington, Ohio

Location.--Lat 40°12'35", long 84°14'32", at highway bridge, 1,300 ft downstream from Lockington Dam, half a mile northwest of Lockington, Shelby County, and 1½ miles upstream from mouth.

Drainage area.--261 sq mi.

Gage.--Nonrecording prior to Aug. 18, 1926; recording thereafter. Datum of gage is 800.03 ft above mean sea level, adjustment of 1912. At datum 75.96 ft higher prior to July 3, 1924, and 74.96 ft higher July 3, 1924, to Sept. 30, 1926.

Stage-discharge relation.--Defined by current-meter measurements below 6,580 cfs.

Bankfull stage.--85 ft.

Remarks.--Slight regulation by State reservoir at Fort Loramie (about 13,000 acre-ft, 70 sq mi). Flow regulated by Lockington retarding basin (70,000 acre-ft, 261 sq mi) since 1921. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a91.6	b25,600	1927	Mar. 21, 1927	83.9	5,870
				1928	Dec. 14, 1927	82.7	4,170
1916	May 7, 1916	10.4	10,400	1929	Feb. 26, 1929	83.6	5,420
1917	Mar. 13, 1917	7.7	6,110	1930	Jan. 14, 1930	83.19	4,710
1918	Feb. 12, 1918	8.9	c7,000				
1919	Mar. 16, 1919	8.3	7,230	1931	Apr. 3, 1931	80.23	1,660
1920	Apr. 20, 1920	8.9	8,190	1932	Jan. 15, 1932	82.05	3,190
				1933	May 13, 1933	83.94	5,810
1921	Mar. 27, 1921	7.9	6,590	1934	Mar. 27, 1934	81.20	2,430
1922	Apr. 15, 1922	6.80	4,900	1935	May 3, 1935	83.26	4,130
1923	May 15, 1923	6.0	3,750				
1924	Mar. 29, 1924	7.50	5,970	1936	Feb. 27, 1936	83.30	4,130
1925	Mar. 14, 1925	5.60	2,190	1937	Jan. 15, 1937	84.38	5,290
				1938	Apr. 7, 1938	83.30	4,120
1926	Sept. 5, 1926	8.4	5,280	1939	June 19, 1939	82.80	3,550

a Present datum.
b Computed by Miami Conservancy District for site above Turtle Creek, drainage area 208 sq mi.
c Estimated; backwater from ice.

Peak stages and discharges of Loramie Creek at Lockington, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	82.58	3,340	1951	Feb. 21, 1951	83.68	4,820
				1952	Jan. 27, 1952	83.83	4,940
1941	June 15, 1941	80.76	1,800	1953	May 17, 1953	-	3,200
1942	Apr. 10, 1942	82.8	3,550	1954	Mar. 30, 1954	81.45	2,420
1943	Mar. 20, 1943	84.0	4,960	1955	Feb. 21, 1955	82.24	3,180
1944	Apr. 11, 1944	83.94	4,840				
1945	June 18, 1945	83.92	4,840	1956	Nov. 16, 1955	83.60	4,700
				1957	June 29, 1957	83.76	4,940
1946	Feb. 27, 1946	81.66	2,680	1958	June 10, 1958	85.00	6,540
1947	June 2, 1947	83.25	4,160	1959	Jan. 22, 1959	84.43	5,750
1948	Mar. 24, 1948	83.30	4,260	1960	Jan. 15, 1960	81.00	2,360
1949	Jan. 5, 1949	83.51	4,580				
1950	Feb. 15, 1950	84.14	5,300	1961	Apr. 26, 1961	82.54	3,750

2630. Miami River at Taylorsville, Ohio

Location.--Lat 39°52'22", long 84°09'51", 600 ft downstream from Taylorsville Dam, three-quarters of a mile north of Taylorsville, Montgomery County, and 9½ miles upstream from Stillwater River.

Drainage area.--1,155 sq mi. At site used 1914-17, 1,150 sq mi.

Gage.--Nonrecording prior to Nov. 12, 1925; recording thereafter. At site 1¾ miles upstream at different datum prior to October 1921. At site 600 ft upstream at outlet works of Taylorsville Dam at present datum Jan. 1, 1922, to Nov. 11, 1925. Datum of gage is 700.08 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 24,200 cfs.

Bankfull stage.--72 ft.

Remarks.--Flow regulated by Lockington (70,000 acre-ft, 261 sq mi) and Taylorsville (186,000 acre-ft, 1,155 sq mi) retarding basins since 1921. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a25.4	b127,000	1940	Apr. 21, 1940	70.78	14,600
1914	Apr. 8, 1914	11.9	11,400				
1915	Feb. 2, 1915	11.9	11,400	1941	June 16, 1941	66.7	4,980
				1942	Apr. 11, 1942	70.4	12,800
1916	Jan. 2, 1916	15.4	26,400	1943	Mar. 20, 1943	72.7	21,900
1917	Mar. 14, 1917	13.1	14,700	1944	Apr. 12, 1944	71.93	17,700
				1945	June 19, 1945	71.83	17,200
1922	Apr. 15, 1922	71.6	17,300				
1923	May 16, 1923	69.6	10,600	1946	Feb. 14, 1946	69.09	8,410
1924	June 9, 1924	72.6	21,600	1947	June 3, 1947	72.45	20,200
1925	Apr. 22, 1925	67.0	5,610	1948	Feb. 14, 1948	71.63	16,200
				1949	Jan. 6, 1949	72.24	17,200
1926	Apr. 9, 1926	70.4	13,800	1950	Jan. 16, 1950	73.05	20,300
1927	Mar. 22, 1927	72.6	21,600				
1928	Dec. 14, 1927	70.80	14,000	1951	Dec. 4, 1950	72.52	18,300
1929	Feb. 26, 1929	73.0	23,700	1952	Jan. 27, 1952	73.30	21,500
1930	Jan. 10, 1930	72.38	20,600	1953	May 22, 1953	69.51	9,210
				1954	June 17, 1954	68.55	7,520
1931	Apr. 4, 1931	66.53	4,750	1955	Feb. 22, 1955	69.38	9,000
1932	Jan. 18, 1932	69.08	9,430				
1933	May 14, 1933	73.26	25,500	1956	Feb. 26, 1956	71.28	14,000
1934	Mar. 3, 1934	-	5,500	1957	June 29, 1957	c72.98	17,200
1935	May 4, 1935	69.86	11,400	1958	June 14, 1958	73.95	21,400
				1959	Jan. 22, 1959	75.44	31,400
1936	Feb. 27, 1936	-	15,600	1960	Feb. 11, 1960	67.42	6,310
1937	Jan. 15, 1937	73.32	25,500				
1938	Apr. 9, 1938	71.50	16,600	1961	Apr. 26, 1961	72.22	16,100
1939	June 19, 1939	70.68	13,600				

a At Tadmor.
b Computed by Miami Conservancy District.
c Occurred Apr. 5, 1957.

2631. Poplar Creek near Vandalia, Ohio

Location.--Lat 39°52'15", long 84°11'15", at culvert on U.S. Highway 25, 1½ miles southeast of Vandalia, Montgomery County, and 1.3 miles upstream from mouth.

Drainage area.--3.16 sq mi. Length of main stream, 2.07 miles; average slope main stream, 83 ft per mile; average slope main stream and tributaries, 86 ft per mile; slope at gage, 60 ft per mile; length divided by average width of basin, 1.36.

Gage.--Recording. Altitude of gage is 816 ft above mean sea level (from topographic map).

Stage-discharge relation.--Prior to November 1949, defined by current-meter measurements below 115 cfs and by an indirect measurement at 620 cfs. After November 1949, defined by current-meter measurements below 130 cfs and extended on basis of indirect measurement at 1,110 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 16, 1947	3.60	570	1955	July 9, 1955	3.70	290
1948	Feb. 13, 1948	3.94	620				
1949	Jan. 4, 1949	3.00	470	1956	Nov. 16, 1955	6.07	1,110
1950	Jan. 15, 1950	4.97	700	1957	May 19, 1957	4.04	385
				1958	June 13, 1958	4.65	650
1951	Feb. 20, 1951	5.3	820	1959	Jan. 21, 1959	6.10	1,130
1952	Mar. 22, 1952	3.38	207	1960	June 17, 1960	3.75	303
1953	Mar. 3, 1953	3.23	175				
1954	May 3, 1954	2.53	54	1961	Apr. 25, 1961	3.73	297

2632. Bridge Creek near Greenville, Ohio

Location.--Lat 40°04'15", long 84°37'45", at culvert at junction of State Highways 127 and 49, 1.4 miles south of Greenville city limits, Darke County.

Drainage area.--5.49 sq mi. Length of main stream, 4.07 miles; average slope main stream, 7.9 ft per mile; average slope main stream and upper reach, 17.0 ft per mile; slope at gage, 8 ft per mile; length divided by average width of basin, 3.02.

Gage.--Crest-stage gage. Altitude of gage is 1,015 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 114 cfs and indirect measurements at 578 and 739 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	12.45	324	1955	-	10.71	114
1948	-	12.90	396				
1949	-	11.98	259	1956	-	13.56	520
1950	Jan. 26, 1950	13.92	574	1957	-	14.69	708
				1958	June 13, 1958	14.92	754
1951	-	13.27	457	1959	Jan. 21, 1959	14.23	619
1952	-	14.20	632	1960	-	-	a50
1953	-	13.82	556				
1954	-	9.98	61	1961	Apr. 25, 1961	13.52	493

a Peak stage did not reach bottom of gage, discharge less than figure shown.

2635. Greenville Creek near Greenville, Ohio

Location.--Lat 40°06'15", long 84°35'55", at highway bridge 1½ miles east of Greenville, Darke County, three-quarters of a mile upstream from Bridge Creek.

Drainage area.--141 sq mi.

Gage.--Nonrecording. Altitude of gage is 1,000 ft (from topographic map). At site 0.3 mile downstream at different datum prior to Apr. 1, 1925. At same site at datum 4 ft higher Apr. 1, 1925, to Jan. 11, 1931.

Stage-discharge relation.--Defined by current-meter measurements below 1,560 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	June 9, 1924	8.6	4,200	1928	Dec. 1, 1927	7.4	1,920
1925	Apr. 22, 1925	7.7	2,130	1929	Feb. 26, 1929	8.4	2,680
				1930	Jan. 13, 1930	8.8	3,000
1926	Nov. 14, 1925	8.1	2,440				
1927	Mar. 21, 1927	9.5	3,630	1931	Mar. 28, 1931	4.4	a490

a Peak for period Oct. 1 to Mar. 31.

2640. Greenville Creek near Bradford, Ohio

Location.--Lat 40°06'08", long 84°25'48", at bridge on State Highway 721, on line between Darke and Miami Counties, 1¾ miles south of Bradford, and 6 miles upstream from mouth.

Drainage area.--195 sq mi. Channel slope, main stream, 5.56 ft per mile; channel slope, tributary, 14.8 ft per mile; longest watercourse, 36.1 miles; mean elevation of land surface, 1,069 ft above mean sea level; average land slope, 124 ft per mile.

Gage.--Nonrecording prior to Oct. 1, 1942; recording thereafter. Datum of gage is 948.9 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 5,900 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,500 cfs. Base data furnished by Miami Conservancy District. Only annual peaks are shown prior to 1943.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	12.1	a18,200	1945	Mar. 7, 1945	5.52	1,840
					Mar. 20, 1945	5.70	2,000
1932	Jan. 18, 1932	5.10	1,780		Apr. 3, 1945	5.54	1,880
1933	May 14, 1933	9.2	9,320		June 18, 1945	7.33	3,550
1934	May 27, 1934	4.45	1,320				
1935	May 3, 1935	5.20	1,780	1946	Dec. 26, 1945	6.10	2,310
					Dec. 31, 1945	5.48	1,840
1936	Feb. 26, 1936	b7.65	2,800		Feb. 14, 1946	5.26	1,660
1937	Jan. 15, 1937	9.1	8,960				
1938	Apr. 7, 1938	7.98	5,200	1947	Jan. 31, 1947	5.82	2,110
1939	June 19, 1939	7.4	3,780		Apr. 26, 1947	5.16	1,600
1940	Apr. 21, 1940	6.5	2,680		May 2, 1947	6.06	2,350
					June 2, 1947	6.88	3,300
1941	June 12, 1941	4.00	1,030				
1942	Apr. 10, 1942	6.2	2,410	1948	Jan. 2, 1948	5.62	1,930
					Feb. 14, 1948	6.54	2,880
1943	Feb. 4, 1943	4.86	1,510		Mar. 24, 1948	5.95	2,250
	Mar. 17, 1943	6.94	3,130		Mar. 28, 1948	6.48	2,830
	Mar. 19, 1943	8.03	5,350		Apr. 7, 1948	6.30	2,610
	May 18, 1943	6.33	2,540		Apr. 14, 1948	6.56	2,880
1944	Mar. 7, 1944	6.10	2,340	1949	Nov. 20, 1948	5.28	1,630
	Apr. 8, 1944	5.27	1,700		Jan. 5, 1949	8.00	5,110
	Apr. 12, 1944	8.17	5,000		Jan. 19, 1949	6.19	2,500

a Computed by Miami Conservancy District at site with drainage area 213 sq mi.
b Result of ice jam.

Peak stages and discharges of Greenville Creek near Bradford, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 28, 1949	5.86	2,140	1953	May 23, 1953	6.58	2,940
	Feb. 16, 1949	6.13	2,440				
	Mar. 27, 1949	7.00	3,430	1954	Mar. 30, 1954	4.73	1,320
1950	Jan. 4, 1950	6.35	2,660	1955	Mar. 2, 1955	5.37	1,700
	Jan. 11, 1950	6.69	3,060		Mar. 22, 1955	5.44	1,780
	Jan. 16, 1950	7.36	3,920				
	Jan. 27, 1950	6.77	3,120	1956	Nov. 17, 1955	6.60	2,940
	Feb. 14, 1950	8.33	6,000		Feb. 26, 1956	7.62	4,320
	Mar. 28, 1950	5.31	1,630		Apr. 4, 1956	5.75	2,060
	Apr. 5, 1950	5.61	1,900				
	Sept.22, 1950	6.61	2,940	1957	Apr. 5, 1957	6.73	2,840
					June 28, 1957	8.13	5,460
1951	Nov. 21, 1950	6.43	2,780				
	Dec. 4, 1950	7.21	3,700	1958	Dec. 20, 1957	6.23	2,320
	Dec. 8, 1950	5.12	1,550		Dec. 26, 1957	5.43	1,680
	Jan. 4, 1951	5.51	1,850		June 11, 1958	7.79	4,040
	Jan. 15, 1951	5.12	1,550		June 14, 1958	8.85	5,860
	Jan. 18, 1951	5.19	1,620		June 26, 1958	5.45	1,680
	Feb. 13, 1951	6.43	2,780		Aug. 1, 1958	5.62	1,780
	Feb. 21, 1951	7.86	4,790				
	June 29, 1951	5.59	1,930	1959	Jan. 21, 1959	8.93	5,990
					Feb. 11, 1959	6.81	3,130
1952	Dec. 8, 1951	5.82	2,110		Feb. 15, 1959	5.23	1,690
	Jan. 27, 1952	8.53	6,620				
	Feb. 4, 1952	5.55	1,890	1960	Feb. 11, 1960	4.93	1,480
	Mar. 12, 1952	6.32	2,610				
				1961	Apr. 23, 1961	5.22	1,690
1953	Mar. 4, 1953	5.09	1,550		Apr. 26, 1961	7.14	3,490

2645. Stillwater River at Covington, Ohio

Location.--Lat 40°06'52", long 84°21'27", 100 ft below Bridge Street Bridge in Covington, Miami County, and half a mile downstream from Greenville Creek.

Drainage area.--438 sq mi.

Gage.--Recording. Datum of gage is 870.00 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 9,500 cfs.

Remarks.--Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	-	a51,400	1933	Mar. 20, 1933	9.08	6,640
					Mar. 27, 1933	7.20	3,340
1931	Apr. 3, 1931	6.44	2,280		Apr. 18, 1933	7.38	3,600
					May 11, 1933	12.21	16,100
1932	Dec. 11, 1931	8.00	4,500		May 13, 1933	13.74	21,700
	Jan. 15, 1932	7.90	4,340		Sept.28, 1933	9.14	6,640
	Jan. 18, 1932	8.14	4,660				
	Jan. 22, 1932	7.30	3,460	1934	Mar. 3, 1934	c7.30	3,100
					Mar. 27, 1934	7.64	3,880
1933	Dec. 25, 1932	8.85	5,980				
	Jan. 1, 1933	-	b8,000	1935	May 3, 1935	9.62	7,880
	Jan. 22, 1933	7.79	4,180		May 7, 1935	7.31	3,460

a Computed by Miami Conservancy District for site at Sugar Grove (drainage area, 448 sq mi).
b Estimated.
c Affected by backwater from ice.

2650. Stillwater River at Pleasant Hill, Ohio

Location.--Lat 40°03'28", long 84°21'22", at highway bridge three-quarters of a mile northwest of Pleasant Hill, Miami County, and 2 miles downstream from Painter Creek.

Drainage area.--502 sq mi. Channel slope, main stream, 5.11 ft per mile; channel slope, tributary, 12 ft per mile; longest watercourse, 46.5 miles; mean elevation of land surface, 1,032 ft above mean sea level; average land slope, 97 ft per mile.

Gage.--Nonrecording prior to Dec. 23, 1934; recording thereafter. Datum of gage is 846.73 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 14,800 cfs and by indirect measurements at 18,100 and 19,200 cfs.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 4,000 cfs. Base data furnished by Miami Conservancy District. Only annual peaks are shown prior to 1934.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a17.5	b51,400	1942	Feb. 7, 1942	10.46	5,960
					Feb. 17, 1942	9.70	4,910
1917	Mar. 14, 1917	10.7	7,190		Mar. 9, 1942	9.10	4,320
1918	Feb. 13, 1918	10.8	7,310		Apr. 10, 1942	11.33	7,210
1919	Mar. 17, 1919	12.8	10,900		July 31, 1942	9.74	4,800
1920	Apr. 20, 1920	14.7	16,900				
				1943	Mar. 17, 1943	13.04	9,890
1921	Mar. 28, 1921	13.0	11,500		Mar. 19, 1943	14.7	16,100
1922	Apr. 15, 1922	13.5	13,000		May 18, 1943	11.70	7,050
1923	May 15, 1923	9.9	6,280		June 14, 1943	9.26	4,240
1924	June 9, 1924	16.4	22,900				
1925	Apr. 22, 1925	10.5	6,950	1944	Mar. 7, 1944	11.29	6,460
					Apr. 8, 1944	9.13	4,060
1926	Nov. 13, 1925	11.7	8,680		Apr. 12, 1944	14.43	15,000
1927	Mar. 20, 1927	15.0	17,900				
1928	Dec. 14, 1927	10.8	7,310	1945	Mar. 7, 1945	10.75	5,810
1929	Feb. 26, 1929	14.1	12,200		Mar. 20, 1945	10.67	5,690
1930	Jan. 9, 1930	14.0	14,600		Apr. 3, 1945	10.05	4,920
					June 18, 1945	13.72	12,400
1931	Apr. 4, 1931	6.3	2,390				
1932	Jan. 18, 1932	9.2	5,440	1946	Dec. 26, 1945	9.30	4,240
1933	May 13, 1933	17.2	26,000		Dec. 31, 1945	9.94	4,820
					Feb. 14, 1946	9.30	4,240
1934	Mar. 27, 1934	8.7	4,660				
				1947	Jan. 31, 1947	11.00	6,300
1935	May 3, 1935	11.48	8,000		Apr. 26, 1947	9.58	4,700
	May 7, 1935	8.31	4,210		May 2, 1947	10.25	5,300
					June 2, 1947	13.38	11,300
1936	Feb. 26, 1936	13.37	12,700				
	Mar. 24, 1936	8.76	4,780	1948	Jan. 2, 1948	11.33	6,750
					Feb. 14, 1948	-	c6,800
1937	Jan. 14, 1937	17.32	26,400		Mar. 24, 1948	11.75	7,560
	Jan. 18, 1937	11.90	8,770		Mar. 27, 1948	12.30	8,460
	Jan. 21, 1937	14.01	14,600		Apr. 6, 1948	12.30	8,460
	Jan. 25, 1937	11.41	7,850		Apr. 14, 1948	12.60	9,090
	Jan. 31, 1937	8.42	4,320				
	Feb. 9, 1937	8.59	4,550	1949	Nov. 20, 1948	8.77	4,300
					Dec. 16, 1948	9.79	5,330
1938	Dec. 18, 1937	11.84	8,560		Jan. 5, 1949	16.65	16,800
	Feb. 13, 1938	8.88	4,900		Jan. 19, 1949	11.66	7,540
	Mar. 6, 1938	8.61	4,550		Jan. 28, 1949	11.24	6,940
	Mar. 16, 1938	11.62	8,170		Feb. 15, 1949	12.00	7,900
	Mar. 31, 1938	10.62	6,880		Mar. 27, 1949	13.17	9,550
	Apr. 7, 1938	13.72	13,600				
				1950	Jan. 4, 1950	13.61	10,200
1939	Jan. 30, 1939	9.76	5,310		Jan. 11, 1950	13.94	10,600
	Mar. 1, 1939	10.29	5,930		Jan. 16, 1950	15.53	13,800
	Mar. 12, 1939	11.32	7,440		Jan. 26, 1950	13.47	10,000
	June 18, 1939	13.62	13,300		Feb. 9, 1950	9.69	5,220
					Feb. 14, 1950	17.02	18,000
1940	Apr. 18, 1940	11.19	7,280		Mar. 28, 1950	9.35	4,900
	Apr. 21, 1940	12.05	8,920		Apr. 5, 1950	10.13	5,660
	May 31, 1940	10.13	5,670		Apr. 30, 1950	9.05	4,500
					Sept. 22, 1950	9.59	5,110
1941	July 4, 1941	6.07	1,870				

a Not comparable with present gage heights because of levee failure.
b Computed by Miami Conservancy District for site at Sugar Grove (drainage area, 448 sq mi).
c Estimated.

Peak stages and discharges of Stillwater River at Pleasant Hill, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 20, 1950	13.35	9,850	1956	June 18, 1956	11.65	7,420
	Dec. 3, 1950	15.09	13,000				
	Dec. 7, 1950	9.86	5,440	1957	Feb. 27, 1957	8.51	4,000
	Jan. 4, 1951	10.49	6,100		Apr. 4, 1957	13.75	10,500
	Jan. 15, 1951	8.98	4,500		Apr. 9, 1957	8.51	4,000
	Jan. 19, 1951	9.44	4,900		May 22, 1957	8.53	4,000
	Feb. 13, 1951	11.09	6,820		June 16, 1957	9.02	4,500
	Feb. 21, 1951	15.86	14,700		June 18, 1957	10.40	5,990
					June 28, 1957	15.68	14,200
1952	Dec. 9, 1951	10.26	5,880		July 5, 1957	10.46	6,100
	Dec. 31, 1951	9.04	4,500				
	Jan. 27, 1952	17.14	18,300	1958	Dec. 20, 1957	10.82	6,510
	Feb. 4, 1952	10.14	5,660		Dec. 26, 1957	9.35	5,060
	Mar. 11, 1952	12.84	8,970		May 5, 1958	9.10	4,760
	Mar. 23, 1952	9.01	4,500		June 10, 1958	16.95	18,000
	Apr. 13, 1952	9.39	4,900		June 14, 1958	16.49	16,500
	Apr. 24, 1952	8.54	4,000		June 20, 1958	8.30	4,020
					June 26, 1958	10.62	6,290
1953	Mar. 4, 1953	9.07	4,600		Aug. 2, 1958	11.80	7,660
	May 10, 1953	8.74	4,200				
	May 23, 1953	11.80	7,660	1959	Jan. 21, 1959	17.98	19,300
					Feb. 10, 1959	12.63	8,910
1954	Mar. 30, 1954	8.56	4,100		Feb. 15, 1959	9.14	5,140
					Apr. 28, 1959	8.55	4,550
1955	Jan. 6, 1955	8.47	4,000				
	Feb. 21, 1955	9.36	4,900	1960	Feb. 10, 1960	8.52	4,520
	Mar. 1, 1955	9.20	4,700				
	Mar. 22, 1955	9.83	5,330	1961	Mar. 14, 1961	8.32	4,320
					Mar. 22, 1961	8.49	4,490
1956	Nov. 16, 1955	12.88	9,110		Apr. 13, 1961	8.68	4,680
	Feb. 18, 1956	8.73	4,200		Apr. 23, 1961	8.70	4,700
	Feb. 25, 1956	14.20	11,200		Apr. 26, 1961	12.40	8,610
	Apr. 4, 1956	10.06	5,660				

2651. Hog Run tributary at Laura, Ohio

Location.--Lat 40°00'30", long 84°25'25", at culvert on State Highway 71, 0.3 mile upstream from mouth and 1 mile northwest of Laura, Miami County.

Drainage area.--0.463 sq mi (296 acres). Length of main stream, 0.88 mile; average slope main stream, 21.0 ft per mile; average slope main stream and upper reach, 19 ft per mile; slope at gage, 71 ft per mile; length divided by average width of basin, 1.67.

Gage.--Recording. Altitude of gage is 983 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 19.1 cfs and an indirect measurement at 204 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 15, 1950	6.32	75	1956	Feb. 25, 1956	6.0	51
				1957	June 28, 1957	5.93	49
1951	Nov. 20, 1950	5.98	49	1958	June 13, 1958	5.97	51
1952	Jan. 26, 1952	5.92	46	1959	Jan. 21, 1959	6.00	54
1953	May 22, 1953	7.65	204	1960	Feb. 10, 1960	4.93	8.8
1954	June 11, 1954	5.08	11				
1955	July 9, 1955	6.02	52	1961	Apr. 25, 1961	5.82	42

2660. Stillwater River at Englewood, Ohio

Location.--Lat 39°52'10", long 84°16'57", 1,000 ft downstream from Englewood Dam, 1 mile southeast of Englewood, Montgomery County, and 8½ miles upstream from mouth.

Drainage area.--646 sq mi.

Gage.--Recording. Datum of gage is 699.97 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs.

Bankfull stage.--80 ft.

Remarks.--Flow regulated by Englewood retarding basin (312,000 acre-ft, 646 sq mi) since 1921. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	-	a85,400	1944	Apr. 13, 1944	79.38	8,140
				1945	June 19, 1945	79.28	7,610
1926	Nov. 14, 1925	78.1	6,290				
1927	Mar. 22, 1927	79.4	8,580	1946	Dec. 31, 1945	77.42	4,870
1928	Dec. 15, 1927	77.7	5,610	1947	June 3, 1947	78.88	7,090
1929	Feb. 27, 1929	79.3	8,400	1948	Apr. 14, 1948	78.52	6,460
1930	Jan. 15, 1930	79.6	8,940	1949	Jan. 6, 1949	79.55	8,350
				1950	Feb. 16, 1950	79.77	8,710
1931	Apr. 4, 1931	75.67	2,720				
1932	Jan. 18, 1932	77.13	4,620	1951	Feb. 22, 1951	79.42	8,000
1933	May 14, 1933	79.99	9,910	1952	Jan. 28, 1952	79.68	8,600
1934	Mar. 28, 1934	76.45	3,750	1953	May 24, 1953	78.29	6,280
1935	May 4, 1935	77.73	5,670	1954	Mar. 30, 1954	76.72	4,000
				1955	Mar. 22, 1955	77.76	5,530
1936	Feb. 27, 1936	78.73	7,440				
1937	Jan. 22, 1937	80.28	9,550	1956	Feb. 27, 1956	79.00	6,910
1938	Apr. 9, 1938	79.50	8,960	1957	June 30, 1957	79.67	8,200
1939	June 20, 1939	78.92	7,820	1958	June 15, 1958	80.88	9,980
1940	Apr. 21, 1940	78.63	7,220	1959	Jan. 23, 1959	80.21	9,450
				1960	Feb. 11, 1960	76.82	5,390
1941	July 4, 1941	74.45	1,700				
1942	Apr. 10, 1942	77.94	6,050	1961	Apr. 27, 1961	77.92	6,780
1943	Mar. 21, 1943	79.50	8,930				

a Computed by Miami Conservancy District for site with drainage area of 657 sq mi.

2665. Mad River at Zanesfield, Ohio

Location.--Lat 40°21'05", long 83°40'25", at highway bridge adjacent to U.S. Highway 33, 0.8 mile upstream from unnamed stream in Hadley Bottom and 1 mile north of Zanesfield, Logan County.

Drainage area.--6.41 sq mi. Length of main stream, 3.87 miles; average slope main stream, 23 ft per mile; average slope main stream and tributaries, 76.5 ft per mile; slope at gage, 65 ft per mile; length divided by average width of basin, 2.34.

Gage.--Recording. Datum of gage is 1,208.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 219 cfs and by indirect measurements at 628 and 870 cfs.

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges of Mad River at Zanesfield, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 2, 1947	3.97	502	1955	Feb. 21, 1955	2.82	270
	June 14, 1947	3.78	465	1956	Nov. 16, 1955	3.51	398
	Aug. 16, 1947	5.30	870		Feb. 25, 1956	5.29	870
1948	Feb. 13, 1948	4.45	628		May 29, 1956	4.46	628
	Mar. 23, 1948	3.35	368		July 13, 1956	5.02	780
	Apr. 11, 1948	6.76	1,380	1957	Apr. 4, 1957	2.83	310
1949	Jan. 4, 1949	3.17	331		Apr. 18, 1957	3.62	468
	Mar. 26, 1949	3.86	478	1958	May 4, 1958	3.63	479
1950	Jan. 3, 1950	4.28	590		June 10, 1958	3.50	446
	Jan. 15, 1950	6.72	1,340		July 7, 1958	4.78	734
	Jan. 26, 1950	3.19	340	1959	Jan. 21, 1959	5.05	797
1951	Nov. 20, 1950	3.29	358		Feb. 10, 1959	3.41	426
	May 2, 1951	3.03	313	1960	Jan. 13, 1960	2.16	172
1952	Jan. 17, 1952	3.27	349	1961	Feb. 25, 1961	3.03	346
	Jan. 26, 1952	4.10	540		Apr. 16, 1961	2.97	334
1953	Mar. 3, 1953	2.44	209		Apr. 25, 1961	2.95	330
1954	Jan. 27, 1954	2.09	149				

2670. Mad River near Urbana, Ohio

Location.--Lat 40°06'27", long 83°47'57", at bridge on U.S. Highway 36, $1\frac{3}{4}$ miles upstream from Dugan Run, $1\frac{3}{4}$ miles downstream from Muddy Creek, and $2\frac{1}{2}$ miles west of Urbana, Champaign County.

Drainage area.--157 sq mi.

Gage.--Nonrecording prior to Sept. 26, 1939; recording thereafter. Datum of gage is 985.0 ft above mean sea level, adjustment of 1912. At site 600 ft downstream at datum 0.36 ft lower May 18, 1930, to Sept. 30, 1931.

Stage-discharge relation.--Defined by current-meter measurements below 3,980 cfs and an estimate of 1959 peak flow based on contracted-opening measurement at site 3 miles downstream with drainage area of 235 sq mi adjusted to gage site by 0.8 power of the drainage-area ratio.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 1,100 cfs. Base data furnished by Miami Conservancy District. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Apr. 8, 1926	4.7	1,550	1945	Mar. 6, 1945	6.35	1,840
1927	Mar. 21, 1927	5.8	2,320		Mar. 20, 1945	6.12	1,630
1928	Feb. 7, 1928	5.0	1,760		May 17, 1945	7.05	2,490
1929	Feb. 26, 1929	10.4	7,740		June 17, 1945	5.78	1,410
1930	Jan. 7, 1930	6.5	3,000	1946	Feb. 5, 1946	5.34	1,120
1931	Sept.26, 1931	2.50	493		Feb. 14, 1946	6.51	1,960
1940	Feb. 10, 1940	4.60	1,420		Feb. 27, 1946	5.38	1,150
	Mar. 3, 1940	6.69	3,200		June 19, 1946	5.53	1,240
	Apr. 20, 1940	4.59	1,420	1947	Jan. 30, 1947	6.65	2,100
1941	July 3, 1941	4.27	545		May 21, 1947	6.58	2,050
1942	Apr. 10, 1942	6.05	1,740		June 2, 1947	7.80	3,310
1943	Mar. 17, 1943	6.08	1,630		June 14, 1947	6.95	2,380
	Mar. 20, 1943	8.02	3,490		Aug. 17, 1947	5.68	1,340
	Aug. 4, 1943	5.88	1,480	1948	Jan. 1, 1948	6.05	1,590
1944	Apr. 8, 1944	5.35	1,120		Feb. 14, 1948	9.85	5,930
	Apr. 11, 1944	7.08	2,540		Feb. 16, 1948	5.61	1,440
1945	Feb. 22, 1945	6.09	1,630		Mar. 24, 1948	6.54	2,220
	Mar. 3, 1945	5.36	1,120		Mar. 27, 1948	6.36	2,030
					Apr. 6, 1948	6.25	1,950
					Apr. 13, 1948	7.64	3,230
					May 12, 1948	5.32	1,220

Peak stages and discharges of Mad River near Urbana, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Nov. 6, 1948	6.35	2,030	1955	Feb. 21, 1955	5.95	2,150
	Dec. 15, 1948	5.26	1,190		Mar. 1, 1955	4.86	1,350
	Jan. 5, 1949	7.27	2,930		Mar. 11, 1955	4.63	1,220
	Jan. 18, 1949	5.38	1,300		Mar. 22, 1955	5.55	1,870
	Jan. 28, 1949	6.60	2,260				
	Feb. 15, 1949	6.48	2,170	1956	Nov. 16, 1955	6.28	2,080
	June 16, 1949	5.53	1,400		Feb. 9, 1956	5.11	1,330
	July 21, 1949	5.49	1,360		Feb. 25, 1956	7.89	3,490
					Mar. 8, 1956	5.03	1,300
1950	Jan. 4, 1950	6.14	1,870		Apr. 4, 1956	4.99	1,260
	Jan. 6, 1950	5.29	1,220		May 27, 1956	5.64	1,540
	Jan. 10, 1950	7.15	2,830		May 29, 1956	5.68	1,630
	Jan. 16, 1950	9.75	5,930				
	Jan. 26, 1950	6.46	2,200	1957	Apr. 4, 1957	6.48	2,240
	Feb. 9, 1950	5.48	1,450		Apr. 18, 1957	5.31	1,360
	Feb. 14, 1950	7.08	2,780		May 22, 1957	5.61	1,570
	Feb. 22, 1950	5.25	1,280		June 28, 1957	5.35	1,400
	Apr. 4, 1950	6.79	2,510				
				1958	Dec. 20, 1957	5.11	1,220
1951	Nov. 20, 1950	6.51	2,290		Dec. 26, 1957	5.35	1,400
	Dec. 3, 1950	6.61	2,440		May 4, 1958	5.75	1,680
	Dec. 7, 1950	5.76	1,840		June 10, 1958	7.49	3,080
	Jan. 4, 1951	6.10	2,050		June 14, 1958	7.39	2,990
	Jan. 14, 1951	5.37	1,520		July 25, 1958	5.15	1,220
	Feb. 12, 1951	6.01	1,980				
	Feb. 21, 1951	7.15	2,950	1959	Jan. 22, 1959	12.05	8,000
	June 9, 1951	5.02	1,300		Feb. 10, 1959	8.65	4,020
					Feb. 14, 1959	5.15	1,160
1952	Dec. 9, 1951	4.82	1,160				
	Jan. 17, 1952	4.69	1,100	1960	Jan. 15, 1960	4.76	848
	Jan. 27, 1952	8.59	4,420				
	Feb. 4, 1952	5.44	1,700	1961	Feb. 29, 1961	5.55	1,480
	Apr. 13, 1952	6.01	2,090		Mar. 4, 1961	5.40	1,360
					Apr. 12, 1961	5.17	1,180
1953	Mar. 4, 1953	4.88	1,320		Apr. 16, 1961	5.55	1,480
	May 17, 1953	4.99	1,390		Apr. 22, 1961	5.83	1,700
					Apr. 25, 1961	7.77	3,260
1954	Mar. 30, 1954	5.31	1,600				

2680. Buck Creek at New Moorefield, Ohio

Location.--Lat 39°59'15", long 83°42'55", at New York Central Railroad bridge at south edge of New Moorefield, Clark County, 1½ miles downstream from East Fork and 5 miles upstream from Beaver Creek.

Drainage area.--67.3 sq mi.

Gage.--Recording. Datum of gage is 1,005.44 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 1,620 cfs and a contracted-opening measurement at 8,130 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 1,100 cfs. Only annual peak shown for 1959.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 16, 1943	5.6	1,500	1947	July 15, 1947	6.35	1,750
	Mar. 19, 1943	6.4	2,250				
				1948	Feb. 14, 1948	7.46	5,150
1944	Apr. 8, 1944	6.35	1,620		Mar. 19, 1948	5.60	1,120
	Apr. 11, 1944	6.36	1,620		Mar. 23, 1948	6.30	1,720
					Mar. 27, 1948	6.22	1,620
1945	Feb. 22, 1945	5.90	1,310		Apr. 6, 1948	6.15	1,580
	Mar. 6, 1945	6.10	1,440		Apr. 13, 1948	5.65	1,160
	Mar. 20, 1945	5.70	1,190				
	May 17, 1945	5.85	1,280	1949	Jan. 5, 1949	6.14	1,480
					Jan. 27, 1949	5.72	1,250
1946	May 27, 1946	5.70	1,190		Feb. 15, 1949	6.19	1,510
	June 19, 1946	6.60	1,790		June 16, 1949	6.23	1,540
1947	Jan. 30, 1947	5.95	1,380	1950	Jan. 6, 1950	6.16	1,480
	June 2, 1947	6.25	1,650		Jan. 10, 1950	6.12	1,440
	June 7, 1947	5.95	1,380		Jan. 16, 1950	6.31	1,580

Peak stages and discharges of Buck Creek at New Moorefield, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 24, 1950	5.99	1,370	1953	May 22, 1953	6.83	2,160
	Feb. 14, 1950	5.96	1,340	1954	June 16, 1954	6.36	1,790
	Apr. 4, 1950	5.77	1,280	1955	Mar. 22, 1955	5.76	1,220
1951	Nov. 20, 1950	5.73	1,280				
	Dec. 3, 1950	6.31	1,740	1956	Nov. 16, 1955	6.52	1,720
	Jan. 3, 1951	5.90	1,400		Feb. 25, 1956	5.64	1,160
	Jan. 14, 1951	5.67	1,220				
	Feb. 12, 1951	5.68	1,250	1957	Apr. 4, 1957	6.44	1,680
	Feb. 21, 1951	6.35	1,790		July 6, 1957	5.67	1,160
1952	Jan. 26, 1952	7.00	2,550	1958	May 4, 1958	6.45	1,690
	Mar. 11, 1952	6.37	1,790		June 10, 1958	6.57	1,780
	Mar. 23, 1952	5.77	1,280		June 13, 1958	6.79	2,080
	Apr. 13, 1952	6.40	1,650				
	May 24, 1952	5.60	1,180	1959	Jan. 21, 1959	7.70	8,130

2685. Beaver Creek near Springfield, Ohio

Location.--Lat 39°56'25", long 83°44'55", at bridge on Merrit Road, three-quarters of a mile upstream from mouth and 3½ miles east of center of Springfield, Clark County.

Drainage area.--37.3 sq mi.

Gage.--Recording. Datum of gage is 960.98 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and by indirect measurements at 2,670, 2,900, and 4,950 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 800 cfs. Only annual peak shown for 1959.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 19, 1943	6.83	3,060	1950	Jan. 24, 1950	4.60	1,080
	July 29, 1943	4.30	800		Jan. 26, 1950	4.30	840
					Feb. 14, 1950	5.37	1,970
1944	Apr. 8, 1944	5.00	1,310		Apr. 4, 1950	4.56	1,040
	Apr. 11, 1944	4.80	1,150		Apr. 23, 1950	4.38	896
1945	Feb. 22, 1945	4.77	1,110	1951	Dec. 3, 1950	5.25	1,840
	Mar. 6, 1945	5.83	2,200		Jan. 4, 1951	4.71	1,180
	Mar. 20, 1945	4.38	848		Jan. 14, 1951	4.44	942
	June 18, 1945	5.24	1,540		Feb. 12, 1951	4.39	903
					Feb. 21, 1951	5.35	1,970
1946	Mar. 19, 1946	4.25	814				
	June 17, 1946	5.12	1,400	1952	Jan. 26, 1952	6.85	3,500
	June 28, 1946	4.31	862		Mar. 11, 1952	4.95	1,460
					Mar. 23, 1952	4.56	1,040
1947	Jan. 30, 1947	4.78	1,260		Apr. 13, 1952	4.53	1,010
	Apr. 25, 1947	4.53	1,020				
	May 13, 1947	4.40	932	1953	May 22, 1953	4.33	1,660
	May 25, 1947	4.55	1,040				
	June 2, 1947	5.66	2,010	1954	June 16, 1954	4.11	1,730
	July 15, 1947	4.43	953				
				1955	Mar. 22, 1955	3.33	1,050
1948	Jan. 1, 1948	4.48	974				
	Feb. 13, 1948	7.95	4,980	1956	Nov. 16, 1955	4.70	1,760
	Mar. 19, 1948	4.46	958		Feb. 25, 1956	3.00	825
	Mar. 23, 1948	5.60	2,330		Mar. 28, 1956	3.32	975
	Mar. 27, 1948	5.55	2,260		Apr. 3, 1956	3.26	950
1949	Dec. 16, 1948	4.61	1,080	1957	Apr. 4, 1957	4.22	1,660
	Jan. 4, 1949	5.16	1,700		May 22, 1957	3.33	1,090
	Jan. 24, 1949	4.51	999		July 7, 1957	3.47	1,150
	Jan. 28, 1949	4.70	1,180				
	Feb. 15, 1948	5.28	1,900	1958	June 10, 1958	3.89	1,450
					June 13, 1958	4.55	1,940
1950	Jan. 6, 1950	5.48	2,180		Aug. 2, 1958	3.60	1,250
	Jan. 10, 1950	4.51	999				
	Jan. 16, 1950	5.60	2,330	1959	Jan. 21, 1959	9.00	5,400

2690. Buck Creek at Springfield, Ohio

Location.--Lat 39°55'57", long 83°48'59", at Plum Street Bridge in Springfield, Clark County, 0.3 mile upstream from concrete control dam and 2¼ miles upstream from mouth.

Drainage area.--137 sq mi. At site used 1924-28, 130 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1928; recording thereafter. Datum of gage is 906.85 ft above mean sea level, adjustment of 1912. At same site at datum 1.00 ft higher July 14, 1914, to Sept. 30, 1921. At site half a mile upstream at datum 6.17 ft higher May 23, 1924, to Sept. 30, 1928.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs, and extended on basis of indirect measurements at 11,100 and 10,500 cfs.

Bankfull stage.--10 ft.

Remarks.--Discharges after 1949 are based on rating in use in 1949. Base for partial-duration series, 1,500 cfs. Only annual peaks are shown prior to 1929 and after 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a13.3	b11,100
1915	July 8, 1915	6.9	3,050
1916	Mar. 27, 1916	8.0	4,300
1917	Jan. 5, 1917	5.9	2,140
1918	Aug. 30, 1918	8.0	4,300
1919	Mar. 16, 1919	8.5	4,950
1920	Apr. 20, 1920	9.6	6,540
1921	Mar. 27, 1921	8.5	4,950
1924	June 8, 1924	14.2	c10,500
1925	Apr. 22, 1925	9.0	4,320
1926	Apr. 8, 1926	6.5	2,020
1927	Jan. 19, 1927	10.2	5,570
1928	June 20, 1928	8.4	3,720
1929	Jan. 19, 1929	10.45	6,240
	Jan. 23, 1929	6.39	1,760
	Jan. 25, 1929	7.75	2,950
	Feb. 26, 1929	14.3	13,000
	Apr. 10, 1929	6.73	1,970
	May 15, 1929	10.22	5,940
	May 19, 1929	6.17	1,580
	June 16, 1929	8.40	3,590
	June 19, 1929	8.04	3,150
	July 7, 1929	6.26	1,660
	July 18, 1929	7.35	2,570
1930	Jan. 10, 1930	6.63	1,930
	Jan. 13, 1930	6.76	2,010
	Feb. 13, 1930	6.23	1,620
	Feb. 26, 1930	6.68	1,970
1931	July 21, 1931	5.60	1,180
1932	Dec. 13, 1931	7.11	2,300
	Jan. 17, 1932	7.58	2,750
	June 27, 1932	6.51	1,810
	July 7, 1932	6.43	1,780
1933	Dec. 31, 1932	8.61	3,870
	Mar. 19, 1933	8.01	3,220
	Apr. 18, 1933	6.30	1,730
	May 11, 1933	9.53	4,970
	May 13, 1933	8.49	3,760
1934	Mar. 3, 1934	6.20	1,660
1935	Aug. 16, 1935	5.50	1,350
1936	Feb. 14, 1936	d6.9	-
	Feb. 25, 1936	6.63	2,120
	Feb. 27, 1936	6.08	1,740
	Apr. 6, 1936	4.39	1,570
1937	Jan. 15, 1937	6.70	4,480
1937	Jan. 18, 1937	6.03	3,570
	Jan. 21, 1937	7.78	5,910
	Jan. 25, 1937	7.93	6,380
1938	Mar. 14, 1938	4.23	1,630
	Apr. 7, 1938	4.82	2,140
	May 27, 1938	5.13	2,500
1939	Jan. 30, 1939	4.61	1,940
	Apr. 15, 1939	4.51	1,850
1940	Feb. 10, 1940	4.60	1,940
	Mar. 3, 1940	4.50	1,850
	Apr. 20, 1940	5.15	2,020
1941	June 4, 1941	3.58	656
1942	Aug. 21, 1942	4.05	1,000
1943	Mar. 17, 1943	5.01	1,760
	Mar. 19, 1943	7.82	4,720
	June 25, 1943	5.62	2,300
	July 13, 1943	4.71	1,500
	July 29, 1943	4.85	1,620
1944	Apr. 8, 1944	5.89	2,600
	Apr. 11, 1944	6.26	3,000
1945	Feb. 22, 1945	5.27	1,940
	Mar. 3, 1945	4.91	1,580
	Mar. 6, 1945	7.25	4,000
	Mar. 20, 1945	5.15	1,800
	May 17, 1945	5.20	1,900
	June 18, 1945	5.80	2,500
1946	Mar. 19, 1946	4.80	1,580
	June 17, 1946	5.28	2,030
	June 19, 1946	5.86	2,600
1947	Jan. 30, 1947	5.29	2,030
	Apr. 25, 1947	4.87	1,620
	May 25, 1947	5.02	1,760
	June 2, 1947	6.60	3,330
	June 7, 1947	5.04	1,800
	July 15, 1947	5.67	2,350
1948	Jan. 1, 1948	4.75	1,540
	Feb. 14, 1948	9.84	7,120
	Mar. 19, 1948	4.78	1,580
	Mar. 23, 1948	5.87	2,600
	Mar. 27, 1948	6.13	2,800
	Apr. 6, 1948	4.97	1,720
	Apr. 13, 1948	4.82	1,580
1949	Dec. 16, 1948	4.95	1,660
	Jan. 5, 1949	6.24	2,940
	Jan. 24, 1949	5.26	1,920
	Jan. 28, 1949	5.73	2,420
	Feb. 15, 1949	6.20	2,890

a Present datum. b Computed by Miami Conservancy District. c Maximum during period May to September; annual peak probably occurred in March. d Backwater from ice.

Peak stages and discharges of Buck Creek at Springfield, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 16, 1949	5.21	1,940	1955	Mar. 22, 1955	5.33	2,020
1950	Feb. 14, 1950	6.15	2,840	1956	Nov. 16, 1955	6.74	3,440
1951	Dec. 3, 1950	6.52	3,220	1959	Jan. 21, 1959	12.39	10,500
1952	Jan. 26, 1952	8.69	5,800	1960	May 27, 1960	4.67	1,490
1953	May 22, 1953	6.6	3,330				
1954	June 17, 1954	6.10	2,780	1961	Apr. 25, 1961	5.77	2,440

2695. Mad River near Springfield, Ohio

Location.--Lat 39°55'23", long 83°52'13", 150 ft downstream from Rock Run, 250 ft downstream from bridge on Lower Valley Pike, 2 miles downstream from Buck Creek, and 3 miles west of Springfield, Clark County.

Drainage area.--485 sq mi; 486 sq mi at site used 1904-5; 460 sq mi at site used 1914-24. Channel slope, main stream, 8.29 ft per mile; channel slope, tributary, 27.8 ft per mile; longest watercourse, 40.8 miles; mean elevation of land surface, 1,079 ft above mean sea level; average land slope, 192 ft per mile.

Gage.--Nonrecording prior to July 29, 1925; recording thereafter. At site a third of a mile downstream at different datum January 1904 to March 1906. At site 1¾ miles upstream at datum 6.39 ft higher Feb. 1, 1914, to Feb. 29, 1924. At site 300 ft upstream at present datum Mar. 1, 1924, to July 31, 1925. Datum of present gage is 881.42 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 13,500 cfs, and indirect measurement at 30,500 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 4,000 cfs. Base data furnished by Miami Conservancy District. Only annual peaks are shown prior to 1926.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 26, 1904	16.1	6,850	1929	Jan. 23, 1929	6.27	4,480
1905	June 5, 1905	12.1	3,850		Jan. 25, 1929	8.99	7,920
					Feb. 26, 1929	14.9	23,000
1913	Mar. 25, 1913	a16.9	b55,400		Apr. 10, 1929	6.37	4,600
1914	Mar. 28, 1914	8.6	6,460		May 15, 1929	9.33	8,340
1915	July 8, 1915	8.0	5,200		June 16, 1929	7.06	5,450
					June 19, 1929	8.38	7,140
1916	Mar. 27, 1916	9.5	8,960		July 8, 1929	6.14	4,240
1917	Jan. 5, 1917	7.5	4,400		July 19, 1929	5.86	4,000
1918	Feb. 12, 1918	9.1	7,780				
1919	Mar. 16, 1919	8.0	5,200	1930	Dec. 18, 1929	6.23	4,360
1920	Aug. 22, 1920	10.8	13,100		Jan. 8, 1930	9.10	8,060
					Jan. 13, 1930	8.39	7,140
1921	Mar. 28, 1921	9.2	8,060		Feb. 13, 1930	6.48	4,720
1922	Apr. 15, 1922	10.1	10,800		Feb. 26, 1930	8.14	6,750
1923	Mar. 15, 1923	7.0	3,780				
1924	June 8, 1924	13.3	18,300	1931	Sept.17, 1931	4.77	2,720
1925	Apr. 22, 1925	6.9	5,200				
				1932	Dec. 11, 1931	6.26	4,480
1926	Apr. 8, 1926	6.4	4,600		Dec. 13, 1931	7.94	6,490
					Jan. 18, 1932	8.94	7,790
1927	Oct. 6, 1926	7.29	5,710		Mar. 22, 1932	6.33	4,480
	Oct. 29, 1926	6.32	4,480		June 27, 1932	6.48	4,720
	Jan. 19, 1927	10.5	10,000		July 7, 1932	6.47	4,720
	Jan. 22, 1927	8.02	6,620				
	Mar. 21, 1927	9.09	8,050	1933	Dec. 31, 1932	10.72	10,500
	May 19, 1927	6.16	4,360		Mar. 19, 1933	9.37	8,480
	June 5, 1927	8.27	7,010		Apr. 18, 1933	7.29	5,710
					May 11, 1933	10.06	9,520
1928	Dec. 1, 1927	8.51	7,270		May 13, 1933	11.18	11,300
	Dec. 14, 1927	7.08	5,450				
	Apr. 22, 1928	6.33	4,480	1934	Mar. 3, 1934	7.18	5,580
	June 20, 1928	7.44	5,840				
				1935	May 3, 1935	5.90	4,010
1929	Jan. 19, 1929	9.78	9,070				

a Present site and datum.
b Computed by Miami Conservancy District.

Peak stages and discharges of Mad River near Springfield, Ohio--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 14, 1936	6.63	4,840
	Feb. 25, 1936	8.24	6,880
	Feb. 27, 1936	8.71	7,530
	Apr. 6, 1936	6.46	4,720
1937	Jan. 15, 1937	11.84	14,400
	Jan. 18, 1937	10.61	11,600
	Jan. 21, 1937	12.39	15,900
	Jan. 25, 1937	12.39	15,900
	Apr. 25, 1937	8.32	6,110
1938	Dec. 18, 1937	7.09	4,400
	Mar. 14, 1938	7.44	4,760
	Mar. 16, 1938	7.44	4,760
	Apr. 7, 1938	9.43	8,380
1939	Jan. 30, 1939	7.68	4,980
	Feb. 28, 1939	7.31	4,380
	Apr. 15, 1939	8.00	5,500
1940	Mar. 3, 1940	7.90	5,320
	Apr. 20, 1940	7.77	5,140
1941	June 4, 1941	3.50	1,480
1942	Apr. 10, 1942	6.06	3,300
1943	Mar. 17, 1943	8.23	5,900
	Mar. 19, 1943	11.4	13,400
1944	Apr. 8, 1944	9.08	7,830
	Apr. 11, 1944	9.90	9,670
1945	Feb. 22, 1945	7.83	5,160
	Mar. 3, 1945	7.30	4,530
	Mar. 6, 1945	11.20	12,800
	Mar. 20, 1945	8.17	5,900
	May 18, 1945	8.64	6,720
1946	Feb. 14, 1946	-	4,770
	Mar. 19, 1946	-	5,880
	June 19, 1946	8.48	6,300
1947	May 21, 1947	-	4,900
	May 25, 1947	-	4,900
	June 2, 1947	11.39	12,700
	June 7, 1947	-	4,320
	June 14, 1947	-	4,320
	Aug. 16, 1947	-	4,600
1948	Jan. 1, 1948	7.56	4,800
	Feb. 14, 1948	13.22	18,000
	Mar. 24, 1948	9.18	7,220
	Mar. 27, 1948	9.53	7,860
	Apr. 6, 1948	8.64	6,120
	Apr. 13, 1948	8.56	6,120
1949	Nov. 6, 1948	6.35	4,010
	Jan. 5, 1949	10.80	11,000
1949	Jan. 24, 1949	7.71	4,970
	Jan. 28, 1949	8.98	6,540
	Feb. 15, 1949	9.50	7,560
	June 16, 1949	7.82	5,050
1950	Jan. 4, 1950	8.92	6,360
	Jan. 6, 1950	9.94	8,560
	Jan. 10, 1950	10.34	9,600
	Jan. 16, 1950	11.02	11,600
	Jan. 24, 1950	8.30	5,520
	Jan. 26, 1950	8.24	5,420
	Feb. 14, 1950	9.99	8,820
	Apr. 4, 1950	8.85	6,200
1951	Nov. 20, 1950	9.24	6,920
	Dec. 3, 1950	11.24	12,100
	Dec. 7, 1950	7.39	4,740
	Jan. 4, 1951	9.08	6,720
	Jan. 15, 1951	8.26	5,520
	Feb. 12, 1951	8.82	6,200
	Feb. 21, 1951	11.11	11,800
1952	Jan. 26, 1952	13.18	18,000
	Feb. 4, 1952	7.50	4,810
	Mar. 11, 1952	9.02	6,540
	Mar. 23, 1952	8.53	5,760
	Apr. 13, 1952	8.05	5,230
1953	May 22, 1953	8.88	6,360
1954	June 17, 1954	6.54	4,090
1955	Feb. 21, 1955	7.36	4,740
	Mar. 22, 1955	7.49	4,810
1956	Nov. 16, 1955	9.93	7,340
	Feb. 25, 1956	9.28	7,120
	Apr. 4, 1956	7.30	4,670
1957	Apr. 4, 1957	11.31	12,400
	May 22, 1957	8.11	5,320
	June 29, 1957	6.36	4,010
	July 7, 1957	6.91	4,390
1958	Dec. 20, 1957	6.62	4,180
	Dec. 26, 1957	6.85	4,320
	Jan. 21, 1958	6.35	4,040
	May 4, 1958	8.95	6,330
	June 10, 1958	10.38	8,780
	June 14, 1958	11.48	11,700
	Aug. 2, 1958	7.74	4,970
1959	Jan. 21, 1959	15.76	30,500
	Feb. 10, 1959	11.95	12,600
1960	May 27, 1960	6.52	4,120
1961	Apr. 22, 1961	7.46	4,780
	Apr. 26, 1961	9.83	7,590

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2700. Mad River near Dayton, Ohio

Location.--Lat 39°47'48", long 84°05'32", 600 ft downstream from Huffman Dam, 2½ miles downstream from Mud Run, in Greene County, and 6 miles northeast of Dayton, Montgomery County.

Drainage area.--632 sq mi. At site used 1914-21, 611 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1926, and July 22, 1957, to Jan. 20, 1959; recording Oct. 1, 1926, to July 21, 1957, and after Jan. 20, 1959. At site 1 mile upstream at datum 83.96 ft higher prior to Oct. 1, 1921. At site 1,000 ft downstream at present datum July 22, 1957, to Jan. 20, 1959. Datum of gage is 699.95 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 18,800 cfs.

Bankfull stage.--84 ft.

Remarks.--Flow regulated by Huffman retarding basin (167,000 acre-ft, 632 sq mi) since 1921. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	14.0	a75,700	1938	Apr. 7, 1938	84.55	7,500
				1939	Apr. 16, 1939	84.00	6,620
1915	July 8, 1915	7.5	5,460	1940	Apr. 21, 1940	83.70	5,590
1916	Mar. 27, 1916	9.6	9,060	1941	June 4, 1941	80.57	1,380
1917	Jan. 5, 1917	7.1	4,930	1942	Feb. 7, 1942	81.67	3,600
1918	Feb. 12, 1918	9.2	8,300	1943	Mar. 20, 1943	85.2	11,200
1919	Mar. 17, 1919	8.0	6,180	1944	Apr. 12, 1944	83.56	7,620
1920	Apr. 21, 1920	11.5	15,000	1945	Mar. 7, 1945	85.32	11,400
1921	Mar. 28, 1921	10.4	10,600	1946	June 20, 1946	82.07	4,520
1922	Apr. 15, 1922	88.1	17,800	1947	June 3, 1947	85.57	12,000
1923	Mar. 16, 1923	85.1	5,590	1948	Feb. 14, 1948	86.10	13,300
1924	Mar. 29, 1924	87.2	12,500	1949	Jan. 6, 1949	84.64	9,440
1925	Apr. 22, 1925	85.2	6,060	1950	Jan. 17, 1950	84.46	9,200
1926	Apr. 9, 1926	84.1	4,120	1951	Dec. 4, 1950	84.68	9,680
1927	Jan. 20, 1927	86.6	9,880	1952	Jan. 27, 1952	86.14	13,300
1928	Dec. 1, 1927	85.4	6,420	1953	May 23, 1953	82.55	5,340
1929	Feb. 26, 1929	87.90	18,400	1954	June 9, 1954	80.92	2,750
1930	Jan. 9, 1930	85.61	10,600	1955	Mar. 22, 1955	82.19	4,680
1931	Apr. 3, 1931	81.70	2,450	1956	Nov. 16, 1955	83.20	6,430
1932	Jan. 18, 1932	84.87	8,560	1957	Apr. 5, 1957	84.96	10,400
1933	May 14, 1933	86.21	12,500	1958	June 14, 1958	83.6	10,700
1934	Mar. 3, 1934	83.10	4,530	1959	Jan. 22, 1959	87.30	21,200
1935	May 3, 1935	82.72	3,850	1960	May 28, 1960	80.92	3,490
1936	Feb. 27, 1936	84.10	6,570	1961	Apr. 26, 1961	82.72	6,980
1937	Jan. 22, 1937	86.56	15,400				

a Computed by Miami Conservancy District.

2705. Miami River at Dayton, Ohio

Location.--Lat 39°45'55", long 84°11'51", 1,000 ft downstream from Main Street Bridge in Dayton, Montgomery County, and three-quarters of a mile downstream from Mad River.

Drainage area.--2,513 sq mi.

Gage.--Nonrecording prior to July 25, 1931; recording thereafter. Datum of gage is 700.00 ft above mean sea level, adjustment of 1912. At Main Street Bridge at datum 723.73 ft above mean sea level prior to Oct. 1, 1921. At Main Street Bridge at datum 721.00 ft above mean sea level Oct. 1, 1921, to July 24, 1931.

Stage-discharge relation.--Defined by current-meter measurements below 58,900 cfs.

Bankfull stage.--41 ft.

Remarks.--Flow regulated by four retarding basins (combined capacity, 735,000 acre-ft) since 1921. Discharges prior to 1913 are based on measurements made in 1905-6 and the shape of other ratings and are approximate. Base data furnished by Miami Conservancy District. Gage heights for 1893-1905 are from U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1805	March 1805	a20.0	-	1921	Mar. 29, 1921	-	d42,400
				1922	Apr. 15, 1922	12.3	39,000
1814	August 1814	a16.0	-	1923	May 16, 1923	7.8	16,400
				1924	June 9, 1924	13.4	47,700
1828	Jan. 8, 1828	a18.0	-	1925	Apr. 22, 1925	7.9	15,700
1832	February 1832	a18.0	-	1926	Apr. 9, 1926	9.4	22,700
				1927	Mar. 22, 1927	12.8	43,700
1847	Jan. 2, 1847	a19.0	-	1928	Dec. 1, 1927	9.7	24,400
				1929	Feb. 27, 1929	14.4	53,000
1866	Sept.19, 1866	21.3	-	1930	Jan. 9, 1930	12.2	38,900
1882	Feb. 21, 1882	a15.6	-	1931	Apr. 4, 1931	6.0	9,100
1883	Feb. 5, 1883	ab19.0	-	1932	Jan. 18, 1932	29.10	20,700
1884	Feb. 7, 1884	a13.0	-	1933	May 14, 1933	34.00	47,200
				1934	Mar. 3, 1934	b28.13	10,700
1893	May 2, 1893	15.8	58,000	1935	May 4, 1935	28.51	17,800
1894	Feb. 19, 1894	6.4	13,000				
1895	Jan. 22, 1895	5.6	10,000	1936	Feb. 27, 1936	30.42	27,100
				1937	Jan. 22, 1937	34.25	48,400
1896	July 25, 1896	8.9	22,000	1938	Apr. 9, 1938	30.78	29,100
1897	Mar. 6, 1897	16.3	61,000	1939	Apr. 16, 1939	30.00	25,100
1898	Mar. 23, 1898	20.2	92,000	1940	Apr. 21, 1940	30.12	25,600
1899	Jan. 15, 1899	10.5	29,000				
1900	Mar. 7, 1900	8.6	21,000	1941	June 16, 1941	24.49	4,800
				1942	Apr. 11, 1942	28.8	19,300
1901	Mar. 11, 1901	7.0	15,000	1943	Mar. 20, 1943	32.0	35,700
1902	July 1, 1902	6.3	13,000	1944	Apr. 12, 1944	30.86	29,600
1903	Mar. 1, 1903	11.8	35,000	1945	Mar. 7, 1945	30.66	28,600
1904	Mar. 27, 1904	14.8	52,000				
1905	May 12, 1905	11.0	31,000	1946	Feb. 14, 1946	28.30	16,800
				1947	June 3, 1947	32.24	36,800
1906	Mar. 28, 1906	13.2	42,000	1948	Feb. 14, 1948	31.22	31,300
1907	Mar. 14, 1907	15.2	54,000	1949	Jan. 6, 1949	31.41	31,500
1908	Feb. 15, 1908	16.1	60,000	1950	Jan. 17, 1950	32.22	36,000
1909	Feb. 24, 1909	13.8	46,000				
1910	Feb. 28, 1910	15.7	57,000	1951	Feb. 22, 1951	32.0	34,800
				1952	Jan. 27, 1952	33.9	46,600
1911	Oct. 7, 1910	16.1	60,000	1953	May 23, 1953	28.54	18,100
1912	Feb. 27, 1912	14.5	50,000	1954	Mar. 30, 1954	26.62	11,000
1913	Mar. 25, 1913	29.0	c250,000	1955	Mar. 22, 1955	28.21	17,200
1914	Apr. 8, 1914	9.0	22,800				
1915	July 9, 1915	11.0	26,900	1956	Nov. 17, 1955	29.7	23,000
				1957	Apr. 5, 1957	31.70	33,200
1916	Jan. 31, 1916	14.8	48,200	1958	June 14, 1958	32.97	40,800
1917	Mar. 14, 1917	10.9	29,800	1959	Jan. 22, 1959	35.45	60,900
1918	Feb. 13, 1918	11.5	32,800	1960	Feb. 11, 1960	27.05	12,700
1919	Mar. 17, 1919	13.4	35,900				
1920	Apr. 21, 1920	16.0	d59,800	1961	Apr. 26, 1961	30.28	25,900

a Estimated.
b Backwater from ice.
c Computed by Miami Conservancy District.
d Computed for station at Millers Ford, 3½ miles downstream.

2710. Wolf Creek at Dayton, Ohio

Location.--Lat 39°46'00", long 84°14'10", at West Riverview Avenue Bridge in Dayton, Montgomery County, 1.8 miles upstream from mouth.

Drainage area.--69.5 sq mi. Channel slope, main stream, 18.2 ft per mile; channel slope, tributary, 50.4 ft per mile; longest watercourse, 19.7 miles; average elevation of land surface, 910 ft above mean sea level; average land slope, 166 ft per mile.

Gage.--Recording. Datum of gage is 700.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 9,650 cfs.

Remarks.--Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Jan. 30, 1939	49.8	4,680	1946	Feb. 13, 1946	47.47	2,600
1940	Apr. 19, 1940	48.9	3,700	1947	Jan. 30, 1947	49.30	4,200
				1948	Mar. 27, 1948	48.90	3,810
1941	June 13, 1941	44.77	547	1949	July 8, 1949	51.00	6,200
1942	Dec. 24, 1941	49.15	4,020	1950	Jan. 15, 1950	48.75	3,720
1943	Mar. 19, 1943	53.5	9,950				
1944	Apr. 11, 1944	50.17	5,120	1959	Jan. 21, 1959	55.1	-
1945	June 10, 1945	50.90	6,060				

2715. Miami River at Miamisburg, Ohio

Location.--Lat 39°38'45", long 84°17'20", 600 ft downstream from bridge on State Highway 725 at Miamisburg, Montgomery County, and 0.3 mile downstream from mouth of Bear Creek.

Drainage area.--2,718 sq mi. At site used 1916-20, 2,780 sq mi; at site used 1924-35, 2,719 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1924; recording thereafter. At site 6.7 miles downstream at different datum May 16, 1916, to Sept. 30, 1920. At site 2.2 miles downstream at datum 677.06 ft above mean sea level Aug. 29, 1924, to Sept. 30, 1935. Datum of gage is 678.60 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 46,000 cfs, 1917-20; below 43,000 cfs, 1925-35; and below 59,800 cfs, 1953-61.

Bankfull stage.--22 ft.

Remarks.--Flow regulated by four retarding basins (combined capacity, 735,000 acre-ft) since 1921. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	-	a257,000	1932	Jan. 17, 1932	10.75	22,500
				1933	May 15, 1933	16.13	51,800
1917	Mar. 14, 1917	11.6	30,500	1934	Mar. 3, 1934	-	b11,600
1918	Feb. 13, 1918	12.5	34,100	1935	May 4, 1935	9.6	17,800
1919	Mar. 18, 1919	13.7	38,900				
1920	Apr. 21, 1920	16.8	51,800	1953	May 23, 1953	12.22	19,100
				1954	Mar. 31, 1954	8.94	10,500
1925	Apr. 23, 1925	9.1	17,400	1955	Feb. 22, 1955	12.12	19,000
1926	Apr. 9, 1926	11.2	25,700	1956	Nov. 17, 1955	13.48	24,700
1927	Mar. 22, 1927	14.9	43,000	1957	Apr. 5, 1957	16.48	37,700
1928	Dec. 2, 1927	11.6	27,500	1958	June 15, 1958	18.03	44,200
1929	Feb. 27, 1929	16.5	55,000	1959	Jan. 21, 1959	20.65	61,800
1930	Jan. 10, 1930	16.16	50,800	1960	Feb. 11, 1960	9.43	13,000
1931	Apr. 4, 1931	6.71	9,680	1961	Apr. 26, 1961	14.11	27,300

a Computed by Miami Conservancy District.
b Estimated.

2720. Twin Creek near Germantown, Ohio

Location.--Lat 39°38'10", long 84°23'48", a quarter of a mile downstream from Germantown Dam, 1½ miles northwest of Germantown, Montgomery County, and 3 miles upstream from Little Twin Creek.

Drainage area.--275 sq mi. At site used 1914-24, 276 sq mi.

Gage.--Nonrecording prior to December 1923; recording thereafter. Datum of gage is 700.24 ft above mean sea level, adjustment of 1912. At site 1 mile downstream at datum 712.73 ft above mean sea level prior to 1926.

Stage-discharge relation.--Defined by current-meter measurements below 7,680 cfs.

Bankfull stage.--27 ft.

Remarks.--Flows regulated by Germantown retarding basin (106,000 acre-ft, 275 sq mi) since 1920. Base data furnished by Miami Conservancy District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	18.3	a66,000	1939	Apr. 16, 1939	27.23	5,850
				1940	Apr. 20, 1940	26.7	5,250
1915	July 8, 1915	11.7	9,390				
				1941	June 11, 1941	22.86	1,720
1916	Jan. 12, 1916	10.5	7,880	1942	Feb. 7, 1942	26.0	4,460
1917	Mar. 13, 1917	9.7	6,950	1943	Mar. 20, 1943	28.1	7,200
1918	Feb. 12, 1918	9.3	6,510	1944	Apr. 12, 1944	26.85	5,370
1919	Mar. 16, 1919	10.3	7,640	1945	Mar. 6, 1945	27.55	6,360
1920	Apr. 21, 1920	11.0	8,480				
				1946	Feb. 14, 1946	26.71	5,250
1921	Mar. 29, 1921	8.5	5,630	1947	June 2, 1947	27.98	7,040
1922	Apr. 15, 1922	8.9	6,070	1948	Feb. 14, 1948	27.21	5,870
1923	Mar. 16, 1923	7.2	4,270	1949	Jan. 5, 1949	28.27	7,520
				1950	Jan. 16, 1950	27.79	6,740
1927	Apr. 5, 1927	26.2	5,400				
1928	Dec. 1, 1927	27.05	6,410	1951	Feb. 21, 1951	27.63	6,690
1929	Feb. 27, 1929	27.9	7,640	1952	Jan. 27, 1952	28.76	8,790
1930	Jan. 10, 1930	27.33	6,800	1953	Mar. 4, 1953	23.9	2,610
				1954	Apr. 17, 1954	22.27	1,420
1931	Apr. 3, 1931	23.39	2,470	1955	Mar. 22, 1955	25.36	3,970
1932	Jan. 17, 1932	26.31	5,520				
1933	Dec. 31, 1932	27.69	7,350	1956	Nov. 17, 1955	28.05	7,340
1934	Mar. 27, 1934	24.25	3,370	1957	Apr. 4, 1957	28.26	7,860
1935	May 3, 1935	25.18	4,370	1958	June 11, 1958	27.78	7,010
				1959	Jan. 22, 1959	29.19	8,590
1936	Feb. 26, 1936	26.12	4,790	1960	Feb. 10, 1960	23.84	2,970
1937	Jan. 15, 1937	28.55	7,890				
1938	Mar. 16, 1938	27.18	6,150	1961	Apr. 26, 1961	27.35	6,300

a Computed by Miami Conservancy District.

2735. Fourmile Creek near Hamilton, Ohio
(Formerly published as "Talawanda Creek")

Location.--Lat 39°27'30", long 84°32'50", 0.9 mile downstream from Sevenmile Creek, 1¾ miles south of village of Sevenmile, 3 miles upstream from mouth, and 4 miles north of Hamilton, Butler County.

Drainage area.--311 sq mi.

Gage.--Recording prior to May 18, 1948; nonrecording thereafter. Datum of gage is 590.0 ft above mean sea level, adjustment of 1912. At site 1,000 ft downstream at datum 2.5 ft lower prior to May 1, 1939.

Stage-discharge relation.--Defined by current-meter measurements below 17,700 cfs, and contracted-opening measurement at 44,500 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Fourmile Creek near Hamilton, Ohio

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 16, 1938	19.0	13,500	1950	Jan. 16, 1950	-	a19,000
1939	Apr. 15, 1939	19.8	15,500				
1940	Apr. 20, 1940	15.8	12,400	1951	Nov. 20, 1950	19.0	19,200
				1952	Jan. 26, 1952	20.2	26,300
1941	June 2, 1941	12.3	4,710	1953	Mar. 4, 1953	15.4	6,400
1942	Sept. 8, 1942	15.7	12,200	1954	July 21, 1954	14.2	4,240
1943	Mar. 19, 1943	18.7	22,700	1955	July 17, 1955	16.4	8,800
1944	Apr. 11, 1944	15.52	11,600				
1945	Mar. 6, 1945	17.83	19,000	1956	Nov. 16, 1955	18.76	16,600
1946	Feb. 13, 1946	15.93	12,700	1957	May 22, 1957	18.35	16,100
1947	June 2, 1947	17.61	18,300	1958	June 13, 1958	17.4	13,300
1948	Mar. 27, 1948	17.13	16,500	1959	Jan. 21, 1959	21.40	44,500
1949	Jan. 4, 1949	21.0	33,500	1960	June 30, 1960	16.9	12,000

a Estimated.

2740. Miami River at Hamilton, Ohio

Location.--Lat 39°23'28", long 84°34'20", 1,000 ft downstream from Columbia Bridge at Hamilton, Butler County, and 3 miles downstream from Fourmile Creek.

Drainage area.--3,639 sq mi. At site used 1907-27, 3,630 sq mi.

Gage.--Nonrecording prior to Apr. 12, 1927; recording thereafter. Datum of gage is 499.98 ft above mean sea level, adjustment of 1912. At site 0.7 mile upstream at datum 564.63 ft above mean sea level prior to Aug. 1, 1921. At present site at datum 560.00 ft above mean sea level Aug. 1, 1921, to Apr. 11, 1927.

Stage-discharge relation.--Defined by current-meter measurements below 66,000 cfs prior to Aug. 1, 1921; below 74,000 cfs and extended on basis of slope-area measurement at 108,000 cfs thereafter.

Bankfull stage.--79 ft.

Remarks.--Flow regulated by five retarding basins (combined capacity, 841,000 acre-ft) since 1920. Base data furnished by Miami Conservancy District. Gage heights for period Aug. 1, 1921, to Apr. 11, 1927, from reports of U.S. Weather Bureau. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1898	Mar. 24, 1898	21.2	-	1934	Mar. 3, 1934	65.74	14,800
				1935	May 3, 1935	67.43	20,600
1907	Mar. 14, 1907	20.3	82,200				
1908	Feb. 15, 1908	17.2	64,800	1936	Feb. 27, 1936	70.50	33,800
1909	May 10, 1909	9.8	28,500	1937	Jan. 22, 1937	76.33	73,900
1910	Mar. 1, 1910	17.4	65,900	1938	Mar. 16, 1938	72.97	49,000
				1939	Apr. 16, 1939	72.62	42,700
1911	Apr. 5, 1911	9.4	26,900	1940	Apr. 20, 1940	74.8	60,400
1912	Feb. 26, 1912	14.8	51,900				
1913	Mar. 26, 1913	38.5	a352,000	1941	June 2, 1941	62.9	7,040
1914	Mar. 28, 1914	9.8	25,800	1942	Feb. 7, 1942	69.3	25,700
1915	Feb. 2, 1915	10.6	31,200	1943	Mar. 19, 1943	76.6	78,800
				1944	Apr. 11, 1944	71.5	36,000
1916	Feb. 1, 1916	15.5	55,000	1945	Mar. 6, 1945	74.90	61,800
1917	Mar. 13, 1917	11.80	37,000				
1918	May 13, 1918	12.4	39,900	1946	Feb. 14, 1946	68.90	26,000
1919	Mar. 17, 1919	13.8	-	1947	June 2, 1947	73.83	50,900
1920	Apr. 21, 1920	14.1	-	1948	Feb. 14, 1948	73.85	50,900
				1949	Jan. 24, 1949	72.65	42,200
1921	Mar. 28. 1921	14.6	-	1950	Feb. 14, 1950	74.38	56,100
1922	Apr. 15, 1922	15.1	-				
1923	Mar. 16, 1923	8.4	-	1951	Feb. 21, 1951	74.08	53,400
1924	June 10, 1924	13.2	-	1952	Jan. 27, 1952	75.95	71,600
1925	Sept.13, 1925	10.2	-	1953	May 23, 1953	65.63	17,300
				1954	Mar. 31, 1954	62.56	9,100
1926	Aug. 19, 1926	12.0	-	1955	Mar. 22, 1955	67.78	25,800
1927	Mar. 21, 1927	14.2	-				
1928	Nov. 30, 1927	72.5	40,800	1956	Nov. 16, 1955	69.6	31,900
1929	Feb. 26, 1929	76.5	70,300	1957	Apr. 4, 1957	72.73	49,600
1930	Jan. 10, 1930	75.8	64,700	1958	June 15, 1958	72.06	46,600
				1959	Jan. 21, 1959	79.49	108,000
1931	Apr. 3, 1931	66.77	14,500	1960	Feb. 10, 1960	64.73	18,500
1932	Jan. 17, 1932	71.65	35,300				
1933	May 13, 1933	75.01	63,000	1961	May 8, 1961	73.42	57,600

a Computed by Miami Conservancy District.

2741. Blake Run near Reily, Ohio

Location.--Lat 39°27'58", long 84°45'19", 600 ft upstream from culvert on Stevenson Road, 2.2 miles north of Reily, Butler County, and 3 miles upstream from mouth.

Drainage area.--0.29 sq mi (187 acres). Length of main stream, 0.86 mile; average slope main stream, 107 ft per mile; average slope main stream and upper reach, 89 ft per mile; slope at gage, 30 ft per mile; length divided by average width of basin, 2.52.

Gage.--Recording. Datum of gage is 901.5 ft above mean sea level (approximate).

Stage-discharge relation.--Defined by current-meter measurements below 22 cfs and extended on basis of laboratory rating of concrete control by Soil Conservation Service.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	July 4, 1939	-	a96	1952	Mar. 22, 1952	2.98	45
1940	Apr. 19, 1940	-	a36	1953	July 9, 1953	2.98	45
				1954	July 20, 1954	3.14	56
1942	Sept. 7, 1942	-	a58	1955	Mar. 4, 1955	3.45	80
1943	May 17, 1943	-	a96				
				1956	Apr. 3, 1956	3.66	100
1947	Aug. 21, 1947	b4.0	b144	1957	May 31, 1957	4.27	192
1948	Feb. 13, 1948	3.63	97	1958	July 20, 1958	3.70	104
1949	Jan. 4, 1949	3.67	101	1959	Jan. 21, 1959	3.42	77
1950	Sept.21, 1950	3.30	67	1960	June 30, 1960	4.76	307
1951	Nov. 20, 1950	3.12	54	1961	June 14, 1961	4.25	188

a From records of Soil Conservation Service.
b Estimated.

2745. Miami River at Venice, Ohio

Location.--Lat 39°18'15", long 84°38'35", at highway bridge three-quarters of a mile southeast of Venice, in Hamilton County, and 1.4 miles downstream from Indian Creek.

Drainage area.--3,790 sq mi.

Gage.--Nonrecording. Datum of gage is 520.22 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Bankfull stage.--25 ft.

Remarks.--Flow regulated by five retarding basins (combined capacity, 841,000 acre-ft) since 1920. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a38.0	b370,000	1922	Apr. 15, 1922	22.9	51,300
				1923	Mar. 16, 1923	12.8	20,600
1916	Feb. 1, 1916	23.1	52,300	1924	June 10, 1924	19.75	42,000
1917	Mar. 14, 1917	17.74	35,600	1925	Sept.13, 1925	12.5	20,400
1918	Feb. 13, 1918	18.72	38,600				
1919	Mar. 17, 1919	22.81	51,400	1926	Aug. 19, 1926	17.65	35,400
1920	Apr. 21, 1920	24.65	56,900	1927	Mar. 21, 1927	20.3	43,600
1921	Mar. 28, 1921	21.3	46,200				

a Maximum stage known.
b Estimated.

2750. Whitewater River near Alpine, Ind.

Location.--Lat 39°34'23", long 85°09'27", in sec.14, T.13 N., R.12 E., on right bank 500 ft downstream from highway bridge, 0.4 mile downstream from Wilson Creek, 1.6 miles northeast of Alpine, and 4.7 miles upstream from Bear Creek.

Drainage area.--539 sq mi.

Gage.--Nonrecording prior to Nov. 9, 1928; recording thereafter. Datum of gage is 750.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--13 ft.

Historical data.--Flood of September 1866 at Connersville, 6 miles upstream, was higher than ever before known, exceeding stage of 1847 flood by 3 ft, according to the Indianapolis Journal. Flood of March 1913 was 3.5 ft higher than the flood of Feb. 14, 1950, at site 2,700 ft upstream from gage, from relative heights of floodmarks indicated by local resident.

Remarks.--Base for partial-duration series, 6,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Jan. 19, 1929	12.71	12,200	1944	Mar. 7, 1944	12.20	9,100
	Jan. 25, 1929	11.24	11,000		Apr. 8, 1944	12.10	8,920
	Feb. 26, 1929	14.80	20,900		Apr. 11, 1944	15.57	24,800
	Apr. 10, 1929	10.44	7,700				
	June 16, 1929	9.75	6,820	1945	Mar. 7, 1945	12.28	9,360
	July 1, 1929	14.78	19,700		Mar. 20, 1945	11.37	7,520
					Apr. 2, 1945	11.24	7,150
1930	Dec. 18, 1929	10.73	8,170		June 18, 1945	13.59	12,400
	Jan. 9, 1930	12.75	12,400		Sept.28, 1945	11.11	6,970
	Jan. 13, 1930	12.89	12,700				
	Feb. 26, 1930	9.94	6,960	1946	Feb. 14, 1946	11.10	6,970
1931	Apr. 3, 1931	7.33	3,580	1947	Jan. 31, 1947	12.04	8,710
					May 2, 1947	12.45	9,810
1932	June 27, 1932	10.81	7,870		June 2, 1947	14.62	17,200
1933	Dec. 31, 1932	13.32	13,900	1948	Jan. 2, 1948	11.03	6,820
	Jan. 22, 1933	11.60	9,600		Feb. 14, 1948	13.12	11,200
	Mar. 19, 1933	11.92	10,400		Mar. 27, 1948	12.97	11,000
	Apr. 18, 1933	12.10	10,700		Apr. 6, 1948	13.10	11,200
	May 11, 1933	10.58	7,980				
	May 14, 1933	14.76	19,200	1949	Nov. 19, 1948	10.91	6,610
					Jan. 5, 1949	16.53	32,900
1934	Mar. 27, 1934	8.68	3,730		Jan. 19, 1949	12.40	9,360
					Jan. 28, 1949	12.01	8,480
1935	May 3, 1935	9.54	5,080		Feb. 15, 1949	13.10	11,300
					Mar. 27, 1949	14.08	14,600
1936	Feb. 27, 1936	-	a7,200				
				1950	Jan. 4, 1950	14.67	17,900
1937	Jan. 14, 1937	16.61	35,000		Jan. 10, 1950	13.43	12,200
	Jan. 18, 1937	12.64	10,900		Jan. 16, 1950	14.83	18,600
	Jan. 21, 1937	15.24	21,900		Jan. 24, 1950	11.03	7,070
	Jan. 25, 1937	12.00	9,340		Jan. 27, 1950	13.73	13,100
					Feb. 14, 1950	15.04	20,000
1938	Dec. 18, 1937	12.06	9,590		Mar. 28, 1950	11.41	7,410
	Mar. 16, 1938	12.93	11,600		Apr. 5, 1950	11.97	8,480
	Apr. 1, 1938	10.88	6,860		Sept.22, 1950	10.87	6,580
	Apr. 7, 1938	13.59	13,500				
	June 26, 1938	11.28	7,720	1951	Nov. 21, 1950	13.69	13,400
	July 3, 1938	12.19	9,840		Dec. 4, 1950	13.24	11,600
	Sept.10, 1938	11.38	7,940		Jan. 15, 1951	11.31	7,240
					Feb. 12, 1951	11.25	7,070
1939	Mar. 12, 1939	11.51	8,320		Feb. 21, 1951	15.10	21,800
	Apr. 16, 1939	14.30	15,400				
				1952	Dec. 7, 1951	11.13	6,900
1940	Apr. 20, 1940	11.70	8,530		Jan. 27, 1952	15.92	28,500
					Feb. 4, 1952	10.87	6,580
1941	June 12, 1941	7.30	1,900		Mar. 11, 1952	11.45	7,410
1942	Feb. 7, 1942	12.20	9,760	1953	Mar. 4, 1953	10.29	5,820
	Mar. 9, 1942	10.73	6,740				
				1954	Mar. 30, 1954	8.80	3,770
1943	Mar. 17, 1943	13.38	12,000				
	Mar. 20, 1943	15.50	24,000	1955	Jan. 6, 1955	9.45	4,560
	May 18, 1943	11.33	7,390				

a Daily mean discharge, estimated.

Peak stages and discharges of Whitewater River near Alpine, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Nov. 16, 1955	14.38	16,400	1958	Aug. 3, 1958	14.12	14,900
	Feb. 26, 1956	14.58	17,600				
	Apr. 3, 1956	10.80	6,520	1959	Jan. 21, 1959	16.14	31,600
					Feb. 10, 1959	14.03	14,400
1957	Apr. 4, 1957	12.77	10,300				
	May 22, 1957	-	b7,400	1960	Feb. 10, 1960	10.67	6,380
	June 29, 1957	14.32	15,900				
				1961	Mar. 6, 1961	10.26	6,580
1958	Dec. 19, 1957	11.88	8,320		Apr. 23, 1961	10.64	7,010
	May 6, 1958	12.10	8,730		Apr. 26, 1961	14.99	20,300
	June 10, 1958	13.71	13,200		May 8, 1961	11.75	9,000
	June 14, 1958	14.85	18,900				

b About.

2755. East Fork Whitewater River at Richmond, Ind.

Location.--Lat 39°48'24", long 84°54'26", in SE¼ sec.7, T.13 N., R.1 W., on left bank 50 ft downstream from highway bridge, three-quarters of a mile south of Richmond, and 2 miles upstream from Short Creek.

Drainage area.--123 sq mi.

Gage.--Nonrecording prior to July 27, 1949; recording thereafter. Datum of gage is 854.01 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs and extended on basis of slope-area measurement at 13,500 cfs and contracted-opening measurement at 14,100 cfs.

Bankfull stage.--10 ft.

Historical data.--Flood of September 1866 was reported by the Indianapolis Journal to be higher than ever before known. Flood of March 1913 is the maximum stage known, according to information by local residents.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a15.0	-	1955	Feb. 21, 1955	6.07	2,540
1950	Jan. 4, 1950	9.50	6,550	1956	Nov. 16, 1955	10.70	8,200
	Jan. 10, 1950	9.84	7,150		Feb. 18, 1956	5.18	2,100
	Jan. 15, 1950	12.49	13,500		Feb. 25, 1956	8.60	5,220
	Jan. 24, 1950	6.92	3,010		Apr. 3, 1956	6.28	2,980
	Jan. 26, 1950	8.43	4,680				
	Feb. 14, 1950	9.06	5,750	1957	Apr. 4, 1957	7.65	4,150
	Mar. 27, 1950	6.50	2,650		May 22, 1957	5.87	2,660
	Apr. 4, 1950	8.48	4,800		June 28, 1957	10.54	7,800
	Sept.22, 1950	7.46	3,600				
				1958	Dec. 20, 1957	6.44	3,070
1951	Nov. 20, 1950	10.82	9,250		Dec. 26, 1957	6.60	3,250
	Dec. 3, 1950	8.95	5,650		Jan. 21, 1958	5.16	2,100
	Jan. 3, 1951	5.68	2,130		May 6, 1958	7.62	4,150
	Jan. 14, 1951	6.61	2,840		June 10, 1958	10.57	8,000
	Feb. 12, 1951	6.05	2,360		June 13, 1958	10.72	8,200
	Feb. 20, 1951	10.70	9,000		July 13, 1958	6.74	3,430
	June 28, 1951	5.65	2,130		Aug. 2, 1958	11.59	10,400
1952	Dec. 7, 1951	9.23	6,150	1959	Jan. 21, 1959	12.44	14,100
	Dec. 9, 1951	7.57	3,820		Feb. 10, 1959	10.15	7,820
	Jan. 26, 1952	10.66	9,250		Feb. 14, 1959	5.98	2,740
	Feb. 4, 1952	5.42	2,170				
	Mar. 11, 1952	6.85	3,330	1960	Feb. 10, 1960	5.24	2,100
	Mar. 22, 1952	5.27	2,090				
	June 27, 1952	5.61	2,330	1961	Mar. 5, 1961	5.08	2,020
					Apr. 22, 1961	6.89	3,520
1953	Mar. 4, 1953	5.30	2,180		Apr. 25, 1961	9.24	6,120
	May 17, 1953	5.31	2,180		May 8, 1961	5.56	2,420
	May 22, 1953	6.53	3,160		June 8, 1961	6.55	3,250
1954	Mar. 30, 1954	3.86	1,160				

a From floodmarks, annual peak only.

2760. East Fork Whitewater River at Brookville, Ind.

Location.--Lat 39°26'00", long 85°00'11", NE¼NE¼ sec.20, T.9 N., R.2 W., on right bank 65 ft downstream from bridge on State Highway 101, 0.9 mile northeast of Brookville, and 1.8 miles upstream from mouth.

Drainage area.--382 sq mi.

Gage.--Nonrecording prior to May 22, 1954; recording thereafter. Datum of gage is 623.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	June 16, 1954	7.00	5,500	1958	June 10, 1958	10.26	11,600
					June 14, 1958	10.10	11,200
1955	Sept.29, 1955	6.75	5,140		June 19, 1958	6.65	4,780
					July 8, 1958	6.56	4,780
1956	Nov. 16, 1955	11.42	14,100		July 20, 1958	10.46	12,000
	Feb. 18, 1956	6.58	4,780		July 22, 1958	6.48	4,600
	Feb. 26, 1956	7.28	6,040		Aug. 2, 1958	10.46	12,000
	Apr. 3, 1956	8.55	8,380				
	June 20, 1956	7.04	5,500	1959	Jan. 21, 1959	16.50	36,100
	July 3, 1956	7.08	5,680		Feb. 10, 1959	10.68	16,600
					Feb. 14, 1959	6.75	8,140
1957	Apr. 3, 1957	9.67	10,400		May 12, 1959	5.00	4,600
	May 22, 1957	9.94	10,800				
	June 29, 1957	8.59	8,380	1960	June 23, 1960	5.34	5,170
1958	Dec. 20, 1957	7.29	6,040	1961	Mar. 6, 1961	5.22	4,980
	Dec. 26, 1957	6.65	4,780		Apr. 26, 1961	9.24	13,300
	May 6, 1958	9.40	9,820		May 8, 1961	9.78	14,700

2765. Whitewater River at Brookville, Ind.

Location.--Lat 39°24'24", long 85°00'45", in NW¼ sec.32, T.9 N., R.2 W., on right bank at downstream side of highway bridge, 0.3 mile downstream from East Fork and 1.1 miles south of Brookville.

Drainage area.--1,239 sq mi.

Gage.--Nonrecording June 8, 1915, to May 15, 1920, at datum 1.7 ft higher than present datum; nonrecording July 23, 1923, to Sept. 27, 1928, and recording thereafter, both at present datum. Datum of gage is 595.54 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 45,000 cfs and contracted-opening measurement at 82,000 cfs.

Bankfull stage.--20 ft (U.S. Weather Bureau).

Historical data.--Old accounts in the Indianapolis Journal state that during the flood of 1847 "Whitewater River was 10 or 11 ft higher near Brookville than in 33 years, 3 ft higher than in 1813, and the greatest flood yet known". Flood of September 1866 probably exceeded that of January 1847, although no definite information is available. The greatest known flood is that of Mar. 25, 1913.

Remarks.--Base data for 1916-20 furnished by Corps of Engineers. Gage heights for 1924-27 furnished by Indiana Department of Conservation. Base for partial-duration series, 12,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a39.0	-	1917	Mar. 13, 1917	14.0	28,300
					June 5, 1917	9.5	15,600
1916	Jan. 13, 1916	11.4	20,500				
	Jan. 31, 1916	17.6	40,100	1918	May 13, 1918	10.1	17,100
	Apr. 21, 1916	9.4	15,300				
				1919	Mar. 17, 1919	16.4	35,700
1917	Jan. 5, 1917	9.6	15,800		Apr. 16, 1919	8.2	12,400

a From floodmarks, present datum; annual peak only.

Peak stages and discharges of Whitewater River at Brookville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Apr. 20, 1920	19.2	b45,700
1924	Jan. 10, 1924	13.2	20,800
	Mar. 29, 1924	14.8	25,500
	June 10, 1924	9.8	12,100
	June 27, 1924	15.2	26,700
1925	July 20, 1925	8.5	9,250
1926	Nov. 13, 1925	12.0	17,500
	Nov. 27, 1925	9.8	12,100
	Dec. 5, 1925	9.8	12,100
	Jan. 18, 1926	12.0	17,500
	Feb. 14, 1926	12.9	19,900
	Mar. 22, 1926	10.5	13,800
	Apr. 8, 1926	13.5	21,600
	Aug. 1, 1926	12.1	17,800
	Aug. 19, 1926	12.5	18,800
	Sept. 3, 1926	13.0	20,200
	Sept. 5, 1926	11.6	16,500
	Sept. 9, 1926	10.2	13,100
1927	Oct. 4, 1926	10.5	13,800
	Oct. 29, 1926	10.7	14,300
	Jan. 18, 1927	11.4	16,000
	Jan. 22, 1927	12.6	19,100
	Mar. 20, 1927	16.0	29,200
	Apr. 5, 1927	12.0	17,500
	May 18, 1927	10.0	12,600
1928	Dec. 1, 1927	15.05	28,400
	Dec. 14, 1927	12.3	19,500
	Feb. 5, 1928	11.3	16,400
	Apr. 22, 1928	11.1	15,800
1929	Jan. 19, 1929	18.18	40,000
	Jan. 25, 1929	15.4	29,800
	Feb. 26, 1929	25.56	69,200
	Apr. 10, 1929	12.79	21,100
	May 14, 1929	11.38	16,700
	May 19, 1929	10.80	14,900
	June 16, 1929	13.48	23,300
	July 1, 1929	17.00	35,600
1930	Dec. 18, 1929	10.9	14,400
	Jan. 10, 1930	16.5	30,700
	Jan. 13, 1930	16.1	29,500
	Feb. 12, 1930	10.4	13,100
	Feb. 26, 1930	10.2	12,600
1931	Apr. 4, 1931	9.65	11,600
1932	Dec. 13, 1931	11.98	17,300
	Jan. 17, 1932	13.90	24,700
	Mar. 22, 1932	12.9	21,400
	June 27, 1932	13.02	20,200
1933	Dec. 31, 1932	18.47	37,200
	Jan. 22, 1933	14.87	25,800
	Mar. 18, 1933	19.31	39,900
	Apr. 18, 1933	16.72	31,400
	May 14, 1933	18.07	35,900
1934	Dec. 17, 1933	10.20	13,200
1935	May 3, 1935	11.87	18,200
1936	Feb. 14, 1936	11.06	15,000
	Feb. 27, 1936	11.12	15,000
	Apr. 6, 1936	11.33	15,500
	Sept. 3, 1936	11.50	17,000
1937	Nov. 3, 1936	11.32	14,200
	Jan. 15, 1937	22.80	52,200
	Jan. 18, 1937	16.44	29,500
	Jan. 21, 1937	22.44	50,700
	Jan. 25, 1937	16.28	30,100
1938	Dec. 17, 1937	12.50	18,800
	Mar. 16, 1938	14.10	23,400
	Apr. 7, 1938	12.20	18,000
1939	Feb. 28, 1939	10.79	14,100
	Mar. 11, 1939	11.58	16,000
	Apr. 16, 1939	17.44	30,400
1940	Feb. 10, 1940	10.52	13,400
	Feb. 18, 1940	10.65	13,700
	Apr. 20, 1940	19.19	36,100
1941	June 3, 1941	5.14	3,030
1942	Feb. 7, 1942	13.50	20,400
	Feb. 17, 1942	10.82	14,100
1943	Nov. 18, 1942	11.92	16,000
	Mar. 16, 1943	19.75	39,200
	Mar. 19, 1943	22.37	52,000
1944	Apr. 8, 1944	11.02	14,000
	Apr. 12, 1944	16.40	26,900
1945	Mar. 3, 1945	12.96	18,400
	Mar. 6, 1945	19.22	36,900
	Mar. 20, 1945	15.12	22,600
	Apr. 2, 1945	12.08	14,400
	Apr. 17, 1945	12.71	16,100
	June 13, 1945	11.12	12,400
	June 18, 1945	15.60	24,100
1946	Feb. 14, 1946	14.60	21,100
1947	Jan. 30, 1947	13.40	17,800
	Apr. 25, 1947	13.18	17,300
	Apr. 30, 1947	10.92	12,000
	May 2, 1947	12.85	16,500
	May 18, 1947	13.51	18,100
	June 2, 1947	19.64	38,600
1948	Feb. 14, 1948	17.45	31,800
	Mar. 27, 1948	19.08	37,800
	Apr. 6, 1948	12.29	16,700
	Apr. 12, 1948	11.68	15,200
1949	Nov. 19, 1948	12.02	15,900
	Dec. 15, 1948	10.76	13,000
	Jan. 5, 1949	24.15	61,200
	Jan. 19, 1949	14.19	21,900
	Jan. 24, 1949	17.26	31,400
	Jan. 28, 1949	14.76	23,700
	Feb. 15, 1949	16.90	30,000
	Mar. 27, 1949	13.19	19,100
	June 16, 1949	11.33	14,200
	July 21, 1949	13.84	21,000
1950	Jan. 4, 1950	19.53	39,200
	Jan. 6, 1950	15.30	25,200
	Jan. 10, 1950	17.94	33,600
	Jan. 14, 1950	11.03	13,500
	Jan. 16, 1950	19.65	39,600
	Jan. 24, 1950	12.54	17,200
	Jan. 26, 1950	14.34	22,200
	Feb. 9, 1950	13.30	19,300
	Feb. 14, 1950	21.00	45,200
	Mar. 28, 1950	11.63	14,900
	Apr. 4, 1950	15.29	25,200
1951	Nov. 20, 1950	17.04	30,400
	Dec. 3, 1950	15.02	24,300
	Jan. 4, 1951	12.07	16,200
	Jan. 15, 1951	14.00	21,300
	Feb. 12, 1951	11.30	14,200
	Feb. 21, 1951	17.90	33,600
	Mar. 29, 1951	11.05	13,500
1952	Jan. 27, 1952	24.15	61,200
	Feb. 4, 1952	11.04	13,700
	Mar. 11, 1952	11.45	14,400
	Mar. 22, 1952	13.71	20,500
	May 24, 1952	10.48	12,300
1953	Mar. 4, 1953	10.40	12,600
	July 6, 1953	10.75	13,500

b Annual peak only.

Peak stages and discharges of Whitewater River at Brookville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	June 16, 1954	5.91	4,660	1958	June 11, 1958	14.27	22,500
					June 14, 1958	16.42	28,600
1955	Feb. 27, 1955	10.21	12,100		July 20, 1958	11.46	15,200
					July 22, 1958	11.17	14,500
1956	Nov. 16, 1955	18.31	35,000		Aug. 3, 1958	15.14	24,700
	Feb. 18, 1956	10.40	12,600				
	Feb. 26, 1956	11.83	16,000	1959	Jan. 21, 1959	27.78	81,800
	Apr. 4, 1956	14.94	24,100		Feb. 10, 1959	18.00	33,900
	May 28, 1956	13.16	19,500		Feb. 14, 1959	13.21	19,500
1957	Apr. 4, 1957	18.40	35,300	1960	June 23, 1960	13.52	20,400
	May 22, 1957	18.26	35,000				
	June 29, 1957	12.34	17,200	1961	Mar. 6, 1961	11.06	14,200
					Mar. 13, 1961	13.32	19,800
1958	Dec. 20, 1957	14.49	23,000		Apr. 25, 1961	16.83	29,800
	Dec. 26, 1957	11.07	14,200		May 8, 1961	20.20	42,000
	May 6, 1958	15.62	26,200				

LAUGHERY CREEK BASIN

2770. Laughery Creek near Farmers Retreat, Ind.

Location.--Lat 38°57'05", long 85°04'22", in sec.2, T.4 N., R.3 W., on right bank 2 miles southeast of Farmers Retreat and 3¾ miles downstream from Bear Creek.

Drainage area.--248 sq mi.

Gage.--Nonrecording prior to Apr. 16, 1941; recording thereafter. Altitude of gage is 526 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended on basis of slope-area measurement at 47,800 cfs.

Bankfull stage.--13 ft.

Historical data.--Flood of 1897 reached a stage of about 18 ft and is the highest known flood prior to 1959, from information by local residents.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 9,10,1941	9.62	3,960	1949	Jan. 27, 1949	12.60	7,600
					Feb. 15, 1949	13.87	10,800
1942	Apr. 9, 1942	13.91	10,800		Mar. 27, 1949	12.39	7,270
					June 16, 1949	12.86	8,190
1943	Mar. 16, 1943	12.25	7,620				
	Mar. 19, 1943	14.50	12,900	1950	Jan. 4, 1950	14.12	11,500
					Jan. 15, 1950	13.52	9,660
1944	Apr. 11, 1944	13.16	8,880		Feb. 8, 1950	15.03	14,800
	May 17, 1944	11.51	6,090		Feb. 14, 1950	14.10	11,500
					Apr. 4, 1950	12.40	7,270
1945	Feb. 26, 1945	13.93	10,800				
	Mar. 2, 1945	13.41	9,390	1951	Nov. 20, 1950	13.54	9,660
	Mar. 6, 1945	15.54	17,000		Dec. 3, 1950	12.52	7,430
	Mar. 20, 1945	13.53	9,660		Jan. 3, 1951	13.50	9,660
	June 17, 1945	11.89	6,590		Jan. 14, 1951	13.27	9,130
1946	Feb. 13, 1946	12.78	7,980	1952	Jan. 26, 1952	13.17	8,880
					Mar. 10, 1952	13.46	9,660
1947	Jan. 2, 1947	12.20	6,980				
	Apr. 20, 1947	13.14	8,640	1953	May 17, 1953	9.44	3,960
	May 21, 1947	12.29	7,120				
	May 25, 1947	14.62	13,300	1954	May 3, 1954	3.99	640
	June 2, 1947	13.57	9,940				
	July 13, 1947	11.83	6,460	1955	Feb. 22, 1955	12.29	7,120
					Feb. 27, 1955	13.68	10,200
1948	Feb. 13, 1948	12.20	6,980		Mar. 21, 1955	13.88	10,800
	Mar. 28, 1948	11.86	6,590				
	Apr. 12, 1948	13.01	8,410	1956	Nov. 15, 1955	11.97	6,720
					Feb. 25, 1956	12.22	6,980
1949	Dec. 15, 1948	12.43	7,270		May 28, 1956	14.45	12,500
	Jan. 4, 1949	14.29	12,200				
	Jan. 24, 1949	15.23	15,700	1957	Apr. 4, 1957	14.95	14,800

Peak stages and discharges of Laughery Creek near Farmers Retreat, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	May 23, 1957	12.52	7,430	1960	June 23, 1960	18.23	29,000
	July 5, 1957	16.15	20,200				
				1961	Mar. 6, 1961	9.83	6,800
1958	Dec. 20, 1957	12.52	7,430		Mar. 13, 1961	9.81	6,800
	July 22, 1958	15.49	17,000		May 7, 1961	13.82	16,200
					June 2, 1961	9.48	6,280
1959	Jan. 21, 1959	21.13	47,800				

OHIO RIVER MAIN STEM

2772.1. Ohio River at Markland Dam, near Warsaw, Ky.

Location.--Lat 38°46'31", long 84°58'19", near downstream end of guard wall, 250 ft from left bank, 2,240 ft downstream from axis of dam, 2.1 miles downstream from Craigs Creek, 3.8 miles west of Warsaw, Gallatin County, and at mile 532.1.

Drainage area.--83,170 sq mi, approximately.

Gage.--Nonrecording prior to June 25, 1959; recording thereafter. Prior to Jan. 1, 1934, in lower pool at dam 39 (dam 39 was 860 ft downstream from present dam) at datum 5.0 ft higher than present datum. Jan. 1, 1934, to Dec. 31, 1936, in lower pool at dam 39 at datum 2.6 ft higher than present datum. Jan. 1, 1937, to June 24, 1959, in upper pool (pass sill gage) at dam 39 at datum 2.6 ft higher than present datum. Datum of present gage is 408.0 ft above mean sea level, Ohio River datum. Gage heights given herein converted to present datum and at listed stages are comparable.

Bankfull stage.--50.6 ft.

Remarks.--Only annual peak stages are shown. Records obtained from published U.S. Weather Bureau records prior to 1960. Most values of gage heights are maximum observed values. Due to characteristically flat crests, differences from momentary maximum gage heights are probably negligible.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 14, 1884	a64.8	-	1938	Apr. 14, 1938	41.0	-
				1939	Feb. 8, 1939	54.2	-
1913	Apr. 1, 1913	66.7	-	1940	Apr. 25, 1940	55.0	-
1916	Jan. 15, 1916	51.0	-	1941	June 10, 1941	33.2	-
1917	Mar. 18, 1917	51.1	-	1942	Mar. 20, 1942	42.3	-
1918	Feb. 13, 1918	49.8	-	1943	Mar. 23, 1943	55.4	-
1919	Jan. 6, 1919	48.3	-	1944	Apr. 16, 1944	46.0	-
1920	Mar. 23, 1920	51.3	-	1945	Mar. 8, 1945	65.2	-
1921	Mar. 11, 1921	39.7	-	1946	Jan. 13, 1946	44.6	-
1922	Dec. 27, 1921	51.9	-	1947	Jan. 24, 1947	39.2	-
1923	Feb. 6, 1923	46.1	-	1948	Apr. 18, 1948	60.2	-
1924	Jan. 7, 1924	52.4	-	1949	Jan. 29, 1949	49.3	-
1925	Feb. 19, 1925	39.9	-	1950	Feb. 6, 1950	55.7	-
1926	Jan.25,26,1926	43.2	-	1951	Dec. 11, 1950	51.3	-
1927	Jan. 27, 1927	54.5	-	1952	Feb. 2, 1952	52.6	-
1928	Dec. 21, 1927	45.5	-	1953	Mar. 7, 1953	35.7	-
1929	Mar. 4, 1929	48.6	-	1954	Mar. 7, 1954	29.2	-
1930	Jan. 15, 1930	40.4	-	1955	Mar. 10, 1955	56.4	-
1931	Apr. 8, 1931	40.7	-	1956	Mar. 19, 1956	50.2	-
1932	Feb. 4, 1932	48.6	-	1957	Apr. 12, 1957	48.7	-
1933	Mar. 23, 1933	58.6	-	1958	May 11, 1958	53.1	-
1934	Mar. 9, 1934	43.3	-	1959	Jan.26,27,1959	50.4	-
1935	Mar. 17, 1935	49.7	-	1960	Apr. 8, 1960	41.3	-
1936	Mar. 29, 1936	56.1	-	1961	May 10, 1961	52.5	-
1937	Jan. 26, 1937	76.1	-				

a Approximate; from floodmarks.

2773. North Fork Kentucky River at Whitesburg, Ky.

Location.--Lat 37°07'03", long 82°49'29", on brick wall of building at right downstream corner of bridge on State Highway 15 (Main Street) at Whitesburg, Letcher County, and 0.6 mile downstream from Solomon Branch.

Drainage area.--66.4 sq mi.

Gage.--Nonrecording, and crest-stage gage since Sept. 15, 1959. Datum of gage is 1,128.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended on basis of contracted-opening measurement at 7,730 cfs.

Bankfull stage.--14 ft.

Historical data.--Flood of May 1927 reached a stage of 14.35 ft, from flood-marks. Flood of July 1942 was higher than the flood of May 1927, but lower than the flood of January 1957, from information by local resident.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 29, 1957	14.7	7,730	1960	Nov. 28, 1959	6.92	2,060
1958	May 7, 1958	8.75	3,150				
1959	Jan. 22, 1959	6.40	1,800	1961	Feb. 25, 1961	4.84	1,090

2775. North Fork Kentucky River at Hazard, Ky.

Location.--Lat 37°14'45", long 83°11'00", near right bank on downstream side of Woodland Park bridge on eastern limits of Hazard, Perry County, 150 ft upstream from city waterworks dam and 4.0 miles upstream from Lotts Creek.

Drainage area.--466 sq mi.

Gage.--Nonrecording and, since January 1951, crest-stage gage. Prior to January 1940, records are from U.S. Weather Bureau at site 0.8 mile downstream at different datum. Gage heights given herein converted to present site and datum. Datum of gage is 839.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended on basis of approximate contracted-opening measurement at 47,800 cfs.

Bankfull stage.--20 ft.

Remarks.--Base for partial-duration series, 7,500 cfs. Only annual peaks are shown prior to 1947.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	May 30, 1927	a34	-	1946	Jan. 8, 1946	26.55	27,400
1928	May 20, 1928	8.8	-				
1929	Mar. 23, 1929	23.5	-	1947	Jan. 3, 1947	11.35	9,260
1930	Nov. 18, 1929	10.2	-		Jan. 20, 1947	12.55	10,800
					Aug. 5, 1947	25.94	26,700
1931	Apr. 23, 1931	13.2	-				
1932	Jan. 30, 1932	21.5	-	1948	Feb. 13, 1948	19.20	18,900
1933	Mar. 19, 1933	12.0	-		Mar. 16, 1948	12.40	11,800
1934	Mar. 3, 1934	19.5	-		Mar. 27, 1948	10.18	8,360
1935	Mar. 12, 1935	22.3	-		Apr. 14, 1948	11.20	9,920
1936	Apr. 6, 1936	16.8	-	1949	Jan. 22, 1949	10.18	8,330
1937	Jan. 25, 1937	13.7	-		Mar. 18, 1949	16.90	16,300
1938	Mar. 3, 1938	8.1	-				
1939	Feb. 3, 1939	29.95	-	1950	Dec. 13, 1949	14.00	13,000
1940	Apr. 20, 1940	9.58	7,150		Feb. 2, 1950	16.5	15,800
					May 13, 1950	11.85	11,000
1941	July 5, 1941	7.10	3,750		May 15, 1950	11.42	10,300
1942	July 8, 1942	21.75	21,900				
1943	Dec. 30, 1942	17.75	17,300	1951	Dec. 4, 1950	9.9	7,900
1944	Feb. 18, 1944	17.9	17,400		Dec. 7, 1950	10.4	8,670
1945	Feb. 17, 1945	16.5	15,800		Feb. 1, 1951	27.2	28,100

a About.

Peak stages and discharges of North Fork Kentucky River at Hazard, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 15, 1951	12.6	12,200	1956	Mar. 14, 1956	20.71	20,700
	Dec. 21, 1951	13.4	13,500		Apr. 6, 1956	10.98	9,170
	Jan. 22, 1952	13.48	13,600		Apr. 16, 1956	21.29	21,300
	Jan. 28, 1952	9.77	7,690				
	Mar. 4, 1952	9.7	7,580	1957	Jan. 29, 1957	37.54	47,800
	Mar. 23, 1952	13.6	13,800		Feb. 2, 1957	11.13	8,970
					Feb. 10, 1957	12.52	10,800
1953	May 7, 1953	10.11	8,220				
	May 19, 1953	23.88	24,300	1958	Apr. 28, 1958	10.18	7,730
					May 7, 1958	19.18	19,700
1954	Jan. 16, 1954	10.9	9,440				
				1959	Jan. 22, 1959	17.99	18,000
1955	Feb. 27, 1955	18.25	17,800		June 2, 1959	15.60	14,800
	Mar. 1, 1955	14.3	13,300				
	Mar. 6, 1955	20.16	20,000	1960	Nov. 28, 1959	14.20	13,000
	Mar. 16, 1955	18.5	18,100				
	Mar. 22, 1955	17.5	17,000	1961	Feb. 23, 1961	10.00	7,500
					Feb. 25, 1961	10.20	7,760
1956	Feb. 18, 1956	24.00	24,400		Mar. 8, 1961	10.14	7,680
	Mar. 8, 1956	16.13	15,400				

2780. Bear Branch near Noble, Ky.

Location.--Lat 37°27'02", long 83°11'43", on right bank 800 ft upstream from mouth, a quarter of a mile west of Noble, Breathitt County, and 3½ miles north of Stacy.

Drainage area.--2.21 sq mi.

Gage.--Recording. Datum of gage is 807.81 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs.

Bankfull stage.--3 ft.

Remarks.--Base for partial-duration series, 180 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 27, 1955	2.76	265	1958	Apr. 27, 1958	a2.45	190
	Mar. 1, 1955	2.47	192		May 7, 1958	a2.6	230
	Mar. 16, 1955	2.86	290				
	Mar. 21, 1955	2.60	225	1959	Apr. 12, 1959	2.12	107
1956	Feb. 18, 1956	3.01	328	1960	July 1, 1960	2.27	142
	Mar. 14, 1956	2.67	242				
	Apr. 15, 1956	2.55	212	1961	Apr. 26, 1961	2.65	238
					July 30, 1961	2.70	250
1957	Jan. 29, 1957	3.20	375				

a About.

2785. Troublesome Creek at Noble, Ky.

Location.--Lat 37°26'36", long 83°13'06", on left bank adjacent to State Highway 15, 0.2 mile downstream from Buckhorn Creek, 1.5 miles west of Noble, Breathitt County, and 14 miles upstream from mouth.

Drainage area.--177 sq mi.

Gage.--Recording. Datum of gage is 768.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,600 cfs.

Remarks.--Base for partial-duration series, 3,500 cfs. Only annual peak shown for 1950.

Peak stages and discharges of Troublesome Creek at Noble, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	February 1939	a29	-	1956	Feb. 18, 1956	19.61	9,350
					Mar. 8, 1956	15.25	5,880
1950	Feb. 2, 1950	16.25	6,600		Mar. 14, 1956	20.74	10,400
					Apr. 16, 1956	16.85	7,080
1951	Feb. 1, 1951	24.78	15,600				
				1957	Dec. 14, 1956	13.20	4,520
1952	Dec. 15, 1951	14.53	5,370		Jan. 10, 1957	12.61	3,970
	Jan. 22, 1952	11.97	3,780		Jan. 29, 1957	23.35	13,500
	Jan. 28, 1952	12.87	4,320		Feb. 1, 1957	12.57	3,940
	Mar. 22, 1952	19.68	9,410		Feb. 10, 1957	14.72	5,300
					Apr. 8, 1957	14.20	4,940
1953	Jan. 8, 1953	10.93	3,270				
				1958	Feb. 1, 1958	14.59	5,210
1954	Jan. 16, 1954	7.24	1,750		Apr. 21, 1958	12.11	3,700
					Apr. 28, 1958	15.56	5,890
1955	Dec. 29, 1954	12.70	4,220		May 7, 1958	15.80	6,060
	Feb. 7, 1955	12.50	4,100				
	Feb. 27, 1955	19.55	9,300	1959	Jan. 22, 1959	16.90	6,920
	Mar. 6, 1955	17.48	7,580		Apr. 12, 1959	11.86	3,580
	Mar. 16, 1955	16.63	6,900				
	Mar. 18, 1955	12.00	3,800	1960	July 1, 1960	15.07	5,550
	Mar. 22, 1955	13.85	4,910				
				1961	Apr. 1, 1961	12.35	3,820
1956	Feb. 4, 1956	12.34	4,000		Apr. 26, 1961	11.90	3,600

a About, from information by local residents.

2800. North Fork Kentucky River at Jackson, Ky.

Location.--Lat 37°33'05", long 83°23'05", near center of span on upstream side of bridge on State Highways 30 and 52 at Jackson, Breathitt County, 3 miles downstream from Quicksand Creek.

Drainage area.--1,101 sq mi.

Gage.--Nonrecording. At same site at datum 1.00 ft higher prior to Oct. 1, 1941. Datum of gage is 697.67 ft above mean sea level, datum of 1929. Gage heights given herein converted to present datum.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--29 ft.

Remarks.--Base for partial-duration series, 14,000 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	Mar. 10, 1905	23	16,000	1940	Apr. 20, 1940	24.0	18,000
1906	Mar. 31, 1906	20	13,000	1941	July 5, 1941	14.15	7,820
1907	Jan. 18, 1907	24	17,100				
				1942	July 9, 1942	32.33	27,300
1917	Jan. 4, 1917	31.5	27,000				
1918	Jan. 28, 1918	40	42,800	1943	Dec. 31, 1942	30.6	25,700
1919	Jan. 20, 1919	31	26,300		Mar. 14, 1943	22.9	15,900
1920	Jan. 23, 1920	33	29,400		Mar. 20, 1943	31.81	26,500
					Apr. 20, 1943	28.2	22,300
1921	Apr. 17, 1921	15	9,200				
				1944	Feb. 18, 1944	26.0	19,400
1927	May 30, 1927	42.9	48,600		Mar. 1, 1944	28.1	21,500
1928	June 30, 1928	20.8	13,800		Mar. 20, 1944	23.5	16,600
1929	Mar. 24, 1929	39.9	46,000		Apr. 12, 1944	26.7	20,300
1930	Nov. 18, 1929	20.0	14,100				
				1945	Jan. 1, 1945	21.3	14,300
1931	Apr. 22, 1931	27.5	21,400		Feb. 18, 1945	24.1	17,200
					Mar. 6, 1945	30.6	24,900
1935	Mar. 13, 1935	37.2	37,200				
				1946	Jan. 8, 1946	38.8	41,800
1936	Apr. 6, 1936	31.0	26,300				
1937	Jan. 25, 1937	27.00	23,700	1947	Jan. 3, 1947	24.2	17,300
1938	Mar. 4, 1938	24.0	17,100		Jan. 21, 1947	23.6	16,700
					Aug. 6, 1947	28.0	22,000
1939	Feb. 4, 1939	43.1	46,800				
	Feb. 12, 1939	21.0	14,000	1948	Feb. 14, 1948	40.55	44,000
	Mar. 6, 1939	23.2	16,200		Apr. 8, 1948	22.0	15,000
	July 5, 1939	21.3	14,300		Apr. 13, 1948	26.5	20,000

Peak stages and discharges of North Fork Kentucky River at Jackson, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 19, 1949	24.85	17,900	1955	Mar. 7, 1955	31.03	26,300
					Mar. 17, 1955	29.34	23,900
1950	Feb. 3, 1950	36.5	35,800		Mar. 22, 1955	29.48	24,100
	May 13, 1950	22.1	15,100				
	May 16, 1950	24.1	17,200	1956	Feb. 19, 1956	36.04	34,900
	June 21, 1950	21.4	14,400		Mar. 9, 1956	26.1	19,500
					Mar. 15, 1956	34.07	31,200
1951	Feb. 2, 1951	41.28	45,400		Apr. 16, 1956	34.5	32,000
1952	Dec. 9, 1951	22.1	15,100	1957	Jan. 30, 1957	a40.41	53,500
	Dec. 15, 1951	23.0	16,000		Feb. 2, 1957	19.6	15,400
	Jan. 23, 1952	21.5	14,500		Feb. 10, 1957	b22.60	18,800
	Jan. 28, 1952	24.0	17,100		Apr. 9, 1957	19.1	14,600
	Mar. 23, 1952	34.82	32,600				
	May 20, 1952	21.0	14,000	1958	Apr. 28, 1958	a21.10	17,000
					May 7, 1958	b31.20	32,200
1953	May 20, 1953	23.84	16,900				
				1959	Jan. 22, 1959	a22.30	18,300
1954	Jan. 17, 1954	15.2	9,050				
				1960	Mar. 17, 1960	15.52	11,000
1955	Dec. 30, 1954	21.20	14,200				
	Feb. 28, 1955	37.34	37,500	1961	Feb. 26, 1961	15.80	11,300

a Occurred at different time than peak discharge.
b Occurred on following day.

2806. Middle Fork Kentucky River near Hyden, Ky.

Location.--Lat 37°08'13", long 83°22'17", on left bank on U.S. Highway 421, 1,000 ft upstream from unnamed tributary on right bank, 2,000 ft downstream from Munsey Creek, and 1.7 miles south of Hyden, Leslie County.

Drainage area.--202 sq mi.

Gage.--Nonrecording prior to Dec. 23, 1957; recording thereafter. Datum of gage is 833.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs.

Remarks.--Base for partial-duration series, 3,900 cfs. Only annual peak shown for 1957.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 29, 1957	33.3	a60,000	1960	Nov. 28, 1959	11.55	8,420
					Dec. 19, 1959	8.75	5,150
1958	Dec. 7, 1957	a12.0	a9,000		June 24, 1960	17.34	17,600
	Feb. 1, 1958	7.56	3,960				
	Apr. 28, 1958	8.23	4,630	1961	Feb. 23, 1961	9.13	5,540
	May 6, 1958	12.99	10,400		Feb. 25, 1961	9.32	5,750
					Feb. 28, 1961	7.97	4,370
1959	Jan. 21, 1959	17.32	17,600		Mar. 8, 1961	9.02	5,420
	Apr. 12, 1959	7.50	3,900		Apr. 1, 1961	8.13	4,530
	June 2, 1959	9.94	6,430		May 1, 1961	8.09	4,490

a About.

762-908 O - 65 - 29

2809. Middle Fork Kentucky River at Buckhorn, Ky.

Location.--Lat 37°20'45", long 83°28'07", on right bank 25 ft upstream from Squabble Creek, 250 ft upstream from highway bridge on county road at Buckhorn, Perry County, about 2,000 ft downstream from flood-control dam, and at mile 42.9. Records include flow of Squabble Creek.

Drainage area.--420 sq mi, includes that of Squabble Creek.

Gage.--Nonrecording prior to Oct. 11, 1956; recording thereafter. Datum of gage is 717.52 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended on basis of slope-area measurement at 82,300 cfs.

Bankfull stage.--14 ft.

Historical data.--Flood of January 1939 reached a stage of 38.1 ft, from levels to high-water mark by Corps of Engineers.

Remarks.--Flow regulated by Buckhorn Reservoir since Dec. 20, 1960. Base for partial-duration series, 7,000 cfs. Only annual peaks are shown since 1958.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Dec. 14, 1956	15.59	7,370	1958	Apr. 22, 1958	15.17	7,040
	Jan. 29, 1957	43.1	82,300		Apr. 28, 1958	17.10	8,580
	Feb. 2, 1957	16.55	8,140		May 6, 1958	23.23	14,300
	Feb. 10, 1957	-	a9,500				
	Apr. 9, 1957	17.11	8,590	1959	Jan. 22, 1959	18.45	b9,660
				1960	June 25, 1960	13.98	b6,170
1958	Dec. 8, 1957	19.40	10,500				
	Feb. 1, 1958	15.50	7,300	1961	May 2, 1961	14.35	6,440

a About.
b Partly regulated by Buckhorn Reservoir under construction.

2810. Middle Fork Kentucky River at Tallega, Ky.

Location.--Lat 37°33'18", long 83°35'38", on downstream side of left pier of highway bridge, 100 ft upstream from Lynam Creek, 0.5 mile southwest of Tallega, Lee County, and 7.9 miles upstream from confluence with North Fork.

Drainage area.--537 sq mi.

Gage.--Nonrecording prior to Feb. 7, 1940; recording thereafter. Datum of gage is 642.13 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs and extended on basis of contracted-opening measurement at 52,700 cfs.

Bankfull stage.--25 ft.

Remarks.--Flow regulated by Buckhorn Reservoir since 1960. Only annual peaks are shown prior to 1940 and after 1960. Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	March 1929	37.4	24,400	1943	Dec. 31, 1942	31.24	14,200
					Mar. 14, 1943	26.03	9,450
1931	Apr. 23, 1931	28.8	11,500		Mar. 20, 1943	30.60	13,600
1932	Jan. 31, 1932	33.28	17,500		Apr. 20, 1943	28.57	11,600
1935	March 1935	35.1	18,700	1944	Feb. 19, 1944	31.55	14,600
					Mar. 1, 1944	31.13	14,100
1937	January 1937	25.1	8,770		Mar. 20, 1944	25.58	9,170
					Apr. 12, 1944	28.47	11,600
1939	February 1939	40.5	37,300				
				1945	Feb. 18, 1945	26.22	9,610
1940	Apr. 21, 1940	25.43	9,030		Mar. 6, 1945	25.97	9,450
1941	July 6, 1941	25.00	8,750	1946	Jan. 8, 1946	37.78	25,700
1942	Aug. 10, 1942	22.86	7,390	1947	Jan. 3, 1947	27.12	10,300

Peak stages and discharges of Middle Fork Kentucky River at Tallega, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 16, 1947	23.42	7,710	1955	Mar. 1, 1955	32.70	14,600
	Jan. 21, 1947	25.78	9,310		Mar. 7, 1955	27.99	10,800
	June 29, 1947	34.32	17,600		Mar. 17, 1955	29.20	11,800
					Mar. 23, 1955	32.02	14,000
1948	Feb. 14, 1948	37.18	21,800				
	Mar. 17, 1948	24.16	8,140	1956	Feb. 5, 1956	24.96	8,670
	Apr. 13, 1948	23.45	7,640		Feb. 19, 1956	35.53	19,400
					Mar. 9, 1956	26.42	9,690
1949	Jan. 6, 1949	23.27	7,580		Mar. 15, 1956	31.49	14,100
	Mar. 19, 1949	28.72	11,500		Apr. 7, 1956	24.27	8,190
					Apr. 17, 1956	31.77	14,400
1950	Dec. 14, 1949	24.78	8,550				
	Feb. 3, 1950	32.41	15,200	1957	Dec. 15, 1956	24.67	8,470
					Jan. 30, 1957	43.33	52,700
1951	Dec. 5, 1950	23.93	7,960		Feb. 2, 1957	25.16	8,810
	Feb. 2, 1951	40.07	35,300		Feb. 11, 1957	26.49	9,740
	Feb. 22, 1951	24.51	8,360		Apr. 9, 1957	24.22	8,150
1952	Dec. 9, 1951	23.25	7,550	1958	Dec. 9, 1957	25.82	9,270
	Dec. 16, 1951	27.79	10,700		Apr. 23, 1958	23.19	7,510
	Dec. 22, 1951	24.79	8,550		Apr. 29, 1958	26.08	9,460
	Jan. 23, 1952	23.34	7,600		May 8, 1958	32.60	15,400
	Jan. 29, 1952	24.21	8,150				
	Mar. 24, 1952	31.68	14,300	1959	Jan. 23, 1959	25.41	8,990
1953	May 8, 1953	24.63	8,440	1960	Mar. 18, 1960	20.79	6,100
1954	Jan. 17, 1954	19.56	5,480	1961	Mar. 10, 1961	22.05	6,830
1955	Dec. 31, 1954	26.32	9,620				

2812. South Fork Kentucky River at Oneida, Ky.

Location.--Lat 37°16'23", long 83°38'50", on upstream side of road bridge at Oneida, Clay County, 850 ft downstream from Bullskin Creek.

Drainage area.--486 sq mi.

Gage.--Nonrecording and crest-stage gages. Datum of gage is 746.51 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended to 53,000 cfs on basis of slope-area measurement at site 7 miles downstream transferred to gaging station by power ratio of the drainage areas.

Bankfull stage.--20 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 29, 1957	40.19	53,000	1960	June 24, 1960	27.05	21,600
1958	May 6, 1958	27.00	21,500				
1959	Jan. 22, 1959	26.00	19,700	1961	Mar. 8, 1961	19.45	9,840

2815. South Fork Kentucky River at Booneville, Ky.

Location.--Lat 37°28'45", long 83°40'38", on right bank 600 ft downstream from Buck Creek, 900 ft downstream from bridge on State Highway 30 at Booneville, Owsley County, and 0.5 mile downstream from Meadow Creek.

Drainage area.--722 sq mi.

Gage.--Nonrecording prior to Nov. 28, 1929; recording thereafter. At site 600 ft upstream from Meadow Creek at datum 3.07 ft higher prior to Oct. 1, 1929. Datum of gage is 642.49 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Gage heights given herein converted to present site and datum.

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs and extended on basis of slope-area measurement at 60,100 cfs.

Bankfull stage.--30 ft.

Remarks.--Base for partial-duration series, 14,000 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Jan. 22, 1926	29.5	23,600	1950	Feb. 2, 1950	28.86	21,300
1927	Dec. 22, 1926	37.0	38,800				
1928	Nov. 17, 1927	22.7	13,800	1951	Feb. 2, 1951	38.48	41,000
1929	Mar. 23, 1929	39.3	42,500		Feb. 21, 1951	24.79	15,400
1930	Nov. 18, 1929	16.42	8,260				
				1952	Dec. 9, 1951	25.54	16,300
1931	Apr. 23, 1931	22.28	12,900		Dec. 15, 1951	27.82	19,500
					Mar. 23, 1952	34.14	31,900
1937	January 1937	26.2	16,100		May 21, 1952	24.85	15,500
1939	February 1939	40.5	48,100	1953	May 7, 1953	21.95	12,600
1940	Apr. 20, 1940	22.8	13,800	1954	Jan. 16, 1954	16.23	8,230
1941	July 6, 1941	25.43	16,600	1955	Dec. 20, 1954	24.62	15,200
					Feb. 7, 1955	23.96	14,500
1942	Aug. 9, 1942	21.40	12,400		Feb. 28, 1955	30.93	25,500
					Mar. 7, 1955	26.43	17,400
1943	Dec. 30, 1942	28.56	22,000		Mar. 17, 1955	25.58	16,300
	Mar. 14, 1943	22.75	14,500		Mar. 22, 1955	31.53	26,700
	Mar. 20, 1943	29.74	23,900				
	Apr. 20, 1943	27.03	19,900	1956	Feb. 5, 1956	24.48	14,900
					Feb. 18, 1956	36.85	39,600
1944	Feb. 18, 1944	27.98	21,100		Mar. 15, 1956	30.41	24,300
	Feb. 29, 1944	27.11	19,800		Apr. 7, 1956	23.92	14,400
	Mar. 20, 1944	25.57	17,700		Apr. 16, 1956	28.80	20,600
	Apr. 12, 1944	28.77	22,300				
				1957	Dec. 14, 1956	29.00	21,000
1945	Jan. 1, 1945	23.93	14,300		Jan. 23, 1957	24.70	15,100
	Feb. 18, 1945	23.62	14,000		Jan. 30, 1957	43.40	66,100
	Feb. 22, 1945	24.83	15,300		Feb. 10, 1957	25.01	15,300
	Mar. 6, 1945	27.63	19,300		Apr. 9, 1957	23.52	14,100
1946	Jan. 8, 1946	38.83	42,100	1958	Feb. 1, 1958	a24.73	15,100
					Apr. 22, 1958	b23.98	14,400
1947	Jan. 3, 1947	28.54	20,700		Apr. 28, 1958	b27.29	18,100
	June 29, 1947	41.70	50,700		May 8, 1958	30.65	23,800
1948	Feb. 14, 1948	38.26	40,500	1959	Jan. 22, 1959	b27.78	18,900
1949	Jan. 6, 1949	24.29	14,900	1960	June 24, 1960	b30.75	24,600
	Mar. 19, 1949	25.91	16,800				
				1961	Mar. 9, 1961	22.74	13,000
1950	Jan. 7, 1950	26.90	18,000				

a Occurred on following day.
b Occurred at different time than peak discharge.

2820. Kentucky River at lock 14, at Heidelberg, Ky.

Location.--Lat 37°33'19", long 83°46'06", on right bank 1,000 ft upstream from lock 14 at Heidelberg, Lee County, 0.5 mile upstream from Sturgeon Creek, and at mile 249.2.

Drainage area.--2,657 sq mi.

Gage.--Nonrecording prior to Sept. 2, 1939; recording thereafter. Datum of gage is 626.66 ft above mean sea level, Ohio River datum (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--25 ft.

Remarks.--Stages prior to 1940 furnished by Corps of Engineers, Department of Army; discharges computed from stage-discharge relation based on measurements obtained during 1938-57. Base for partial-duration series, 30,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Apr. 17, 1921	17.9	29,600	1934	Jan. 8, 1934	18.3	31,900
					Feb. 27, 1934	20.6	44,500
1922	Feb. 21, 1922	27.0	75,100		Mar. 4, 1934	27.2	76,100
	Mar. 2, 1922	19.2	37,000		Mar. 9, 1934	18.7	34,200
	Mar. 11, 1922	22.7	54,200		Mar. 20, 1934	18.9	35,300
	Mar. 16, 1922	20.9	45,900		Mar. 24, 1934	20.1	42,000
1923	Dec. 17, 1922	18.6	33,600	1935	Mar. 13, 1935	28.6	83,300
	Feb. 4, 1923	28.9	84,800		Mar. 27, 1935	18.2	31,300
	Feb. 14, 1923	18.9	35,300		Apr. 1, 1935	20.3	43,000
	Mar. 7, 1923	22.0	51,000		Apr. 8, 1935	19.4	38,200
	Mar. 13, 1923	20.0	41,400		May 15, 1935	23.7	58,900
	June 13, 1923	20.4	43,500		May 21, 1935	18.9	35,300
					June 4, 1935	20.8	45,500
1924	Jan. 1, 1924	21.2	47,300		June 23, 1935	19.2	37,000
	Jan. 4, 1924	23.0	55,600				
	Jan. 12, 1924	18.9	35,300	1936	Jan. 3, 1936	18.7	34,200
	Feb. 21, 1924	18.2	31,300		Mar. 18, 1936	18.3	31,900
	May 30, 1924	18.6	33,600		Mar. 25, 1936	19.8	40,400
					Apr. 7, 1936	24.0	60,300
1925	Dec. 9, 1924	21.0	46,400				
	Feb. 16, 1925	22.0	51,000	1937	Jan. 3, 1937	20.4	43,500
					Jan. 16, 1937	18.8	34,800
1926	Jan. 22, 1926	22.2	51,900		Jan. 18, 1937	20.6	44,500
	Feb. 15, 1926	18.1	30,700		Jan. 26, 1937	21.4	48,200
	May 17, 1926	20.5	44,000		Feb. 10, 1937	19.2	37,000
1927	Dec. 23, 1926	30.0	90,400	1938	Mar. 4, 1938	19.2	37,000
	Dec. 26, 1926	24.7	63,700				
	Dec. 29, 1926	19.0	35,900	1939	Feb. 4, 1939	35.6	120,000
	Jan. 31, 1927	18.4	32,400		Feb. 12, 1939	18.1	30,700
	Feb. 19, 1927	18.0	30,200		Feb. 16, 1939	19.4	38,200
	Feb. 24, 1927	18.8	34,800		Mar. 7, 1939	19.8	40,400
	Mar. 8, 1927	18.5	33,000		July 5, 1939	18.6	33,600
	Apr. 10, 1927	19.0	35,900				
	Apr. 15, 1927	18.8	34,800	1940	Apr. 21, 1940	19.55	39,300
	Apr. 22, 1927	18.4	32,400				
	May 31, 1927	26.3	71,500	1941	July 6, 1941	18.18	31,300
1928	June 29, 1928	18.9	35,300	1942	July 10, 1942	18.0	30,200
1929	Nov. 20, 1928	20.3	43,000	1943	Dec. 31, 1942	23.54	58,500
	Jan. 26, 1929	18.1	30,700		Mar. 14, 1943	19.19	37,000
	Feb. 27, 1929	26.5	72,600		Mar. 20, 1943	25.15	66,200
	Mar. 6, 1929	20.0	41,400		Apr. 20, 1943	21.44	48,600
	Mar. 24, 1929	34.4	113,000				
	May 3, 1929	19.8	40,400	1944	Feb. 19, 1944	20.80	45,600
	May 8, 1929	18.5	33,000		Mar. 1, 1944	21.34	48,100
					Mar. 21, 1944	20.18	42,500
1930	Nov. 18, 1929	17.1	24,100		Apr. 12, 1944	22.15	52,400
1931	Apr. 23, 1931	20.8	45,500	1945	Jan. 2, 1945	18.61	33,600
					Feb. 18, 1945	19.09	36,500
1932	Dec. 12, 1931	19.6	39,300		Feb. 23, 1945	18.37	32,400
	Jan. 31, 1932	27.9	79,700		Mar. 6, 1945	21.86	51,000
	Feb. 5, 1932	21.9	50,500				
	Mar. 29, 1932	21.5	48,700	1946	Jan. 9, 1946	31.76	90,300
1933	Jan. 22, 1933	18.3	31,900	1947	Jan. 3, 1947	19.86	40,900
	Feb. 21, 1933	20.8	45,500		Jan. 17, 1947	18.2	31,300
	Mar. 20, 1933	18.8	34,800		Jan. 21, 1947	19.13	36,500

Peak stages and discharges of Kentucky River at lock 14, at Heidelberg, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 29, 1947	23.83	57,900	1955	Mar. 1, 1955	26.98	75,000
					Mar. 7, 1955	20.69	44,900
1948	Feb. 15, 1948	32.60	104,000		Mar. 17, 1955	20.65	44,700
	Mar. 28, 1948	18.2	30,800		Mar. 23, 1955	22.44	53,000
	Apr. 8, 1948	18.6	32,800				
	Apr. 13, 1948	20.6	42,800	1956	Feb. 5, 1956	18.47	32,900
					Feb. 19, 1956	26.83	74,200
1949	Mar. 19, 1949	19.9	39,300		Mar. 9, 1956	18.82	34,900
					Mar. 15, 1956	22.47	53,200
1950	Jan. 7, 1950	19.14	35,500		Apr. 8, 1956	18.33	32,000
	Feb. 2, 1950	25.84	69,200		Apr. 17, 1956	23.9	59,800
1951	Feb. 2, 1951	31.84	100,000	1957	Dec. 15, 1956	19.72	39,900
	Feb. 22, 1951	18.4	31,800		Jan. 30, 1957	35.00	116,000
					Feb. 11, 1957	19.94	41,100
1952	Dec. 9, 1951	18.90	34,300		Apr. 9, 1957	18.76	34,500
	Dec. 16, 1951	19.54	37,500				
	Jan. 29, 1952	18.96	34,600	1958	Feb. 2, 1958	18.49	33,000
	Mar. 24, 1952	26.10	70,500		Apr. 23, 1958	18.31	31,900
	May 21, 1952	18.37	31,600		Apr. 29, 1958	19.77	40,200
					May 8, 1958	24.63	63,300
1953	May 7, 1953	18.14	30,500				
				1959	Jan. 23, 1959	19.31	37,700
1954	Jan. 17, 1954	15.65	18,600				
				1960	Mar. 18, 1960	17.71	28,500
1955	Dec. 31, 1954	18.22	31,400				
	Feb. 8, 1955	18.30	31,900	1961	Mar. 9, 1961	17.92	29,600

2825. Red River near Hazel Green, Ky.

Location.--Lat 37°48'44", long 83°27'50", on right bank 600 ft upstream from Buck Creek, 0.3 mile downstream from Chapel Branch, and 2.7 miles northwest of Hazel Green, Wolf County.

Drainage area.--65.8 sq mi.

Gage.--Recording. Altitude of gage is 880 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 28, 1955	10.64	3,020	1957	Apr. 8, 1957	6.62	1,770
	Mar. 5, 1955	8.60	2,510				
	Mar. 16, 1955	6.58	1,750	1958	Nov. 19, 1957	6.75	1,840
	Mar. 22, 1955	7.44	2,120		Apr. 28, 1958	8.13	2,370
					May 7, 1958	7.49	2,140
1956	Feb. 18, 1956	10.11	2,890				
	Mar. 14, 1956	8.23	2,400	1959	Apr. 11, 1959	5.77	1,350
	Apr. 15, 1956	10.57	3,000				
				1960	Feb. 11, 1960	4.64	909
1957	Dec. 14, 1956	9.87	2,830				
	Jan. 29, 1957	7.43	2,110	1961	May 8, 1961	5.66	1,300

2830. Stillwater Creek at Stillwater, Ky.

Location.--Lat 37°45'24", long 83°29'12", on right bank 15 ft downstream from bridge on State Highway 15, 90 ft downstream from Trace Fork, 2.1 miles upstream from Laurel Fork, at Stillwater, Wolfe County.

Drainage area.--24.0 sq mi.

Gage.--Recording. Datum of gage is 883.83 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended on basis of slope-area measurement at 2,960 cfs.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 28, 1955	10.81	2,600	1957	June 7, 1957	8.35	1,510
	Mar. 5, 1955	9.07	1,800				
	Mar. 16, 1955	7.93	1,350	1958	Nov. 18, 1957	12.44	3,520
	Mar. 21, 1955	8.01	1,380		Dec. 7, 1957	8.57	1,600
					Apr. 27, 1958	10.47	2,440
1956	Feb. 18, 1956	11.50	2,960				
	Mar. 14, 1956	10.62	2,510	1959	Apr. 10, 1959	6.57	921
	Apr. 15, 1956	9.88	2,140				
	July 24, 1956	7.82	1,310	1960	July 1, 1960	9.53	1,980
1957	Dec. 14, 1956	12.91	3,890	1961	May 7, 1961	7.92	1,350
	Jan. 29, 1957	8.36	1,510				

2835. Red River at Clay City, Ky.

Location.--Lat 37°51'52", long 83°55'59", on downstream side of pier on left bank at bridge on State Highway 15 at Waltersville, 500 ft upstream from Brush Creek, half a mile west of Clay City, Powell County, and 4.8 miles upstream from Hardwick Creek.

Drainage area.--362 sq mi.

Gage.--Nonrecording prior to Aug. 14, 1939; recording thereafter. Datum of gage is 600.47 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 5,000 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 29, 1931	12.22	3,810	1945	Jan. 2, 1945	18.83	11,700
1932	Jan. 30, 1932	20.40	15,100		Feb. 23, 1945	16.84	7,440
					Feb. 28, 1945	17.07	8,000
1937	Jan. 19, 1937	18.7	11,800		Mar. 7, 1945	16.42	6,840
1938	July 15, 1938	22.8	21,100				
				1946	June 3, 1946	14.32	5,060
1939	Jan. 30, 1939	17.8	9,560				
	Feb. 4, 1939	20.0	14,400	1947	Aug. 2, 1947	12.60	4,210
	Feb. 16, 1939	15.6	5,780				
	Mar. 6, 1939	17.8	9,560	1948	Feb. 14, 1948	19.50	13,400
	July 6, 1939	22.30	19,800		Apr. 8, 1948	16.84	7,610
					Apr. 14, 1948	18.22	10,500
1940	Mar. 31, 1940	17.71	9,360				
				1949	Jan. 6, 1949	14.73	5,260
1941	Jan. 25, 1941	9.88	2,540		Feb. 16, 1949	17.24	8,400
1942	Apr. 10, 1942	14.78	5,560	1950	Dec. 14, 1949	14.48	5,060
	Aug. 25, 1942	16.38	6,840		Jan. 6, 1950	18.40	10,900
					Jan. 14, 1950	14.68	5,220
1943	Dec. 31, 1942	19.46	13,300		Feb. 1, 1950	20.28	15,100
	Mar. 20, 1943	17.92	9,680		July 27, 1950	19.56	13,500
	Apr. 20, 1943	15.30	5,860				
				1951	Jan. 16, 1951	15.30	5,800
1944	Apr. 12, 1944	16.81	7,440				

Peak stages and discharges of Red River at Clay City, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 10, 1951	15.62	6,260	1956	Mar. 15, 1956	16.88	8,150
	Mar. 23, 1952	22.01	19,200		Apr. 16, 1956	17.61	9,290
1953	Jan. 9, 1953	16.32	7,180	1957	Dec. 15, 1956	18.98	12,000
	Mar. 4, 1953	15.50	6,070		Jan. 11, 1957	14.70	5,300
					Jan. 30, 1957	17.49	9,110
1954	May 8, 1954	9.03	2,180		Feb. 11, 1957	14.65	5,170
					Apr. 9, 1957	14.64	5,160
1955	Feb. 7, 1955	15.46	6,110				
	Mar. 1, 1955	19.35	12,800	1958	Nov. 20, 1957	14.55	5,090
	Mar. 6, 1955	a18.3	10,600		Dec. 8, 1957	-	a5,000
	Mar. 17, 1955	a16.6	a7,400		Apr. 28, 1958	18.74	11,500
	Mar. 23, 1955	15.7	a6,200				
	July 10, 1955	17.84	9,940	1959	Jan. 23, 1959	11.95	3,320
1956	Feb. 3, 1956	15.27	5,890	1960	Feb. 12, 1960	13.92	4,590
	Feb. 16, 1956	15.93	6,630				
	Feb. 19, 1956	18.12	10,400	1961	May 9, 1961	15.34	5,790

a About.

2840. Kentucky River at lock 10, near Winchester, Ky.

Location.--Lat 37°53'41", long 84°15'44", on left bank at lock 10, 0.9 mile downstream from Otter Creek, 8 miles southwest of Winchester, Clark County, and at mile 176.4.

Drainage area.--3,955 sq mi.

Gage.--Nonrecording at present site and datum prior to Feb. 2, 1940, and subsequent to Dec. 27, 1942; recording at site 1.1 miles upstream at different datum Feb. 2, 1940, to Dec. 27, 1942. Datum of gage is 557.37 ft above mean sea level, Ohio River datum. Gage heights given herein converted to present site and datum. Nonrecording auxiliary gage is the upper gage at lock 9, at Valley View, 18.9 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--25 ft.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Apr. 3, 1908	26.9	67,000	1917	Mar. 5, 1917	23.5	58,200
					Mar. 19, 1917	20.0	40,000
1909	Feb. 25, 1909	21.9	51,000		Mar. 25, 1917	20.7	44,200
	Mar. 11, 1909	21.1	46,600				
				1918	Jan. 30, 1918	31.7	81,300
1910	Feb. 19, 1910	19.6	37,600				
				1919	Jan. 3, 1919	27.1	65,600
1911	Apr. 7, 1911	22.4	53,500				
	May 3, 1911	20.4	42,400	1920	Nov. 3, 1919	22.6	54,500
					Dec. 9, 1919	24.5	57,900
1912	Dec. 28, 1911	21.1	46,600		Dec. 15, 1919	21.0	46,000
	Mar. 15, 1912	21.6	49,500		Jan. 10, 1920	27.6	65,600
	Apr. 4, 1912	25.3	61,400		Jan. 25, 1920	31.7	79,100
	Apr. 29, 1912	21.0	46,000		Mar. 21, 1920	22.9	55,800
					Apr. 4, 1920	20.0	40,000
1913	Jan. 9, 1913	28.5	64,400				
	Mar. 28, 1913	35.1	84,600	1921	Apr. 18, 1921	18.6	31,600
1914	Apr. 1, 1914	20.0	40,000	1922	Feb. 22, 1922	27.1	66,000
					Mar. 3, 1922	20.4	42,400
1915	Feb. 2, 1915	20.4	42,400		Mar. 12, 1922	22.7	54,000
					Mar. 17, 1922	21.7	50,000
1916	Nov. 16, 1915	20.2	41,200				
	Dec. 20, 1915	33.6	85,600	1923	Feb. 5, 1923	28.6	70,600
	Dec. 31, 1915	21.6	49,500		Mar. 8, 1923	21.9	51,000
	Jan. 13, 1916	21.0	46,000		Mar. 14, 1923	20.4	42,400
	Mar. 30, 1916	20.2	41,200		June 14, 1923	20.9	45,400
1917	Jan. 7, 1917	26.6	64,800	1924	Jan. 5, 1924	28.8	69,400
	Jan. 22, 1917	22.2	49,000				

Peak stages and discharges of Kentucky River at lock 10, near Winchester, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Dec. 10, 1924	24.6	56,600
	Feb. 17, 1925	21.4	48,400
1926	Jan. 23, 1926	23.5	55,900
	May 18, 1926	20.0	40,000
1927	Dec. 25, 1926	28.0	64,500
	Jan. 22, 1927	20.2	41,200
	June 1, 1927	25.0	59,000
1928	June 30, 1928	23.0	53,000
1929	Feb. 28, 1929	25.2	59,800
	Mar. 7, 1929	21.9	51,000
	Mar. 25, 1929	32.0	83,000
	May 4, 1929	20.4	42,400
1930	Feb. 6, 1930	18.0	28,000
1931	Apr. 24, 1931	21.3	47,800
1932	Dec. 14, 1931	20.3	41,800
	Feb. 1, 1932	28.5	70,300
	Feb. 6, 1932	21.7	50,000
	Mar. 29, 1932	23.2	56,200
1933	Feb. 22, 1933	22.2	52,500
1934	Mar. 5, 1934	26.3	65,900
	Mar. 25, 1934	20.5	43,000
1935	Mar. 14, 1935	30.3	75,400
	Apr. 2, 1935	22.1	52,000
	Apr. 10, 1935	21.7	50,000
	May 17, 1935	22.5	54,000
	May 23, 1935	20.5	43,000
	June 5, 1935	20.7	44,200
1936	Jan. 4, 1936	20.3	41,800
	Mar. 27, 1936	20.1	40,600
	Apr. 8, 1936	23.7	58,800
1937	Jan. 4, 1937	21.1	46,600
	Jan. 23, 1937	30.6	70,700
1938	July 16, 1938	20.7	45,000
1939	Jan. 31, 1939	19.8	40,300
	Feb. 5, 1939	34.8	92,400
	Feb. 17, 1939	20.4	44,500
	Mar. 7, 1939	21.0	46,500
	July 7, 1939	21.1	47,000
1940	Apr. 22, 1940	20.4	44,000
1941	July 7, 1941	18.1	29,200
1942	July 10, 1942	19.2	35,700
1943	Jan. 1, 1943	25.6	62,600
	Mar. 15, 1943	20.05	40,000
1943	Mar. 22, 1943	25.6	63,900
	Apr. 21, 1943	21.85	50,700
1944	Feb. 20, 1944	20.1	40,200
	Mar. 2, 1944	20.6	43,200
	Mar. 21, 1944	20.7	43,800
	Apr. 13, 1944	22.40	53,500
1945	Jan. 3, 1945	20.65	43,600
	Feb. 23, 1945	20.2	40,800
	Mar. 7, 1945	23.2	57,000
1946	Jan. 11, 1946	28.9	70,700
1947	Jan. 4, 1947	20.8	45,300
	June 30, 1947	20.7	44,800
1948	Feb. 16, 1948	33.6	86,700
	Mar. 29, 1948	19.80	40,000
	Apr. 9, 1948	20.10	41,700
	Apr. 14, 1948	24.52	58,200
1949	Feb. 15, 1949	20.95	46,300
1950	Jan. 8, 1950	21.5	51,200
	Feb. 3, 1950	30.05	73,500
1951	Feb. 4, 1951	28.75	69,700
1952	Dec. 10, 1951	20.2	43,900
	Dec. 17, 1951	19.8	41,500
	Jan. 30, 1952	19.8	41,500
	Mar. 24, 1952	29.9	72,200
1953	Jan. 10, 1953	19.4	38,900
1954	Jan. 17, 1954	16.4	20,400
1955	Feb. 8, 1955	19.6	40,300
	Mar. 3, 1955	29.9	74,000
	Mar. 19, 1955	21.4	50,700
	Mar. 24, 1955	21.8	52,700
1956	Feb. 6, 1956	20.05	43,000
	Feb. 20, 1956	26.20	64,000
	Mar. 16, 1956	22.76	56,000
	Apr. 18, 1956	22.90	56,400
1957	Dec. 16, 1956	20.9	48,100
	Feb. 1, 1957	33.65	85,400
	Feb. 12, 1957	20.6	46,300
	Apr. 10, 1957	19.7	40,900
1958	Apr. 30, 1958	22.2	54,300
	May 10, 1958	23.4	57,900
1959	Jan. 24, 1959	19.3	38,200
1960	June 24, 1960	19.5	39,600
1961	May 8, 1961	18.85	35,000

2845. Kentucky River at lock 8, near Camp Nelson, Ky.

Location.--Lat 37°44'43", long 84°35'12", on wall of lock 8 near right bank, 2.4 miles southeast of Camp Nelson, Jessamine County, 2.7 miles downstream from Sugar Creek, 4.5 miles upstream from Hickman Creek, and at mile 139.9.

Drainage area.--4,414 sq mi.

Gage.--Nonrecording. Datum of gage is 520.50 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to 1942, nonrecording auxiliary gage at lock 7, 22.9 miles downstream and since 1942 recording auxiliary gage 4.8 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Flood of January 1937 is highest flood known since at least 1900.

Remarks.--Gage-height record furnished by Corps of Engineers. Discharges for period 1911-39 computed from rating based on discharge measurements obtained during period 1939-57. Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Apr. 7, 1911	26.0	53,700	1928	June 29, 1928	28.6	60,400
1912	Dec. 29, 1911	23.2	44,300	1929	Mar. 1, 1929	30.4	68,200
	Mar. 15, 1912	27.5	58,000		Mar. 7, 1929	26.9	56,800
	Apr. 5, 1912	29.0	63,000		Mar. 26, 1929	35.8	85,600
	Apr. 29, 1912	24.5	48,000		May 6, 1929	22.7	41,700
1913	Jan. 9, 1913	34.8	79,800	1930	Feb. 5, 1930	20.0	30,400
	Mar. 28, 1913	40.0	103,000	1931	Apr. 24, 1931	22.8	42,600
1914	Apr. 2, 1914	21.9	39,000	1932	Dec. 14, 1931	24.4	48,000
1915	Feb. 3, 1915	22.6	41,700		Feb. 1, 1932	32.8	74,800
					Feb. 7, 1932	26.0	55,400
1916	Dec. 20, 1915	38.6	93,800		Mar. 30, 1932	27.4	58,300
	Dec. 31, 1915	24.5	48,400		Aug. 2, 1932	28.4	63,300
	Jan. 13, 1916	27.2	56,000	1933	Jan. 23, 1933	22.7	42,200
1917	Jan. 7, 1917	30.6	67,400		Feb. 22, 1933	26.1	54,700
	Jan. 22, 1917	33.6	71,100				
	Mar. 5, 1917	27.9	58,500	1934	Mar. 6, 1934	30.7	68,500
	Mar. 26, 1917	22.5	41,200		Mar. 26, 1934	23.2	43,800
1918	Jan. 31, 1918	35.9	86,000	1935	Jan. 20, 1935	25.9	53,400
					Mar. 15, 1935	34.2	79,400
1919	Jan. 1, 1919	33.2	70,300		Apr. 2, 1935	26.1	53,600
					Apr. 8, 1935	28.9	60,400
1920	Nov. 3, 1919	26.6	56,100		May 17, 1935	25.5	52,500
	Nov. 26, 1919	24.6	46,900		May 21, 1935	23.4	45,500
	Dec. 9, 1919	30.4	66,800		June 5, 1935	23.5	45,400
	Dec. 15, 1919	25.1	50,600		June 21, 1935	24.4	48,000
	Jan. 9, 1920	34.0	73,800				
	Jan. 26, 1920	36.3	86,400	1936	Jan. 4, 1936	23.2	44,300
	Mar. 21, 1920	26.9	56,800		Mar. 27, 1936	24.0	47,900
					Apr. 9, 1936	28.9	61,800
1921	Apr. 18, 1921	20.8	34,000	1937	Jan. 4, 1937	24.0	46,900
1922	Dec. 24, 1921	25.2	51,700		Jan. 23, 1937	41.2	91,500
	Feb. 23, 1922	30.9	69,100				
	Mar. 3, 1922	23.5	45,000	1938	Mar. 6, 1938	23.1	43,900
	Mar. 12, 1922	27.0	56,500		July 16, 1938	23.6	45,800
	Mar. 17, 1922	26.2	55,500	1939	Jan. 30, 1939	25.0	51,900
1923	Jan. 24, 1923	22.6	42,100		Feb. 6, 1939	38.6	94,800
	Feb. 5, 1923	33.1	77,000		Feb. 15, 1939	25.1	48,500
	Mar. 9, 1923	26.5	56,200		Mar. 8, 1939	24.6	49,300
	Mar. 14, 1923	22.7	42,600		July 7, 1939	26.1	58,000
	June 14, 1923	24.1	47,800				
				1940	Mar. 31, 1940	22.3	40,800
1924	Jan. 5, 1924	36.0	80,600		Apr. 22, 1940	23.4	46,000
1925	Dec. 10, 1924	31.4	65,400	1941	July 7, 1941	19.8	29,500
	Feb. 17, 1925	25.2	52,600				
				1942	Apr. 9, 1942	23.6	46,300
1926	Jan. 24, 1926	28.9	65,000		Aug. 23, 1942	25.5	55,400
1927	Dec. 25, 1926	36.1	83,400	1943	Nov. 23, 1942	22.6	42,100
	Jan. 22, 1927	28.3	58,200		Dec. 30, 1942	33.4	75,300
	June 2, 1927	29.7	65,800		Mar. 15, 1943	22.3	40,700

Peak stages and discharges of Kentucky River at lock 8, near Camp Nelson, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 22, 1943	30.4	68,200	1952	Dec. 10, 1951	23.5	45,900
	Apr. 22, 1943	25.4	53,300		Dec. 17, 1951	22.2	40,300
					Jan. 30, 1952	22.4	41,200
1944	Mar. 2, 1944	23.2	44,700		Mar. 25, 1952	34.3	78,100
	Mar. 22, 1944	23.9	47,500				
	Apr. 14, 1944	26.5	55,100	1953	Jan. 10, 1953	22.2	40,300
1945	Jan. 1, 1945	26.9	58,200	1954	Mar. 5, 1954	17.6	20,400
	Feb. 22, 1945	23.9	47,100				
	Feb. 27, 1945	24.8	49,700	1955	Mar. 4, 1955	35.2	82,100
	Mar. 7, 1945	28.8	62,000		Mar. 22, 1955	29.6	60,800
1946	Jan. 11, 1946	33.0	74,100	1956	Jan. 30, 1956	23.0	43,900
	Feb. 14, 1946	24.8	51,100		Feb. 2, 1956	23.5	45,900
					Feb. 6, 1956	24.4	49,500
1947	Jan. 5, 1947	22.9	43,400		Feb. 15, 1956	23.1	44,300
	Jan. 22, 1947	22.2	40,300		Feb. 21, 1956	32.0	70,300
	July 1, 1947	24.2	47,800		Mar. 17, 1956	28.1	59,100
					Apr. 18, 1956	27.7	58,000
1948	Feb. 17, 1948	37.6	85,400				
	Apr. 9, 1948	22.2	40,300	1957	Dec. 16, 1956	24.90	51,300
	Apr. 14, 1948	31.5	69,800		Feb. 2, 1957	38.52	89,700
					Feb. 12, 1957	24.30	48,900
1949	Feb. 15, 1949	28.1	59,900		Apr. 4, 1957	23.60	46,300
	Mar. 20, 1949	22.2	40,000		Apr. 11, 1957	22.80	43,000
1950	Dec. 13, 1949	23.1	43,900	1958	Nov. 19, 1957	22.2	40,300
	Jan. 6, 1950	28.5	61,100		Apr. 30, 1958	26.85	55,500
	Jan. 16, 1950	24.2	47,800		May 10, 1958	28.1	58,700
	Feb. 2, 1950	35.4	80,200				
				1959	Jan. 24, 1959	21.6	37,600
1951	Jan. 15, 1951	22.5	41,600	1960	June 23, 1960	25.2	52,600
	Feb. 4, 1951	33.2	74,600				
	Feb. 7, 1951	22.2	40,300	1961	May 7, 1961	24.05	48,100

2850. Dix River near Danville, Ky.

Location.--Lat 37°38'31", long 84°39'39", on right bank 50 ft downstream from bridge on State Highway 52, 1.4 miles downstream from Hanging Fork, and 6 miles east of Danville, Boyle County.

Drainage area.--318 sq mi.

Gage.--Nonrecording prior to Dec. 16, 1942; recording thereafter. Datum of gage is 750.10 ft above mean sea level, datum of 1929. Auxiliary nonrecording gage 2 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs. Affected by backwater from Herrington Lake.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	14.35	17,400	1950	Dec. 13, 1949	9.35	8,950
	Mar. 20, 1943	12.65	11,200		Jan. 6, 1950	10.73	11,900
					Jan. 14, 1950	9.60	9,640
1944	Apr. 11, 1944	9.77	10,400		Jan. 31, 1950	12.29	15,900
					July 26, 1950	9.74	9,920
1945	Jan. 1, 1945	11.07	12,700				
	Feb. 22, 1945	9.88	10,200	1951	Nov. 20, 1950	8.75	8,050
	Feb. 28, 1945	12.03	9,060		Jan. 4, 1951	9.40	9,220
	Mar. 5, 1945	16.28	20,900				
				1952	Dec. 8, 1951	9.03	8,330
1946	Jan. 7, 1946	8.80	7,890		Mar. 11, 1952	8.85	8,230
					Mar. 23, 1952	12.62	16,900
1947	June 28, 1947	9.80	9,910				
				1953	May 19, 1953	8.40	7,420
1948	Feb. 14, 1948	10.82	12,200				
	Mar. 16, 1948	9.46	9,070	1954	Apr. 16, 1954	7.37	5,610
	Apr. 13, 1948	12.91	14,600				
				1955	Feb. 6, 1955	9.03	8,560
1949	Jan. 5, 1949	10.07	10,500		Feb. 22, 1955	9.48	9,360
	Feb. 14, 1949	11.62	14,200		Feb. 28, 1955	10.27	10,900

Peak stages and discharges of Dix River near Danville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 16, 1955	12.73	13,500	1957	Apr. 8, 1957	13.89	14,500
	Mar. 22, 1955	14.24	14,600				
				1958	Nov. 19, 1957	11.89	14,700
1956	Jan. 30, 1956	11.9	14,800		Dec. 20, 1957	9.52	9,440
	Feb. 2, 1956	10.25	10,900		Apr. 28, 1958	8.82	8,180
	Feb. 15, 1956	9.21	8,880		July 20, 1958	9.13	8,730
	Feb. 17, 1956	14.30	15,500				
	Mar. 14, 1956	10.67	11,700	1959	Jan. 22, 1959	8.30	7,240
	Apr. 15, 1956	8.92	8,360				
				1960	June 23, 1960	9.59	9,580
1957	Jan. 23, 1957	9.27	8,990				
	Jan. 29, 1957	9.97	10,300	1961	May 7, 1961	10.66	11,700
	Apr. 4, 1957	12.86	15,900				

2855. Dix River near Burgin, Ky.

Location.--Lat 37°45'10", long 84°42'10", on upstream side of covered highway bridge, 2.5 miles upstream from Cane Run, 3.2 miles east of Burgin, Mercer County, and 6.8 miles upstream from mouth.

Drainage area.--395 sq mi.

Gage.--Nonrecording. Datum of gage is 536.4 ft above mean sea level (Dix River Power Co. bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,300 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 17, 1915	22.8	19,400	1920	Jan. 9, 1920	27.0	24,900
1917	Jan. 22, 1917	29.0	27,500				
1918	Jan. 28, 1918	19.0	14,500	1921	Mar. 31, 1921	14.0	8,000
1919	Jan. 1, 1919	26.0	23,600	1922	Mar. 2, 1922	20.0	15,800

2862. Dix River at Dix Dam, near Burgin, Ky.

Location.--Lat 37°47'34", long 84°42'22", 400 ft upstream from spillway outlet, 0.6 mile downstream from powerhouse (at toe of dam), 2.4 miles upstream from mouth, and 4.4 miles northeast of Burgin, Mercer County.

Drainage area.--440 sq mi.

Gage.--Recording. Datum of gage is 511.6 ft above mean sea level, Kentucky Utilities Co. datum.

Bankfull stage.--10 ft.

Historical data.--Flood of Jan. 27, 1937, reached a stage of 37.4 ft, from Kentucky Utilities Co. records at powerhouse 0.6 mile upstream.

Remarks.--Stages affected by backwater from Kentucky River and regulation by Herrington Lake. Only annual peak stages are shown.

Peak stages and discharges of Dix River at Dix Dam, near Burgin, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 6, 1945	26.0	-	1954	Mar. 5, 1954	8.6	-
1946	Jan. 11, 1946	22.6	-	1956	Feb. 18, 1956	28.5	-
1947	July 1, 1947	14.4	-	1958	May 10, 1958	18.2	-
1949	Feb. 16, 1949	18.5	-	1959	Jan. 24, 1959	13.4	-
1950	Feb. 1, 1950	29.5	-	1960	June 23, 1960	15.0	-
1952	Mar. 24, 1952	24.7	-	1961	May 7, 1961	14.7	-
1953	Jan. 10, 1953	13.4	-				

2870. Kentucky River at lock 6, near Salvisa, Ky.

Location.--Lat 37°55'32", long 84°49'17", on right bank at lock 6, Woodford County, 1.6 miles upstream from Clear Creek, 2.1 miles east of Salvisa, and at mile 96.2.

Drainage area.--5,102 sq mi, of which about 5,002 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Nov. 2, 1934; recording thereafter. Datum of gage is 487.89 ft above mean sea level, unadjusted (Corps of Engineers bench mark). Nonrecording auxiliary gage at lock 5, 14 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 88,000 cfs.

Bankfull stage.--20 ft.

Remarks.--Gage-height record furnished by Corps of Engineers prior to 1934. Discharges for 1895-1925, obtained from stage-discharge relation based on discharge measurements made during 1925-57. Flow slightly regulated by Herrington Lake and by hydroelectric plant at lock 7. Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1895	Jan. 13, 1895	17.8	40,700	1903	Apr. 10, 1903	18.3	43,700
	Jan. 19, 1895	18.9	47,300		Apr. 16, 1903	17.7	40,100
1896	Mar. 20, 1896	20.2	54,400	1904	Mar. 27, 1904	16.8	34,700
	Apr. 3, 1896	19.9	52,900	1905	Mar. 10, 1905	21.0	58,000
1897	Feb. 8, 1897	17.8	40,700	1906	Mar. 31, 1906	19.0	47,000
	Feb. 23, 1897	30.8	87,200	1907	Dec. 17, 1906	18.2	43,100
	Mar. 12, 1897	23.6	64,900		Dec. 31, 1906	18.4	44,300
	Apr. 7, 1897	19.0	47,900		Jan. 20, 1907	26.1	66,300
1898	Jan. 23, 1898	23.1	65,700		Mar. 14, 1907	19.5	50,900
	Aug. 13, 1898	18.1	42,500	1908	Feb. 15, 1908	18.6	45,500
1899	Jan. 9, 1899	21.2	57,200		Apr. 2, 1908	29.4	80,900
	Jan. 14, 1899	24.6	64,800	1909	Feb. 25, 1909	-	a80,000
	Feb. 7, 1899	20.5	54,900		Mar. 9, 1909	22.0	59,100
	Mar. 8, 1899	33.0	91,500	1910	June 11, 1910	20.1	52,300
	Mar. 21, 1899	18.6	45,500	1911	Jan. 4, 1911	17.9	41,300
	Mar. 31, 1899	25.6	70,000		Feb. 1, 1911	17.8	40,700
	Apr. 9, 1899	17.9	41,300		Feb. 6, 1911	19.2	49,100
1900	Mar. 22, 1900	16.6	53,500		Feb. 11, 1911	17.9	41,300
1901	Nov. 28, 1900	22.3	61,300		Mar. 10, 1911	18.3	43,700
	Apr. 23, 1901	24.7	67,800		Apr. 7, 1911	21.1	58,000
1902	Dec. 17, 1901	18.4	44,300		May 3, 1911	18.8	46,700
	Jan. 1, 1902	17.7	40,100	1912	Dec. 15, 1911	17.7	40,100
	Jan. 31, 1902	26.5	70,000		Dec. 27, 1911	21.9	61,600
	Mar. 9, 1902	18.3	43,700		Jan. 19, 1912	19.2	49,100
	Apr. 1, 1902	21.0	56,300		Mar. 15, 1912	24.8	67,200
1903	Dec. 16, 1902	26.1	66,100		Mar. 24, 1912	18.5	44,900
	Feb. 6, 1903	18.0	41,900		Apr. 5, 1912	24.5	66,500
	Feb. 17, 1903	23.9	65,400		Apr. 30, 1912	20.5	53,700
	Mar. 3, 1903	23.4	66,900				

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Peak stages and discharges of Kentucky River at lock 6, near Salvisa, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 12, 1912	17.9	41,300
1913	Jan. 9, 1913	-	a80,000
	Jan. 24, 1913	18.0	41,900
	Mar. 16, 1913	17.8	40,700
	Mar. 27, 1913	38.5	115,000
1914	Mar. 13, 1914	18.0	41,900
	Apr. 2, 1914	18.1	46,100
1915	Feb. 1, 1915	19.8	52,400
	July 13, 1915	18.1	42,500
1916	Nov. 17, 1915	18.4	44,300
	Dec. 18, 1915	35.0	94,300
	Dec. 31, 1915	20.8	57,200
	Jan. 13, 1916	25.5	70,000
	Mar. 30, 1916	18.4	44,300
1917	Dec. 30, 1916	17.8	40,700
	Jan. 7, 1917	26.2	72,100
	Jan. 22, 1917	36.1	111,000
	Feb. 26, 1917	17.9	41,300
	Feb. 28, 1917	19.4	50,300
	Mar. 5, 1917	23.4	62,900
	Mar. 19, 1917	18.1	42,500
	Mar. 24, 1917	18.7	46,100
1918	Jan. 31, 1918	28.1	71,700
1919	Jan. 2, 1919	32.6	96,100
	May 10, 1919	19.5	50,900
1920	Nov. 2, 1919	23.8	64,700
	Nov. 26, 1919	23.8	68,800
	Dec. 9, 1919	26.9	70,400
	Dec. 14, 1919	21.6	60,000
	Jan. 9, 1920	33.0	92,500
	Jan. 24, 1920	31.9	89,900
	Mar. 21, 1920	22.0	58,300
	Apr. 5, 1920	19.0	47,900
	Apr. 21, 1920	17.9	41,300
1921	Apr. 18, 1921	16.7	34,100
1922	Dec. 24, 1921	22.0	57,700
	Feb. 23, 1922	26.2	69,000
	Mar. 2, 1922	20.9	57,600
	Mar. 13, 1922	22.2	59,000
	Mar. 17, 1922	21.1	57,200
	Mar. 31, 1922	19.0	47,900
1923	Dec. 17, 1922	18.2	43,100
	Jan. 24, 1923	19.5	50,900
	Feb. 5, 1923	27.8	73,400
	Mar. 9, 1923	21.1	57,200
	Mar. 14, 1923	18.4	44,300
	June 13, 1923	19.6	51,400
1924	Dec. 23, 1923	18.3	43,700
	Jan. 3, 1924	34.6	99,100
	Feb. 21, 1924	18.1	42,500
1925	Dec. 9, 1924	30.0	79,200
	Feb. 18, 1925	19.4	50,300
1926	Jan. 22, 1926	23.1	62,600
1927	Dec. 26, 1926	33.7	93,700
	Jan. 22, 1927	26.6	67,300
	Mar. 10, 1927	17.7	40,100
	Apr. 1, 1927	18.1	42,500
	Apr. 11, 1927	18.1	42,500
	May 29, 1927	19.8	52,400
	June 2, 1927	24.4	67,400
1928	June 30, 1928	26.1	68,700
1929	Mar. 1, 1929	24.8	67,100
	Mar. 7, 1929	21.8	59,400
	Mar. 26, 1929	30.0	80,100
	May 4, 1929	18.1	42,500
	May 7, 1929	18.1	42,500
1930	Feb. 5, 1930	16.8	32,300
1931	Apr. 25, 1931	18.2	43,100
1932	Dec. 14, 1931	19.7	51,900
	Jan. 30, 1932	28.3	77,000
	Feb. 6, 1932	21.2	58,800
	Mar. 30, 1932	22.6	60,500
	Aug. 2, 1932	24.7	70,600
1933	Jan. 23, 1933	18.5	44,900
	Feb. 22, 1933	20.6	53,600
	Mar. 22, 1933	18.2	43,100
1934	Feb. 28, 1934	12.8	40,700
	Mar. 6, 1934	25.5	70,800
	Mar. 26, 1934	18.9	47,300
1935	Jan. 20, 1935	21.38	56,600
	Mar. 12, 1935	31.95	89,400
	Mar. 31, 1935	22.63	63,600
	Apr. 8, 1935	26.52	73,500
	May 17, 1935	20.12	54,000
	May 21, 1935	19.08	48,400
	June 6, 1935	18.80	46,700
	June 22, 1935	21.26	58,400
1936	Jan. 5, 1936	18.48	44,800
	Mar. 19, 1936	17.78	40,600
	Mar. 27, 1936	19.29	49,600
	Apr. 9, 1936	25.23	62,600
1937	Jan. 4, 1937	18.91	47,400
	Jan. 23, 1937	43.35	112,000
1938	Mar. 6, 1938	18.31	43,800
	July 16, 1938	18.42	44,000
1939	Jan. 30, 1939	20.42	51,600
	Feb. 7, 1939	33.89	84,300
	Feb. 11, 1939	18.75	46,000
	Feb. 15, 1939	21.99	55,500
	Mar. 5, 1939	23.00	62,000
	July 7, 1939	20.21	51,900
1940	Mar. 31, 1940	18.10	42,500
	Apr. 22, 1940	18.55	45,000
1941	July 7, 1941	15.93	28,400
1942	Apr. 10, 1942	18.10	42,500
	July 11, 1942	18.04	42,100
	Aug. 24, 1942	18.84	46,000
1943	Nov. 23, 1942	18.59	45,400
	Dec. 31, 1942	32.26	80,400
	Mar. 16, 1943	18.14	42,700
	Mar. 20, 1943	27.59	69,200
	Apr. 22, 1943	19.90	51,000
1944	Feb. 20, 1944	17.71	40,200
	Mar. 3, 1944	18.40	44,300
	Mar. 22, 1944	19.12	48,600
	Apr. 14, 1944	21.75	55,000
1945	Jan. 1, 1945	22.03	58,400
	Feb. 22, 1945	19.49	50,800
	Feb. 28, 1945	22.02	57,700
	Mar. 7, 1945	29.18	72,900
1946	Jan. 12, 1946	28.50	71,200
	Feb. 14, 1946	19.57	49,200
1947	Jan. 5, 1947	18.27	43,500
	July 1, 1947	19.00	46,800
1948	Feb. 17, 1948	33.75	84,100
	Apr. 9, 1948	17.90	41,300
	Apr. 14, 1948	31.05	77,300
1949	Feb. 16, 1949	24.45	61,300
	Mar. 21, 1949	17.98	41,800

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Peak stages and discharges of Kentucky River at lock 6, near Salvisa, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Dec. 13, 1949	19.07	47,100	1956	Feb. 2, 1956	19.25	49,400
	Jan. 6, 1950	26.45	66,300		Feb. 7, 1956	19.42	49,100
	Jan. 16, 1950	21.98	55,500		Feb. 15, 1956	18.76	46,500
	Feb. 2, 1950	35.04	87,100		Feb. 18, 1956	30.60	82,900
	July 27, 1950	17.70	40,100		Mar. 17, 1956	23.93	63,700
					Apr. 19, 1956	22.79	60,000
1951	Jan. 4, 1951	18.05	42,100				
	Jan. 15, 1951	18.17	42,800	1957	Dec. 16, 1956	19.82	50,400
	Feb. 5, 1951	28.18	70,500		Feb. 3, 1957	33.91	88,700
					Feb. 10, 1957	19.96	52,000
1952	Dec. 9, 1951	19.20	49,100		Apr. 4, 1957	19.55	51,200
	Dec. 17, 1951	18.21	43,200		Apr. 9, 1957	20.15	53,900
	Dec. 21, 1951	17.94	41,500				
	Jan. 30, 1952	18.37	44,100	1958	Nov. 19, 1957	18.03	42,100
	Mar. 26, 1952	30.70	77,700		May 1, 1958	22.03	57,200
					May 10, 1958	23.56	60,200
1953	Jan. 10, 1953	18.10	42,500		July 23, 1958	17.77	40,500
	Mar. 4, 1953	18.38	44,200				
				1959	Jan. 24, 1959	17.73	40,300
1954	Mar. 5, 1954	14.40	20,600				
				1960	Mar. 19, 1960	17.73	40,300
1955	Feb. 8, 1955	17.81	40,800		June 24, 1960	19.43	50,500
	Mar. 6, 1955	33.55	85,000				
	Mar. 22, 1955	29.58	76,300	1961	Feb. 28, 1961	18.22	43,200
					May 8, 1961	20.55	48,800
1956	Jan. 30, 1956	18.05	42,200				

2875. Kentucky River at lock 4, at Frankfort, Ky.

Location.--Lat 38°12'06", long 84°52'54", on left bank at downstream side of Broadway Street Bridge at Frankfort, Franklin County, 300 ft upstream from Benson Creek, 0.9 mile upstream from lock 4, and at mile 65.9. Records include flow of Benson Creek.

Drainage area.--5,412 sq mi (includes that of Benson Creek), of which about 5,292 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Dec. 27, 1939; recording thereafter. Datum of gage is 462.10 ft above mean sea level, datum of 1929. At lock 4, 0.9 mile downstream at same datum prior to Dec. 27, 1939. Difference in water surface between two sites varies but is about 0.5 ft. Auxiliary nonrecording gage at lock 5, at Tyrone, 16.3 miles upstream.

Stage-discharge relation.--Defined by current-meter measurements below 90,000 cfs.

Bankfull stage.--30 ft.

Historical data.--The crest stages of notable floods, beginning with 1817, were marked at lock 4, at Frankfort until 1883, when the timber on which the marks were recorded was washed away. A statement made in 1886 by the lockmaster gives the approximate stages as he remembered them. They are as follows: 1817, 37.5 ft; 1847, 37.0 ft; March 1854, 36.5 ft; February 1880, 37.0 ft. Flood of February 1883 reached a stage of 42.0 ft (estimated floodmark 1.5 miles upstream was 42.8 ft).

Remarks.--Discharges for 1895-1925 obtained from stage-discharge relation based on discharge measurements made during 1925-57. Gage heights prior to 1939 furnished by Corps of Engineers. Flow slightly regulated by Herrington Lake and hydroelectric plant at lock 7. Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 44,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1895	Jan. 19, 1895	16.7	41,600	1899	Jan. 10, 1899	20.7	52,400
					Jan. 14, 1899	26.5	62,600
1896	Mar. 20, 1896	19.0	47,800		Feb. 8, 1899	20.1	50,800
	Apr. 4, 1896	18.7	47,000		Mar. 8, 1899	29.6	76,400
					Apr. 1, 1899	25.7	63,900
1897	Feb. 24, 1897	32.2	76,900				
	Mar. 12, 1897	24.5	57,600	1900	Mar. 22, 1900	12.7	29,600
1898	Jan. 23, 1898	25.1	59,800	1901	Nov. 28, 1900	19.7	49,700

Peak stages and discharges of Kentucky River at lock 4, at Frankfort, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Apr. 23, 1901	24.0	57,600
1902	Jan. 30, 1902	27.0	68,000
	Mar. 31, 1902	21.3	49,000
1903	Dec. 16, 1902	28.5	70,800
	Feb. 17, 1903	24.7	59,400
	Mar. 3, 1903	22.5	56,100
1904	Mar. 27, 1904	14.5	33,400
1905	Mar. 10, 1905	20.4	50,200
1906	Mar. 31, 1906	21.1	50,800
1907	Jan. 21, 1907	29.6	63,400
	Mar. 15, 1907	20.6	47,400
1908	Feb. 15, 1908	19.3	45,200
	Apr. 2, 1908	30.3	71,300
1909	Feb. 24, 1909	34.3	82,400
	Mar. 9, 1909	25.0	58,300
1910	June 11, 1910	22.3	52,900
1911	Apr. 8, 1911	20.9	52,400
1912	Dec. 27, 1911	19.2	47,900
	Mar. 16, 1912	25.6	64,200
	Apr. 5, 1912	24.8	59,100
	Apr. 30, 1912	21.2	52,700
1913	Jan. 8, 1913	35.8	83,500
	Mar. 27, 1913	38.3	93,000
1914	Feb. 20, 1914	16.6	40,900
1915	Feb. 2, 1915	21.2	47,300
1916	Dec. 19, 1915	36.2	89,800
	Dec. 30, 1915	21.2	51,900
	Jan. 14, 1916	27.6	61,100
1917	Jan. 8, 1917	27.4	66,000
	Jan. 22, 1917	32.8	82,200
	Mar. 1, 1917	19.0	47,800
	Mar. 5, 1917	25.4	62,000
	Mar. 26, 1917	17.7	44,000
1918	Jan. 31, 1918	31.5	74,800
1919	Jan. 2, 1919	32.6	78,500
	May 10, 1919	19.1	46,600
1920	Nov. 2, 1919	26.4	60,300
	Nov. 27, 1919	25.6	58,300
	Dec. 10, 1919	29.6	67,200
	Dec. 14, 1919	22.9	51,900
	Jan. 10, 1920	33.5	82,800
	Jan. 25, 1920	32.4	78,000
	Mar. 22, 1920	23.6	55,400
1921	Apr. 19, 1921	12.6	29,300
1922	Dec. 25, 1921	27.0	57,200
	Feb. 23, 1922	27.3	65,000
	Mar. 3, 1922	20.9	48,400
	Mar. 13, 1922	23.6	57,200
	Mar. 16, 1922	22.9	52,000
1923	Jan. 24, 1923	19.0	46,400
	Feb. 6, 1923	29.8	69,300
	Mar. 9, 1923	21.3	51,800
	June 13, 1923	19.2	47,100
1924	Jan. 4, 1924	35.1	87,700
1925	Dec. 9, 1924	31.4	74,400
	Feb. 18, 1925	18.5	46,400
1926	Jan. 24, 1926	24.3	61,400
1927	Dec. 26, 1926	34.9	72,700
1927	Jan. 22, 1927	31.9	67,600
	June 3, 1927	24.6	58,500
1928	July 1, 1928	28.7	66,500
1929	Mar. 1, 1929	26.6	64,000
	Mar. 8, 1929	23.2	60,000
	Mar. 27, 1929	30.5	75,200
	May 5, 1929	16.7	45,000
1930	Feb. 5, 1930	14.7	38,400
1931	Apr. 25, 1931	16.2	43,700
1932	Dec. 14, 1931	20.9	48,700
	Feb. 2, 1932	30.3	71,800
	Mar. 31, 1932	24.6	62,000
	Aug. 3, 1932	23.7	55,500
1933	Jan. 23, 1933	20.9	46,700
	Feb. 23, 1933	21.8	57,800
1934	Mar. 6, 1934	26.9	64,500
	Mar. 26, 1934	19.1	49,000
1935	Jan. 21, 1935	23.6	61,000
	Mar. 13, 1935	33.5	79,700
	Apr. 1, 1935	24.4	62,000
	Apr. 8, 1935	28.4	69,100
	May 17, 1935	20.7	50,600
	May 21, 1935	20.2	48,000
	June 6, 1935	17.8	44,600
	June 22, 1935	22.8	55,200
1936	Jan. 5, 1936	17.8	44,100
	Mar. 27, 1936	20.6	49,300
	Apr. 10, 1936	28.2	65,900
1937	Jan. 5, 1937	18.8	45,800
	Jan. 25, 1937	47.46	115,000
1938	Mar. 6, 1938	17.2	-
	July 16, 1938	17.1	42,700
1939	Jan. 30, 1939	22.0	54,500
	Feb. 7, 1939	35.6	88,800
	Feb. 11, 1939	18.5	45,300
	Feb. 16, 1939	22.5	56,400
	Mar. 6, 1939	24.8	61,000
	July 7, 1939	19.7	49,700
1940	Apr. 23, 1940	19.0	45,700
1941	July 7, 1941	11.70	25,600
1942	Aug. 24, 1942	18.50	43,200
1943	Dec. 31, 1942	33.76	81,500
	Mar. 20, 1943	32.0	70,000
	Apr. 22, 1943	20.64	51,000
1944	Mar. 22, 1944	19.68	47,300
	Apr. 14, 1944	23.00	55,400
1945	Jan. 2, 1945	23.06	55,300
	Feb. 23, 1945	20.81	49,600
	Mar. 3, 1945	26.54	54,700
	Mar. 7, 1945	35.38	78,400
1946	Jan. 12, 1946	30.13	73,200
	Feb. 14, 1946	22.37	51,700
1947	July 1, 1947	18.77	48,100
1948	Feb. 17, 1948	35.61	88,700
	Apr. 14, 1948	35.27	88,300
1949	Feb. 16, 1949	28.10	62,500
1950	Dec. 13, 1949	20.82	48,400
	Jan. 6, 1950	31.38	68,500
	Jan. 16, 1950	25.72	57,000
	Feb. 2, 1950	37.84	87,000

Peak stages and discharges of Kentucky River at lock 4, at Frankfort, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 15, 1951	20.70	50,100	1956	Mar. 17, 1956	26.87	62,000
	Feb. 5, 1951	29.55	70,900		Apr. 19, 1956	24.19	58,600
1952	Dec. 10, 1951	20.95	49,700	1957	Dec. 17, 1956	20.40	50,400
	Jan. 30, 1952	18.35	44,700		Feb. 3, 1957	35.46	84,200
	Mar. 26, 1952	33.21	76,400		Feb. 13, 1957	21.89	51,100
					Apr. 5, 1957	22.05	50,600
1953	Mar. 4, 1953	22.06	49,100		Apr. 9, 1957	21.16	49,200
1954	Mar. 5, 1954	10.85	19,800	1958	May 1, 1958	23.45	56,800
					May 11, 1958	26.24	60,800
1955	Mar. 6, 1955	37.10	84,000				
	Mar. 22, 1955	31.79	73,800	1959	Jan. 22, 1959	19.55	42,600
1956	Feb. 3, 1956	21.18	49,500	1960	June 24, 1960	21.26	48,900
	Feb. 7, 1956	20.63	50,100				
	Feb. 15, 1956	20.26	47,000	1961	Mar. 1, 1961	19.09	44,000
	Feb. 19, 1956	31.80	75,000		May 9, 1961	30.85	58,100

2880. North Elkhorn Creek near Georgetown, Ky.

Location.--Lat 38°12'20", long 84°30'49", on left bank at upstream side of bridge on Crumbull Pike, 1.7 miles downstream from Miller Run, 2½ miles east of Georgetown, Scott County, and 2.6 miles upstream from Lanes Run.

Drainage area.--119 sq mi, of which about 111 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Sept. 18, 1952; recording thereafter. Datum of gage is 796.49 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 1, 1948	a22	-	1956	Feb. 15, 1956	12.98	3,420
					Feb. 18, 1956	12.14	3,130
1951	Jan. 4, 1951	17.72	5,560		Mar. 8, 1956	13.35	3,550
	Jan. 15, 1951	16.36	4,880				
	Feb. 13, 1951	12.71	3,330	1957	Apr. 5, 1957	14.99	4,130
1952	Dec. 21, 1951	12.84	3,370	1958	Nov. 19, 1957	11.16	2,790
	Mar. 11, 1952	11.5	2,900		Dec. 7, 1957	11.35	2,850
	Mar. 23, 1952	18.41	6,480		May 5, 1958	13.92	3,750
1953	Mar. 4, 1953	15.86	4,430	1959	Jan. 21, 1959	14.6	3,990
1954	Apr. 17, 1954	5.76	896	1960	Jan. 14, 1960	14.13	3,710
					June 24, 1960	14.77	3,920
1955	Feb. 6, 1955	12.30	3,180		July 1, 1960	12.35	3,240
	Mar. 5, 1955	12.88	3,390				
	Mar. 22, 1955	11.79	3,010	1961	Mar. 5, 1961	11.50	2,900
					Apr. 24, 1961	12.36	3,210
1956	Feb. 2, 1956	12.60	3,290		May 8, 1961	17.70	4,940

a About; from information by local resident.

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2885. Cave Creek near Fort Spring, Ky.

Location.--Lat 38°01'15", long 84°35'38", on left bank 3 ft downstream from bridge on Bowman Mill Road, 1.4 miles upstream from South Elkhorn Creek, and 2¼ miles southeast of Fort Spring, Fayette County.

Drainage area.--2.53 sq mi, of which about 1.93 sq mi contributes directly to surface runoff.

Gage.--Recording. Datum of gage is 884.26 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 3, 1953	2.6	105	1956	Mar. 7, 1956	2.40	65
	Mar. 14, 1953	2.35	60				
	May 5, 1953	2.52	87	1957	Feb. 9, 1957	2.25	50
	May 18, 1953	-	a85		Apr. 4, 1957	2.55	94
					Apr. 22, 1957	2.51	85
1954	Sept.20, 1954	2.46	76				
				1958	Dec. 7, 1957	2.38	63
1955	Mar. 21, 1955	2.52	87		July 24, 1958	2.99	207
	May 13, 1955	3.48	a400				
	May 21, 1955	2.40	65	1959	Jan. 21, 1959	2.38	63
	Aug. 7, 1955	2.49	81				
				1960	June 23, 1960	2.84	165
1956	Feb. 2, 1956	2.31	55				
	Feb. 18, 1956	2.36	61	1961	May 8, 1961	2.63	112

a About.

2890. South Elkhorn Creek at Fort Spring, Ky.

Location.--Lat 38°02'35", long 84°37'35", on right bank near upstream side of bridge on U.S. Highway 60 at Fort Spring, Fayette County, 1.5 miles upstream from Shannon Run and 6½ miles west of Lexington.

Drainage area.--24.0 sq mi, of which about 21.0 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Aug. 12, 1952; recording thereafter. Datum of gage is 834.25 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 4, 1951	7.7	1,130	1956	Feb. 18, 1956	5.50	510
	Jan. 14, 1951	7.5	1,030		Mar. 8, 1956	5.85	580
	Feb. 13, 1951	5.9	590		Mar. 14, 1956	5.62	534
1952	Dec. 8, 1951	6.1	630	1957	Feb. 10, 1957	5.53	516
	Dec. 13, 1951	5.9	590		Apr. 4, 1957	7.18	850
	Dec. 20, 1951	7.7	1,130		Apr. 22, 1957	5.53	516
	Mar. 22, 1952	8.0	1,280				
				1958	Nov. 18, 1957	6.12	634
1953	Mar. 4, 1953	6.78	766		Dec. 7, 1957	5.71	552
	May 18, 1953	6.24	658		July 22, 1958	6.37	684
					July 25, 1958	6.65	740
1954	Apr. 16, 1954	4.43	309		Aug. 1, 1958	6.59	728
1955	Feb. 6, 1955	5.64	538	1959	Jan. 21, 1959	5.69	548
	Mar. 21, 1955	6.80	770				
	May 13, 1955	7.26	867	1960	June 23, 1960	9.15	1,890
1956	Feb. 2, 1956	5.72	554	1961	May 8, 1961	6.54	720

2895. Elkhorn Creek near Frankfort, Ky.

Location.--Lat 38°16'06", long 84°48'53", on downstream side of center pier of Knights Bridge, 4¼ miles northeast of city limits of Frankfort, Franklin County, and 7.4 miles downstream from confluence of North and South Elkhorn Creeks.

Drainage area.--473 sq mi (462 sq mi at site used 1915-20), of which about 403 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Aug. 14, 1940; recording thereafter. At site 6.6 miles upstream at different datum, 1915-20. Datum of gage is 540.20 ft above mean sea level, datum of 1929. Due to drawdown effect at higher stages, water surface inside gage well is lower than the water surface of the creek. Gage heights given herein are for the creek, obtained from a relationship between the inside and outside gages.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs after 1920 and below 14,000 cfs prior to 1921.

Remarks.--Base for partial-duration series, 7,000 cfs. Only annual peaks listed prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 18, 1915	13.7	17,500	1950	June 19, 1950	10.0	9,060
1917	Jan. 22, 1917	12.5	14,800				
1918	Feb. 9, 1918	9.7	8,730	1951	Jan. 4, 1951	11.8	13,400
1919	Jan. 2, 1919	11.9	13,400		Jan. 15, 1951	11.8	13,500
1920	Dec. 7, 1919	15.3	21,100		Feb. 13, 1951	9.9	8,750
					Mar. 18, 1951	9.2	7,280
1932	Aug. 2, 1932	17.5	31,000				
				1952	Dec. 9, 1951	9.8	8,400
1937	January 1937	17.2	30,000		Dec. 21, 1951	10.2	9,280
					Jan. 4, 1952	9.2	7,350
1940	Mar. 3, 1940	11.6	14,000		Mar. 11, 1952	10.2	9,310
	Apr. 20, 1940	8.9	7,550		Mar. 23, 1952	12.2	14,400
1941	July 19, 1941	2.0	3,450	1953	Mar. 4, 1953	12.3	14,600
1942	Aug. 24, 1942	9.0	7,780	1954	Apr. 17, 1954	6.6	2,960
1943	Dec. 30, 1942	10.7	11,400	1955	Feb. 6, 1955	10.6	10,200
	Mar. 19, 1943	13.8	19,200		Feb. 22, 1955	9.1	7,080
					Feb. 28, 1955	9.4	7,500
1944	Apr. 12, 1944	7.1	3,820		Mar. 5, 1955	9.9	8,500
					Mar. 22, 1955	9.9	8,450
1945	Feb. 27, 1945	11.1	12,500				
	Mar. 6, 1945	12.2	14,900	1956	Feb. 3, 1956	10.5	10,000
					Feb. 15, 1956	10.4	9,730
1946	Feb. 14, 1946	9.6	8,840		Feb. 19, 1956	10.3	9,550
	June 18, 1946	8.8	7,110		Mar. 8, 1956	10.2	9,430
					Mar. 14, 1956	9.1	7,000
1947	Jan. 2, 1947	9.0	7,570				
	Apr. 16, 1947	9.5	8,840	1957	Feb. 10, 1957	-	a8,000
					Apr. 5, 1957	a10.5	a10,000
1948	Feb. 14, 1948	12.9	16,200				
	Mar. 16, 1948	9.9	9,780	1958	Nov. 19, 1957	12.4	14,800
	Mar. 27, 1948	10.4	10,800		Dec. 7, 1957	10.5	9,880
	Apr. 8, 1948	11.8	14,100		Dec. 26, 1957	-	a9,000
	Apr. 14, 1948	14.5	22,400		May 5, 1958	12.5	15,000
1949	Dec. 16, 1948	9.4	8,510	1959	Jan. 22, 1959	12.06	13,500
	Jan. 27, 1949	8.8	7,140				
	Feb. 15, 1949	11.6	13,400	1960	Jan. 15, 1960	10.5	9,360
					June 24, 1960	12.24	13,000
1950	Dec. 13, 1949	10.9	11,200		July 2, 1960	12.03	12,500
	Jan. 6, 1950	13.2	16,400		July 5, 1960	11.59	11,600
	Jan. 11, 1950	9.6	8,250				
	Jan. 16, 1950	9.3	7,670	1961	Mar. 5, 1961	11.4	10,900
	Feb. 1, 1950	11.2	11,800		May 8, 1961	14.01	16,300

a About.

2900. Flat Creek near Frankfort, Ky.

Location.--Lat 38°17'53", long 84°56'32", on left bank at downstream side of bridge on State Highway 421, 0.4 mile downstream from confluence of Goose Creek and Bald Knob Branch and 7 miles northwest of Frankfort, Franklin County.

Drainage area.--5.63 sq mi.

Gage.--Recording and crest-stage gages. Datum of gage is 668.65 ft above mean sea level, unadjusted. Due to drawdown and intake lag the water surface in the gage well is lower than the water surface of the creek. Gage heights given herein are for the creek, obtained from a relationship between the inside and outside gages, from floodmarks or from crest-stage gages.

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended on basis of indirect measurements at 1,840 and 7,100 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 26, 1952	8.3	1,460	1957	Apr. 8, 1957	8.20	1,800
	Mar. 10, 1952	9.2	1,770		Apr. 22, 1957	7.18	1,390
	Mar. 22, 1952	a10.3	3,460		May 22, 1957	7.62	1,570
	Apr. 13, 1952	9.1	1,730		May 25, 1957	7.56	1,540
					June 28, 1957	9.86	2,460
1953	Mar. 3, 1953	a9.3	1,940				
				1958	Nov. 18, 1957	8.98	2,110
1954	Apr. 16, 1954	5.0	542		Dec. 7, 1957	7.4	1,480
					Apr. 5, 1958	7.5	1,520
1955	Feb. 28, 1955	6.3	1,380		Apr. 29, 1958	7.0	1,320
	Mar. 20, 1955	6.3	1,380		May 4, 1958	9.93	2,490
	July 8, 1955	11.5	7,100				
	July 17, 1955	7.0	1,700	1959	Jan. 21, 1959	9.08	2,150
	July 19, 1955	10.9	4,330				
	July 24, 1955	9.1	2,640	1960	Feb. 10, 1960	7.04	1,340
					June 23, 1960	9.30	2,240
1956	Mar. 7, 1956	8.29	1,840		July 1, 1960	8.03	1,730
	June 20, 1956	9.00	2,120				
	June 21, 1956	7.47	1,510	1961	May 7, 1961	9.55	2,340
	June 22, 1956	8.15	1,780		May 8, 1961	8.08	1,750
					June 9, 1961	8.98	2,110
1957	Feb. 9, 1957	9.68	2,390		July 30, 1961	7.21	1,400
	Apr. 4, 1957	7.36	1,460		July 31, 1961	7.62	1,570

a About.

2905. Kentucky River at lock 2, at Lockport, Ky.

Location.--Lat 38°26'20", long 84°57'48", on left bank at lock 2 at Lockport, Henry County, 0.1 mile downstream from Sixmile Creek and at mile 31.0.

Drainage area.--6,180 sq mi, of which about 5,980 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. Datum of gage is 433.36 ft above mean sea level, datum of 1929. Auxiliary nonrecording gage at lock 3, 11.0 miles upstream.

Stage-discharge relation.--Defined by current-meter measurements below 86,000 cfs.

Remarks.--Gage-height record furnished by Corps of Engineers. Discharges for period 1884-1925 from rating based on measurements made during period 1925-57. Flow slightly regulated by Herrington Lake and by hydroelectric plant at lock 7. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown prior to 1907 and subsequent to 1957. Base for partial-duration series, 48,000 cfs.

Peak stages and discharges of Kentucky River at lock 2, at Lockport, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 13, 1884	40.2	68,900
1885	Jan. 17, 1885	30.1	52,800
1886	Apr. 5, 1886	39.3	75,400
1887	Feb. 28, 1887	38.8	85,500
1888	Mar. 31, 1888	18.9	33,500
1889	Nov. 10, 1888	19.7	42,000
1890	Mar. 2, 1890	41.1	-
1891	Mar. 10, 1891	33.4	-
1892	Apr. 22, 1892	29.9	57,300
1893	Feb. 21, 1893	29.7	47,300
1894	Feb. 7, 1894	20.7	42,700
1895	Jan. 19, 1895	23.5	47,000
1896	Apr. 4, 1896	26.3	50,000
1897	Feb. 25, 1897	38.2	-
1898	Jan. 24, 1898	33.7	-
1899	Mar. 9, 1899	38.8	-
1900	Mar. 22, 1900	16.3	34,500
1901	Apr. 24, 1901	31.4	61,000
1902	Feb. 1, 1902	32.8	65,600
1903	Dec. 16, 1902	34.5	68,500
1904	Mar. 26, 1904	23.7	37,700
1905	Mar. 11, 1905	25.6	50,500
1906	Mar. 31, 1906	29.0	57,100
1907	Jan. 20, 1907	40.5	75,500
	Mar. 15, 1907	32.0	55,900
1908	Feb. 15, 1908	28.2	55,600
	Apr. 2, 1908	37.6	77,300
1909	Feb. 25, 1909	43.0	81,600
	Mar. 10, 1909	34.1	67,200
1910	June 11, 1910	29.2	60,900
1911	Apr. 8, 1911	26.6	52,200
1912	Mar. 16, 1912	32.0	64,600
	Apr. 5, 1912	33.3	62,300
	Apr. 30, 1912	28.0	56,000
1913	Jan. 12, 1913	45.4	92,200
	Mar. 28, 1913	45.5	93,200
1914	Feb. 20, 1914	26.3	49,300
1915	Feb. 2, 1915	29.6	58,000
1916	Dec. 19, 1915	40.7	90,200
	Jan. 1, 1916	27.8	53,600
	Jan. 14, 1916	35.3	71,200
1917	Jan. 8, 1917	31.9	67,000
	Jan. 23, 1917	37.0	77,800
	Mar. 7, 1917	31.7	62,600
1918	Feb. 1, 1918	40.3	79,200
1919	Jan. 3, 1919	37.8	78,000
1920	Nov. 3, 1919	32.9	65,600
	Nov. 27, 1919	32.0	60,900
	Dec. 10, 1919	35.7	75,500
	Jan. 10, 1920	38.1	80,400
	Jan. 26, 1920	39.4	79,000
	Mar. 22, 1920	33.2	60,100
	Apr. 21, 1920	29.1	48,200
1921	Feb. 11, 1921	14.9	32,000
1922	Dec. 25, 1921	38.2	72,400
	Feb. 24, 1922	32.2	66,200
	Mar. 3, 1922	25.8	52,200
	Mar. 16, 1922	33.2	59,700
1923	Feb. 4, 1923	36.7	73,000
	Mar. 10, 1923	27.0	53,100
	June 14, 1923	24.3	49,000
1924	Jan. 5, 1924	41.9	83,100
1925	Dec. 10, 1924	35.7	75,500
1926	Jan. 25, 1926	31.5	68,500
1927	Dec. 27, 1926	40.7	83,900
	Jan. 23, 1927	41.7	84,400
	Apr. 2, 1927	22.5	51,000
	Apr. 12, 1927	21.9	50,000
	June 3, 1927	30.4	60,500
1928	July 1, 1928	36.0	75,700
1929	Jan. 26, 1929	21.6	49,300
	Mar. 1, 1929	33.3	66,000
	Mar. 8, 1929	31.4	60,400
	Mar. 28, 1929	34.3	73,000
1930	Feb. 6, 1930	20.8	47,300
1931	Apr. 25, 1931	19.9	44,900
1932	Dec. 15, 1931	27.6	53,200
	Feb. 4, 1932	37.4	77,900
	Mar. 31, 1932	32.0	60,700
	Aug. 3, 1932	31.7	63,000
1933	Jan. 23, 1933	30.6	60,000
	Feb. 23, 1933	25.8	59,000
	Mar. 22, 1933	32.9	60,000
1934	Mar. 7, 1934	32.3	69,800
	Mar. 27, 1934	24.7	50,500
1935	Jan. 21, 1935	29.8	65,000
	Mar. 15, 1935	38.5	79,700
	Apr. 2, 1935	29.8	61,600
	Apr. 9, 1935	33.5	71,500
	May 18, 1935	27.1	53,300
	May 22, 1935	28.3	58,000
	June 6, 1935	22.1	50,000
	June 23, 1935	29.0	63,000
1936	Mar. 28, 1936	33.7	52,100
	Apr. 10, 1936	36.6	76,700
1937	Jan. 11, 1937	26.9	51,500
	Jan. 26, 1937	56.85	123,000
1938	Mar. 7, 1938	22.1	-
	July 17, 1938	21.0	44,600
1939	Feb. 8, 1939	42.9	87,500
	Feb. 16, 1939	31.8	62,100
	Mar. 6, 1939	33.7	66,500
	Apr. 17, 1939	30.3	53,300
	July 8, 1939	24.0	49,000
1940	Mar. 3, 1940	29.0	53,000
	Apr. 23, 1940	31.3	49,300
1941	July 8, 1941	14.3	28,500
1942	Aug. 24, 1942	23.4	51,400
1943	Nov. 24, 1942	24.4	50,000
	Dec. 31, 1942	39.6	90,200
	Mar. 17, 1943	26.1	51,500
	Mar. 21, 1943	42.3	80,000
	Apr. 23, 1943	27.6	49,000
1944	Mar. 23, 1944	27.9	51,400
	Apr. 15, 1944	30.4	57,000
1945	Jan. 2, 1945	29.5	62,000
	Feb. 23, 1945	29.4	56,100
	Mar. 3, 1945	39.6	71,800
	Mar. 7, 1945	46.7	93,900
1946	Jan. 12, 1946	35.8	76,400
	Feb. 14, 1946	29.3	64,000

Peak stages and discharges of Kentucky River at lock 2, at Lockport, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 5, 1947	22.0	51,000	1952	Jan. 31, 1952	28.5	48,600
	Jan. 23, 1947	22.9	49,000		Mar. 26, 1952	39.9	82,500
	July 1, 1947	22.6	52,700	1953	Mar. 4, 1953	30.0	62,400
1948	Feb. 18, 1948	41.5	92,200				
	Mar. 27, 1948	28.4	52,000	1954	Mar. 5, 1954	12.5	19,600
	Apr. 14, 1948	43.5	95,800	1955	Mar. 6, 1955	44.25	93,000
1949	Jan. 6, 1949	23.8	49,000		Mar. 22, 1955	39.2	80,600
	Jan. 25, 1949	25.6	48,400				
	Feb. 16, 1949	35.3	75,900	1956	Feb. 3, 1956	30.1	59,600
	Mar. 21, 1949	21.2	49,900		Feb. 19, 1956	39.05	78,900
					Mar. 18, 1956	35.8	68,700
1950	Dec. 14, 1949	27.4	52,700		Apr. 19, 1956	29.5	61,300
	Jan. 7, 1950	39.7	80,700				
	Jan. 16, 1950	36.0	66,100	1957	Dec. 17, 1956	25.6	51,800
	Feb. 3, 1950	43.8	91,400		Feb. 4, 1957	40.20	86,300
					Feb. 11, 1957	30.2	60,100
1951	Jan. 5, 1951	26.3	51,700		Apr. 5, 1957	31.8	63,200
	Jan. 16, 1951	31.1	58,900				
	Feb. 6, 1951	35.0	69,700	1958	May 11, 1958	36.20	66,100
	Feb. 14, 1951	27.1	50,800	1959	Jan. 22, 1959	31.7	58,100
	Mar. 19, 1951	25.2	48,200	1960	June 24, 1960	29.7	62,000
1952	Dec. 10, 1951	27.4	57,200	1961	May 9, 1961	43.15	82,200
	Dec. 22, 1951	25.2	49,900				

2910. Big Eagle Creek at Sadieville, Ky.

Location.--Lat 38°23'22", long 84°32'36", on left bank 15 ft upstream from Spoon Branch, a quarter of a mile west of Sadieville, Scott County, and 5.8 miles upstream from Little Eagle Creek.

Drainage area.--42.9 sq mi, includes that of Spoon Branch.

Gage.--Recording. Datum of gage is 757.18 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs.

Bankfull stage.--8 ft.

Remarks.--Only annual peak shown for 1941. Records include flow of Spoon Branch. Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	August 1932	a22	-	1948	Apr. 8, 1948	11.55	3,320
					Apr. 13, 1948	16.27	6,280
1941	July 19, 1941	13.16	3,990				
				1949	Dec. 15, 1948	11.56	3,320
1942	Mar. 13, 1942	11.14	3,140		June 16, 1949	10.41	2,850
	Apr. 9, 1942	11.30	3,200				
				1950	Dec. 12, 1949	11.47	3,400
1943	Mar. 19, 1943	21.96	9,870		Jan. 5, 1950	10.54	2,970
					Feb. 9, 1950	11.64	3,490
1944	Mar. 6, 1944	10.07	2,730		June 19, 1950	19.43	8,100
1945	Jan. 1, 1945	11.2	3,160	1951	Jan. 3, 1951	11.49	3,420
	Feb. 22, 1945	11.25	3,160		Jan. 14, 1951	11.76	3,550
	Feb. 26, 1945	13.74	4,400				
	Mar. 2, 1945	13.10	4,060	1952	Dec. 20, 1951	10.52	2,960
	Mar. 6, 1945	17.60	6,860		Mar. 10, 1952	13.45	4,400
					Mar. 22, 1952	13.51	4,420
1946	Feb. 13, 1946	12.96	4,000				
	Mar. 26, 1946	14.25	4,710	1953	Mar. 3, 1953	15.02	5,310
	June 17, 1946	11.95	3,460				
				1954	June 13, 1954	10.83	3,080
1947	Jan. 2, 1947	12.96	4,000				
	Jan. 30, 1947	10.68	2,960	1955	July 18, 1955	11.40	3,370
	Apr. 16, 1947	16.54	6,460		Aug. 7, 1955	11.00	3,170
1948	Feb. 13, 1948	18.02	7,110	1956	Feb. 2, 1956	10.90	3,120
	Feb. 28, 1948	10.28	2,800		June 20, 1956	10.32	2,880
	Mar. 16, 1948	10.48	2,880				
	Mar. 27, 1948	15.69	5,790	1957	Feb. 10, 1957	12.46	3,900

a About.

Peak stages and discharges of Big Eagle Creek at Sadieville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 4, 1957	14.97	5,280	1960	Nov. 27, 1959	10.16	2,810
	Apr. 8, 1957	11.65	3,500		Jan. 15, 1960	11.53	3,440
					Feb. 10, 1960	10.78	3,060
1958	Nov. 19, 1957	-	a3,000		June 23, 1960	11.20	3,270
	May 4, 1958	13.78	4,570		July 1, 1960	14.65	5,090
1959	Jan. 20, 1959	12.19	3,760	1961	Mar. 5, 1961	14.21	4,830
					May 7, 1961	17.20	6,620
1960	Oct. 8, 1959	12.77	4,060		May 9, 1961	10.51	2,950

a About.

2915. Eagle Creek at Glencoe, Ky.

Location.--Lat 38°42'18", long 84°49'26", on left bank 600 ft upstream from bridge on State Highway 16, 0.6 mile south of Glencoe, Gallatin County, 5.8 miles downstream from Tenmile Creek, and 22 miles upstream from mouth.

Drainage area.--437 sq mi.

Gage.--Nonrecording prior to Oct. 20, 1960; recording thereafter. At site 600 ft downstream at same datum Oct. 1, 1950, to Oct. 19, 1960. Datum of gage is 508.36 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 24,000 cfs.

Remarks.--Base for partial-duration series, 12,000 cfs. Only annual peaks are shown prior to 1929 and for 1937.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	23.0	-	1944	Apr. 23, 1944	13.0	11,300
1915	December 1914	19.5	24,000	1945	Feb. 22, 1945	15.4	15,200
					Feb. 26, 1945	18.8	22,200
1916	Dec. 17, 1915	-	27,000		Mar. 3, 1945	16.8	18,000
1917	May 28, 1917	-	27,000		Mar. 6, 1945	22.8	31,100
1918	Feb. 9, 1918	17.0	17,600		Mar. 20, 1945	14.3	13,100
1919	Mar. 17, 1919	18.0	20,700				
1920	Apr. 20, 1920	20.5	26,300	1946	Feb. 6, 1946	14.7	13,900
					Feb. 13, 1946	14.6	13,700
1928	June 29, 1928	15.5	14,800		Mar. 26, 1946	16.5	17,000
1929	Jan. 24, 1929	13.8	12,800	1947	Jan. 2, 1947	15.7	13,700
	Apr. 10, 1929	14.2	13,500		Jan. 15, 1947	14.9	14,200
	May 14, 1929	19.0	22,600		Jan. 30, 1947	14.3	13,100
					Apr. 16, 1947	16.0	15,900
1930	Nov. 14, 1929	14.9	13,600				
	Dec. 18, 1929	14.2	13,500	1948	Feb. 14, 1948	21.4	28,000
	Jan. 9, 1930	14.0	13,100		Mar. 16, 1948	16.2	16,300
	Feb. 26, 1930	15.0	13,700		Mar. 27, 1948	16.7	17,400
					Apr. 12, 1948	21.0	27,000
1931	Apr. 4, 1931	15.31	14,200				
				1949	Dec. 15, 1948	18.7	21,700
1937	January 1937	21.7	29,300		Jan. 24, 1949	16.0	15,900
					Jan. 27, 1949	14.2	12,400
1939	Jan. 30, 1939	18.1	20,600		Feb. 15, 1949	15.7	15,300
	Feb. 15, 1939	14.7	13,900		Mar. 26, 1949	14.7	13,100
	Mar. 5, 1939	18.1	20,600				
	Mar. 11, 1939	19.95	24,900	1950	Jan. 6, 1950	19.9	24,600
	Apr. 6, 1939	14.7	13,900		Feb. 9, 1950	17.8	19,600
	Apr. 16, 1939	16.6	17,600		Apr. 3, 1950	13.4	12,400
	Aug. 14, 1939	14.9	14,200		June 4, 1950	16.4	17,200
					June 20, 1950	17.2	18,800
1940	Feb. 18, 1940	14.1	12,800				
	Mar. 3, 1940	21.5	28,200	1951	Nov. 20, 1950	15.4	15,500
	Apr. 20, 1940	15.9	16,200		Jan. 3, 1951	15.6	15,900
					Jan. 14, 1951	16.3	17,300
1941	June 10, 1941	13.2	11,600		Mar. 18, 1951	15.2	15,100
1942	Apr. 9, 1942	16.6	18,000	1952	Dec. 21, 1951	13.7	12,600
					Mar. 11, 1952	15.2	15,300
1943	Mar. 11, 1943	15.3	15,000		Mar. 22, 1952	18.4	21,500
	Mar. 19, 1943	23.6	32,900		Apr. 13, 1952	13.4	12,100

Peak stages and discharges of Eagle Creek at Glencoe, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 3, 1953	15.6	16,000	1957	Apr. 4, 1957	20.1	24,900
					June 29, 1957	15.0	14,900
1954	Jan. 21, 1954	9.5	6,140		July 5, 1957	22.53	31,400
1955	Feb. 6, 1955	14.0	13,100	1958	Nov. 19, 1957	18.2	21,100
	Feb. 27, 1955	18.0	20,700		Dec. 7, 1957	17.7	20,100
	Mar. 15, 1955	17.1	18,900		Apr. 6, 1958	18.1	20,900
					Apr. 29, 1958	16.9	18,500
1956	Jan. 30, 1956	18.4	21,500		May 4, 1958	18.6	22,000
	Feb. 2, 1956	20.4	25,600				
	Feb. 15, 1956	15.3	15,500	1959	Jan. 21, 1959	19.0	22,900
	Feb. 18, 1956	17.1	18,900		Feb. 14, 1959	16.6	17,900
	Feb. 25, 1956	20.6	26,000				
	Mar. 7, 1956	16.5	17,700	1960	Dec. 12, 1959	13.6	12,400
	May 28, 1956	14.0	13,100		June 23, 1960	20.6	26,500
	June 22, 1956	18.6	21,900		July 1, 1960	a18	a21,000
	Sept.16, 1956	18.4	21,500				
				1961	Mar. 6, 1961	18.78	23,400
1957	Feb. 10, 1957	14.0	13,100		May 8, 1961	21.60	30,500

a About.

OHIO RIVER MAIN STEM

2920. Ohio River at Madison, Ind.

Location.--Lat 38°43'56", long 85°22'36", 150 ft upstream from Jefferson Street, Madison, Jefferson County, and 2.2 miles upstream from Crooked Creek.

Drainage area.--90,580 sq mi, approximately.

Gage.--Nonrecording. At site 650 ft downstream at same datum prior to October 1943. Datum of gage is 403.20 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 25, 1937	72.3	-	1942	Mar. 20, 1942	38.20	391,000
				1943	Mar. 23, 1943	52.7	638,000
1939	Feb. 8, 1939	50.1	585,000	1944	Apr. 15, 1944	42.0	468,000
1940	Apr. 25, 1940	50.7	596,000	1945	Mar. 7, 1945	61.4	829,000
1941	June 10, 1941	29.50	261,000	1946	Jan. 12, 1946	40.9	441,000

BEARGRASS CREEK BASIN

2925. South Fork Beargrass Creek at Louisville, Ky.

Location.--Lat 38°12'39", long 85°42'07", on upstream side of right abutment of Trevilian Way Bridge at Louisville, Jefferson County, 4.9 miles upstream from confluence with Middle Fork and 6.4 miles upstream from Ohio River.

Drainage area.--17.2 sq mi.

Gage.--Recording. At datum 2.00 ft higher prior to Oct. 29, 1953. Datum of gage is 448.60 ft above mean sea level, Louisville city datum, adjustment of 1912. Gage heights given herein converted to present datum.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Remarks.--Gage-height record for 1941-44 furnished by Corps of Engineers. Base for partial-duration series, 300 cfs.

Peak stages and discharges of South Fork Beargrass Creek at Louisville, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	12.53	1,360	1952	Dec. 21, 1951	10.56	512
	Apr. 19, 1940	11.10	555		Jan. 4, 1952	11.62	890
					Mar. 11, 1952	10.72	546
1941	June 23, 1941	6.95	90		Mar. 22, 1952	11.23	712
1942	Mar. 15, 1942	10.0	352	1953	Mar. 3, 1953	10.12	424
	Apr. 9, 1942	12.4	1,030				
	June 20, 1942	11.9	808	1954	Sept.20, 1954	8.07	840
	June 22, 1942	11.4	628				
	July 7, 1942	10.3	396	1955	Feb. 22, 1955	5.03	325
					Mar. 15, 1955	5.29	416
1943	Nov. 21, 1942	10.25	386		Mar. 21, 1955	5.81	497
	Dec. 30, 1942	10.3	396		July 10, 1955	4.90	360
	Mar. 11, 1943	10.25	386				
	Mar. 19, 1943	15.1	-	1956	Feb. 2, 1956	6.79	497
					Feb. 15, 1956	7.77	853
1944	May 5, 1944	8.6	207		Feb. 18, 1956	5.77	490
					Feb. 25, 1956	7.11	721
1945	Mar. 3, 1945	11.73	741		Mar. 7, 1956	7.59	816
	Mar. 6, 1945	13.62	1,890				
				1957	Apr. 4, 1957	6.15	554
1946	Feb. 6, 1946	10.90	442		May 22, 1957	4.85	354
	Feb. 13, 1946	11.04	528		June 28, 1957	5.32	420
	Mar. 26, 1946	10.14	370		July 23, 1957	5.27	412
1947	Apr. 16, 1947	9.97	346	1958	Nov. 18, 1957	6.42	600
					July 21, 1958	5.32	420
1948	Feb. 14, 1948	11.54	677		Sept.20, 1958	4.44	301
	Mar. 27, 1948	10.74	462				
	Apr. 8, 1948	10.41	409	1959	Jan. 21, 1959	8.86	1,180
	Apr. 12, 1948	12.51	1,080				
				1960	Nov. 5, 1959	4.59	371
1949	Jan. 27, 1949	10.88	486		Jan. 14, 1960	4.35	342
	Feb. 15, 1949	10.84	478		Feb. 5, 1960	4.09	311
					Feb. 10, 1960	4.15	318
1950	Jan. 6, 1950	11.02	636		June 23, 1960	11.82	2,220
	Jan. 10, 1950	10.08	416		June 28, 1960	6.02	574
	Jan. 14, 1950	9.49	308		July 3, 1960	5.65	518
	Jan. 16, 1950	10.93	609		Aug. 5, 1960	4.41	349
	Feb. 9, 1950	12.07	1,120				
	Feb. 14, 1950	11.24	692	1961	Mar. 5, 1961	8.24	1,180
	Apr. 3, 1950	10.35	470		Mar. 8, 1961	4.40	410
	May 10, 1950	13.08	1,860		Apr. 23, 1961	4.35	402
	June 20, 1950	11.68	920		May 7, 1961	10.76	1,870
					July 14, 1961	4.32	398
1951	Jan. 14, 1951	11.39	776				
	Mar. 18, 1951	10.67	534				

2930. Middle Fork Beargrass Creek at Cannons Lane, at Louisville, Ky.

Location.--Lat 38°14'14", long 85°39'52", on right bank at downstream side of bridge at Louisville, Jefferson County, 1.7 miles downstream from Weicher Creek, 5.7 miles upstream from confluence with South Fork, and 7.4 miles upstream from Ohio River.

Drainage area.--18.9 sq mi, of which about 18.4 sq mi contributes directly to surface runoff.

Gage.--Recording. Datum of gage is 477.70 ft above mean sea level, Louisville city datum, 1912 adjustment.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	February 1943	a8.1	-	1946	Mar. 26, 1946	3.56	606
					June 19, 1946	3.94	791
1945	Feb. 26, 1945	4.5	1,100				
	Mar. 3, 1945	3.96	789	1947	Jan. 15, 1947	3.97	791
	Mar. 6, 1945	4.94	1,810		Apr. 16, 1947	3.75	680
					June 2, 1947	4.07	839
1946	Feb. 6, 1946	3.94	791				
	Feb. 13, 1946	3.94	791	1948	Feb. 13, 1948	4.34	1,020

a From information by local residents.

Peak stages and discharges of Middle Fork Beargrass Creek at Cannons Lane, at Louisville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 16, 1948	3.85	758	1953	Mar. 3, 1953	3.98	768
	Mar. 27, 1948	3.98	833				
	Apr. 8, 1948	4.03	858	1954	Sept.20, 1954	4.78	1,570
	Apr. 12, 1948	4.90	1,750				
				1955	Mar. 21, 1955	4.18	640
1949	Jan. 27, 1949	4.04	853		July 9, 1955	4.54	1,240
	Feb. 15, 1949	4.13	898				
				1956	Oct. 6, 1955	3.77	655
1950	Jan. 6, 1950	4.13	858		Feb. 2, 1956	4.01	786
	Jan. 15, 1950	3.96	756		Feb. 15, 1956	4.45	1,060
	Feb. 8, 1950	4.76	1,540		Feb. 25, 1956	3.99	774
	Feb. 14, 1950	4.23	918		Mar. 7, 1956	3.74	640
	Apr. 3, 1950	3.86	700				
	May 10, 1950	5.11	2,080	1957	Feb. 9, 1957	4.72	1,490
	June 3, 1950	3.89	715		Apr. 4, 1957	4.14	864
	June 19, 1950	4.77	1,560		June 28, 1957	3.97	762
	Aug. 29, 1950	5.14	2,120				
				1958	Nov. 18, 1957	4.13	884
1951	Nov. 20, 1950	4.25	930				
	Dec. 3, 1950	3.85	695	1959	Jan. 21, 1959	4.60	1,320
	Jan. 3, 1951	3.66	600				
	Jan. 14, 1951	4.52	1,220	1960	June 23, 1960	5.83	3,300
	Mar. 18, 1951	4.14	864		June 28, 1960	4.12	758
					July 3, 1960	4.24	874
1952	Jan. 4, 1952	4.58	1,290				
	Mar. 10, 1952	4.22	912	1961	Mar. 5, 1961	4.36	1,010
	Mar. 22, 1952	4.32	972		May 7, 1961	5.31	2,400
	June 21, 1952	3.76	650				

SILVER CREEK BASIN

2940. Silver Creek near Sellersburg, Ind.

Location.--Lat 38°22'15", long 85°43'35", in SW¼ lot 68, Clark Military Grant, on upstream side of Straws Mill bridge on Watson Road, 0.3 mile downstream from Pleasant Run, 2.4 miles southeast of Sellersburg, and 11.9 miles upstream from mouth.

Drainage area.--188 sq mi.

Gage.--Nonrecording. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,400 cfs and by contracted-opening measurements at 16,600 cfs and 19,600 cfs.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 22, 1955	19.00	4,220	1958	Nov. 19, 1957	21.16	6,000
	Feb. 27, 1955	19.83	4,860		Dec. 7, 1957	19.60	4,450
	Mar. 16, 1955	15.75	2,770		Dec. 20, 1957	20.81	5,640
	Mar. 22, 1955	17.25	3,560		Dec. 26, 1957	15.30	2,570
					Jan. 21, 1958	16.52	3,310
1956	Jan. 30, 1956	16.00	2,850		July 23, 1958	17.00	3,490
	Feb. 2, 1956	21.60	6,400				
	Feb. 15, 1956	18.84	4,150	1959	Jan. 16, 1959	16.10	3,170
	Feb. 18, 1956	18.30	3,960		Jan. 22, 1959	30.89	19,600
	Feb. 26, 1956	21.80	6,600		Feb. 10, 1959	17.20	3,560
	Mar. 8, 1956	17.20	3,560		Feb. 15, 1959	21.20	6,000
1957	Feb. 10, 1957	20.37	5,320	1960	Jan. 15, 1960	15.38	2,610
	Feb. 27, 1957	17.66	3,740		Feb. 6, 1960	17.11	3,350
	Apr. 4, 1957	21.90	6,700		June 14, 1960	22.00	6,800
	Apr. 8, 1957	17.80	3,780		June 24, 1960	29.1	16,400
	May 19, 1957	15.90	2,810		July 1, 1960	20.30	5,240
	May 23, 1957	23.61	8,520				
				1961	Mar. 6, 1961	17.05	3,300
1958	Nov. 14, 1957	16.43	3,280		May 9, 1961	28.17	14,800

2945. Ohio River at Louisville, Ky.

Location.--Lat 38°16'40", long 85°47'39", on left bank at downstream end of lock wall in lower pool at lock 41, at Louisville, Jefferson County, 5.0 miles downstream from Beargrass Creek and at mile 607.0.

Drainage area.--91,170 sq mi, approximately.

Gage.--Nonrecording. Gage heights given herein converted to present site and datum. Datum of gage is 374.00 ft above mean sea level, Ohio River datum.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Records listed herein were compiled from published reports of the Mississippi River Commission and the U.S. Geological Survey and from unpublished gage-height records of the Corps of Engineers. Values of discharge prior to 1928 were computed from a stage-discharge relation based on discharge measurements made during the period 1931-57. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1832	Feb. 21, 1832	69.6	701,000	1912	Mar. 28, 1912	56.4	501,000
				1913	Apr. 2, 1913	72.7	769,000
1848	Dec. 17, 1847	68.8	686,000	1914	Apr. 5, 1914	49.6	417,000
				1915	Feb. 8, 1915	57.5	516,000
1858	June 17, 1858	44.4	355,000				
1859	Feb. 24, 1859	59.6	543,000	1916	Jan. 15, 1916	58.9	534,000
				1917	Mar. 19, 1917	58.2	525,000
1866	Sept.27, 1866	43.9	350,000	1918	Feb. 14, 1918	54.0	470,000
1867	Mar. 15, 1867	64.3	612,000	1919	Jan. 7, 1919	55.0	483,000
1868	Mar. 31, 1868	50.9	433,000	1920	Mar. 23, 1920	59.2	538,000
1869	Apr. 4, 1869	51.1	435,000				
				1921	Mar. 12, 1921	45.1	363,000
1872	Apr. 14, 1872	47.43	391,000	1922	Dec. 28, 1921	59.9	548,000
1873	Feb. 21, 1873	43.8	349,000	1923	Feb. 6, 1923	54.5	476,000
1874	Feb. 26, 1874	49.7	418,000	1924	Jan. 7, 1924	60.6	557,000
1875	Aug. 8, 1875	57.1	510,000	1925	Feb. 19, 1925	49.8	360,000
1876	Jan. 30, 1876	60.1	550,000	1926	Jan. 26, 1926	50.1	423,000
1877	Jan. 21, 1877	57.3	513,000	1927	Jan. 27, 1927	62.8	589,000
1878	Mar. 18, 1878	34.1	242,000	1928	Dec. 22, 1927	50.8	432,000
1879	Dec. 17, 1878	44.6	358,000	1929	Mar. 6, 1929	55.1	515,000
1880	Feb. 19, 1880	57.6	517,000	1930	Jan. 16, 1930	46.1	382,000
1881	Feb. 17, 1881	49.7	418,000	1931	Apr. 6, 1931	44.8	375,000
1882	Feb. 22, 1882	65.1	624,000	1932	Feb. 5, 1932	56.8	535,000
1883	Feb. 16, 1883	72.2	750,000	1933	Mar. 23, 1933	66.1	704,000
1884	Feb. 16, 1884	74.4	825,000	1934	Mar. 10, 1934	48.1	410,000
1885	Jan. 21, 1885	49.1	411,000	1935	Mar. 18, 1935	57.0	558,000
1886	Apr. 10, 1886	60.5	556,000	1936	Mar. 28, 1936	63.7	622,000
1887	Feb. 6, 1887	60.5	556,000	1937	Jan. 26, 1937	85.44	1,110,000
1888	Apr. 1, 1888	42.7	337,000	1938	Mar. 21, 1938	44.2	346,000
1889	Feb. 23, 1889	38.7	293,000	1939	Feb. 9, 1939	61.96	635,000
1890	Mar. 28, 1890	63.3	596,000	1940	Apr. 25, 1940	61.9	598,000
1891	Feb. 26, 1891	60.1	550,000	1941	June 10, 1941	35.9	274,000
1892	Apr. 23, 1892	49.5	416,000	1942	Mar. 18, 1942	47.8	402,000
1893	Feb. 22, 1893	56.5	502,000	1943	Mar. 23, 1943	65.1	617,000
1894	Feb. 14, 1894	37.3	277,000	1944	Apr. 16, 1944	51.7	463,000
1895	Jan. 15, 1895	48.2	400,000	1945	Mar. 7, 1945	74.4	843,000
1896	Apr. 5, 1896	49.9	421,000	1946	Jan. 13, 1946	50.0	477,000
1897	Feb. 28, 1897	63.1	594,000	1947	Jan. 24, 1947	43.6	352,000
1898	Mar. 30, 1898	64.1	608,000	1948	Apr. 18, 1948	68.0	687,000
1899	Mar. 10, 1899	60.4	555,000	1949	Jan. 29, 1949	56.4	510,000
1900	Feb. 17, 1900	38.6	292,000	1950	Feb. 6, 1950	63.4	609,000
1901	Apr. 28, 1901	61.0	563,000	1951	Dec. 10, 1950	58.0	526,000
1902	Mar. 9, 1902	52.5	452,000	1952	Feb. 3, 1952	60.0	560,000
1903	Mar. 9, 1903	56.4	501,000	1953	Mar. 7, 1953	40.15	314,000
1904	Mar. 28, 1904	50.6	429,000	1954	Mar. 7, 1954	33.40	237,000
1905	Mar. 14, 1905	49.1	411,000	1955	Mar. 10, 1955	63.82	608,000
	May 17, 1905	49.1	411,000				
				1956	Mar. 19, 1956	57.22	524,000
1906	Apr. 3, 1906	53.9	469,000	1957	Apr. 12, 1957	55.50	493,000
1907	Jan. 22, 1907	69.1	713,000	1958	May 12, 1958	60.13	557,000
1908	Apr. 6, 1908	58.9	534,000	1959	Jan. 26, 1959	57.44	519,000
1909	Feb. 27, 1909	60.6	557,000	1960	Apr. 6, 1960	44.8	362,000
1910	Jan. 18, 1910	56.1	497,000				
				1961	May 10, 1961	62.0	593,000
1911	Feb. 6, 1911	50.3	426,000				

2950. Salt River near Harrodsburg, Ky.

Location.--Lat 37°45'26", long 84°52'23", near center of span on downstream side of bridge on State Highway 152, 1½ miles west of Harrodsburg, Mercer County, and 11 miles downstream from Quirks Run.

Drainage area.--41.4 sq mi, of which about 39.4 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. Datum of gage is 810.60 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 3, 1953	11.50	2,670	1957	Apr. 4, 1957	15.0	4,140
	May 19, 1953	12.30	2,960		Apr. 8, 1957	11.1	2,520
1954	Apr. 16, 1954	8.07	1,540	1958	Nov. 18, 1957	15.1	4,190
					Dec. 7, 1957	10.3	2,240
1955	Feb. 28, 1955	12.5	3,040		Jan. 24, 1958	12.05	2,860
	Mar. 21, 1955	10.7	2,380		July 21, 1958	-	a2,500
1956	Jan. 30, 1956	12.0	2,840	1959	Jan. 21, 1959	a15.0	a4,000
	Feb. 2, 1956	12.0	2,840				
	Feb. 15, 1956	11.0	2,490	1960	June 23, 1960	11.3	2,600
	Feb. 18, 1956	12.2	2,920				
	Mar. 14, 1956	12.4	3,000	1961	May 7, 1961	15.6	3,990
	July 24, 1956	15.0	4,140		June 9, 1961	11.4	2,420
					June 15, 1961	11.1	2,320
1957	Feb. 10, 1957	10.8	2,420				

a About.

2955. Salt River near Van Buren, Ky.

Location.--Lat 37°58'06", long 85°08'03", on right bank at downstream side of Goodnight Bridge, 1.8 miles east of Van Buren, Anderson County, and 2.3 miles upstream from Crooked Creek.

Drainage area.--196 sq mi, of which about 192 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Feb. 6, 1953; recording thereafter. Datum of gage is 535.38 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 5,400 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	-	22.2	20,000	1943	Dec. 30, 1942	16.1	9,690
					Mar. 19, 1943	14.8	7,940
1937	January 1937	19.6	15,000				
				1944	Apr. 11, 1944	12.4	5,330
1939	Jan. 30, 1939	15.2	8,460				
	Feb. 2, 1939	13.7	6,620	1945	Feb. 26, 1945	16.1	9,690
	Mar. 5, 1939	18.4	13,200		Mar. 6, 1945	15.3	8,590
	Apr. 16, 1939	17.0	11,000				
				1946	Feb. 13, 1946	15.7	9,130
1940	Mar. 3, 1940	15.9	9,410				
	Mar. 30, 1940	16.9	10,900	1947	Jan. 2, 1947	13.9	6,850
					Apr. 16, 1947	15.4	8,720
1941	Jan. 24, 1941	9.6	2,770				
				1948	Feb. 13, 1948	19.3	14,700
1942	Mar. 13, 1942	13.4	6,290		Mar. 27, 1948	13.7	6,620
	Apr. 9, 1942	14.0	6,970		Apr. 13, 1948	17.5	11,800
	Aug. 23, 1942	17.3	11,500				

Peak stages and discharges of Salt River near Van Buren, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 15, 1949	16.35	10,000	1955	Feb. 6, 1955	13.36	6,250
					Feb. 22, 1955	12.71	5,590
1950	Dec. 12, 1949	16.4	10,100		Mar. 16, 1955	13.26	6,140
	Jan. 5, 1950	15.5	8,850				
	Jan. 13, 1950	13.0	5,880	1956	Feb. 2, 1956	14.81	7,950
	Jan. 26, 1950	13.4	6,290		Feb. 15, 1956	15.13	8,370
	Feb. 1, 1950	15.6	8,990		Mar. 8, 1956	13.73	6,650
	June 19, 1950	15.3	8,590				
				1957	Apr. 4, 1957	17.25	11,400
1951	Jan. 3, 1951	14.8	7,940				
	Jan. 14, 1951	14.6	7,690	1958	Nov. 18, 1957	19.12	14,400
	Feb. 12, 1951	13.7	6,620		Dec. 7, 1957	13.46	6,360
	Mar. 18, 1951	12.6	5,480		July 21, 1958	18.02	12,600
					Aug. 2, 1958	13.92	6,870
1952	Dec. 8, 1951	13.1	5,980				
	Dec. 21, 1951	12.8	5,680	1959	Jan. 21, 1959	16.43	10,200
	Jan. 2, 1952	13.5	6,400				
	Mar. 11, 1952	12.6	5,480	1960	June 23, 1960	16.27	9,930
	Mar. 22, 1952	17.4	11,600		Sept.17, 1960	12.59	5,470
1953	Mar. 3, 1953	16.10	9,690	1961	Mar. 5, 1961	14.16	7,160
	May 17, 1953	13.66	6,580		May 7, 1961	18.62	13,600
1954	Apr. 16, 1954	9.91	3,240				

2956. Brashears Creek at Taylorsville, Ky.

Location.--Lat 38°01'49", long 85°21'05", on downstream side of bridge on State Highways 44 and 55, 0.3 mile upstream from mouth, at Taylorsville, Spencer County.

Drainage area.--262 sq mi, of which about 261 sq mi contributes directly to surface runoff.

Gage.--Recording since May 25, 1948. At site 200 ft downstream at same datum May 25, 1948, to Sept. 9, 1957. Datum of gage is 463.30 ft above mean sea level, datum of 1929.

Bankfull stage.--20 ft.

Remarks.--Only annual peak stages are shown. Stages affected by backwater from Salt River. Gage heights furnished by Corps of Engineers prior to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	February 1909	31.6	-	1949	Feb. 15, 1949	24.40	-
				1950	June 20, 1950	25.73	-
1913	January 1913	30.1	-				
				1951	Jan. 15, 1951	27.21	-
1928	June 1928	28.1	-	1952	Mar. 22, 1952	28.02	-
1929	-	28.1	-	1953	Mar. 3, 1953	27.48	-
				1954	Sept.20, 1954	18.19	-
1935	May 1935	26.4	-	1955	Feb. 6, 1955	23.18	-
1936	February 1936	28.4	-	1956	Feb. 2, 1956	24.74	-
1937	January 1937	31.3	-	1957	Apr. 4, 1957	28.42	-
1939	March 1939	28.4	-	1959	Jan. 22, 1959	26.53	-
1940	March 1940	28.8	-	1960	June 23, 1960	26.50	-
1943	March 1943	30.6	-	1961	May 8, 1961	32.28	-
1945	March 1945	27.7	-				

2960. Plum Creek subwatershed No. 4 near Simpsonville, Ky.

Location.--Lat 38°10'27", long 85°22'05", near center of upstream side of Tucker Dam on tributary to Plum Creek, a quarter of a mile upstream from mouth and 3.5 miles south of Simpsonville, Shelby County.

Drainage area.--1.55 sq mi.

Gage.--Recording. Datum of gage is 687.99 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by reservoir No. 4 (capacity, 365 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 24, 1955	17.48	129	1959	Jan. 21, 1959	18.59	138
				1960	June 23, 1960	20.22	145
1956	Mar. 7, 1956	18.78	139				
1957	Apr. 4, 1957	20.80	147	1961	May 7, 1961	22.42	153

2965. Plum Creek near Wilsonville, Ky.

Location.--Lat 38°06'20", long 85°26'14", on left bank 1.0 mile downstream from Drakes Branch, 2.2 miles southwest of Wilsonville, Spencer County, and 3.7 miles upstream from Little Plum Creek.

Drainage area.--19.1 sq mi.

Gage.--Recording. Datum of gage is 582.99 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended on basis of contracted-opening measurement at 5,180 cfs.

Bankful stage.--6 ft.

Remarks.--Regulated by seven small detention reservoirs. Base for partial-duration series, 1,800 cfs. Only annual peak is shown for 1954.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Sept.20, 1954	5.29	2,680	1958	Apr. 29, 1958	4.73	2,130
					July 21, 1958	4.96	2,390
1955	Feb. 27, 1955	4.71	2,100		Aug. 1, 1958	6.59	4,180
	Mar. 21, 1955	4.48	1,860				
	Apr. 24, 1955	-	a2,200	1959	Jan. 20, 1959	4.80	2,210
	July 26, 1955	5.28	2,670		Jan. 21, 1959	5.70	3,200
1956	Feb. 2, 1956	4.98	2,370	1960	Jan. 14, 1960	5.19	2,490
	Feb. 15, 1956	4.55	1,940		Feb. 10, 1960	4.77	2,070
	Feb. 17, 1956	5.22	2,610		June 23, 1960	7.92	5,180
	Mar. 7, 1956	5.47	2,860		June 28, 1960	4.50	1,800
					July 3, 1960	5.27	2,570
1957	Apr. 4, 1957	6.37	3,940				
	June 28, 1957	4.98	2,410	1961	Mar. 5, 1961	4.83	2,130
					May 7, 1961	5.99	3,290
1958	Nov. 18, 1957	a5.5	2,980				

a About.

2967. Plum Creek subwatershed No. 15 (Little Plum Creek) near Wilsonville, Ky.

Location.--Lat 38°05'44", long 85°24'41", on right bank on upstream side of dam on Reservoir No. 15 on Little Plum Creek, 2.1 miles south of Wilsonville, Spencer County, and 2.8 miles upstream from mouth.

Drainage area.--1.03 sq mi.

Gage.--Recording. Datum of gage is 627.81 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by reservoir No. 15 (capacity, 225 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 4, 1957	23.14	116	1960	June 23, 1960	29.0	124
1958	Nov. 18, 1957	21.24	111				
1959	Jan. 21, 1959	20.16	109	1961	May 7, 1961	20.8	110

2970. Little Plum Creek near Waterford, Ky.

Location.--Lat 38°03'44", long 85°25'45", on right bank 800 ft upstream from mouth and 1.7 miles north of Waterford, Spencer County.

Drainage area.--5.15 sq mi.

Gage.--Recording. Datum of gage is 506.37 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and extended on basis of slope-area measurement at 3,810 cfs.

Bankfull stage.--6 ft.

Remarks.--Flow regulated by three small detention reservoirs. Base for partial-duration series, 750 cfs. Only annual peak is shown for 1954.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Sept.20, 1954	4.74	1,280	1958	Apr. 29, 1958	3.74	813
					May 4, 1958	4.33	1,080
1955	Feb. 27, 1955	3.70	795		July 7, 1958	3.80	840
	Mar. 21, 1955	3.60	750		July 11, 1959	3.98	921
	Apr. 24, 1955	4.21	1,020		July 18, 1958	3.84	858
	July 24, 1955	4.41	1,120		July 21, 1958	4.57	1,200
1956	Feb. 2, 1956	3.88	876	1959	Jan. 21, 1959	4.00	930
	Feb. 14, 1956	3.81	844				
	Feb. 17, 1956	4.28	1,060	1960	Jan. 14, 1960	3.90	885
	Mar. 7, 1956	3.83	854		Feb. 10, 1960	3.69	790
	June 24, 1956	4.15	998		June 23, 1960	6.12	3,810
					June 28, 1960	4.76	1,430
1957	Apr. 4, 1957	4.81	1,320		July 3, 1960	4.74	1,420
	May 22, 1957	4.32	1,070				
	June 28, 1957	4.18	1,010	1961	Mar. 5, 1961	3.82	849
					Apr. 23, 1961	4.99	1,650
1958	Nov. 18, 1957	4.53	1,180		May 7, 1961	4.93	1,590

2975. Plum Creek at Waterford, Ky.

Location.--Lat 38°03'05", long 85°25'55", on right bank 0.7 mile downstream from Little Plum Creek, 1.0 mile north of Waterford, Spencer County, and 3.2 miles upstream from mouth.

Drainage area.--31.8 sq mi.

Gage.--Recording. Datum of gage is 479.70 ft above mean sea level (levels by Soil Conservation Service).

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs and extended on basis of contracted-opening measurement at 13,200 cfs.

Bankfull stage.--5 ft.

Remarks.--Flow regulated by 11 small detention reservoirs. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Sept.20, 1954	6.80	6,040	1958	July 21, 1958	6.09	4,760
					Aug. 1, 1958	6.81	6,060
1955	Feb. 27, 1955	4.78	2,710		Sept.26, 1958	4.73	2,640
	Apr. 24, 1955	4.88	2,850				
	July 24, 1955	4.63	2,500	1959	Jan. 20, 1959	5.45	3,720
					Jan. 21, 1959	7.19	6,820
1956	Feb. 2, 1956	5.64	4,020				
	Feb. 15, 1956	4.72	2,630	1960	Nov. 27, 1959	4.70	2,600
	Feb. 17, 1956	5.81	4,300		Jan. 14, 1960	7.08	6,050
	Mar. 7, 1956	4.96	2,960		Feb. 5, 1960	4.67	2,560
	June 25, 1956	4.83	2,780		Feb. 10, 1960	6.00	4,420
					June 23, 1960	11.84	13,200
1957	Apr. 4, 1957	7.66	7,760		June 28, 1960	6.59	5,260
	May 22, 1957	5.47	3,750		July 3, 1960	7.41	6,580
	June 28, 1957	5.89	4,420		Aug. 4, 1960	5.12	3,190
1958	Nov. 18, 1957	6.75	5,950	1961	Feb. 25, 1961	4.84	2,570
	Apr. 29, 1958	5.22	3,350		Mar. 5, 1961	6.60	5,200
	May 4, 1958	4.76	2,680		Mar. 21, 1961	5.08	2,920
	July 7, 1958	5.96	4,540		Apr. 23, 1961	7.35	6,320
	July 18, 1958	4.98	2,990		May 7, 1961	9.03	8,170

2980. Floyds Fork at Fisherville, Ky.

Location.--Lat 38°11'18", long 85°27'37", on left bank on downstream side of bridge on former State Highway 155, at Fisherville, Jefferson County, 0.2 mile downstream from Brush Run and 1.5 miles upstream from Poke Lick.

Drainage area.--138 sq mi.

Gage.--Recording. Datum of gage is 542.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8,300 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	16.8	-	1948	Feb. 13, 1948	13.04	9,730
					Mar. 27, 1948	11.17	7,430
1943	-	15.7	-		Apr. 12, 1948	13.34	10,100
1945	Feb. 22, 1945	10.33	6,340	1949	Feb. 15, 1949	10.47	6,540
	Feb. 26, 1945	12.83	9,470				
	Mar. 3, 1945	12.14	8,560	1950	Jan. 6, 1950	10.67	6,760
	Mar. 6, 1945	12.70	9,340		Feb. 8, 1950	13.06	11,400
					Apr. 3, 1950	11.10	7,450
1946	Feb. 6, 1946	11.27	7,560		May 10, 1950	13.12	11,500
	Feb. 13, 1946	11.12	7,300		May 31, 1950	10.93	7,140
	Mar. 26, 1946	10.92	7,060		June 3, 1950	10.77	6,900
1947	Jan. 2, 1947	10.74	6,820	1951	Nov. 20, 1950	11.38	8,010
	Jan. 15, 1947	10.83	6,940		Jan. 3, 1951	10.88	7,070

Peak stages and discharges of Floyds Fork at Fisherville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 14, 1951	12.42	10,100	1956	Feb. 18, 1956	10.06	6,120
					Mar. 7, 1956	10.04	6,090
1952	Dec. 4, 1951	10.47	6,460				
	Jan. 4, 1952	10.40	6,350	1957	Feb. 9, 1957	12.31	9,280
	Mar. 10, 1952	10.99	7,240		Apr. 4, 1957	12.38	9,400
	Mar. 22, 1952	11.20	7,650				
				1958	Nov. 18, 1957	11.52	7,950
1953	Mar. 3, 1953	10.72	6,830				
				1959	Jan. 21, 1959	11.50	7,920
1954	Sept.20, 1954	12.17	9,590				
				1960	June 23, 1960	13.7	11,800
1955	Mar. 21, 1955	9.82	5,810				
				1961	Mar. 5, 1961	11.89	8,880
1956	Feb. 2, 1956	11.61	8,470		May 8, 1961	14.7	15,800
	Feb. 15, 1956	11.01	7,510				

2985. Salt River at Shepherdsville, Ky.

Location.--Lat 37°59'06", long 85°43'03", near right bank on downstream side of pier of bridge on State Highway 61 at Shepherdsville, Bullitt County, 500 ft downstream from Louisville & Nashville Railroad bridge and 2.5 miles downstream from Floyds Fork.

Drainage area.--1,197 sq mi.

Gage.--Recording. Datum of gage is 406.62 ft above mean sea level, datum of 1929. Since Oct. 1, 1946, auxiliary nonrecording gage on Floyds Fork 2.8 miles upstream. Prior to Oct. 1, 1946, auxiliary gages at various sites downstream from base gage.

Stage-discharge relation.--Defined by current-meter measurements below 40,000 cfs.

Bankfull stage.--32 ft.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 18,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 26, 1937	a47.3	-	1948	Mar. 27, 1948	26.63	24,500
					Apr. 13, 1948	33.37	38,500
1939	Jan. 31, 1939	23.90	23,200				
	Feb. 3, 1939	27.24	24,200	1949	Jan. 6, 1949	20.90	18,100
	Mar. 6, 1939	29.90	33,600		Jan. 28, 1949	27.22	22,700
	Apr. 17, 1939	28.60	29,200		Feb. 15, 1949	29.64	31,800
1940	Feb. 19, 1940	21.54	18,900	1950	Dec. 13, 1949	27.00	26,200
	Mar. 4, 1940	31.0	38,400		Jan. 6, 1950	31.09	31,200
	Apr. 20, 1940	26.03	21,000		Jan. 14, 1950	31.46	22,800
					Feb. 1, 1950	27.64	22,500
1941	Jan. 25, 1941	14.06	11,200		Feb. 9, 1950	27.90	19,500
					Feb. 14, 1950	24.41	19,600
1942	Apr. 10, 1942	24.74	23,700		Apr. 4, 1950	23.55	20,000
					May 11, 1950	22.23	19,700
1943	Dec. 30, 1942	28.47	25,900		June 14, 1950	20.80	18,000
	Mar. 12, 1943	23.41	19,500		June 21, 1950	26.95	27,000
	Mar. 20, 1943	35.84	50,000				
				1951	Jan. 4, 1951	24.92	23,400
1944	Apr. 12, 1944	20.86	18,000		Jan. 15, 1951	30.76	31,400
					Feb. 13, 1951	24.76	20,900
1945	Jan. 2, 1945	21.06	18,300		Mar. 18, 1951	23.55	21,100
	Feb. 27, 1945	31.48	35,300				
	Mar. 3, 1945	32.47	30,200	1952	Dec. 4, 1951	20.62	18,700
	Mar. 7, 1945	38.04	43,200		Dec. 9, 1951	23.73	20,800
					Dec. 21, 1951	22.40	20,600
1946	Feb. 6, 1946	24.80	23,700		Jan. 5, 1952	26.21	23,000
	Feb. 14, 1946	24.62	24,600		Mar. 11, 1952	27.21	25,800
	Mar. 27, 1946	23.38	20,000		Mar. 23, 1952	32.68	38,600
1947	Jan. 3, 1947	24.46	22,700	1953	Mar. 4, 1953	29.14	29,900
	Apr. 16, 1947	23.21	22,400		May 18, 1953	23.38	20,200
1948	Feb. 14, 1948	32.08	38,600	1954	Sept.21, 1954	18.70	16,000

a Maximum stage known, from floodmark (backwater from Ohio River).

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Peak stages and discharges of Salt River at Shepherdsville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 7, 1955	25.03	22,500	1958	Dec. 8, 1957	23.60	18,900
	Feb. 22, 1955	23.15	21,900				
	Feb. 28, 1955	26.43	20,400	1959	Jan. 22, 1959	30.77	30,200
	Mar. 22, 1955	26.90	20,700				
				1960	Jan. 15, 1960	21.42	19,500
1956	Feb. 3, 1956	27.29	22,500		Feb. 11, 1960	20.78	18,700
	Feb. 15, 1956	26.13	22,100		June 24, 1960	29.02	29,300
	Feb. 19, 1956	27.99	22,300				
				1961	Mar. 6, 1961	34.14	33,900
1957	Apr. 5, 1957	30.70	27,900		May 9, 1961	40.84	57,700
1958	Nov. 19, 1957	30.32	29,800				

2990. Rolling Fork near Lebanon, Ky.

Location.--Lat 37°29'50", long 85°19'26", on left bank at downstream side of bridge on U.S. Highway 68 and State Highway 55, 2.2 miles downstream from Buckhorn Creek, 5.4 miles southwest of city limits of Lebanon, Marion County, and 14½ miles downstream from confluence of North and South Forks.

Drainage area.--239 sq mi.

Gage.--Nonrecording prior to May 28, 1953; recording thereafter. Datum of gage is 580.74 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs.

Remarks.--Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	a24.7	-	1950	Jan. 5, 1950	20.05	14,800
					Jan. 31, 1950	20.0	14,700
1939	Jan. 29, 1939	18.7	11,200		June 14, 1950	17.1	8,300
	Feb. 3, 1939	19.3	12,600				
	Feb. 15, 1939	18.1	10,000	1951	Jan. 4, 1951	20.05	14,800
	Mar. 5, 1939	19.9	14,400		Jan. 14, 1951	16.8	7,850
	Apr. 16, 1939	18.6	11,000				
	June 19, 1939	22.28	26,000	1952	Dec. 8, 1951	19.5	13,200
					Mar. 11, 1952	20.05	14,800
1940	Mar. 30, 1940	17.40	8,530		Mar. 22, 1952	21.0	19,000
1941	Apr. 5, 1941	15.58	6,140	1953	Mar. 3, 1953	17.2	8,450
1942	Apr. 9, 1942	18.0	9,680	1954	Apr. 17, 1954	15.65	6,390
1943	Dec. 29, 1942	19.7	13,800	1955	Feb. 22, 1955	17.58	9,770
	Mar. 11, 1943	17.2	8,450		Feb. 27, 1955	17.48	9,620
	Mar. 19, 1943	20.0	16,200		Mar. 16, 1955	19.12	12,400
					Mar. 22, 1955	18.83	11,900
1944	Apr. 11, 1944	18.9	12,200				
				1956	Jan. 30, 1956	19.21	12,600
1945	Jan. 1, 1945	22.4	26,500		Feb. 2, 1956	17.54	9,710
	Feb. 22, 1945	18.2	10,200		Feb. 18, 1956	20.12	15,100
	Feb. 27, 1945	18.4	10,600		Mar. 14, 1956	17.31	9,380
	Mar. 5, 1945	20.6	17,000		Apr. 15, 1956	17.57	9,760
	Apr. 25, 1945	17.0	8,150				
				1957	Jan. 23, 1957	18.39	11,000
1946	Feb. 13, 1946	18.0	9,680		Jan. 29, 1957	18.06	10,500
					Apr. 4, 1957	19.83	14,200
1947	Jan. 2, 1947	16.7	7,700		Apr. 8, 1957	18.84	11,900
	May 21, 1947	17.7	9,200				
	July 7, 1947	19.9	15,800	1958	Nov. 18, 1957	21.24	20,200
					Dec. 20, 1957	17.25	9,300
1948	Feb. 13, 1948	20.2	17,000		Jan. 25, 1958	17.02	8,980
	Mar. 16, 1948	18.7	11,600		July 20, 1958	15.96	7,630
	Apr. 13, 1948	21.4	22,000				
				1959	Jan. 22, 1959	17.05	9,020
1949	Feb. 14, 1949	22.1	24,700				
	June 16, 1949	19.15	12,200	1960	Jan. 15, 1960	15.47	7,100
1950	Dec. 12, 1949	18.9	11,600	1961	May 7, 1961	18.66	11,500

a Maximum stage known; from information by local residents.

3000. Beech Fork near Springfield, Ky.

Location.--Lat 37°42'15", long 85°08'45", near center of span on upstream side of bridge on State Highway 152, 50 ft downstream from Pleasant Run and 4½ miles east of Springfield, Washington County.

Drainage area.--85.9 sq mi.

Gage.--Nonrecording. Datum of gage is 677.82 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,100 cfs and extended on basis of contracted-opening measurement at 8,280 cfs.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 3, 1953	19.8	4,180	1957	Apr. 4, 1957	26.0	7,280
	May 5, 1953	17.3	3,000		Apr. 8, 1957	21.4	4,980
					May 22, 1957	19.0	3,780
1954	Apr. 16, 1954	16.1	2,560				
				1958	Nov. 18, 1957	27.0	8,280
1955	Feb. 6, 1955	20.0	4,280		July 12, 1958	a20	4,280
	Feb. 27, 1955	20.7	4,630		July 20, 1958	a22.5	5,580
	Mar. 16, 1955	20.5	4,530				
	Mar. 21, 1955	19.2	3,880	1959	Jan. 21, 1959	22.05	5,310
1956	Jan. 30, 1956	21.0	4,780	1960	Nov. 27, 1959	21.10	4,830
	Feb. 2, 1956	20.0	4,280		Feb. 5, 1960	18.79	3,680
	Feb. 15, 1956	20.6	4,580		Feb. 11, 1960	18.49	3,520
	Feb. 18, 1956	22.0	5,280		June 23, 1960	19.53	4,040
	Mar. 14, 1956	21.2	4,880		June 28, 1960	18.63	3,600
	July 24, 1956	24.0	6,480				
				1961	Mar. 6, 1961	17.5	3,080
1957	Jan. 23, 1957	19.2	3,880		May 7, 1961	27.8	8,840
	Jan. 28, 1957	19.4	3,980				

a About.

3010. Beech Fork at Bardstown, Ky.

Location.--Lat 37°47'49", long 85°28'51", near center of span on downstream side of bridge on U.S. Highway 31E, 0.1 mile downstream from Rowan Creek and 1 mile southwest of Bardstown, Nelson County.

Drainage area.--669 sq mi.

Gage.--Nonrecording. Datum of gage is 439.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	29.18	14,600	1945	Mar. 6, 1945	28.7	13,700
	Apr. 20, 1940	24.75	10,300				
				1946	Feb. 14, 1946	34.5	21,100
1941	Jan. 25, 1941	17.75	6,130		Mar. 27, 1946	23.7	9,590
1942	Apr. 10, 1942	28.6	14,600	1947	Jan. 2, 1947	28.6	14,600
	June 27, 1942	25.9	11,200		Apr. 16, 1947	28.0	13,000
					May 22, 1947	26.3	12,000
1943	Dec. 30, 1942	35.7	22,700		Aug. 16, 1947	23.7	9,590
	Mar. 11, 1943	27.4	12,500				
	Mar. 20, 1943	31.3	16,500	1948	Feb. 14, 1948	39.2	25,600
	May 11, 1943	26.6	11,800		Mar. 16, 1948	31.4	16,200
					Mar. 27, 1948	26.7	12,200
1944	Mar. 20, 1944	22.9	9,300		Apr. 13, 1948	34.9	20,000
	Apr. 12, 1944	24.9	11,200				
				1949	Nov. 6, 1948	26.7	12,200
1945	Jan. 2, 1945	31.7	16,900		Dec. 16, 1948	31.3	16,200
	Feb. 22, 1945	26.9	12,000		Jan. 6, 1949	26.4	11,900
	Feb. 27, 1945	36.8	24,100		Feb. 15, 1949	38.5	24,600

Peak stages and discharges of Beech Fork at Bardstown, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 20, 1949	23.0	9,440	1955	Mar. 22, 1955	30.8	15,900
	Mar. 19, 1949	23.2	9,570				
	June 17, 1949	31.2	16,000	1956	Jan. 30, 1956	31.1	15,200
					Feb. 3, 1956	34.0	18,700
1950	Dec. 13, 1949	39.25	27,100		Feb. 16, 1956	31.8	16,000
	Jan. 6, 1950	37.6	24,600		Feb. 19, 1956	30.0	14,100
	Jan. 13, 1950	31.45	16,600		Mar. 8, 1956	28.5	12,600
	Jan. 27, 1950	24.6	10,200		Mar. 14, 1956	25.3	10,000
	Feb. 1, 1950	37.2	24,000		June 21, 1956	24.2	9,240
	June 14, 1950	33.7	19,300		July 25, 1956	30.0	14,100
	June 21, 1950	28.1	13,100				
				1957	Jan. 23, 1957	26.5	10,900
1951	Nov. 21, 1950	23.90	9,730		Apr. 5, 1957	36.4	22,200
	Jan. 4, 1951	33.60	19,200		Apr. 9, 1957	24.0	9,100
	Jan. 15, 1951	34.80	20,700		May 23, 1957	26.2	10,700
	Feb. 8, 1951	23.50	9,450				
	Feb. 13, 1951	30.30	15,300	1958	Nov. 19, 1957	39.5	27,600
	Mar. 18, 1951	24.90	10,400		Dec. 8, 1957	28.4	12,600
					Dec. 20, 1957	25.3	10,000
1952	Nov. 26, 1951	25.7	11,100		Jan. 24, 1958	26.8	11,100
	Dec. 9, 1951	33.7	19,300		Apr. 11, 1958	24.0	9,100
	Dec. 15, 1951	23.4	9,380		May 6, 1958	31.5	15,600
	Dec. 21, 1951	27.1	12,200		July 12, 1958	26.5	10,900
	Jan. 3, 1952	26.2	11,500		July 19, 1958	25.0	9,800
	Mar. 11, 1952	33.0	18,500				
	Mar. 23, 1952	38.2	25,500	1959	Jan. 21, 1959	39.0	26,700
					July 23, 1959	27.0	11,300
1953	Mar. 4, 1953	34.4	20,200				
	Mar. 15, 1953	29.2	14,200	1960	Nov. 28, 1959	28.6	12,700
	May 17, 1953	30.35	15,400		Jan. 15, 1960	24.4	9,380
					Feb. 10, 1960	27.8	12,000
1954	Apr. 17, 1954	21.8	8,280		June 24, 1960	28.8	12,900
					June 30, 1960	26.0	10,500
1955	Feb. 7, 1955	32.8	18,300				
	Feb. 23, 1955	28.6	13,600	1961	Feb. 26, 1961	24.5	9,450
	Feb. 28, 1955	31.7	16,900		Mar. 5, 1961	33.0	17,400
	Mar. 6, 1955	28.6	13,600		May 9, 1961	38.7	26,200
	Mar. 16, 1955	23.5	9,450				

3015. Rolling Fork near Boston, Ky.

Location.--Lat 37°46'02", long 85°42'14", on downstream side near center of span of bridge on U.S. Highway 62 and State Highway 61, 0.4 mile downstream from Beech Fork and 2.3 miles southwest of Boston, Nelson County.

Drainage area.--1,299 sq mi.

Gage.--Nonrecording. At bridge 1,400 ft upstream at same datum prior to Apr. 22, 1941. Datum of gage is 400.42 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage prior to May 19, 1939, and after Feb. 4, 1942; recording auxiliary gage May 19, 1939, to Feb. 4, 1942. Prior to Feb. 5, 1942, at mouth of Rolling Fork 20 miles downstream from present base gage. Feb. 5, 1942, to Sept. 30, 1957, at site 3.5 miles downstream from present base gage. Since Oct. 1, 1957, at State Highway 434 bridge, 7.6 miles downstream from present base gage.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--30 ft.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 16,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	a55.2	-	1940	Apr. 21, 1940	38.1	16,800
1939	Feb. 1, 1939	40.98	26,300	1941	Apr. 7, 1941	29.6	6,960
	Feb. 4, 1939	40.95	23,900				
	Feb. 17, 1939	37.2	16,900	1942	Apr. 10, 1942	38.0	18,600
	Mar. 7, 1939	40.8	24,400				
	Apr. 18, 1940	40.1	22,200	1943	Dec. 31, 1942	43.9	38,300
					Mar. 13, 1943	38.0	20,200
1940	Mar. 4, 1940	38.8	19,100		Mar. 21, 1943	42.4	23,300

a From floodmark (backwater from Ohio River).

Peak stages and discharges of Rolling Fork near Boston, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 13, 1944	36.4	15,600	1952	Mar. 24, 1952	45.3	33,400
1945	Jan. 3, 1945	40.1	25,400	1953	Mar. 5, 1953	41.50	26,300
	Feb. 23, 1945	37.6	18,100		May 18, 1953	39.20	21,200
	Feb. 28, 1945	43.9	31,000				
	Mar. 7, 1945	45.5	24,500	1954	Apr. 18, 1954	34.1	13,300
1946	Feb. 15, 1946	41.6	28,000	1955	Feb. 8, 1955	40.0	22,900
	Mar. 28, 1946	37.4	20,600		Feb. 24, 1955	38.7	19,700
					Mar. 1, 1955	41.5	23,000
1947	Jan. 4, 1947	37.8	17,300		Mar. 23, 1955	41.0	21,300
1948	Feb. 15, 1948	45.6	41,300	1956	Feb. 1, 1956	39.7	22,600
	Mar. 17, 1948	38.4	18,800		Feb. 4, 1956	42.3	25,700
	Mar. 28, 1948	38.3	18,100		Feb. 16, 1956	-	21,200
	Apr. 15, 1948	44.4	29,800		Feb. 19, 1956	42.3	21,600
					Mar. 9, 1956	36.6	16,200
1949	Dec. 18, 1948	39.6	23,700		Apr. 16, 1956	35.5	16,800
	Feb. 17, 1949	45.9	39,400		July 26, 1956	37.0	21,600
	June 18, 1949	37.2	16,700				
				1957	Jan. 25, 1957	37.7	19,400
1950	Dec. 14, 1949	44.7	35,100		Jan. 31, 1957	36.75	16,600
	Jan. 7, 1950	46.6	37,000		Apr. 6, 1957	43.6	30,400
	Jan. 14, 1950	46.0	38,200				
	Feb. 2, 1950	46.0	35,700	1958	Nov. 20, 1957	45.8	37,500
	June 15, 1950	37.3	18,100		Dec. 9, 1957	37.8	17,500
					Dec. 22, 1957	37.8	17,600
1951	Jan. 5, 1951	41.0	25,600		Jan. 27, 1958	37.1	16,500
	Jan. 16, 1951	42.6	28,300		July 14, 1958	36.8	16,200
	Feb. 9, 1951	-	b16,000				
	Feb. 14, 1951	40.4	22,500	1959	Jan. 22, 1959	44.3	32,000
1952	Nov. 27, 1951	37.25	17,800	1960	Nov. 29, 1959	36.5	30,500
	Dec. 10, 1951	41.5	27,600				
	Dec. 22, 1951	37.2	18,400	1961	Mar. 7, 1961	42.75	22,400
	Mar. 12, 1952	41.0	24,500		May 9, 1961	47.15	32,000

b About.

3020. Pond Creek near Louisville, Ky.

Location.--Lat 38°07'10", long 85°47'48", on right bank 300 ft downstream from bridge on Manslick Road, 1.6 miles downstream from confluence of Northern and Southern ditches, and about 3 miles south of Iroquois Park in Louisville, Jefferson County.

Drainage area.--64.0 sq mi.

Gage.--Recording. Datum of gage is 434.38 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Maximum stage known, about 19 ft in January 1937 (backwater from Ohio River), from information by local residents.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	a19	-	1948	Feb. 13, 1948	15.80	1,620
					Mar. 27, 1948	15.06	1,500
1945	Feb. 22, 1945	13.12	1,340		Apr. 13, 1948	17.78	2,060
	Feb. 26, 1945	16.12	1,870				
	Mar. 3, 1945	14.99	1,670	1949	Jan. 27, 1949	14.73	1,430
	Mar. 6, 1945	16.76	2,000		Feb. 15, 1949	15.30	1,530
	Mar. 20, 1945	13.12	1,340		Mar. 10, 1949	14.15	1,330
	June 17, 1945	-	b1,300				
				1950	Jan. 6, 1950	15.63	1,590
1946	Feb. 6, 1946	15.45	1,740		Jan. 10, 1950	14.45	1,380
	Feb. 13, 1946	15.27	1,720		Jan. 16, 1950	14.36	1,360
	Mar. 26, 1946	14.58	1,600		Feb. 14, 1950	14.98	1,380
					Apr. 3, 1950	14.95	1,380
1947	Jan. 2, 1947	14.47	1,390		May 10, 1950	16.35	1,600
	Apr. 16, 1947	14.93	1,460		June 4, 1950	14.84	1,360

a About; maximum stage known, from information by local residents (backwater from Ohio River).
b About.

Peak stages and discharges of Pond Creek near Louisville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 20, 1950	14.49	1,300	1957	Apr. 4, 1957	13.34	2,290
					May 22, 1957	13.32	2,280
1951	Jan. 3, 1951	14.96	1,340		June 28, 1957	12.86	2,080
	Jan. 14, 1951	16.70	1,690				
				1958	Nov. 14, 1957	12.36	1,860
1952	Jan. 4, 1952	15.25	1,400		Nov. 18, 1957	14.01	2,590
	Mar. 11, 1952	15.15	1,380		Dec. 7, 1957	11.66	1,580
	Mar. 22, 1952	15.33	1,420		Dec. 20, 1957	11.17	1,410
					July 22, 1958	11.45	1,510
1953	Mar. 3, 1953	14.91	1,330				
				1959	Jan. 21, 1959	15.37	3,260
1954	Sept.20, 1954	10.06	607				
				1960	Jan. 14, 1960	13.39	2,320
1955	Feb. 21, 1955	14.25	1,350		Feb. 5, 1960	11.20	1,420
	Feb. 26, 1955	13.99	1,300		June 23, 1960	15.17	2,490
	Mar. 21, 1955	14.42	1,380		June 28, 1960	11.48	1,520
1956	Jan. 30, 1956	13.18	1,300	1961	Feb. 28, 1961	10.86	1,300
	Feb. 2, 1956	15.02	1,660		Mar. 6, 1961	15.63	2,720
	Feb. 15, 1956	14.39	1,540		Mar. 21, 1961	11.24	1,550
	Feb. 18, 1956	14.16	1,490		Apr. 23, 1961	14.35	2,450
	Mar. 7, 1956	14.96	1,650		May 8, 1961	17.11	3,080

INDIAN CREEK BASIN

3025. Indian Creek near Corydon, Ind.
(Previously published as "Big Indian Creek")

Location.--Lat 38°16'35", long 86°06'35", in SE¼ sec.6, T.3 S., R.4 E., on upstream side of bridge on State Highway 335, 0.6 mile upstream from Raccoon Branch and 4½ miles north of Corydon.

Drainage area.--129 sq mi.

Gage.--Nonrecording prior to Dec. 9, 1948; recording thereafter. Datum of gage is 577.12 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended on basis of contracted-opening measurement at 23,800 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 19, 1943	a22.4	-	1951	Jan. 4, 1951	14.27	5,100
					Jan. 14, 1951	15.9	6,820
1944	Apr. 11, 1944	14.0	4,860		Feb. 21, 1951	13.82	4,620
					Mar. 18, 1951	14.75	5,600
1945	Feb. 26, 1945	15.9	6,900				
	Mar. 2, 1945	15.2	6,130	1952	Mar. 11, 1952	18.76	10,400
	Mar. 6, 1945	19.2	11,000		Mar. 22, 1952	14.23	5,000
					June 21, 1952	13.93	4,710
1946	Feb. 14, 1946	15.0	5,910				
				1953	Mar. 3, 1953	14.57	5,400
1947	Jan. 2, 1947	13.7	4,560				
	June 2, 1947	14.3	5,160	1954	Sept.20, 1954	14.04	4,800
1948	Apr. 12, 1948	19.3	11,100	1955	Mar. 15, 1955	12.98	3,900
1949	Nov. 19, 1948	14.8	5,600	1956	Feb. 2, 1956	15.21	6,040
	Jan. 24, 1949	13.69	4,530		Feb. 15, 1956	15.13	5,930
	Jan. 27, 1949	14.99	5,820		Feb. 18, 1956	14.39	5,200
	Feb. 15, 1949	13.92	4,710		Feb. 25, 1956	16.25	7,180
	June 15, 1949	16.20	7,180				
	Aug. 16, 1949	15.70	6,590	1957	Feb. 10, 1957	16.32	7,300
					May 22, 1957	14.62	5,400
1950	Jan. 6, 1950	16.40	7,420				
	Jan. 16, 1950	14.07	4,900	1958	Nov. 19, 1957	15.69	6,590
	Feb. 9, 1950	16.77	7,900		Dec. 20, 1957	15.19	6,040
	Feb. 14, 1950	16.09	7,060				
	Apr. 4, 1950	16.20	7,180	1959	Jan. 21, 1959	22.22	23,800
	May 10, 1950	15.94	6,820				
	May 22, 1950	14.73	5,500	1960	June 23, 1960	18.62	10,500
	June 4, 1950	14.15	5,000				
				1961	Apr. 23, 1961	13.87	4,710
1951	Nov. 20, 1950	15.25	6,040		May 9, 1961	18.13	10,800

a Maximum known at Corydon since 1915, from floodmarks by Corps of Engineers.

3030. Blue River near White Cloud, Ind.

Location.--Lat 38°14'15", long 86°13'50", in NW¼SE¼ sec.19, T.3 S., R.3 E., on left bank 400 ft downstream from Spring Creek, 0.2 mile upstream from bridge on State Highway 62, and three-quarters of a mile north of White Cloud.

Drainage area.--461 sq mi.

Gage.--Nonrecording prior to Nov. 16, 1938; recording thereafter. Datum of gage is 434.30 ft above mean sea level, datum of 1929. At approximately the same site but different datum prior to 1931.

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs and extended on basis of contracted-opening measurement at 28,500 cfs.

Bankfull stage.--14 ft.

Historical data.--Old newspaper accounts indicate that a flood of considerable magnitude occurred in September 1866. According to information by local residents, floods of 1913 and 1921 were about equal in stage. Flood of Jan. 22, 1937, slightly exceeded in stage that of 1913, and is the maximum known.

Remarks.--Records for 1910-12, 1915-16, from Handbook of Indiana Geology by Indiana Department of Conservation. Figures shown in parentheses are approximate values considered accurate within 25 percent. Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Feb. 28, 1910	12.1	(8,600)	1942	Apr. 10, 1942	12.18	9,900
1911	Oct. 7, 1910	14.7	(10,900)	1943	Mar. 20, 1943	18.85	20,500
1912	Apr. 27, 1912	a9.8	(6,600)	1944	Apr. 12, 1944	12.40	10,200
1913	March 1913	b21.9	c(25,800)	1945	Feb. 27, 1945	16.82	17,000
					Mar. 3, 1945	16.36	16,300
1915	Feb. 2, 1915	d11.3	(7,900)		Mar. 7, 1945	20.05	22,300
					Mar. 20, 1945	15.20	14,400
1916	Dec. 18, 1915	15.1	(11,300)				
	Jan. 12, 1916	11.1	(7,700)	1946	Feb. 14, 1946	13.50	11,800
	Jan. 30, 1916	11.6	(8,200)		May 2, 1946	10.87	8,070
1932	Jan. 15, 1932	11.8	9,330	1947	Jan. 3, 1947	10.91	8,070
	Jan. 18, 1932	12.3	10,000		Apr. 22, 1947	12.30	10,000
					June 3, 1947	11.43	8,770
1933	Jan. 1, 1933	18.6	19,900		July 15, 1947	11.0	8,210
	Jan. 22, 1933	16.5	16,500				
	Jan. 26, 1933	11.1	8,350	1948	Feb. 14, 1948	10.69	7,810
	Mar. 19, 1933	14.2	12,900		Mar. 27, 1948	10.81	7,940
	Apr. 16, 1933	11.1	8,350		Apr. 13, 1948	17.54	18,100
	Apr. 19, 1933	10.9	8,070				
	May 15, 1933	17.2	17,600	1949	Nov. 20, 1948	13.23	11,400
					Dec. 16, 1948	11.29	8,630
1934	Mar. 27, 1934	7.52	4,250		Jan. 6, 1949	11.42	8,770
					Jan. 19, 1949	10.93	8,070
1935	Mar. 12, 1935	18.0	18,900		Jan. 25, 1949	14.25	12,900
	May 21, 1935	11.8	9,330		Jan. 28, 1949	13.57	12,000
					Feb. 15, 1949	13.00	11,100
1936	Apr. 6, 1936	11.8	9,330		Mar. 23, 1949	11.82	9,330
					Mar. 27, 1949	13.38	11,700
1937	Jan. 15, 1937	20.0	22,300		June 16, 1949	12.73	10,600
	Jan. 19, 1937	15.8	15,400				
	Jan. 22, 1937	21.97	26,000	1950	Jan. 5, 1950	14.88	14,000
	Jan. 25, 1937	18.9	20,400		Jan. 11, 1950	11.43	8,770
	May 3, 1937	10.8	7,940		Jan. 14, 1950	13.17	11,400
					Jan. 16, 1950	13.54	11,800
1938	Mar. 31, 1938	15.1	14,300		Jan. 27, 1950	10.93	8,070
	July 19, 1938	11.4	8,770		Feb. 9, 1950	13.90	12,400
					Feb. 15, 1950	14.07	12,800
1939	Jan. 30, 1939	10.38	7,580		Mar. 28, 1950	11.17	8,490
	Mar. 6, 1939	13.61	11,600		Apr. 4, 1950	16.40	16,300
	Apr. 7, 1939	11.72	9,190		June 20, 1950	11.17	8,490
	Apr. 17, 1939	11.78	9,290				
				1951	Nov. 21, 1950	11.75	9,330
1940	Apr. 20, 1940	14.05	12,600		Jan. 15, 1951	15.60	15,100
					Feb. 21, 1951	14.23	12,900
1941	Apr. 18, 1941	6.30	2,670		Mar. 19, 1951	14.30	13,000

a Probably maximum for year; no records Aug. 20 to Sept. 30. b Present site and datum. c Annual peak only. d Probably maximum for year; no records Feb. 3-19.

Peak stages and discharges of Blue River near White Cloud, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 5, 1952	10.51	7,550	1957	Apr. 4, 1957	12.80	10,800
	Mar. 12, 1952	14.47	13,400		May 23, 1957	16.88	17,100
	Mar. 23, 1952	10.75	7,940				
				1958	Nov. 19, 1957	12.34	10,000
1953	Mar. 4, 1953	10.50	7,550		Dec. 8, 1957	11.53	8,910
					Dec. 21, 1957	13.73	12,200
1954	Sept.20, 1954	7.87	4,300		July 23, 1958	10.77	7,940
1955	Feb. 22, 1955	10.86	8,070	1959	Jan. 22, 1959	23.07	28,500
	Feb. 28, 1955	13.47	11,800				
				1960	June 13, 1960	13.81	12,300
1956	Feb. 3, 1956	11.83	9,330		June 24, 1960	18.33	19,400
	Feb. 16, 1956	11.20	8,490		July 2, 1960	12.66	10,600
	Feb. 18, 1956	11.83	9,330				
	Feb. 25, 1956	13.09	11,200	1961	Apr. 23, 1961	10.90	8,070
					May 9, 1961	21.81	25,600
1957	Feb. 10, 1957	12.14	9,750				

OHIO RIVER MAIN STEM

3035. Ohio River at Owensboro, Ky.

Location.--Lat 37°46'42", long 87°06'32", near left bank in pier of bridge on State Highway 75, at Owensboro, Daviess County, 1.0 mile upstream from lock and dam 46, 2.9 miles upstream from Caney Creek, 5.6 miles downstream from Pup Creek, and at mile 756.5.

Drainage area.--97,200 sq mi, approximately.

Gage.--Recording. Datum of gage is 339.1 ft above mean sea level, Ohio River datum. Auxiliary recording gage 9.1 miles upstream from base gage, at Rockport, Spencer County, Ind.

Stage-discharge relation.--Defined by current-meter measurements below 860,000 cfs.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 28, 1938	a54.9	1,210,000	1947	Jan. 25, 1947	35.25	354,000
				1948	Apr. 20, 1948	47.09	711,000
1941	June 11, 1941	28.14	264,000	1949	Jan. 31, 1949	42.81	530,000
1942	Mar. 18, 1942	38.13	410,000	1950	Feb. 9, 1950	45.87	633,000
1943	Mar. 25, 1943	46.29	678,000				
1944	Apr. 18, 1944	39.82	448,000	1951	Dec. 13, 1950	43.10	547,000
1945	Mar. 11, 1945	49.85	842,000	1952	Feb. 5, 1952	44.24	586,000
				1953	Mar. 8, 1953	32.77	320,000
1946	Jan. 14, 1946	38.59	408,000	1954	Mar. 9, 1954	25.73	235,000

a Maximum stage known.

GREEN RIVER BASIN

3045. McGills Creek near McKinney, Ky.

Location.--Lat 37°26'38", long 84°41'52", on right bank 0.3 mile upstream from mouth, 3.2 miles northeast of Arabia, and 3.2 miles east of McKinney, Lincoln County.

Drainage area.--2.14 sq mi.

Gage.--Recording. Datum of gage is 968.50 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended on basis of slope-area measurement at 950 cfs.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 110 cfs.

Peak stages and discharges of McGills Creek near McKinney, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 14, 1951	2.41	112	1956	Apr. 6, 1956	2.59	139
	Dec. 14, 1951	2.43	114		Apr. 15, 1956	2.82	180
	Dec. 20, 1951	2.49	124				
	Mar. 10, 1952	2.68	155	1957	Dec. 14, 1956	2.42	113
	Mar. 22, 1952	5.40	950		Jan. 22, 1957	2.80	176
					Jan. 29, 1957	2.56	135
1953	Mar. 3, 1953	2.56	135		Feb. 9, 1957	2.67	153
	May 17, 1953	3.21	257		Apr. 4, 1957	2.90	195
					Apr. 8, 1957	4.07	481
1954	Jan. 20, 1954	2.24	88				
				1958	Nov. 18, 1957	5.60	1,030
1955	Feb. 22, 1955	2.71	160		Dec. 20, 1957	2.41	112
	Feb. 27, 1955	3.10	235		Apr. 27, 1958	3.19	253
	Mar. 4, 1955	3.77	392				
	Mar. 16, 1955	4.25	535	1959	June 5, 1959	2.63	146
	Mar. 21, 1955	3.98	454				
	July 8, 1955	2.60	141	1960	June 23, 1960	4.13	499
					June 30, 1960	2.92	199
1956	Jan. 30, 1956	3.79	398				
	Feb. 2, 1956	2.68	155	1961	May 7, 1961	3.47	318
	Feb. 17, 1956	2.73	163		June 9, 1961	2.45	118
	Mar. 14, 1956	2.86	187		June 15, 1961	4.66	666

3050. Green River near McKinney, Ky.

Location.--Lat 37°25'19", long 84°45'01", on right bank 10 ft downstream from highway bridge, 0.8 mile upstream from South Fork, 1.2 miles northwest of Arabia, 2.2 miles south of McKinney, Lincoln County, and 3.3 miles downstream from McGills Creek.

Drainage area.--22.4 sq mi.

Gage.--Recording. Datum of gage is 893.69 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended on basis of contracted-opening measurement at 10,400 cfs.

Remarks.--Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 15, 1951	5.25	895	1957	Feb. 9, 1957	6.14	1,570
	Dec. 8, 1951	4.84	696		Apr. 4, 1957	6.69	2,110
	Dec. 14, 1951	5.32	932		Apr. 8, 1957	7.10	2,630
	Dec. 20, 1951	5.76	1,210		May 22, 1957	-	a1,000
	Jan. 27, 1952	4.69	1,636				
	Mar. 10, 1952	5.78	1,230	1958	Nov. 18, 1957	8.85	9,600
	Mar. 22, 1952	8.93	10,400		Dec. 7, 1957	4.52	658
					Dec. 20, 1957	5.70	1,250
1953	Mar. 4, 1953	5.30	920		Jan. 31, 1958	4.72	738
	May 18, 1953	5.88	1,300		Apr. 27, 1958	6.55	1,960
					May 5, 1958	5.00	850
1954	Jan. 20, 1954	4.83	692		July 20, 1958	5.13	915
	Apr. 16, 1954	4.87	708		Aug. 24, 1958	5.17	935
1955	Feb. 6, 1955	5.38	968	1959	Jan. 21, 1959	5.08	890
	Feb. 22, 1955	6.01	1,400		June 5, 1959	4.69	726
	Feb. 27, 1955	6.53	1,860		July 28, 1959	4.44	629
	Mar. 1, 1955	5.58	1,090				
	Mar. 5, 1955	6.26	1,600	1960	Jan. 14, 1960	5.12	910
	Mar. 16, 1955	7.12	2,650		Feb. 10, 1960	5.88	1,380
	Mar. 21, 1955	7.75	3,900		June 23, 1960	7.12	2,660
					June 30, 1960	6.73	2,160
1956	Jan. 30, 1956	7.67	3,710				
	Feb. 2, 1956	6.24	1,530	1961	Feb. 25, 1961	5.18	940
	Feb. 14, 1956	5.05	875		Feb. 28, 1961	4.77	758
	Feb. 17, 1956	5.95	1,350		Mar. 4, 1961	5.47	1,110
	Mar. 14, 1956	-	a2,500		Apr. 1, 1961	4.75	750
	Apr. 15, 1956	6.06	1,420		Apr. 15, 1961	4.45	632
	May 2, 1956	4.78	762		May 7, 1961	6.58	1,990
					June 9, 1961	5.62	1,200
1957	Dec. 14, 1956	5.10	900		June 15, 1961	7.75	3,900
	Jan. 22, 1957	6.48	1,890		July 15, 1961	4.98	842
	Jan. 29, 1957	6.03	1,480		Aug. 20, 1961	4.63	702
	Feb. 1, 1957	4.67	718				

a About.

3055. Green River near Mount Salem, Ky.

Location.--Lat 37°24'40", long 84°45'11", on left bank 20 ft upstream from bridge on private road, about 300 ft downstream from South Fork, 0.8 mile downstream from gaging station near McKinney, and 2.6 miles east of Mount Salem, Lincoln County.

Drainage area.--36.3 sq mi.

Gage.--Recording. Datum of gage is 881.84 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended on basis of slope-area measurement at 11,700 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 20, 1954	5.8	1,400	1957	May 22, 1957	6.18	1,570
	Apr. 16, 1954	5.69	1,350				
				1958	Nov. 18, 1957	11.11	11,700
1955	Feb. 6, 1955	6.75	1,820		Dec. 7, 1957	5.77	1,380
	Feb. 22, 1955	7.50	2,460		Dec. 20, 1957	7.11	2,120
	Feb. 27, 1955	8.02	2,970		Jan. 31, 1958	5.90	1,440
	Mar. 1, 1955	7.17	2,170		Apr. 27, 1958	8.45	3,580
	Mar. 5, 1955	7.35	2,320		May 5, 1958	6.60	1,770
	Mar. 16, 1955	8.25	3,280		July 20, 1958	5.80	1,400
	Mar. 21, 1955	9.40	5,300		Aug. 24, 1958	6.68	1,820
1956	Jan. 30, 1956	8.92	4,340	1959	Jan. 21, 1959	6.32	1,630
	Feb. 2, 1956	7.39	2,360				
	Feb. 15, 1956	6.01	1,490	1960	Feb. 10, 1960	7.56	2,510
	Feb. 18, 1956	7.30	2,280		June 23, 1960	9.15	4,800
	Mar. 14, 1956	7.73	2,680		June 30, 1960	7.84	2,790
	Apr. 6, 1956	6.79	1,840				
	Apr. 15, 1956	7.43	2,400	1961	Feb. 25, 1961	6.67	1,810
	May 2, 1956	6.28	1,610		Feb. 28, 1961	5.95	1,460
					Mar. 4, 1961	7.15	2,150
1957	Dec. 14, 1956	7.08	2,090		Apr. 1, 1961	5.90	1,440
	Jan. 22, 1957	7.95	2,900		May 7, 1961	7.98	2,930
	Jan. 29, 1957	7.53	2,490		June 9, 1961	7.04	2,060
	Feb. 1, 1957	5.72	1,360		June 15, 1961	9.38	5,260
	Feb. 9, 1957	7.65	2,600		July 15, 1961	5.88	1,430
	Apr. 4, 1957	8.01	2,960		July 16, 1961	6.32	1,630
	Apr. 8, 1957	8.25	3,280		Aug. 20, 1961	-	a1,500

a About.

3065. Green River at Greensburg, Ky.

Location.--Lat 37°15'13", long 85°30'11", on left bank 75 ft downstream from bridge on U.S. Highway 68, 300 ft upstream from Clover Lick Creek, a quarter of a mile south of Greensburg, Green County, and 2.6 miles upstream from Russell Creek.

Drainage area.--736 sq mi.

Gage.--Nonrecording prior to June 20, 1941; recording thereafter. Datum of gage is 531.81 ft above mean sea level, datum of 1929. November 1941 to Jan. 3, 1951, auxiliary nonrecording gage 1.5 miles downstream from base gage. Since Jan. 4, 1951, auxiliary nonrecording gage 1.8 miles upstream from base gage.

Stage-discharge relation.--Defined by current-meter measurements below 45,000 cfs.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 13,000 cfs.

Peak stages and discharges of Green River at Greensburg, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	a36.2	-	1952	Nov. 26, 1951	22.24	15,400
					Dec. 9, 1951	23.10	15,900
1940	Apr. 1, 1940	22.8	18,400		Dec. 16, 1951	21.14	14,900
					Jan. 29, 1952	21.85	15,400
1941	Apr. 5, 1941	14.44	6,920		Mar. 12, 1952	20.83	14,200
	July 20, 1941	16.18	(b)		Mar. 23, 1952	33.50	47,000
1942	Apr. 10, 1942	20.03	13,600	1953	May 20, 1953	22.63	16,500
1943	Dec. 31, 1942	28.20	25,100	1954	Apr. 17, 1954	19.27	11,700
	Mar. 21, 1943	26.07	22,200				
				1955	Feb. 8, 1955	21.93	15,500
1944	Apr. 13, 1944	20.60	13,600		Feb. 23, 1955	22.11	15,800
					Mar. 1, 1955	21.80	-
1945	Jan. 2, 1945	27.26	24,800		Mar. 2, 1955	-	14,800
	Feb. 23, 1945	22.72	17,000		Mar. 23, 1955	26.33	23,600
	Mar. 1, 1945	22.47	15,600				
	Mar. 6, 1945	24.03	18,700	1956	Jan. 31, 1956	25.41	21,700
					Feb. 4, 1956	23.84	18,800
1946	Jan. 9, 1946	19.57	12,800		Feb. 19, 1956	26.59	24,200
					Mar. 15, 1956	21.21	14,800
1947	Jan. 3, 1947	20.85	13,700		Apr. 17, 1956	20.75	14,100
1948	Feb. 15, 1948	28.16	26,400	1957	Jan. 24, 1957	21.04	13,600
	Apr. 14, 1948	29.92	32,100		Jan. 30, 1957	25.65	21,500
					Apr. 5, 1957	23.78	18,100
1949	Jan. 6, 1949	22.27	14,600				
	Feb. 16, 1949	29.72	31,500	1958	Nov. 20, 1957	27.21	25,600
	June 17, 1949	25.81	20,800		Dec. 9, 1957	20.24	13,800
					Dec. 21, 1957	21.14	14,300
1950	Dec. 14, 1949	23.79	17,000		Apr. 29, 1958	20.44	13,500
	Jan. 7, 1950	28.77	28,200				
	Feb. 2, 1950	26.30	21,800	1959	Jan. 22, 1959	19.85	12,500
	June 22, 1950	26.85	23,000				
				1960	June 25, 1960	19.59	13,000
1951	Jan. 5, 1951	21.55	c13,500				
	Feb. 2, 1951	21.95	c14,000	1961	Mar. 1, 1961	18.42	10,300

a Maximum known.
b Discharge less than 6,920 cfs.
c About.

3070. Russell Creek near Columbia, Ky.

Location.--Lat 37°07'09", long 85°23'38", on left bank at downstream side of bridge on State Highway 61, 0.2 mile upstream from Butlers Fork and 5 miles west of Columbia, Adair County.

Drainage area.--188 sq mi (includes that of Butlers Fork), of which about 173 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to June 25, 1953; recording thereafter. Datum of gage is 610.96 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs.

Bankfull stage.--12 ft.

Remarks.--Records include flow of Butlers Fork. Base for partial-duration series, 5,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	a23	-	1945	Jan. 1, 1945	18.9	9,490
					Feb. 22, 1945	16.6	7,380
1940	Mar. 30, 1940	17.70	8,280		Feb. 28, 1945	14.12	5,200
1941	July 19, 1941	14.7	5,190	1946	Jan. 7, 1946	11.6	3,580
1942	Feb. 17, 1942	13.5	4,500	1947	Jan. 2, 1947	15.2	6,060
					Jan. 15, 1947	14.25	5,300
1943	Dec. 30, 1942	17.4	7,980				
	Mar. 19, 1943	15.85	6,500	1948	Feb. 14, 1948	18.5	9,010
					Apr. 13, 1948	18.06	8,610
1944	Feb. 29, 1944	15.1	5,820				
	Apr. 11, 1944	14.63	5,430	1949	Jan. 5, 1949	14.80	5,700

a From information by local residents.

Peak stages and discharges of Russell Creek near Columbia, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 14, 1949	16.50	7,110	1954	Apr. 16, 1954	13.98	5,100
	Mar. 18, 1949	16.20	6,840				
	June 16, 1949	21.6	12,700	1955	Feb. 6 or 7,1955	-	b6,000
					Feb. 22, 1955	15.56	6,200
1950	Jan. 5, 1950	17.1	7,650		Mar. 22, 1955	20.00	10,700
	Jan. 31, 1950	18.5	9,010				
	June 21, 1950	18.38	8,890	1956	Jan. 30, 1956	17.52	8,030
					Feb. 2, 1956	15.14	6,190
1951	Nov. 20, 1950	14.3	5,320		Feb. 18, 1956	16.01	6,770
	Dec. 7, 1950	17.8	8,310		Mar. 14, 1956	15.29	5,980
	Jan. 14, 1951	17.2	7,740				
	Feb. 1, 1951	17.4	7,920	1957	Jan. 23, 1957	15.81	6,420
	Feb. 7, 1951	16.1	6,750		Jan. 29, 1957	17.28	7,790
	Feb. 21, 1951	14.3	5,320		Apr. 4, 1957	16.95	7,460
	Sept.22, 1951	14.8	5,700				
				1958	Nov. 18, 1957	17.58	8,090
1952	Nov. 14, 1951	14.6	5,540		Apr. 28, 1958	15.17	5,890
	Dec. 8, 1951	14.4	5,390				
	Dec. 14, 1951	15.8	6,500	1959	Feb. 15, 1959	13.15	4,340
	Jan. 27, 1952	14.3	5,320				
	Mar. 22, 1952	23.8	15,900	1960	June 23, 1960	11.20	3,300
1953	May 19, 1953	12.47	4,060	1961	June 9, 1961	15.30	5,990

b About.

3075. South Fork Little Barren River at Edmonton, Ky.

Location.--Lat 36°58'27", long 85°36'11", on right bank 13 ft downstream from bridge on State Highway 496, three-quarters of a mile southeast of Edmonton, Metcalfe County, and 3.0 miles upstream from Rogers Creek.

Drainage area.--18.3 sq mi.

Gage.--Recording. Datum of gage is 742.83 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 16, 1942	7.36	1,370	1950	Jan. 5, 1950	6.79	1,220
	Apr. 9, 1942	7.83	1,490		Jan. 10, 1950	7.12	1,310
					Jan. 31, 1950	8.97	1,840
1943	Dec. 30, 1942	7.19	1,330		Feb. 9, 1950	6.35	1,110
	Mar. 19, 1943	7.37	1,380		June 20, 1950	8.12	1,590
					July 24, 1950	7.69	1,460
1944	Feb. 17, 1944	6.87	1,250				
	Feb. 28, 1944	7.65	1,440	1951	Nov. 20, 1950	7.80	1,480
	Apr. 11, 1944	7.01	1,280		Jan. 3, 1951	6.90	1,250
	Sept. 2, 1944	7.70	1,470		Jan. 31, 1951	6.29	1,100
1945	Dec. 31, 1944	8.58	1,720	1952	Oct. 31, 1951	-	a1,100
	Feb. 21, 1945	7.22	1,330		Dec. 8, 1951	6.84	1,240
	Feb. 28, 1945	7.01	1,280		Dec. 14, 1951	7.84	1,490
					Jan. 27, 1952	6.80	1,220
1946	Jan. 7, 1946	6.43	1,120		Mar. 10, 1952	7.33	1,360
	Mar. 7, 1946	7.05	1,280		Mar. 22, 1952	9.60	2,020
1947	January 1947	-	a1,400	1953	Mar. 4, 1953	6.56	1,150
	May 21, 1947	8.60	1,720				
				1954	Apr. 16, 1954	7.07	1,280
1948	Jan. 1, 1948	6.69	1,200		June 16, 1954	6.92	1,240
	Feb. 13, 1948	7.96	1,550				
	Apr. 13, 1948	6.53	1,160	1955	Mar. 21, 1955	8.35	1,640
1949	Jan. 5, 1949	7.35	1,370	1956	Jan. 30, 1956	7.69	1,450
	Mar. 18, 1949	6.71	1,200				
	Mar. 27, 1949	6.58	1,170	1957	Jan. 22, 1957	7.91	1,510
	June 15, 1949	10.00	2,140		Jan. 29, 1957	7.28	1,330
	July 16, 1949	6.60	1,180				

a About.

Peak stages and discharges of South Fork Little Barren River at Edmonton, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 4, 1957	7.49	1,390	1959	May 30, 1959	6.58	1,160
	May 22, 1957	6.82	1,260				
				1960	June 28, 1960	6.39	1,110
1958	Nov. 18, 1957	7.90	1,510				
	Apr. 27, 1958	6.95	1,250	1961	Mar. 6, 1961	5.84	970

3085. Green River at Munfordville, Ky.

Location.--Lat 37°16'05", long 85°53'10", on right bank at downstream side of pier of bridge on U.S. Highway 31W at Munfordville, Hart County.

Drainage area.--1,673 sq mi, of which about 1,493 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Nov. 29, 1940; recording thereafter. At site 0.2 mile downstream at same datum prior to Oct. 18, 1940. Datum of gage is 451.70 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--28 ft.

Remarks.--Only annual peak is shown for 1913. Base for partial-duration series, 16,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	January 1913	54.0	67,000	1927	Jan. 23, 1927	39.6	37,000
					May 31, 1927	28.6	23,500
1916	Nov. 17, 1915	23.8	18,400				
	Nov. 21, 1915	22.5	17,000	1928	May 21, 1928	23.0	17,500
	Dec. 19, 1915	40.8	39,500		June 6, 1928	27.5	22,300
	Dec. 30, 1915	23.6	18,200		June 11, 1928	29.2	24,100
	Jan. 15, 1916	31.5	26,800		July 1, 1928	27.4	22,200
	Feb. 3, 1916	23.2	17,700				
	Aug. 17, 1916	22.2	16,700	1929	Mar. 1, 1929	31.5	26,800
					Mar. 26, 1929	30.2	25,300
1917	Jan. 1, 1917	29.7	24,700		May 8, 1929	26.2	20,900
	Jan. 7, 1917	35.6	31,400		May 21, 1929	21.8	16,300
	Jan. 24, 1917	34.7	30,500				
	Mar. 4, 1917	24.0	18,600	1930	Feb. 6, 1930	21.8	16,300
	Mar. 14, 1917	28.8	23,700				
	Mar. 19, 1917	22.3	16,800	1931	Mar. 30, 1931	17.45	12,000
1918	Jan. 31, 1918	33.2	28,500	1932	Dec. 15, 1931	27.4	22,200
					Dec. 25, 1931	23.2	17,700
1919	Jan. 3, 1919	35.7	31,500		Jan. 28, 1932	32.0	27,400
	May 10, 1919	29.1	24,000		Jan. 31, 1932	39.9	37,600
					Mar. 30, 1932	29.4	24,400
1920	Nov. 3, 1919	25.2	19,800				
	Nov. 28, 1919	29.7	24,700	1933	Jan. 24, 1933	35.7	31,600
	Dec. 10, 1919	25.5	20,200		Feb. 17, 1933	26.3	21,000
	Dec. 16, 1919	28.5	23,400		Feb. 22, 1933	29.4	24,400
	Jan. 11, 1920	39.5	36,300		Mar. 21, 1933	23.4	17,900
	Jan. 24, 1920	29.6	24,600		May 13, 1933	26.5	21,200
	Feb. 23, 1920	22.4	16,900				
	Mar. 21, 1920	28.6	23,500	1934	Dec. 21, 1933	23.7	18,300
	Apr. 22, 1920	24.8	19,400		Jan. 8, 1934	22.3	16,800
					Feb. 27, 1934	25.5	20,200
1921	Feb. 12, 1921	25.7	20,400		Mar. 6, 1934	35.1	30,900
	Mar. 11, 1921	28.2	23,000				
	Apr. 2, 1921	24.2	18,800	1935	Jan. 22, 1935	43.4	44,900
					Mar. 14, 1935	40.1	38,000
1922	Nov. 22, 1921	26.5	21,200		Mar. 27, 1935	23.7	18,300
	Dec. 19, 1921	23.4	17,900		Apr. 3, 1935	30.3	25,400
	Feb. 15, 1922	23.6	18,200		Apr. 9, 1935	32.5	27,900
	Feb. 24, 1922	22.7	17,200		May 22, 1935	22.3	16,800
	Mar. 9, 1922	24.8	19,400		June 24, 1935	32.2	27,600
	Mar. 25, 1922	26.7	21,400				
				1936	Nov. 14, 1935	21.8	16,300
1925	Dec. 10, 1924	40.0	37,800		Jan. 7, 1936	21.5	16,000
					Jan. 10, 1936	21.6	16,100
1926	Nov. 28, 1925	21.9	16,400		Mar. 19, 1936	24.3	18,900
	Jan. 24, 1926	24.6	19,200		Mar. 28, 1936	28.5	23,400
					Apr. 8, 1936	27.8	22,600
1927	Dec. 24, 1926	39.6	37,000		Apr. 11, 1936	27.6	22,400

Peak stages and discharges of Green River at Munfordville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 4, 1937	23.4	16,500	1950	Jan. 8, 1950	42.45	42,900
	Jan. 12, 1937	24.2	17,200		Feb. 3, 1950	40.53	38,900
	Jan. 23, 1937	50.40	60,000		June 23, 1950	34.15	26,600
1938	Mar. 7, 1938	22.4	15,600	1951	Jan. 6, 1951	30.76	22,300
					Jan. 16, 1951	30.78	22,400
1939	Feb. 1, 1939	32.0	26,100		Feb. 3, 1951	27.00	18,500
	Feb. 6, 1939	34.5	30,100		Feb. 15, 1951	28.72	20,200
	Feb. 12, 1939	26.3	19,200				
	Feb. 17, 1939	27.6	20,600	1952	Nov. 27, 1951	31.98	23,700
	Mar. 8, 1939	31.4	25,300		Dec. 11, 1951	34.21	26,700
	Apr. 18, 1939	25.9	18,800		Dec. 17, 1951	27.06	18,600
					Jan. 30, 1952	29.38	20,900
1940	Apr. 2, 1940	28.6	21,700		Mar. 13, 1952	27.98	19,500
	Apr. 27, 1940	23.7	16,700		Mar. 25, 1952	48.31	56,100
1941	July 20, 1941	23.03	15,300	1953	Mar. 5, 1953	26.73	18,300
					May 21, 1953	31.67	23,300
1942	Apr. 11, 1942	27.74	19,800				
				1954	Apr. 18, 1954	25.08	16,800
1943	Jan. 1, 1943	41.20	40,500				
	Mar. 14, 1943	29.24	21,100	1955	Feb. 9, 1955	29.18	20,700
	Mar. 21, 1943	39.08	36,400		Feb. 25, 1955	29.70	21,200
					Mar. 3, 1955	33.27	25,300
1944	Mar. 2, 1944	25.65	17,500		Mar. 24, 1955	38.64	35,000
	Mar. 21, 1944	26.06	17,900				
	Apr. 14, 1944	28.49	20,300	1956	Feb. 3, 1956	37.24	32,200
					Feb. 20, 1956	39.29	36,300
1945	Jan. 3, 1945	38.65	36,100		Mar. 17, 1956	29.42	20,900
	Feb. 24, 1945	30.18	23,100		Apr. 18, 1956	27.05	18,600
	Mar. 2, 1945	32.10	25,700				
	Mar. 8, 1945	33.90	28,400	1957	Jan. 25, 1957	26.78	18,300
					Feb. 1, 1957	36.94	31,600
1946	Jan. 10, 1946	27.24	19,600		Apr. 7, 1957	30.64	22,200
	Feb. 15, 1946	25.77	18,100				
				1958	Nov. 21, 1957	39.40	36,500
1947	Jan. 4, 1947	26.81	19,200		Dec. 10, 1957	25.42	17,100
	May 23, 1947	28.41	21,000		Dec. 23, 1957	27.45	19,000
					Jan. 27, 1958	24.23	16,000
1948	Feb. 16, 1948	40.07	38,500		Apr. 30, 1958	25.75	17,400
	Apr. 15, 1948	42.42	43,700				
				1959	Jan. 23, 1959	31.34	23,000
1949	Dec. 18, 1948	28.26	20,100		Feb. 17, 1959	25.02	16,700
	Jan. 8, 1949	28.67	20,500				
	Feb. 17, 1949	43.34	45,900	1960	Nov. 28, 1959	21.17	13,500
	June 18, 1949	35.72	30,000				
				1961	Mar. 1, 1961	26.91	18,400
1950	Dec. 14, 1949	36.68	31,100		Mar. 7, 1961	25.85	17,500

3090. Green River at Mammoth Cave, Ky.

Location.--Lat 37°10'50", long 86°06'45", at Mammoth Cave Ferry, opposite Echo River, three-quarters of a mile southwest of Mammoth Cave, Edmonson County, and 13.8 miles upstream from Nolin River.

Drainage area.--1,983 sq mi, of which about 1,539 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. At site 0.5 mile upstream at same datum prior to Dec. 3, 1939. Datum of gage is 420.52 ft above mean sea level, datum of 1929. Recording auxiliary gage at lock 6, at Brownsville, 15.9 miles downstream used since Oct. 1, 1941. Datum of auxiliary gage is 413.03 ft above mean sea level, datum of 1929. Gage heights given herein converted to present site.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--35 ft.

Remarks.--Gage-height record prior to July 1, 1939, furnished by Corps of Engineers. Only annual peaks are shown prior to 1937. Base for partial-duration series, 20,000 cfs.

Peak stages and discharges of Green River at Mammoth Cave, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	50.5	-	1944	Apr. 14, 1944	24.5	21,600
1935	-	42.6	51,600	1945	Jan. 4, 1945	34.6	35,700
1936	Mar. 28, 1936	26.5	23,400		Feb. 25, 1945	26.0	23,500
					Mar. 3, 1945	28.8	27,200
1937	Jan. 24, 1937	52.0	75,000		Mar. 8, 1945	31.3	30,700
1938	Mar. 7, 1938	19.8	15,300	1946	Feb. 16, 1946	23.4	20,200
1939	Feb. 6, 1939	31.7	29,800	1947	May 23, 1947	23.3	20,100
	Feb. 18, 1939	24.3	20,700				
	Mar. 8, 1939	28.9	26,200	1948	Feb. 17, 1948	38.1	43,900
	Apr. 18, 1939	23.9	20,200		Apr. 16, 1948	40.1	45,200
1940	Apr. 2, 1940	23.57	20,000	1949	Dec. 18, 1948	25.9	20,400
					Jan. 8, 1949	24.2	21,100
1941	July 21, 1941	19.2	15,200		Feb. 18, 1949	43.0	51,400
					June 19, 1949	28.8	27,000
1942	Apr. 12, 1942	24.3	21,300				
				1950	Dec. 15, 1949	35.8	32,000
1943	Jan. 2, 1943	38.1	41,700		Jan. 9, 1950	42.0	49,200
	Mar. 15, 1943	25.7	23,100		Feb. 3, 1950	40.4	46,500
	Mar. 22, 1943	37.7	41,000		June 24, 1950	27.2	25,000

3095. McDougal Creek near Hodgenville, Ky.

Location.--Lat 37°32'37", long 85°40'19", on left bank 0.3 mile upstream from bridge on State Highway 470, 4½ miles southeast of Hodgenville, Larue County, and 4¾ miles upstream from mouth.

Drainage area.--5.34 sq mi.

Gage.--Recording. Altitude of gage is 775 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 440 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	June 18, 1954	2.83	320	1957	Apr. 4, 1957	5.30	1,370
					Apr. 8, 1957	4.17	725
1955	Feb. 21, 1955	3.30	444				
	Feb. 27, 1955	3.49	494	1958	Nov. 18, 1957	6.27	2,100
	Mar. 5, 1955	3.60	524		July 11, 1958	3.80	570
	Mar. 16, 1955	4.64	974				
	Mar. 21, 1955	3.75	566	1959	Jan. 21, 1959	3.45	466
					July 23, 1959	4.98	1,180
1956	Jan. 30, 1956	4.05	650				
	Feb. 2, 1956	3.53	505	1960	Jan. 14, 1960	2.66	284
	Feb. 17, 1956	3.53	505				
				1961	Mar. 4, 1961	4.18	730
1957	Jan. 22, 1957	3.53	484		May 8, 1961	4.39	835

3100. North Fork Nolin River at Hodgenville, Ky.

Location.--Lat 37°34'33", long 85°44'23", on right bank 10 ft upstream from bridge on State Highway 61 at Hodgenville, Larue County, and 0.6 mile downstream from McDougal Creek.

Drainage area.--36.4 sq mi, of which about 35.6 sq mi contributes directly to surface runoff.

Gage.--Recording. Datum of gage is 701.64 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs.

Bankfull stage.--14 ft.

Historical data.--Maximum stage known is about 15½ ft (date not determined).

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 9, 1942	12.23	2,280	1952	Dec. 8, 1951	12.80	2,970
					Dec. 20, 1951	12.29	2,350
1943	Mar. 11, 1943	12.20	2,250		Mar. 10, 1952	14.17	5,290
					Mar. 22, 1952	13.67	4,340
1944	Apr. 11, 1944	12.14	2,190				
				1953	Mar. 3, 1953	14.76	6,580
1945	Feb. 26, 1945	13.70	4,390		May 17, 1953	12.72	2,870
	Mar. 5, 1945	12.60	2,710				
				1954	Sept.21, 1954	6.75	548
1946	Feb. 13, 1946	13.20	3,550				
				1955	Feb. 22, 1955	12.60	2,710
1947	Apr. 16, 1947	12.35	2,470		Feb. 27, 1955	12.15	2,200
	May 21, 1947	12.23	2,250		Mar. 16, 1955	14.87	6,840
	July 6, 1947	12.40	2,470		Mar. 21, 1955	12.77	2,930
1948	Feb. 13, 1948	14.75	6,560	1956	Feb. 2, 1956	13.36	3,810
	Mar. 16, 1948	14.03	4,950				
	Mar. 27, 1948	13.06	3,400	1957	Jan. 22, 1957	11.97	2,030
					Apr. 4, 1957	14.73	6,510
1949	Nov. 5, 1948	14.11	5,170		Apr. 8, 1957	12.28	2,330
	Feb. 14, 1949	13.57	4,160		May 22, 1957	13.67	4,340
	Aug. 16, 1949	13.86	4,680				
				1958	Nov. 18, 1957	14.84	6,370
1950	Dec. 12, 1949	12.94	3,170		July 11, 1958	15.50	8,300
	Jan. 5, 1950	12.60	2,710				
	Jan. 12, 1950	12.40	2,470	1959	Jan. 21, 1959	12.35	2,410
	Jan. 30, 1950	13.88	4,720		July 23, 1959	15.17	7,310
	Feb. 14, 1950	11.98	2,030				
	July 31, 1950	12.89	3,100	1960	Sept.17, 1960	11.36	1,640
1951	Nov. 20, 1950	12.61	2,720	1961	Mar. 4, 1961	12.30	2,350
	Jan. 14, 1951	(a)	(a)		May 7, 1961	14.37	4,970
	Feb. 20, 1951	12.04	2,090		May 9, 1961	13.49	3,720
	July 10, 1951	12.39	2,460				

a Unknown, maximum for water year.

3105. Nolin River at Wax, Ky.

Location.--Lat 37°20'43", long 86°07'21", on right bank at upstream side of bridge on State Highway 88 at Wax, Grayson County, 5.3 miles upstream from Dog Creek, 14 miles northwest of Munfordville, and 28 miles upstream from mouth.

Drainage area.--600 sq mi, of which about 380 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Sept. 27, 1941; recording thereafter. Datum of gage is 462.81 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs.

Bankfull stage.--20 ft.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges of Nolin River at Wax, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 11, 1937	19.80	7,400	1950	Jan. 15, 1950	25.62	11,900
	Jan. 24, 1937	32.26	22,000		Jan. 28, 1950	18.93	6,460
					Feb. 2, 1950	25.72	12,000
1938	Aug. 2, 1938	19.1	6,950		Feb. 15, 1950	19.75	6,990
	Aug. 5, 1938	19.6	7,350		Apr. 5, 1950	19.61	6,900
					Aug. 2, 1950	20.29	7,350
1939	Jan. 31, 1939	19.7	7,430				
	Feb. 4, 1939	21.5	9,160	1951	Jan. 5, 1951	19.73	6,970
	Feb. 11, 1939	17.9	6,150		Jan. 17, 1951	25.45	11,700
	Mar. 7, 1939	21.6	9,270		Feb. 14, 1951	20.81	7,720
	Apr. 17, 1939	20.2	7,860		Feb. 22, 1951	19.25	6,660
	June 20, 1939	19.2	7,030				
				1952	Nov. 26, 1951	19.89	7,080
1940	Mar. 4, 1940	19.4	7,190		Dec. 6, 1951	20.87	7,760
	Apr. 21, 1940	18.8	6,740		Dec. 9, 1951	21.77	8,430
					Dec. 22, 1951	19.77	7,000
1941	July 20, 1941	12.7	3,350		Mar. 12, 1952	22.68	9,140
					Mar. 24, 1952	27.04	13,900
1942	Apr. 10, 1942	18.67	6,670				
				1953	Mar. 5, 1953	22.58	9,060
1943	Dec. 30, 1942	17.69	6,030		May 19, 1953	22.44	8,950
	Mar. 13, 1943	18.90	6,810				
	Mar. 20, 1943	20.57	8,240	1954	Jan. 21, 1954	13.17	3,440
1944	Apr. 12, 1944	17.48	5,910	1955	Feb. 7, 1955	19.76	6,990
					Feb. 23, 1955	20.77	7,690
1945	Jan. 2, 1945	18.32	6,400		Mar. 1, 1955	20.23	7,310
	Feb. 23, 1945	19.60	7,260		Mar. 17, 1955	19.68	6,940
	Mar. 1, 1945	23.94	10,600		Mar. 22, 1955	22.18	8,740
	Mar. 6, 1945	21.80	8,850				
				1956	Jan. 30, 1956	19.04	6,020
1946	Feb. 15, 1946	21.97	9,000		Feb. 3, 1956	22.01	8,010
					Feb. 19, 1956	21.44	7,610
1947	Jan. 4, 1947	19.46	7,190				
	Apr. 18, 1947	19.98	7,540	1957	Apr. 6, 1957	27.22	12,500
					Apr. 9, 1957	20.90	7,230
1948	Feb. 16, 1948	25.17	11,400		May 24, 1957	20.87	7,210
	Mar. 18, 1948	20.40	7,430				
	Mar. 28, 1948	21.49	8,220	1958	Nov. 19, 1957	30.93	18,000
	Apr. 14, 1948	21.00	7,850		Dec. 21, 1957	19.48	6,290
					July 14, 1958	20.37	6,860
1949	Nov. 7, 1948	19.68	6,940				
	Dec. 17, 1948	21.23	8,020	1959	Jan. 22, 1959	21.08	7,360
	Jan. 29, 1949	18.61	6,270				
	Feb. 16, 1949	25.60	11,800	1960	Feb. 11, 1960	17.13	4,970
1950	Dec. 13, 1949	26.28	12,700	1961	Mar. 7, 1961	24.07	9,560
	Jan. 6, 1950	25.35	11,600		May 10, 1961	25.73	11,200

3110. Nolin River at Kyrock, Ky.

Location.--Lat 37°16'27", long 86°15'03", on right bank 470 ft downstream from Dismal Creek, 0.3 mile downstream from Nolin River Dam (under construction), 0.9 mile northeast of Kyrock, Edmonson County, 1.2 miles upstream from Pigeon Creek, and 7.3 miles upstream from mouth.

Drainage area.--707 sq mi (including that of Dismal Creek), of which about 484 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Dec. 21, 1940, and Oct. 1 to Dec. 16, 1960; recording Dec. 21, 1940, to Sept. 30, 1950, and after Dec. 16, 1960. At site 1.6 miles upstream at datum 20.91 ft higher Oct. 1, 1930, to Mar. 31, 1932. At site 11.9 miles upstream at datum 48.36 ft higher June 30, 1939, to Sept. 30, 1950. Datum of present gage is 400.00 ft above mean sea level, datum of 1929 (levels by U.S. Corps of Engineers). Since Oct. 1, 1960, recording gage for station on Green River at lock 6, at Brownsville, 9.1 miles downstream, used as auxiliary gage.

Stage-discharge relation.--At site used 1931-32 defined by current-meter measurements below 80 cfs and extended on basis of computed differences in discharge between Green River at Munfordville and at lock 6, at Brownsville. Defined by current-meter measurements since 1939.

Remarks.--Base for partial-duration series, 6,000 cfs. Only annual peaks are shown prior to 1940.

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Peak stages and discharges of Nolin River at Kyrock, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	a20.36	-
1931	Apr. 27, 1931	9.96	3,390
1932	Jan. 30, 1932	b26.30	22,700
1937	January 1937	c26.35	-
1940	Mar. 3, 1940	15.50	10,500
	Apr. 20, 1940	13.72	8,800
1941	July 19, 1941	8.59	4,540
1942	Apr. 9, 1942	12.14	7,360
1943	Dec. 29, 1942	12.12	7,360
	Mar. 13, 1943	13.08	8,260
	Mar. 20, 1943	13.67	8,800
1944	Apr. 11, 1944	11.49	6,820
1945	Jan. 1, 1945	14.34	9,030
	Feb. 23, 1945	(d)	(d)
	Mar. 1, 1945	16.14	10,600
	Mar. 5, 1945	15.76	10,400
1946	Feb. 6, 1946	12.80	7,740
	Feb. 15, 1946	14.08	8,850
	Mar. 26, 1946	12.86	7,740
1947	Jan. 2, 1947	14.18	8,940
	Apr. 16, 1947	13.08	8,000
	June 30, 1947	10.82	6,100
1948	Feb. 13, 1948	20.67	14,700
	Mar. 16, 1948	14.48	9,060
	Mar. 27, 1948	15.14	9,540
	Apr. 13, 1948	14.58	9,140
1949	Nov. 6, 1948	12.11	6,990
	Dec. 16, 1948	14.54	8,930
	Jan. 27, 1949	12.89	7,610
	Feb. 17, 1949	17.98	11,700
	Mar. 27, 1949	11.35	6,380
1950	Dec. 13, 1949	20.41	13,600
	Jan. 6, 1950	19.13	12,600
	Jan. 16, 1950	18.58	12,200
	Jan. 27, 1950	12.49	7,290
	Feb. 2, 1950	18.50	12,100
	Feb. 14, 1950	13.89	8,410
	Apr. 5, 1950	12.57	7,360
	Aug. 1, 1950	13.63	8,200
	Sept. 3, 1950	13.09	7,770
1961	Mar. 7, 1961	e43.89	10,400
	May 9, 1961	e43.95	12,600

a Site and datum used 1939-50. b Occurred Feb. 1, 1932. c Maximum stage known since 1854. d Unknown; not maximum for water year. e Occurred on following day.

3115. Green River at lock 6, at Brownsville, Ky.

Location.--Lat 37°12'25", long 86°15'40", on right bank 200 ft upstream from lock and dam 6, 0.7 mile downstream from Indian Creek, 1.0 mile northeast of Brownsville, Edmonson County, 1.8 miles downstream from Nolin River and at mile 181.7.

Drainage area.--2,762 sq mi, of which about 2,072 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Nov. 26, 1940; recording thereafter. Datum of gage is 413.03 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage at lock 5, 13.6 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 68,000 cfs and extended on basis of slope-area measurement at 120,000 cfs.

Bankfull stage.--20 ft.

Remarks.--Records for water years 1907-24, 1932-36 based on discharge measurements obtained in water years 1925-31, 1937-57, and gage-height records furnished by the Corps of Engineers. Peak stage usually occurs at different time than peak discharge. Only annual peaks listed after 1957. Base for partial-duration series, 24,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Nov. 20, 1906	25.3	32,900
	Dec. 19, 1906	20.2	28,300
	Jan. 20, 1907	24.5	34,600
	Feb. 27, 1907	18.1	24,300
	Mar. 16, 1907	19.0	26,100
1908	Feb. 16, 1908	20.0	28,000
1909	Feb. 26, 1909	31.2	45,900
	Mar. 10, 1909	26.6	39,400
1910	June 13, 1910	22.0	31,000
1911	May 2, 1911	32.6	49,400
1912	Dec. 17, 1911	21.9	30,800
1912	Dec. 29, 1911	19.1	26,300
	Mar. 17, 1912	21.6	30,500
	Apr. 4, 1912	26.0	34,800
	Apr. 30, 1912	18.4	24,900
1913	Jan. 10, 1913	42.8	103,000
	Jan. 25, 1913	18.1	24,300
	Mar. 29, 1913	36.7	62,700
1914	May 7, 1914	21.8	30,600
1915	Feb. 3, 1915	24.4	33,200
1916	Dec. 19, 1915	33.0	51,300
	Dec. 31, 1915	18.0	24,100
	Jan. 15, 1916	22.9	32,200

Peak stages and discharges of Green River at lock 6, at Brownsville, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 7, 1917	27.1	38,600
	Jan. 24, 1917	26.6	38,500
	Mar. 5, 1917	18.5	24,900
	Mar. 14, 1917	21.0	29,600
	Apr. 3, 1917	20.7	29,000
1918	Jan. 31, 1918	21.1	29,800
1919	Jan. 4, 1919	35.6	61,000
	Mar. 17, 1919	25.0	31,000
	May 11, 1919	23.9	32,800
1920	Nov. 3, 1919	20.5	28,800
	Nov. 29, 1919	21.2	29,900
	Dec. 10, 1919	20.1	28,200
	Dec. 15, 1919	21.0	29,600
	Jan. 11, 1920	33.2	52,900
	Jan. 25, 1920	29.4	42,200
	Mar. 21, 1920	20.3	28,500
1921	Apr. 2, 1921	16.1	19,100
1922	Nov. 30, 1921	21.8	30,800
	Feb. 23, 1922	23.6	33,200
	Mar. 4, 1922	23.0	32,700
	Mar. 12, 1922	20.2	23,800
	Mar. 17, 1922	21.4	30,200
	Apr. 3, 1922	18.0	24,100
1923	Jan. 25, 1923	22.6	31,200
	Feb. 5, 1923	29.0	42,100
	Mar. 9, 1923	18.3	24,700
	Mar. 18, 1923	18.4	25,000
1924	Jan. 5, 1924	26.2	36,800
1925	Dec. 11, 1924	27.4	39,000
	Feb. 24, 1925	18.2	25,000
1926	Jan. 24, 1926	24.0	34,000
1927	Dec. 26, 1926	32.5	49,400
	Jan. 24, 1927	34.3	55,700
	Mar. 22, 1927	19.9	29,500
	June 1, 1927	20.5	30,000
1928	June 7, 1928	19.1	27,000
	June 11, 1928	23.4	32,900
	July 1, 1928	21.6	32,800
1929	Feb. 28, 1929	23.1	32,600
	Mar. 26, 1929	18.6	25,300
	May 8, 1929	18.8	25,700
1930	Feb. 6, 1930	17.6	23,200
1931	Mar. 30, 1931	14.2	12,000
1932	Dec. 15, 1931	21.1	29,800
	Jan. 26, 1932	23.3	33,300
	Feb. 1, 1932	30.8	47,700
	Mar. 31, 1932	20.8	29,300
1933	Jan. 24, 1933	25.6	35,900
	Feb. 22, 1933	19.8	27,600
1934	Mar. 6, 1934	23.1	32,900
1935	Jan. 23, 1935	33.7	55,000
	Mar. 14, 1935	31.8	49,800
	Apr. 3, 1935	24.6	34,600
	Apr. 9, 1935	27.2	37,700
	June 24, 1935	25.1	32,700
1936	Mar. 28, 1936	20.7	29,200
	Apr. 9, 1936	20.8	29,300
1937	Jan. 12, 1937	19.1	28,000
	Jan. 24, 1937	44.94	120,000
1938	Mar. 16, 1938	16.2	19,400
1939	Feb. 3, 1939	26.1	35,600
	Feb. 12, 1939	19.2	26,500
	Feb. 17, 1939	19.2	26,500
	Mar. 7, 1939	23.4	34,000
	Apr. 18, 1939	19.8	27,600
1940	Apr. 22, 1940	18.48	25,100
1941	July 20, 1941	15.83	17,700
1942	Apr. 11, 1942	19.55	26,400
1943	Jan. 2, 1943	27.89	43,000
	Mar. 15, 1943	20.44	28,000
	Mar. 22, 1943	29.13	45,500
1944	Apr. 13, 1944	19.16	25,900
1945	Jan. 4, 1945	25.67	39,200
	Mar. 8, 1945	26.00	39,800
1946	Feb. 16, 1946	20.28	28,700
1947	Jan. 5, 1947	18.75	25,600
1948	Feb. 17, 1948	30.65	46,200
	Mar. 29, 1948	19.62	27,300
	Apr. 16, 1948	29.70	47,800
1949	Dec. 18, 1948	22.49	33,000
	Jan. 7, 1949	18.60	25,500
	Feb. 18, 1949	33.74	57,000
	June 20, 1949	20.66	29,600
1950	Dec. 15, 1949	30.49	46,200
	Jan. 9, 1950	33.40	55,900
	Jan. 16, 1950	30.52	45,400
	Feb. 4, 1950	32.75	53,800
	Feb. 15, 1950	19.86	27,500
	June 24, 1950	19.10	26,500
1951	Jan. 6, 1951	22.35	32,700
	Jan. 17, 1951	26.95	38,700
	Feb. 15, 1951	22.39	32,800
	Feb. 22, 1951	19.05	26,400
	Mar. 20, 1951	18.27	24,700
1952	Nov. 26, 1951	23.28	30,600
	Dec. 11, 1951	26.50	37,500
	Dec. 17, 1951	19.05	26,200
	Dec. 23, 1951	19.38	26,900
	Jan. 30, 1952	18.91	26,000
	Mar. 14, 1952	22.78	32,300
	Mar. 25, 1952	37.15	66,900
1953	Mar. 6, 1953	22.10	31,200
	May 20, 1953	22.85	32,500
1954	Apr. 19, 1954	16.57	20,400
1955	Feb. 9, 1955	20.51	28,900
	Feb. 25, 1955	21.82	30,800
	Mar. 3, 1955	23.84	33,600
	Mar. 26, 1955	27.82	38,100
1956	Feb. 3, 1956	30.10	44,000
	Feb. 21, 1956	29.28	43,300
	Mar. 18, 1956	21.38	30,200
	Apr. 17, 1956	18.48	25,100
1957	Jan. 25, 1957	18.33	24,800
	Feb. 2, 1957	27.52	38,000
	Apr. 7, 1957	26.22	37,100
1958	Nov. 21, 1958	34.15	55,300
1959	Jan. 24, 1959	23.48	33,700
1960	Jan. 16, 1960	16.05	19,000
1961	Mar. 8, 1961	23.07	32,900

3120. Bear Creek near Leitchfield, Ky.

Location.--Lat 37°25'35", long 86°15'50", near center of span on upstream side of bridge on State Highway 65, just downstream from Taylor Fork, 0.8 mile upstream from McClure Fork and 4 miles south of Leitchfield, Grayson County.

Drainage area.--30.8 sq mi.

Gage.--Nonrecording. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	-	a21	-	1955	Feb. 27, 1955	14.2	2,710
					Sept.30, 1955	17.6	4,950
1950	Dec. 12, 1949	15.0	3,190				
	Jan. 2, 1950	15.5	3,490	1956	Nov. 16, 1955	14.58	2,940
	Jan. 4, 1950	14.3	2,770		Feb. 1, 1956	15.63	3,570
	Jan. 13, 1950	15.0	3,190		Feb. 15, 1956	15.83	3,710
	Jan. 26, 1950	13.9	2,530		Mar. 7, 1956	17.73	5,040
	Feb. 14, 1950	14.8	3,070		June 20, 1956	14.68	3,000
	Apr. 3, 1950	15.0	3,190				
	July 31, 1950	17.2	4,700	1957	Jan. 22, 1957	15.32	3,380
	Sept. 3, 1950	17.3	4,740		Apr. 4, 1957	16.00	3,830
					Apr. 8, 1957	14.80	3,070
1951	Nov. 19, 1950	17.3	4,740		July 15, 1957	15.53	3,510
	Jan. 3, 1951	14.1	2,650				
	Jan. 14, 1951	16.1	3,900	1958	Nov. 18, 1957	21.33	8,070
					Dec. 7, 1957	20.63	7,440
1952	Dec. 4, 1951	17.4	4,810		Dec. 19, 1957	14.88	3,120
	Dec. 7, 1951	13.9	2,530		Jan. 31, 1958	13.98	2,580
	Dec. 20, 1951	14.4	2,830		July 11, 1958	15.03	3,210
	Jan. 3, 1952	16.9	4,460				
	Mar. 10, 1952	15.6	3,550	1959	Jan. 21, 1959	13.87	2,510
	Mar. 22, 1952	18.6	5,700				
				1960	Feb. 11, 1960	15.39	3,420
1953	Mar. 3, 1953	15.66	3,590		June 29, 1960	16.42	4,120
	Mar. 14, 1953	15.30	3,370				
	May 16, 1953	13.89	2,520	1961	Mar. 6, 1961	15.38	3,420
					May 8, 1961	16.90	4,460
1954	Jan. 20, 1954	13.8	2,470				

a About; from information by local resident.

3125. Barren River near Pageville, Ky.

Location.--Lat 36°51'09", long 86°04'37", near right bank on downstream side of bridge pier on U.S. Highway 31E, 100 ft upstream from Hurricane Creek, 1.8 miles south of Pageville, Barren County, and 2.3 miles upstream from Peter Creek.

Drainage area.--531 sq mi, of which about 512 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Nov. 28, 1940; recording thereafter. Datum of gage is 505.47 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 39,000 cfs.

Bankfull stage.--18 ft.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges of Barren River near Pageville, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	20.0	20,100	1951	Jan. 5, 1951	17.51	11,400
					Feb. 2, 1951	-	a13,000
1941	July 5, 1941	14.52	7,220				
				1952	Dec. 9, 1951	18.53	14,200
1942	Apr. 10, 1942	16.93	10,400		Dec. 16, 1951	18.84	15,900
					Jan. 28, 1952	15.84	9,040
1943	Dec. 29, 1942	18.64	15,300		Mar. 12, 1952	16.83	10,600
	Mar. 14, 1943	16.29	9,920		Mar. 23, 1952	27.26	70,000
	Mar. 20, 1943	17.98	13,000				
	Apr. 24, 1943	15.95	9,500	1953	May 18, 1953	14.86	7,850
1944	Feb. 18, 1944	18.28	14,000	1954	Apr. 17, 1954	18.33	14,200
	Feb. 29, 1944	17.96	13,000				
	Sept. 1, 1944	17.15	11,200	1955	Feb. 7, 1955	17.89	12,700
					Feb. 23, 1955	18.57	15,000
1945	Jan. 1, 1945	21.67	26,900		Mar. 19, 1955	15.97	9,210
	Feb. 18, 1945	16.41	9,620		Mar. 22, 1955	23.16	38,600
	Feb. 23, 1945	19.83	19,300				
	Mar. 1, 1945	16.68	10,100	1956	Jan. 30, 1956	22.32	32,700
					Feb. 3, 1956	17.23	11,300
1946	Jan. 8, 1946	24.62	48,900		Feb. 18, 1956	19.90	20,300
	Mar. 8, 1946	16.67	10,300		Mar. 15, 1956	16.45	9,920
					Apr. 7, 1956	17.00	10,800
1947	Jan. 3, 1947	17.72	11,900				
	Jan. 16, 1947	16.36	9,560	1957	Jan. 23, 1957	19.18	17,400
	May 22, 1947	18.60	13,800		Jan. 30, 1957	23.76	42,800
					Apr. 5, 1957	16.44	9,900
1948	Feb. 14, 1948	22.65	35,000		May 23, 1957	17.54	11,900
	Mar. 17, 1948	16.80	10,200				
	Mar. 27, 1948	17.06	10,700	1958	Nov. 18, 1957	19.26	17,700
					Dec. 21, 1957	17.15	11,200
1949	Jan. 6, 1949	16.94	10,400				
	Mar. 19, 1949	17.59	11,600	1959	Feb. 15, 1959	16.09	9,340
	June 16, 1949	21.89	27,700				
				1960	June 29, 1960	17.19	11,200
1950	Dec. 13, 1949	17.92	13,900				
	Jan. 6, 1950	20.60	22,500	1961	Mar. 9, 1961	16.25	9,600
	Feb. 1, 1950	19.35	18,100		June 15, 1961	17.21	11,300
	Feb. 10, 1950	16.00	9,800				

a About.

3130. Barren River near Finney, Ky.

(Published as "at Port Oliver Ford, near Finney" prior to October 1950)

Location.--Lat 36°53'42", long 86°08'02", on left bank in Allen County, 1,200 ft upstream from Port Oliver Ford, 2,500 ft upstream from Difficult Creek, 0.5 mile downstream from Barren River Dam (under construction), and 2.1 miles southwest of Finney, Barren County.

Drainage area.--940 sq mi, of which about 863 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Oct. 11, 1943; recording thereafter. Prior to Sept. 30, 1950, at datum 73.52 ft higher. Datum of present gage is 400.00 ft above mean sea level (levels by Corps of Engineers). Gage heights given herein converted to present datum.

Stage-discharge relation.--Defined by current-meter measurements below 45,000 cfs.

Bankfull stage.--93 ft.

Remarks.--Base for partial-duration series, 16,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 10, 1942	96.5	16,400	1945	Feb. 23, 1945	99.32	23,000
					Mar. 1, 1945	97.02	17,500
1943	Dec. 31, 1942	99.5	23,500				
	Mar. 20, 1943	99.1	22,500	1946	Jan. 8, 1946	103.14	43,800
1944	Mar. 1, 1944	98.33	20,500	1947	May 22, 1947	97.18	17,900
1945	Jan. 1, 1945	103.65	49,400				

Peak stages and discharges of Barren River near Finney, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 14, 1948	103.83	51,800	1950	Dec. 13, 1949	99.44	23,300
					Jan. 6, 1950	102.57	38,700
1949	Dec. 17, 1948	97.87	19,000		Feb. 1, 1950	100.66	27,200
	Jan. 6, 1949	97.42	17,700				
	June 17, 1949	102.94	42,800	1961	June 16, 1961	95.75	14,100

3135. West Bays Fork at Scottsville, Ky.

Location.--Lat 36°44'53", long 86°11'47", on downstream side of left abutment of bridge on U.S. Highway 31E, 0.5 mile southwest of Scottsville, Allen County, and 6.4 miles upstream from mouth.

Drainage area.--7.47 sq mi.

Gage.--Nonrecording prior to Aug. 27, 1952; recording thereafter. Datum of gage is 637.61 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended on basis of slope-area measurement at 1,640 cfs.

Remarks.--Only annual peak is shown for 1952. Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 20, 1950	5.75	1,480	1957	Apr. 4, 1957	4.22	779
	Jan. 14, 1951	5.78	1,490		May 22, 1957	4.35	862
	Sept.22, 1951	5.35	1,280				
				1958	Nov. 18, 1957	6.06	1,720
1952	Mar. 22, 1952	6.09	1,640		Dec. 20, 1957	4.41	895
					June 1, 1958	5.73	1,560
1953	June 16, 1953	6.00	1,600				
	June 29, 1953	4.82	1,100	1959	Jan. 21, 1959	5.41	1,400
	July 18, 1953	4.95	1,160		Feb. 10, 1959	6.03	1,700
					May 25, 1959	5.46	1,420
1954	Sept.20, 1954	4.40	780				
				1960	Oct. 8, 1959	4.82	1,100
1955	Feb. 21, 1955	4.28	767		Dec. 27, 1959	5.62	1,500
	Mar. 20, 1955	4.46	887		June 28, 1960	5.86	1,620
	Mar. 21, 1955	5.76	1,590		July 1, 1960	4.32	846
					July 9, 1960	5.38	1,380
1956	Jan. 30, 1956	4.92	1,150				
	Feb. 17, 1956	5.62	1,500	1961	Mar. 6, 1961	4.93	1,160
					June 9, 1961	5.41	1,400
1957	Jan. 22, 1957	5.11	1,240		June 14, 1961	5.92	1,650
	Jan. 29, 1957	5.64	1,510				

3140. Drakes Creek near Alvaton, Ky.

Location.--Lat 36°53'42", long 86°23'21", on right bank at downstream side of abandoned bridge, 0.5 mile upstream from U.S. Highway 231, 2.5 miles northwest of Alvaton, Warren County, and 4.8 miles downstream from Trammel Creek.

Drainage area.--478 sq mi, of which about 358 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Dec. 19, 1940; recording thereafter. At site 0.5 mile downstream at datum 1.05 ft lower prior to Dec. 19, 1940. Datum of gage is 443.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements below 30,700 cfs.

Bankfull stage.--24 ft.

Remarks.--Base for partial-duration series, 9,000 cfs.

Peak stages and discharges of Drakes Creek near Alvaton, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	22.0	10,400	1950	Feb. 15, 1950	26.68	17,300
					Sept. 3, 1950	24.84	13,500
1941	July 4, 1941	16.45	5,730				
				1951	Jan. 4, 1951	24.25	12,600
1942	Apr. 10, 1942	25.55	15,600		Feb. 13, 1951	22.16	9,860
1943	Dec. 28, 1942	22.73	10,600	1952	Dec. 9, 1951	26.72	17,500
	Mar. 13, 1943	23.18	11,000		Dec. 15, 1951	23.39	11,300
	Mar. 19, 1943	26.96	18,600		Mar. 11, 1952	24.64	13,200
					Mar. 23, 1952	30.48	30,000
1944	Feb. 18, 1944	22.00	9,900				
	Feb. 29, 1944	26.33	17,100	1953	Mar. 4, 1953	20.22	7,930
	Apr. 12, 1944	21.50	9,500				
				1954	Jan. 21, 1954	20.08	7,810
1945	Jan. 1, 1945	30.00	28,400				
	Feb. 18, 1945	21.52	9,500	1955	Feb. 7, 1955	23.58	11,600
	Feb. 22, 1945	25.63	14,700		Feb. 22, 1955	25.75	15,300
	Feb. 28, 1945	21.12	9,150		Mar. 22, 1955	29.77	27,200
1946	Jan. 9, 1946	20.84	8,950	1956	Jan. 30, 1956	28.12	21,700
					Feb. 18, 1956	26.95	18,200
1947	Jan. 3, 1947	21.10	9,470				
	Apr. 16, 1947	20.81	9,200	1957	Jan. 23, 1957	26.82	17,800
	May 22, 1947	24.25	13,000		Jan. 29, 1957	31.54	34,300
					Apr. 4, 1957	22.98	11,400
1948	Feb. 14, 1948	30.70	30,900		May 23, 1957	24.80	14,200
1949	Dec. 16, 1948	27.23	19,000	1958	Nov. 19, 1957	28.37	22,400
	Jan. 6, 1949	26.62	17,200		Dec. 20, 1957	23.37	12,000
	Feb. 16, 1949	23.53	11,800				
	Feb. 20, 1949	21.94	10,200	1959	Jan. 22, 1959	24.40	13,600
	Mar. 18, 1949	22.08	10,400		Feb. 15, 1959	23.15	11,700
	June 16, 1949	23.65	12,000				
				1960	Dec. 28, 1959	23.31	11,900
1950	Dec. 13, 1949	27.47	19,700		June 29, 1960	23.89	12,800
	Jan. 6, 1950	28.27	22,100				
	Jan. 11, 1950	22.93	11,200	1961	Mar. 7, 1961	21.77	9,970
	Jan. 31, 1950	27.20	18,900		June 15, 1961	20.85	9,060

3145. Barren River at Bowling Green, Ky.

Location.--Lat 37°00'04", long 86°25'51", on downstream side of College Street Bridge, 600 ft downstream from bridge on U.S. Highways 31W and 68 at Bowling Green, Warren County, 800 ft upstream from Louisville & Nashville Railroad bridge, 6 miles downstream from Drakes Creek, and 8.9 miles upstream from Jennings Creek.

Drainage area.--1,848 sq mi, of which about 1,358 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to June 21, 1944; recording thereafter. Nonrecording auxiliary gage at Tennessee Valley Authority steamplant, 7.7 miles downstream. Aug. 10, 1939, to Dec. 31, 1942, recording or nonrecording auxiliary gage 8.0 miles downstream from base gage. Datum of base gage is 409.83 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--Flood stage is 28 ft, from reports of U.S. Weather Bureau.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown prior to 1939. Base for partial-duration series, 20,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Jan. 8, 1913	a52.2	-	1939	Feb. 16, 1939	27.60	20,800
					Mar. 6, 1939	28.00	21,400
1937	-	46	-				
1938	Aug. 2, 1938	28.80	22,500	1940	Apr. 2, 1940	27.37	20,600
1939	Jan. 31, 1939	29.25	23,200	1941	July 5, 1941	20.4	11,900
	Feb. 5, 1939	32.00	27,600				
	Feb. 12, 1939	27.65	20,900	1942	Apr. 11, 1942	29.1	23,000

a Maximum stage known.

Peak stages and discharges of Barren River at Bowling Green, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Jan. 1, 1943	32.8	29,200	1952	Dec. 10, 1951	33.18	28,800
	Mar. 14, 1943	29.9	23,900		Dec. 16, 1951	28.45	21,500
	Mar. 21, 1943	34.7	32,300		Mar. 12, 1952	28.14	21,300
					Mar. 24, 1952	44.63	77,400
1944	Mar. 1, 1944	31.1	26,100				
				1953	May 20, 1953	26.93	19,500
1945	Jan. 2, 1945	39.40	51,100				
	Feb. 24, 1945	31.72	27,000	1954	Apr. 19, 1954	26.50	19,200
	Mar. 1, 1945	29.60	23,400				
				1955	Feb. 7, 1955	27.56	21,200
1946	Jan. 10, 1946	36.30	38,800		Feb. 23, 1955	30.34	24,500
					Mar. 23, 1955	40.46	55,100
1947	May 23, 1947	27.01	20,000				
				1956	Feb. 1, 1956	35.35	34,000
1948	Feb. 15, 1948	39.82	53,000		Feb. 19, 1956	36.73	38,000
1949	Dec. 17, 1948	32.00	27,500	1957	Jan. 24, 1957	28.80	22,600
	Jan. 6, 1949	30.48	24,400		Jan. 30, 1957	42.07	66,100
	Feb. 16, 1949	31.42	26,400				
	Feb. 21, 1949	28.20	21,400	1958	Nov. 20, 1957	34.32	30,700
	June 18, 1949	35.10	35,000		Dec. 21, 1957	27.58	20,300
1950	Dec. 14, 1949	35.95	37,500	1959	Jan. 23, 1959	28.06	21,300
	Jan. 7, 1950	39.65	51,600		Feb. 16, 1959	27.97	21,300
	Feb. 2, 1950	36.80	38,100				
	Feb. 15, 1950	30.72	25,200	1960	June 29, 1960	26.35	19,400
1951	Jan. 5, 1951	28.33	21,800	1961	June 16, 1961	26.65	19,200
	Feb. 14, 1951	28.52	21,800				

3150. Barren River at lock 1, at Greencastle, Ky.

Location.--Lat 37°05'10", long 86°30'10", at lock 1, half a mile southwest of Greencastle, Warren County.

Drainage area.--1,966 sq mi, of which about 1,396 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. At datum 4.79 ft higher prior to Oct. 1, 1931. Datum of gage is 399.51 ft above mean sea level, datum of 1929. Gage heights given herein converted to last used datum.

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs and slope-area measurement at 82,000 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	January 1913	a41.2	-	1929	Feb. 28, 1929	22.8	24,800
				1930	May 20, 1930	18.8	16,000
1925	Dec. 10, 1924	21.1	20,600				
				1931	Mar. 30, 1931	17.0	11,300
1926	Jan. 24, 1926	23.4	25,200				
1927	Dec. 24, 1926	32.3	46,700	1937	Jan. 23, 1937	39.00	82,000
1928	July 2, 1928	20.6	19,600				

a Maximum stage known.

3155. Green River at lock 4, at Woodbury, Ky.

Location.--Lat 37°10'56", long 86°37'48", on left bank 0.1 mile upstream from lock 4, at Woodbury, Butler County, 0.4 mile downstream from Barren River, and at mile 149.1.

Drainage area.--5,403 sq mi, of which about 4,043 sq mi contributes directly to surface runoff.

Gage.--Nonrecording at site 0.1 mile downstream at lock 4 prior to Sept. 24, 1940; recording at present site thereafter. Datum of gage is 389.60 ft above mean sea level, adjustment of 1912. Auxiliary nonrecording gage prior to Sept. 30, 1955; recording thereafter. Oct. 1, 1938, to Sept. 30, 1951, and Oct. 1, 1952, to Sept. 30, 1953, at site 6.0 miles downstream; Oct. 1, 1951, to Sept. 30, 1952, and since Oct. 1, 1953, at site 7.8 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements below 110,000 cfs.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown prior to 1938 and after 1957. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Jan. 11, 1913	38.5	-	1950	Dec. 15, 1949	31.01	74,600
					Jan. 8, 1950	33.07	84,900
1937	Jan. 25, 1937	a43.1	205,000		Feb. 4, 1950	31.98	77,500
1938	Aug. 2, 1938	20.2	39,900		Feb. 16, 1950	26.00	54,100
					Sept. 4, 1950	21.60	42,800
1939	Feb. 6, 1939	29.3	66,200				
	Mar. 8, 1939	24.9	51,900	1951	Jan. 7, 1951	24.01	50,400
					Jan. 17, 1951	27.02	58,600
1940	Mar. 3, 1940	19.4	40,600		Feb. 16, 1951	24.62	50,900
	Apr. 3, 1940	19.6	40,200		Feb. 23, 1951	23.25	44,800
	Apr. 22, 1940	21.6	44,600		Mar. 21, 1951	22.05	44,500
1941	July 19, 1941	13.12	22,500	1952	Nov. 28, 1951	24.10	50,200
					Dec. 12, 1951	28.22	63,000
1942	Apr. 12, 1942	23.05	48,700		Dec. 23, 1951	22.49	42,600
					Jan. 30, 1952	20.58	41,100
1943	Jan. 2, 1943	27.72	63,300		Mar. 14, 1952	23.74	49,400
	Mar. 23, 1943	30.16	73,700		Mar. 26, 1952	34.20	106,000
1944	Mar. 3, 1944	21.54	46,800	1953	Mar. 6, 1953	23.19	48,000
	Mar. 22, 1944	19.30	41,500		May 21, 1953	24.90	51,700
	Apr. 13, 1944	21.18	45,700				
				1954	Apr. 19, 1954	19.35	34,900
1945	Jan. 4, 1945	29.30	74,100				
	Mar. 3, 1945	27.33	57,100	1955	Feb. 9, 1955	22.87	42,100
					Feb. 25, 1955	c25.73	47,200
1946	Jan. 12, 1946	24.79	53,000		Mar. 25, 1955	31.25	72,000
	Feb. 8, 1946	20.43	42,400				
	Feb. 16, 1946	22.72	45,900	1956	Feb. 5, 1956	30.55	65,600
					Feb. 21, 1956	30.22	65,800
1947	Jan. 5, 1947	21.88	45,800				
	May 24, 1947	19.37	42,700	1957	Jan. 26, 1957	21.54	42,800
					Feb. 1, 1957	30.88	77,400
1948	Feb. 17, 1948	31.30	87,400		Apr. 7, 1957	25.44	51,600
	Mar. 29, 1948	22.78	47,600				
	Apr. 17, 1948	25.14	53,200	1958	Nov. 21, 1957	31.81	80,500
				1959	Jan. 24, 1959	23.66	48,700
1949	Dec. 18, 1948	26.05	55,800	1960	July 1, 1960	19.87	36,800
	Jan. 8, 1949	b22.3	47,400				
	Jan. 29, 1949	b21.2	42,000	1961	Mar. 9, 1961	25.68	52,600
	Feb. 18, 1949	30.65	72,700				
	June 19, 1949	23.60	52,200				

a Highest since at least 1898.
b About.
c Occurred Mar. 4, 1955.

3160. Mud River near Lewisburg, Ky.

Location.--Lat 37°00'14", long 86°54'26", at bridge on State Highway 106, 2½ miles northeast of Lewisburg, Logan County, 7½ miles downstream from Motts Lick Creek, and 14 miles upstream from Wolf Lick Creek.

Drainage area.--90.5 sq mi, of which about 81.5 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. At site 100 ft upstream at present datum Oct. 23, 1941, to Dec. 4, 1957. Datum of gage is 409.05 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 3, 1940	17.40	4,680
1941	Dec. 27, 1940	13.0	862
1942	Apr. 9, 1942	16.6	3,800
1943	Dec. 28, 1942	16.0	3,140
	Mar. 19, 1943	17.4	4,680
1944	Feb. 29, 1944	15.2	2,260
1945	Jan. 1, 1945	17.5	4,800
	Mar. 17, 1945	17.2	4,460
1946	Jan. 9, 1946	16.0	3,140
1947	Apr. 16, 1947	16.5	3,690
1948	Feb. 14, 1948	19.0	6,470
	Apr. 13, 1948	16.3	3,230
1949	Nov. 19, 1948	19.08	6,580
	Dec. 16, 1948	19.82	7,620
	Feb. 14, 1948	20.8	9,070
1950	Dec. 13, 1949	19.75	7,530
	Jan. 3, 1950	16.15	3,100
	Jan. 31, 1950	16.5	3,440
	Feb. 14, 1950	17.65	4,740
	Sept. 3, 1950	20.5	8,620
1951	Nov. 20, 1950	15.9	3,000
	Jan. 3, 1951	17.4	4,500
	Jan. 14, 1951	18.4	5,580
	Feb. 21, 1951	16.2	3,300
1952	Nov. 14, 1951	16.2	3,300
	Nov. 24, 1951	16.3	3,400
	Dec. 4, 1951	18.3	5,460
	Dec. 9, 1951	16.1	3,200
	Mar. 22, 1952	21.1	9,600
1953	Mar. 4, 1953	16.52	3,620
	May 17, 1953	16.28	3,380
1954	June 3, 1954	15.8	2,900
1955	Feb. 6, 1955	16.35	3,450
	Feb. 22, 1955	16.36	3,460
	Mar. 22, 1955	16.62	3,720
1956	Jan. 30, 1956	18.38	5,580
	Feb. 2, 1956	17.17	4,270
	Feb. 18, 1956	18.60	5,840
	Mar. 14, 1956	16.33	3,430
1957	Jan. 29, 1957	16.62	3,720
	Apr. 4, 1957	17.78	4,880
	May 23, 1957	15.92	3,020
1958	Nov. 18, 1957	22.53	12,200
	Dec. 8, 1957	16.15	3,250
	Dec. 20, 1957	15.9	3,000
1959	Jan. 22, 1959	15.90	3,000
1960	June 28, 1960	20.00	7,800
1961	June 15, 1961	16.65	3,750

3165. Green River at Paradise, Ky.
(Published as "at Green River" 1939-50)

Location.--Lat 37°15'53", long 86°58'43", on left bank on reservation of Tennessee Valley Authority steam-electric generating plant, 0.35 mile southeast of Paradise, Muhlenberg County, 1.1 miles downstream from Jacobs Creek, 1.3 miles downstream from Pond Run, 2.8 miles upstream from Pond Creek, and at mile 100.07.

Drainage area.--6,182 sq mi, of which about 4,802 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Feb. 23, 1961; recording thereafter. At site 0.33 mile upstream at datum 0.12 ft higher prior to Oct. 1, 1948. At site 0.34 mile downstream at datum 0.12 ft higher Oct. 1, 1948, to Sept. 30, 1950. Datum of present gage is 363.19 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (levels by Tennessee Valley Authority). Prior to Mar. 10, 1940, lock 3 lower nonrecording gage, 8.4 miles upstream used as auxiliary. Mar. 10, 1940, to Sept. 30, 1950, nonrecording auxiliary gage at Illinois Central Railroad bridge at Rockport, 5.1 miles downstream. Since Feb. 22, 1961, nonrecording auxiliary gage at site 5.5 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--25 ft.

Remarks.--Base for partial-duration series, 40,000 cfs. Peak stage usually occurs at different time than peak discharge. Only annual peak shown for 1961.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 22, 1940	27.96	42,500	1947	Apr. 19, 1947	24.82	40,100
					May 25, 1947	25.55	40,300
1941	Jan. 27, 1941	13.26	20,800				
				1948	Feb. 20, 1948	32.6	60,400
1942	Apr. 14, 1942	27.78	45,600		Mar. 30, 1948	27.80	41,300
					Apr. 19, 1948	29.40	44,900
1943	Jan. 4, 1943	29.67	47,500				
	Mar. 25, 1943	34.06	63,300	1949	Dec. 21, 1948	29.26	46,600
					Jan. 30, 1949	29.26	42,200
1944	Mar. 4, 1944	25.82	40,100		Feb. 23, 1949	35.00	72,200
1945	Jan. 8, 1945	31.42	56,000	1950	Dec. 18, 1949	33.08	62,100
	Mar. 7, 1945	34.02	63,200		Jan. 14, 1950	38.3	89,300
					Feb. 6, 1950	36.05	74,700
1946	Jan. 13, 1946	28.15	46,000		Sept. 6, 1950	27.42	44,000
	Feb. 18, 1946	29.3	45,300				
				1961	Mar. 11, 1961	31.55	52,400
1947	Jan. 7, 1947	25.95	40,900				

3170. Rough River near Madrid, Ky.

Location.--Lat 37°35'31", long 86°19'46", on upstream side of bridge near center of span on State Highway 65 at Everleigh, 1.5 miles southeast of Madrid, Breckinridge County, and 7½ miles downstream from Clifty Creek.

Drainage area.--225 sq mi, of which about 158 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. Datum of gage is 466.08 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--20 ft.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown prior to 1939. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges of Rough River near Madrid, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 19, 1937	38.6	13,200	1950	Jan. 3, 1950	28.9	7,450
1938	Aug. 5, 1938	25.80	5,900		Jan. 10, 1950	26.4	4,710
					Jan. 12, 1950	32.9	9,040
1939	Jan. 30, 1939	27.10	7,790		Jan. 27, 1950	27.4	5,300
	Feb. 2, 1939	27.38	7,020		Feb. 1, 1950	28.5	5,540
	Mar. 5, 1939	30.68	10,800		Feb. 14, 1950	28.2	5,340
	Mar. 30, 1939	24.70	6,110		Apr. 3, 1950	33.4	10,200
	Apr. 6, 1939	21.87	5,160		June 3, 1950	25.9	4,750
	Apr. 16, 1939	27.34	8,470				
	June 18, 1939	25.00	6,500	1951	Nov. 20, 1950	26.5	5,630
					Dec. 7, 1950	24.4	4,370
1940	Feb. 18, 1940	21.20	4,750		Jan. 4, 1951	29.5	7,810
	Mar. 3, 1940	30.40	10,900		Jan. 15, 1951	34.0	12,200
	Apr. 20, 1940	25.95	6,460		Feb. 13, 1951	26.3	5,480
1941	Jan. 24, 1941	13.9	1,650	1952	Nov. 24, 1951	27.5	6,190
					Dec. 4, 1951	28.3	7,120
1942	Apr. 9, 1942	28.6	7,770		Dec. 9, 1951	26.9	5,780
					Dec. 21, 1951	27.3	6,220
1943	Dec. 28, 1942	22.0	4,250		Jan. 5, 1952	24.5	4,260
	Mar. 11, 1943	24.65	5,070		Mar. 11, 1952	30.0	8,450
	Mar. 19, 1943	25.1	5,300		Mar. 22, 1952	35.2	13,800
1944	Apr. 11, 1944	22.3	3,920	1953	Mar. 4, 1953	29.8	8,140
					May 17, 1953	29.6	7,750
1945	Jan. 1, 1945	23.2	4,810				
	Feb. 22, 1945	-	a5,000	1954	Sept.21, 1954	b18.4	b1,920
	Feb. 26, 1945	32.1	11,900				
	Mar. 3, 1945	22.95	4,330	1955	Feb. 6, 1955	28.12	6,500
	Mar. 5, 1945	26.95	6,630		Feb. 22, 1955	28.30	6,640
					Feb. 27, 1955	25.25	4,550
1946	Feb. 6, 1946	30.05	7,560		Mar. 16, 1955	24.50	4,100
	Feb. 13, 1946	31.0	8,640		Mar. 22, 1955	26.35	5,210
	Mar. 26, 1946	26.25	4,640				
				1956	Jan. 30, 1956	26.68	5,410
1947	Jan. 2, 1947	29.3	6,770		Feb. 3, 1956	30.34	7,570
	Apr. 16, 1947	30.7	8,420		Feb. 15, 1956	27.88	6,100
	May 25, 1947	29.2	6,800		Feb. 18, 1956	26.70	5,420
					Mar. 8, 1956	26.80	5,470
1948	Feb. 14, 1948	32.5	12,000				
	Mar. 16, 1948	27.75	6,210	1957	Jan. 23, 1957	27.47	5,850
	Mar. 27, 1948	29.8	7,690		Apr. 4, 1957	32.60	8,930
	Apr. 13, 1948	25.7	4,600		May 23, 1957	31.30	8,150
					June 19, 1957	29.00	6,770
1949	Nov. 19, 1948	26.8	5,830				
	Dec. 15, 1948	29.75	8,030	1958	Nov. 14, 1957	27.25	5,720
	Jan. 25, 1949	26.2	4,540		Nov. 19, 1957	40.54	14,800
	Jan. 27, 1949	26.5	5,100		Dec. 7, 1957	27.20	5,690
	Feb. 14, 1949	32.3	9,500		Dec. 20, 1957	25.40	4,770
	Mar. 27, 1949	24.4	4,000		July 11, 1958	27.8	6,050
1950	Dec. 12, 1949	36.2	12,400	1959	Jan. 22, 1959	29.5	7,070

a About.
b May have been greater Apr. 16 or 17 during period of no record.

3175. North Fork Rough River near Westview, Ky.

Location.--Lat 37°41'32", long 86°23'29", on left bank 25 ft downstream from bridge on State Highway 520, 1.0 mile southeast of Westview, Breckinridge County, and 2.1 miles downstream from Buffalo Creek.

Drainage area.--42.0 sq mi, of which about 23 sq mi contributes directly to surface runoff.

Gage.--Recording. Datum of gage is 500.88 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Base for partial-duration series, 900 cfs.

Peak stages and discharges of North Fork Rough River near Westview, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 22, 1955	11.94	1,250	1958	Nov. 14, 1957	13.12	1,430
	Feb. 27, 1955	12.72	1,380		Nov. 18, 1957	16.79	2,520
	Mar. 21, 1955	13.22	1,470		Dec. 7, 1957	12.37	1,280
	May 13, 1955	10.47	1,010		Mar. 24, 1958	-	(c)
					Apr. 27, 1958	-	(c)
1956	Jan. 30, 1956	11.40	1,090		May 6, 1958	-	(c)
	Feb. 2, 1956	14.43	1,770				
	Feb. 15, 1956	16.14	2,280	1959	Jan. 21, 1959	18.57	3,170
	Feb. 18, 1956	-	(a)		May 21, 1959	16.65	2,470
	July 16, 1956	-	b1,200				
	July 24, 1956	12.70	1,350	1960	Jan. 14, 1960	12.0	1,210
1957	Jan. 22, 1957	11.63	1,140	1961	Mar. 6, 1961	11.30	1,080
	Apr. 4, 1957	15.26	2,020		May 7, 1961	16.09	2,270
	May 22, 1957	15.89	2,210				
	June 28, 1957	11.90	1,190				

a Unknown but less than 2,280 cfs and greater than 900 cfs.
b About.
c Unknown, less than 2,520 cfs and greater than 900 cfs.

3180. Rough River near Falls of Rough, Ky.

Location.--Lat 37°36'33", long 86°29'47", on right bank 2.6 miles downstream from North Fork, 3½ miles northeast of Falls of Rough, Grayson County, 4.1 miles upstream from Rock Lick Creek, and 7.1 miles upstream from mill-dam at Falls of Rough.

Drainage area.--454 sq mi, of which about 345 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to July 10, 1940; recording thereafter. Datum of gage is 429.20 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage at site 7.1 miles downstream used Oct. 1, 1940, to Sept. 30, 1946. Datum of auxiliary gage is 368.01 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--17 ft.

Remarks.--Peak stage usually occurs at different time than peak discharge. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	-	36	-	1949	Nov. 19, 1948	25.54	8,320
					Dec. 17, 1948	24.97	7,720
1940	Mar. 4, 1940	25.2	7,760		Jan. 28, 1949	25.88	8,650
	Apr. 20, 1940	25.7	8,080		Feb. 15, 1949	29.72	13,100
1941	Jan. 25, 1941	11.22	1,800	1950	Dec. 13, 1949	29.91	13,300
					Jan. 4, 1950	27.86	9,970
1942	Apr. 10, 1942	26.20	9,670		Jan. 13, 1950	29.94	13,400
					Jan. 27, 1950	21.52	5,270
1943	Dec. 30, 1942	21.45	5,840		Feb. 1, 1950	26.70	8,850
	Mar. 12, 1943	21.28	5,670		Feb. 14, 1950	25.75	8,080
	Mar. 20, 1943	25.55	9,170		Apr. 4, 1950	27.07	9,230
					June 4, 1950	24.35	6,960
1944	Apr. 24, 1944	18.69	4,390				
				1951	Nov. 21, 1950	21.30	5,290
1945	Feb. 27, 1945	27.04	9,710		Jan. 4, 1951	24.62	7,120
	Mar. 6, 1945	26.98	9,620		Jan. 15, 1951	28.94	11,600
					Feb. 14, 1951	23.06	6,030
1946	Jan. 9, 1946	19.43	5,200				
	Feb. 6, 1946	26.75	9,380	1952	Nov. 26, 1951	23.25	6,160
	Feb. 14, 1946	27.49	10,400		Dec. 5, 1951	22.49	5,750
	Mar. 27, 1946	21.55	5,280		Dec. 9, 1951	23.68	6,420
					Dec. 22, 1951	22.66	5,840
1947	Jan. 4, 1947	23.18	6,130		Jan. 5, 1952	23.83	6,530
	Apr. 17, 1947	25.12	7,800		Mar. 12, 1952	25.16	7,600
	May 27, 1947	21.44	5,200		Mar. 23, 1952	30.07	13,700
1948	Feb. 15, 1948	25.83	8,620	1953	Mar. 4, 1953	25.97	8,250
	Mar. 28, 1948	24.17	6,940		May 18, 1953	26.16	8,470
	Apr. 14, 1948	24.04	6,840				

Peak stages and discharges of Rough River near Falls of Rough, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 17, 1954	14.53	2,710	1955	Mar. 22, 1955	24.60	7,100
1955	Feb. 7, 1955	23.33	6,160	1956	Feb. 3, 1956	26.65	8,800
	Feb. 23, 1955	23.97	6,600		Feb. 16, 1956	24.99	7,410
	Mar. 1, 1955	22.84	5,880				

3182. Rock Lick Creek near Glen Dean, Ky.

Location.--Lat 37°39'24", long 86°33'43", on left bank 8 ft downstream from old bridge abutments on abandoned county road, 0.5 mile downstream from Black Lick Creek, 1.2 miles west of Glen Dean, Breckinridge County, and 7.0 miles upstream from mouth.

Drainage area.--20.1 sq mi.

Gage.--Recording. Datum of gage is 448.29 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended on basis of slope-area measurement at 8,720 cfs.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 22, 1957	12.58	1,350	1959	May 21, 1959	15.81	3,430
	Apr. 4, 1957	13.64	1,770		May 30, 1959	16.76	4,930
	May 22, 1957	16.65	4,730				
	June 28, 1957	14.90	2,530	1960	Jan. 14, 1960	13.60	1,750
					Feb. 10, 1960	12.00	1,150
1958	Nov. 14, 1957	12.96	1,490		June 5, 1960	11.50	1,020
	Nov. 18, 1957	14.43	2,210				
	Dec. 7, 1957	13.15	1,560	1961	Feb. 22, 1961	12.49	1,380
	Apr. 27, 1958	13.33	1,630		Mar. 5, 1961	13.20	1,610
	May 6, 1958	12.75	1,410		May 8, 1961	15.91	3,550
1959	Jan. 21, 1959	18.36	8,720				

3185. Rough River at Falls of Rough, Ky.

Location.--Lat 37°35'20", long 86°33'05", on left bank 150 ft downstream from bridge on State Highway 110 at Falls of Rough, Grayson County, and 3.0 miles downstream from Rock Lick Creek.

Drainage area.--504 sq mi, of which about 394 sq mi contributes directly to surface runoff.

Gage.--Recording. Datum of gage is 420.94 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--20 ft.

Remarks.--Flow regulated by Rough River Reservoir since 1958. Only annual peaks are shown since 1958. Peak stage occasionally occurs at different time than peak discharge. Base for partial-duration series, 5,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Jan. 12, 1913	28.96	-	1937	Jan. 25, 1937	34.06	-
1915	-	28.93	-	1949	Nov. 20, 1948	25.62	7,660
					Dec. 17, 1948	25.27	7,340
1935	March 1935	29.31	-		Jan. 28, 1949	26.38	8,670

Peak stages and discharges of Rough River at Falls of Rough, Ky.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 16, 1949	28.20	11,400	1953	Mar. 5, 1953	25.95	8,060
	Mar. 28, 1949	22.76	5,560		May 19, 1953	25.74	7,800
1950	Dec. 14, 1949	28.67	12,100	1954	Apr. 16, 1954	17.06	3,000
	Jan. 5, 1950	27.67	10,600				
	Jan. 14, 1950	28.87	12,400	1955	Feb. 8, 1955	24.33	6,480
	Jan. 28, 1950	23.48	6,040		Feb. 23, 1955	24.73	6,830
	Feb. 2, 1950	26.56	8,940		Mar. 1, 1955	24.44	6,570
	Feb. 15, 1950	25.95	8,060		Mar. 23, 1955	25.08	7,140
	Apr. 5, 1950	26.65	9,020				
	June 5, 1950	24.84	6,990	1956	Feb. 4, 1956	26.49	8,840
					Feb. 18, 1956	25.70	7,750
1951	Nov. 22, 1950	23.08	5,760				
	Jan. 5, 1951	25.34	7,400	1957	Apr. 6, 1957	26.71	9,160
	Jan. 16, 1951	27.85	10,900		May 24, 1957	27.59	10,500
	Feb. 14, 1951	24.25	6,580				
				1958	Nov. 19, 1957	24.38	4,900
1952	Nov. 26, 1951	24.55	6,780	1959	Jan. 21, 1959	24.52	6,620
	Dec. 10, 1951	24.70	6,890	1960	Jan. 15, 1960	20.38	4,130
	Dec. 22, 1951	23.92	6,340				
	Jan. 5, 1952	25.07	7,180	1961	May 8, 1961	21.44	5,130
	Mar. 12, 1952	25.32	7,380				
	Mar. 23, 1952	28.32	11,600				

3188. Caney Creek near Horse Branch, Ky.

Location.--Lat 37°27'50", long 86°39'20", on right bank 9 ft downstream from bridge on U.S. Highway 62, 0.6 mile upstream from Horse Branch, 1.5 miles northeast of village of Horse Branch, Ohio County, and 11.2 miles upstream from mouth.

Drainage area.--124 sq mi, includes that of Horse Branch at U.S. Highway 62.

Gage.--Nonrecording prior to Nov. 20, 1956; recording thereafter. Datum of gage is 417.30 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 23, 1957	12.03	4,840	1959	May 23, 1959	11.62	3,030
	Jan. 30, 1957	11.37	2,220				
	Apr. 4, 1957	12.96	9,020	1960	Dec. 13, 1959	11.53	2,700
	Apr. 9, 1957	11.45	2,450		Jan. 16, 1960	11.65	3,150
	May 23, 1957	12.33	6,180		Feb. 7, 1960	11.18	1,760
					Feb. 11, 1960	11.13	1,660
1958	Nov. 15, 1957	11.94	a3,000		June 30, 1960	11.80	3,800
	Nov. 18, 1957	14.43	b10,000				
	Dec. 8, 1957	11.99	4,660	1961	Feb. 24, 1961	11.28	1,900
	Dec. 20, 1957	11.77	3,660		Mar. 6, 1961	11.90	3,450
					May 7, 1961	12.92	6,510
1959	Jan. 21, 1959	12.26	5,870				

a About.
b About; backwater from debris or Rough River.

3190. Rough River near Dundee, Ky.

Location.--Lat 37°32'51", long 86°43'18", on right bank at downstream side of Barrets Ford Bridge, 1.5 miles downstream from Caney Creek and 3 miles southeast of Dundee, Ohio County.

Drainage area.--757 sq mi, of which about 637 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to Dec. 10, 1940; recording thereafter. Nonrecording auxiliary gage, 6.2 miles downstream, Oct. 1, 1939, to June 30, 1940; 1.4 miles upstream, Mar. 28, 1941, to Sept. 30, 1945; and 5.6 miles downstream since Oct. 1, 1950. Datum of base gage is 393.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--27 ft.

Remarks.--Flow regulated by Rough River Reservoir since 1958. Peak stage occasionally occurs at different time than peak discharge. Only annual peaks are shown after 1957. Base for partial-duration series, 5,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	31.8	-	1950	Feb. 2, 1950	28.14	11,100
					Feb. 15, 1950	27.90	10,000
1940	Mar. 6, 1940	27.43	7,860		Apr. 5, 1950	28.08	10,800
	Apr.20,21,1940	28.49	9,790		June 7, 1950	26.30	6,480
					Aug. 3, 1950	25.46	5,660
1941	July 4, 1941	18.78	3,640		Sept. 4, 1950	28.21	11,500
1942	Apr. 11, 1942	28.27	11,400	1951	Dec. 9, 1950	26.05	6,030
					Jan. 6, 1951	27.18	8,150
1943	Jan. 1, 1943	26.73	7,000		Jan. 16, 1951	28.59	14,300
	Mar. 21, 1943	27.87	9,840		Feb. 16, 1951	26.79	7,290
1944	Apr. 14, 1944	24.36	4,740	1952	Nov. 28, 1951	27.00	7,700
					Dec. 10, 1951	27.44	8,800
1945	Mar. 1, 1945	28.32	11,600		Dec. 23, 1951	26.44	6,690
	Mar. 7,8, 1945	28.30	11,600		Jan. 6, 1952	27.24	8,300
	May 18, 1945	25.30	6,200		Mar. 13, 1952	27.38	8,650
					Mar. 24, 1952	28.84	17,600
1946	Jan. 11, 1946	25.90	5,970				
	Feb. 8, 1946	28.13	11,000	1953	Mar. 6, 1953	27.83	9,790
	Feb. 15, 1946	28.17	11,300		May 20, 1953	27.78	9,650
	Mar. 29, 1946	26.24	6,400				
				1954	Apr. 18, 1954	22.26	3,860
1947	Jan. 6, 1947	26.40	6,630				
	Apr. 18, 1947	27.40	8,720	1955	Feb. 9, 1955	26.50	6,790
	May 17, 1947	26.73	7,130		Feb. 24, 1955	26.81	7,330
					Mar. 2, 1955	26.81	7,330
1948	Feb. 17, 1948	27.49	8,900		Mar. 23, 1955	27.31	8,480
	Mar. 30, 1948	26.74	7,130				
	Apr. 16, 1948	27.08	7,910	1956	Feb. 3, 1956	28.24	11,600
					Feb. 19, 1956	27.94	10,100
1949	Nov. 21, 1948	27.83	9,790				
	Dec. 18, 1948	27.38	8,650	1957	Apr. 6, 1957	27.96	10,200
	Jan. 28, 1949	28.35	12,400		May 24, 1957	28.62	14,600
	Feb. 17, 1949	28.70	15,500				
	Mar. 29, 1949	26.13	6,300	1958	Nov. 19, 1957	29.00	a8,000
				1959	Jan. 23, 1959	27.56	9,100
1950	Dec. 14, 1949	28.82	17,200	1960	Jan. 17, 1960	25.03	5,090
	Jan. 6, 1950	28.67	15,200				
	Jan. 14, 1950	28.97	20,000	1961	May 8, 1961	26.71	9,960

a About.

3200. Green River at lock 2, at Calhoun, Ky.
(Published as "at Livermore" prior to October 1958)

Location.--Lat 37°32'02", long 87°15'50", on right bank 870 ft upstream from lock and dam 2 at Calhoun, McLean County, 0.4 mile upstream from Long Falls Creek, and at mile 63.2.

Drainage area.--7,564 sq mi, of which about 6,024 sq mi contributes directly to surface runoff.

Gage.--Calhoun: Nonrecording prior to Sept. 1, 1939; recording thereafter. Prior to Sept. 1, 1958, at present site or at State Highway 81 bridge, 0.3 mile upstream at datum 1.35 ft higher. Water-surface slope between two sites probably less than 0.05 ft. Datum of present gage is 353.95 ft above mean sea level, datum of 1929 or 354.40 ft above mean sea level, Green River Survey datum.

Livermore (8.0 miles upstream from present site): Nonrecording prior to Sept. 1, 1939; recording thereafter. Datum of gage is 360.11 ft above mean sea level, datum of 1929, supplementary adjustment of 1955.

Various slope reaches involving the above gages have been used during the period of record. Gage heights listed herein are for the Calhoun site.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--28 ft.

Historical data.--Flood of 1937 is maximum known since 1898.

Remarks.--Flow regulated by Rough River Reservoir since 1958. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown after 1957. Base for partial-duration series, 41,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	-	36.8	-	1946	Feb. 19, 1946	29.2	51,700
1931	Apr. 27, 1931	15.4	28,100	1947	Jan. 8, 1947	24.3	41,200
1932	Dec. 18, 1931	24.2	47,400	1948	Feb. 22, 1948	30.3	57,000
	Feb. 6, 1932	32.2	80,000		Apr. 1, 1948	28.1	42,200
	Apr. 5, 1932	26.5	47,400		Apr. 21, 1948	29.8	47,100
	May 3, 1932	22.2	43,100	1949	Dec. 23, 1948	28.1	45,800
1933	Jan. 30, 1933	29.4	59,100		Jan. 11, 1949	25.7	41,700
	Feb. 27, 1933	26.1	50,000		Feb. 1, 1949	30.4	52,800
	May 15, 1933	25.1	41,800		Feb. 24, 1949	32.3	71,300
1934	Dec. 21, 1933	23.2	45,000		Mar. 23, 1949	26.0	41,800
	Mar. 10, 1934	27.1	51,100		June 22, 1949	21.9	44,000
1935	Jan. 29, 1935	30.9	73,000	1950	Dec. 22, 1949	30.3	59,800
	Mar. 19, 1935	31.8	72,500		Jan. 16, 1950	36.3	86,300
	Apr. 7, 1935	32.9	73,300		Feb. 7, 1950	35.0	70,100
	June 28, 1935	29.8	61,600		Sept. 7, 1950	25.8	44,700
1936	Apr. 15, 1936	30.1	53,000	1951	Jan. 21, 1951	32.0	63,400
1937	Jan. 27, 1937	43.7	208,000		Feb. 25, 1951	31.2	54,000
	May 9, 1937	27.5	43,800		Mar. 25, 1951	28.7	42,200
1938	Mar. 18, 1938	25.1	42,800	1952	Dec. 21, 1951	31.1	57,600
	Aug. 4, 1938	21.9	44,500		Mar. 31, 1952	32.5	72,000
1939	Feb. 11, 1939	32.9	72,900	1953	Mar. 10, 1953	27.2	42,800
	Mar. 12, 1939	31.6	56,800		May 26, 1953	28.5	48,000
	Apr. 3, 1939	23.5	41,100	1954	Apr. 21, 1954	20.4	36,900
1940	Apr.25,26, 1940	29.2	49,300	1955	Feb. 12, 1955	25.1	41,500
					Mar. 8, 1955	31.0	52,800
1941	Jan. 27, 1941	14.1	23,600		Mar. 29, 1955	32.2	66,800
1942	Apr. 15, 1942	27.3	46,400	1956	Feb. 11, 1956	31.7	63,300
					Feb. 25, 1956	32.6	67,000
1943	Jan. 7, 1943	28.7	46,100		Mar. 21, 1956	29.2	43,400
	Mar. 27, 1943	32.3	67,600	1957	Feb. 8,9, 1957	30.7	54,600
1944	Mar.4-5, 1944	22.9	40,100		Apr. 13, 1957	29.8	49,300
	Apr. 17, 1944	25.6	40,100		May 28, 1957	26.6	44,600
1945	Jan. 11, 1945	28.4	51,000	1958	Nov. 27, 1957	31.1	59,600
	Mar. 8, 1945	33.6	70,900	1959	Jan. 27, 1959	28.2	42,200
1946	Jan. 15, 1946	27.0	44,200	1960	July 3, 1960	22.65	41,400
				1961	Mar. 12, 1961	30.52	52,700

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3205. East Fork Pond River near Apex, Ky.

Location.--Lat 37°07'20", long 87°19'10", on downstream side of right pier of bridge on State Highway 189, 1.1 miles downstream from Coal Creek, 2.1 miles northeast of Apex, Christian County, and 5.8 miles upstream from confluence with West Fork.

Drainage area.--194 sq mi.

Gage.--Nonrecording prior to Aug. 21, 1942; recording thereafter. Datum of gage is 390.64 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	19.6	-	1951	Jan. 4, 1951	16.45	7,260
					Jan. 15, 1951	19.40	17,500
1941	July 11, 1941	13.3	1,630		Feb. 14, 1951	14.17	3,060
					Feb. 21, 1951	14.66	3,890
1942	Apr. 10, 1942	17.2	9,240				
				1952	Nov. 25, 1951	15.56	5,560
1943	Mar. 13, 1943	14.42	3,460		Dec. 5, 1951	14.41	3,450
	Mar. 20, 1943	15.61	5,720		Dec. 9, 1951	14.22	3,140
					Dec. 22, 1951	14.30	3,270
1944	Mar. 1, 1944	14.05	2,700		Mar. 11, 1952	16.08	6,550
					Mar. 23, 1952	16.73	7,790
1945	Jan. 2, 1945	14.53	3,600				
	Jan. 9, 1945	14.17	3,060	1953	Mar. 4, 1953	16.75	7,690
	Feb. 27, 1945	14.85	4,140		May 18, 1953	16.85	7,930
	Mar. 6, 1945	14.82	4,140				
				1954	Jan. 21, 1954	-	a3,000
1946	Jan. 9, 1946	15.88	6,380		Apr. 17, 1954	14.28	3,040
	Feb. 6, 1946	15.65	5,720				
	Feb. 14, 1946	16.03	6,600	1955	Feb. 7, 1955	15.56	5,110
	Mar. 27, 1946	15.52	5,500		Feb. 22, 1955	15.02	4,160
					Mar. 1, 1955	14.47	3,310
1947	Jan. 4, 1947	14.65	3,780		Mar. 22, 1955	16.38	6,830
	Apr. 16, 1947	14.08	2,880		Apr. 24, 1955	14.38	3,180
1948	Feb. 14, 1948	14.74	3,960	1956	Jan. 30, 1956	17.17	8,730
	Mar. 17, 1948	15.65	5,720		Feb. 3, 1956	15.70	5,020
	Mar. 27, 1948	15.84	6,160		Feb. 18, 1956	15.70	5,020
	Apr. 14, 1948	14.57	3,780				
				1957	Jan. 24, 1957	14.73	3,290
1949	Nov. 20, 1948	16.89	8,580		Jan. 30, 1957	15.71	5,040
	Dec. 16, 1948	16.52	7,390		Apr. 5, 1957	16.28	6,420
	Jan. 28, 1949	14.23	3,110		May 23, 1957	17.98	11,100
	Feb. 15, 1949	18.81	14,800				
	Mar. 28, 1949	14.64	3,850	1958	Nov. 15, 1957	15.29	4,200
					Nov. 19, 1957	20.70	21,800
1950	Dec. 13, 1949	16.96	8,250		Dec. 8, 1957	14.92	3,570
	Jan. 3, 1950	15.95	6,300		Dec. 20, 1957	-	a3,000
	Jan. 11, 1950	14.96	4,430				
	Jan. 27, 1950	14.61	3,800	1959	Jan. 22, 1959	16.63	7,330
	Feb. 1, 1950	15.50	5,540				
	Feb. 14, 1950	16.34	7,050	1960	June 28, 1960	18.54	13,200
	May 8, 1950	14.25	3,150				
	Sept. 4, 1950	15.25	4,980	1961	Mar. 7, 1961	15.25	4,130
					May 9, 1961	15.41	4,420
1951	Nov. 21, 1950	14.54	3,670		June 15, 1961	15.53	4,660
	Dec. 4, 1950	14.79	4,120				

a About.

3210. Pond River near White Plains, Ky.

Location.--Lat 37°13'37", long 87°20'57", at bridge on U.S. Highway 62, 3.6 miles northeast of White Plains, Hopkins County, 5.2 miles downstream from Thompson Creek, and 7.9 miles upstream from Drakes Creek.

Drainage area.--346 sq mi. At site used prior to Oct. 1, 1938, 336 sq mi.

Gage.--Nonrecording. At Illinois Central Railroad bridge 2.3 miles upstream at datum about 2.5 ft higher prior to Oct. 1, 1938. Datum of gage is 373.53 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 4,400 cfs.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	November 1906	a16.1	-	1930	Jan. 10, 1930	16.26	7,850
1913	January 1913	a16.1	-	1931	Apr. 28, 1931	12.19	1,750
1918	January 1918	a16.1	-	1937	Jan. 31, 1937	b22.10	-
				1938	Aug. 4, 1938	14.87	5,200
1928	June 30, 1928	15.80	6,850	1939	Mar. 7, 1939	15.02	5,130
1929	Feb. 27, 1929	15.54	6,250	1940	Apr. 19, 1940	15.77	7,780

a About.
b Maximum known.

OHIO RIVER MAIN STEM

3220. Ohio River at Evansville, Ind.

Location.--Lat 37°58'20", long 87°34'35", on right bank at Riverside Drive and Court Street, at Evansville, Vanderburgh County, three-quarters of a mile upstream from Pigeon Creek and at mile 792.3.

Drainage area.--107,000 sq mi, approximately.

Gage.--Nonrecording prior to 1937; recording thereafter. Datum of gage is 329.18 ft above mean sea level, Ohio River datum. Auxiliary nonrecording gage since 1937 at lock and dam 48, at Henderson, Henderson County, Ky., 17.3 miles downstream.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Records listed herein were compiled from published reports of the Mississippi River Commission, U.S. Weather Bureau, and U.S. Geological Survey. Values of discharge prior to 1937 were obtained from a stage-discharge relation based on discharge measurements made during the period 1931-57. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1832	-	46.29	767,000	1886	Apr. 14, 1886	43.4	598,000
				1887	Feb. 9, 1887	43.2	588,000
1874	Feb. 28, 1874	39.3	443,000	1888	Apr. 4, 1888	35.2	375,000
1875	Aug. 10, 1875	41.9	526,000	1889	Nov. 13, 1888	31.6	319,000
				1890	Mar. 31, 1890	44.4	654,000
1876	Jan. 31, 1876	43.3	593,000				
1877	Jan. 25, 1877	41.7	518,000	1891	Mar. 2, 1891	42.8	568,000
1878	Mar. 17, 1878	27.8	260,000	1892	Apr. 27, 1892	38.2	423,000
1879	Apr. 1, 1879	33.0	340,000	1893	Feb. 24, 1893	41.8	522,000
1880	Feb. 21, 1880	42.1	534,000	1894	Feb. 19, 1894	31.8	322,000
				1895	Jan. 18, 1895	35.5	380,000
1881	Feb. 19, 1881	38.9	435,000				
1882	Feb. 24, 1882	44.9	684,000	1896	Apr. 8, 1896	38.0	420,000
1883	Feb. 19, 1883	48.6	914,000	1897	Mar. 3, 1897	43.6	608,000
1884	Feb. 19, 1884	48.8	927,000	1898	Apr. 3, 1898	44.8	678,000
1885	Jan. 23, 1885	37.5	412,000	1899	Mar. 12, 1899	42.8	568,000

Peak stages and discharges of Ohio River at Evansville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	Feb. 19, 1900	31.1	311,000	1931	Apr. 11, 1931	34.7	367,000
				1932	Feb. 7, 1932	43.2	588,000
1901	May 1, 1901	41.8	522,000	1933	Mar. 27, 1933	45.2	702,000
1902	Mar. 11, 1902	40.0	458,000	1934	Mar. 13, 1934	38.5	428,000
1903	Mar. 11, 1903	42.4	548,000	1935	Mar. 20, 1935	42.9	573,000
1904	Apr. 4, 1904	39.8	453,000				
1905	Mar. 17, 1905	37.4	410,000	1936	Apr. 1, 1936	44.4	654,000
				1937	Jan. 29, 1937	53.75	1,410,000
1906	Apr. 6, 1906	41.1	494,000	1938	Mar. 21, 1938	37.3	406,000
1907	Jan. 25, 1907	46.2	762,000	1939	Feb. 12, 1939	44.81	679,000
1908	Apr. 9, 1908	42.2	538,000	1940	Apr. 28, 1940	43.81	613,000
1909	Mar. 2, 1909	43.2	588,000				
1910	Mar. 10, 1910	39.7	451,000	1941	June 12, 1941	27.87	262,000
				1942	Mar. 22, 1942	38.90	433,000
1911	Feb. 9, 1911	38.8	433,000	1943	Mar. 26, 1943	45.17	699,000
1912	Mar. 31, 1912	42.6	558,000	1944	Apr. 19, 1944	40.10	462,000
1913	Apr. 5, 1913	48.4	900,000	1945	Mar. 11, 1945	48.28	906,000
1914	Apr. 8, 1914	38.0	420,000				
1915	Feb. 11, 1915	42.6	558,000	1946	Jan. 15, 1946	38.96	445,000
				1947	Jan. 26, 1947	36.12	392,000
1916	Jan. 18, 1916	43.6	608,000	1948	Apr. 21, 1948	45.60	711,000
1917	Mar. 22, 1917	42.9	573,000	1949	Jan. 31, 1949	43.10	569,000
1918	Feb. 17, 1918	39.8	453,000	1950	Feb. 9, 1950	45.84	695,000
1919	Jan. 9, 1919	40.9	486,000				
1920	Mar. 25, 1920	42.8	568,000	1951	Dec. 14, 1950	42.87	583,000
				1952	Feb. 5, 1952	43.72	618,000
1921	Mar. 15, 1921	36.4	394,000	1953	Mar. 9, 1953	34.00	356,000
1922	Dec. 30, 1921	43.1	583,000	1954	Apr. 24, 1954	26.46	243,000
1923	Feb. 8, 1923	42.2	538,000	1955	Mar. 13, 1955	44.48	655,000
1924	Jan. 11, 1924	43.5	603,000				
1925	Feb. 22, 1925	33.4	346,000	1956	Mar. 21, 1956	42.76	561,000
				1957	Apr. 14, 1957	42.24	543,000
1926	Jan. 29, 1926	38.5	428,000	1958	May 14, 1958	42.95	573,000
1927	Jan.29,30,1927	44.8	678,000	1959	Jan. 28, 1959	42.88	577,000
1928	Dec. 24, 1927	38.7	431,000	1960	Apr. 11, 1960	36.25	393,000
1929	Mar. 11, 1929	42.1	534,000				
1930	Jan. 18, 1930	39.9	455,000	1961	May 13, 1961	44.38	633,000

WABASH RIVER BASIN

3225. Wabash River near New Corydon, Ind.

Location.--Lat 40°33'50", long 84°48'10", in SE¼ sec.3, T.24 N., R.15 E., first principal meridian, on left bank 10 ft downstream from county bridge on Indiana-Ohio State line road, 2 miles east of New Corydon, 2¾ miles downstream from Beaver Creek, and at mile 465.6.

Drainage area.--258 sq mi.

Gage.--Nonrecording prior to June 23, 1953; recording thereafter. Datum of gage is 830.10 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 17, 1952	15.40	2,330	1955	Jan. 6, 1955	16.35	2,710
	Jan. 27, 1952	17.08	4,140				
	Feb. 4, 1952	16.10	3,040	1956	Nov. 17, 1955	15.88	2,290
	Mar. 11, 1952	17.59	4,690		Feb. 26, 1956	16.42	2,710
	Apr. 24, 1952	16.10	3,040				
				1957	Jan. 23, 1957	17.11	3,090
1953	Feb. 21, 1953	15.40	2,330		Feb. 27, 1957	17.29	3,270
	Mar. 4, 1953	17.30	4,360		Apr. 5, 1957	18.28	4,800
	Mar. 18, 1953	15.38	2,330		Apr. 10, 1957	16.55	2,680
	May 18, 1953	15.10	2,030		Apr. 19, 1957	16.68	2,760
	May 23, 1953	16.26	3,260		Apr. 23, 1957	17.60	3,540
					May 20, 1957	15.77	2,070
1954	Apr. 16, 1954	14.37	1,400		June 29, 1957	19.27	6,390

Peak stages and discharges of Wabash River near New Corydon, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	July 5, 1957	17.61	3,540	1959	May 23, 1959	16.47	2,700
1958	Dec. 7, 1957	16.33	2,500	1960	Feb. 10, 1960	16.45	2,600
	Dec. 19, 1957	16.71	2,900		Mar. 28, 1960	15.74	2,010
	May 4, 1958	16.12	2,310		July 14, 1960	16.25	2,400
	June 11, 1958	18.98	5,850				
	June 14, 1958	17.83	4,110	1961	Feb. 26, 1961	15.95	2,230
					Mar. 14, 1961	16.72	2,900
1959	Jan. 22, 1959	20.47	8,720		Mar. 19, 1961	15.87	2,160
	Feb. 11, 1959	18.13	4,540		Mar. 21, 1961	16.49	2,700
	Feb. 15, 1959	15.78	2,220		Apr. 16, 1961	16.02	2,230
	Apr. 28, 1959	17.45	3,640		Apr. 26, 1961	17.13	3,310

3230. Wabash River at Bluffton, Ind.

Location.--Lat 40°44', long 85°11', in sec.4, T.26 N., R.12 E., on downstream side of left abutment of Main Street Bridge in Bluffton, 2 miles downstream from Sixmile Creek and at mile 434.5.

Drainage area.--506 sq mi.

Gage.--Nonrecording prior to Dec. 6, 1934; recording thereafter. Datum of gage is 793.01 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,700 cfs and extended to 25,000 cfs on basis of rainfall-runoff relation.

Bankfull stage.--10 ft (U.S. Weather Bureau).

Historical data.--The following statement was recorded in the centennial edition of the Bluffton Evening News-Banner, dated Sept. 15, 1937. "The worst flood recorded in the history of Wells County, not only during the last 100 years, but as far back as any authentic authority supplies data, occurred during the latter part of the month of March in the year 1913."

Remarks.--Gage heights for 1911-12, 1914-23, furnished by U.S. Weather Bureau. Gage heights for 1924-30 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 20 percent. Only annual peaks are shown prior to 1924. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	March 1904	16.7	(17,000)	1927	Oct. 3, 1926	9.4	(3,510)
					Feb. 1, 1927	10.0	(3,890)
1911	Jan. 30, 1911	8.8	(3,150)		Mar. 22, 1927	14.0	(8,870)
1912	Mar. 31, 1912	12.6	(6,470)		Apr. 19, 1927	9.1	(3,330)
1913	Mar. 25, 1913	a21.0	25,000		May 21, 1927	13.5	(7,960)
1914	Apr. 10, 1914	11.0	(4,620)				
1915	Feb. 6, 1915	11.0	(4,620)	1928	Nov. 30, 1927	10.0	(3,890)
					Dec. 14, 1927	9.7	(3,690)
1916	Jan. 4, 1916	14.5	(9,820)		Apr. 1, 1928	10.1	(3,960)
1917	July 17, 1917	10.1	(3,960)				
1918	Feb. 13, 1918	12.0	(5,630)	1929	Jan. 21, 1929	9.4	(3,510)
1919	Mar. 17, 1919	14.0	(8,870)		Feb. 28, 1929	9.2	(3,390)
1920	Apr. 19, 1920	12.9	(6,940)		July 5, 1929	10.7	(4,380)
1921	Mar. 29, 1921	12.1	(5,760)	1930	Dec. 17, 1929	10.6	(4,310)
1922	Apr. 19, 1922	13.6	(8,140)		Jan. 4, 1930	11.1	(4,700)
1923	May 15, 1923	12.0	(5,630)		Jan. 14, 1930	15.2	(11,200)
1924	Mar. 31, 1924	12.0	(5,630)	1931	Apr. 4, 1931	b5.98	c1,640
	June 11, 1924	10.4	(4,170)				
				1932	Jan. 17, 1932	9.44	3,510
1925	Dec. 19, 1924	11.5	(5,070)				
	Mar. 13, 1925	11.1	(4,700)	1933	Dec. 7, 1932	10.4	4,170
					Dec. 31, 1932	10.0	3,890
1926	Nov. 13, 1925	9.1	(3,330)		Mar. 21, 1933	9.9	3,820
	Nov. 16, 1925	10.0	(3,890)		May 13, 1933	12.72	6,620
	Apr. 8, 1926	12.6	(6,470)		Sept.30, 1933	11.0	4,620
	Sept. 8, 1926	8.8	(3,150)				
	Sept.25, 1926	10.1	(3,960)	1934	Mar. 30, 1934	9.0	3,270

a About, on basis of gage readings published in newspapers.
b Highest stage recorded during discharge measurement.
c Result of discharge measurement, probable maximum for year.

Peak stages and discharges of Wabash River at Bluffton, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 5, 1935	10.00	3,890	1950	Jan. 18, 1950	11.20	4,540
					Jan. 27, 1950	12.85	6,460
1936	Feb. 26, 1936	12.83	6,780		Feb. 11, 1950	9.16	3,120
					Feb. 15, 1950	16.07	11,800
1937	Jan. 16, 1937	15.02	10,800		Mar. 30, 1950	10.99	4,370
	July 15, 1937	9.55	3,630				
				1951	Nov. 23, 1950	9.04	3,000
1938	Dec. 20, 1937	9.80	3,730		Dec. 5, 1950	12.57	6,180
	Mar. 16, 1938	11.40	4,910		Jan. 5, 1951	9.46	3,300
	Apr. 2, 1938	11.71	5,220		Feb. 23, 1951	13.33	7,200
	Apr. 10, 1938	12.51	6,410		May 11, 1951	-	e3,000
1939	Mar. 14, 1939	13.99	8,810	1952	Jan. 2, 1952	10.68	4,130
	Apr. 18, 1939	10.01	3,850		Jan. 20, 1952	11.38	4,730
					Jan. 28, 1952	12.63	6,180
1940	Mar. 2, 1940	9.58	3,430		Feb. 6, 1952	10.24	3,760
	Apr. 22, 1940	11.45	4,910		Mar. 13, 1952	13.93	8,140
					Apr. 26, 1952	10.18	3,900
1941	June 14, 1941	7.65	2,470				
				1953	Mar. 6, 1953	10.95	4,370
1942	Mar. 11, 1942	9.56	3,320				
	Apr. 12, 1942	10.94	4,210	1954	June 11, 1954	6.36	1,710
	Aug. 3, 1942	11.67	4,520				
				1955	Jan. 6, 1955	9.62	3,220
1943	Mar. 19, 1943	11.08	4,280		Mar. 1, 1955	10.12	3,580
	May 11, 1943	10.90	4,140		Mar. 4, 1955	11.17	4,170
	May 19, 1943	14.74	9,780				
				1956	Nov. 16, 1955	8.77	2,750
1944	Apr. 13, 1944	13.82	7,620				
				1957	Mar. 1, 1957	9.75	3,360
1945	Apr. 3, 1945	10.94	4,140		Apr. 6, 1957	14.00	7,620
	June 21, 1945	11.20	4,350		Apr. 18, 1957	10.07	3,580
					Apr. 25, 1957	10.45	3,820
1946	May 30, 1946	11.09	4,280		June 30, 1957	14.35	8,160
					July 7, 1957	13.01	6,420
1947	May 3, 1947	10.54	3,870				
	June 2, 1947	10.31	3,750	1958	Dec. 7, 1957	9.56	3,570
					Dec. 21, 1957	12.48	5,880
1948	Feb. 18, 1948	d10.82	e3,000		June 13, 1958	14.20	7,890
	Mar. 22, 1948	11.2	4,530				
	Mar. 27, 1948	9.90	3,550	1959	Jan. 24, 1959	13.30	6,780
	Apr. 9, 1948	9.82	3,480		Feb. 10, 1959	14.95	9,820
	Apr. 15, 1948	11.50	4,770		Apr. 29, 1959	13.85	7,980
1949	Dec. 18, 1948	9.22	3,120	1960	Feb. 11, 1960	9.48	3,510
	Jan. 8, 1949	9.88	3,550		Mar. 30, 1960	9.65	3,570
	Jan. 19, 1949	10.48	3,970				
	Jan. 29, 1949	9.8	3,480	1961	Mar. 16, 1961	10.23	3,920
	Feb. 17, 1949	10.66	4,130		Mar. 23, 1961	10.11	3,860
					Apr. 19, 1961	9.69	3,630
1950	Jan. 6, 1950	13.30	6,750		Apr. 26, 1961	13.38	7,350
	Jan. 10, 1950	11.58	4,630				

d Occurred on preceding day, result of ice jam.
e Daily mean discharge, estimated.

3235. Wabash River at Huntington, Ind.

Location.--Lat 40°51'20", long 85°29'53", in SW¼NE¼ sec.27, T.28 N., R.9 E., on right bank at the Huntington Water and Light Plant, 2 miles south of Huntington, 3¼ miles upstream from Little Wabash River, and at mile 409.

Drainage area.--710 sq mi.

Gage.--Nonrecording prior to July 5, 1951; recording thereafter. Datum of gage is 700.04 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs. Only annual peaks are shown prior to 1952.

Peak stages and discharges of Wabash River at Huntington, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a22.7	-	1957	Apr. 6, 1957	18.29	9,880
					Apr. 18, 1957	15.87	6,360
1943	May 1943	b20.9	-		July 1, 1957	17.34	8,350
					July 7, 1957	16.59	7,340
1951	Feb. 23, 1951	16.82	7,710				
				1958	Dec. 21, 1957	16.58	7,340
1952	Dec. 31, 1951	15.20	5,640		June 13, 1958	19.12	11,400
	Jan. 20, 1952	15.18	5,640		July 16, 1958	15.13	5,320
	Jan. 27, 1952	16.17	6,890				
	Mar. 13, 1952	17.42	8,570	1959	Jan. 22, 1959	16.57	5,200
	Apr. 24, 1952	15.30	5,760		Jan. 25, 1959	18.23	8,000
					Jan. 31, 1959	17.10	8,050
1953	Mar. 4, 1953	15.14	5,520		Feb. 10, 1959	c23.20	14,900
					Apr. 29, 1959	18.83	11,800
1954	Apr. 12, 1954	11.79	2,270		June 26, 1959	19.93	13,800
1955	Mar. 1, 1955	15.35	5,670	1960	Feb. 11, 1960	14.82	5,610
	Mar. 4, 1955	18.05	9,220				
				1961	Mar. 24, 1961	14.40	5,090
1956	Feb. 25, 1956	14.90	5,070		Apr. 26, 1961	17.75	10,100

a From floodmark by Corps of Engineers.
b From profile developed from floodmarks by Corps of Engineers above and below gage.
c Affected by backwater from ice.

3240. Little Wabash River near Huntington, Ind.

(Published as Little River at Huntington prior to October 1948 and as Little River near Huntington October 1948 to September 1956)

Location.--Lat 40°54'14", long 85°24'22", in NE¼NW¼ sec.9, T.28 N., R.10 E., on right bank on upstream side of highway bridge, 5 miles east of Huntington.

Drainage area.--266 sq mi; 275 sq mi prior to Oct. 1, 1948.

Gage.--Nonrecording prior to Sept. 6, 1950; recording thereafter. Prior to Oct. 1, 1948, at site 4 miles downstream and datum 8.79 ft lower. Datum of gage is 728.10 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 12, 1944	8.57	4,070	1950	Sept. 1, 1950	13.5	3,600
	Apr. 24, 1944	7.4	2,930				
				1951	Dec. 3, 1950	14.45	4,240
1945	Apr. 1, 1945	a8.90	2,930		Jan. 3, 1951	12.88	3,340
					Feb. 19, 1951	13.74	3,820
1946	Oct. 1, 1945	b6.94	2,320		Feb. 21, 1951	13.70	3,820
					June 20, 1951	12.00	2,850
1947	June 3, 1947	7.5	3,020				
	June 7, 1947	7.77	3,290	1952	Jan. 1, 1952	d12.79	-
					Jan. 17, 1952	12.28	3,000
1948	Feb. 28, 1948	8.91	4,370		Jan. 20, 1952	12.41	3,050
	Mar. 23, 1948	7.8	3,290		Jan. 27, 1952	13.71	3,820
	Mar. 28, 1948	-	c3,000		Mar. 11, 1952	14.08	4,060
	May 8, 1948	-	c3,500		Apr. 24, 1952	11.86	2,800
					May 25, 1952	14.69	4,420
1949	Jan. 19, 1949	16.66	3,340				
	Feb. 15, 1949	15.5	2,920	1953	Mar. 3, 1953	13.76	3,880
1950	Oct. 12, 1949	13.0	3,300	1954	Apr. 11, 1954	10.34	2,040
	Dec. 22, 1949	13.2	3,420				
	Jan. 4, 1950	16.9	5,990	1955	Oct. 12, 1954	12.76	3,120
	Jan. 10, 1950	14.3	4,080		Oct. 15, 1954	12.21	2,850
	Jan. 15, 1950	14.5	4,210		Mar. 4, 1955	15.68	4,640
	Jan. 26, 1950	13.5	3,600		Mar. 11, 1955	13.10	3,340
	Feb. 9, 1950	13.6	3,660		July 16, 1955	12.98	3,300
	Feb. 14, 1950	14.8	4,420				
	Mar. 28, 1950	12.2	2,900	1956	Feb. 26, 1956	14.97	3,420
	Apr. 3, 1950	12.3	2,950				

a Occurred Feb. 16, 1945, backwater from ice. b Occurred Dec. 31, 1945, backwater from ice. c Daily mean discharge, estimated. d Backwater from ice.

Peak stages and discharges of Little Wabash River near Huntington, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 5, 1957	16.27	3,940	1959	Apr. 29, 1959	16.90	4,040
					June 26, 1959	18.32	4,740
1958	June 14, 1958	15.30	3,540				
				1960	Feb. 11, 1960	13.89	2,840
1959	Feb. 11, 1959	18.43	4,710				
	Apr. 2, 1959	15.43	3,450	1961	Apr. 18, 1961	11.73	2,100

3243. Salamonie River near Warren, Ind.

Location.--Lat 40°42'45", long 85°27'13", in SW¼ sec.12, T.26 N., R.9 E., on right downstream side of county road bridge, 1,700 ft downstream from unnamed tributaries entering from the right and left, 4,000 ft upstream from abandoned concrete and stone dam, and 2.4 miles northwest of Warren.

Drainage area.--422 sq mi.

Gage.--Nonrecording prior to July 28, 1960; recording thereafter. Datum of gage is 784.75 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957 a/	Apr. 4, 1957	13.57	7,120	1959	Feb. 10, 1959	17.05	13,200
	Apr. 19, 1957	10.04	3,010		Apr. 2, 1959	10.55	3,810
	July 1, 1957	13.00	6,400		Apr. 28, 1959	13.85	7,720
	July 7, 1957	11.02	4,110				
				1960	Jan. 29, 1960	10.08	3,120
1958	Dec. 8, 1957	11.10	4,260		Feb. 11, 1960	-	-
	Dec. 20, 1957	12.32	5,690		Mar. 29, 1960	10.56	3,650
	June 11, 1958	16.13	11,300				
	June 21, 1958	9.95	3,050	1961	Mar. 14, 1961	10.27	3,750
	July 16, 1958	10.76	3,930		Mar. 21, 1961	10.27	3,750
					Apr. 18, 1961	10.60	4,080
1959	Nov. 17, 1958	10.37	3,490		Apr. 24, 1961	13.50	7,280
	Jan. 24, 1959	13.20	6,880		May 9, 1961	10.42	3,860
	Jan. 31, 1959	11.65	4,820				

a For period March to September.

3245. Salamonie River at Dora, Ind.

Location.--Lat 40°48'27", long 85°40'47", in SE¼NE¼ sec.12, T.27 N., R.7 E., on left bank in Salamonie River State Forest, 3 miles upstream from mouth.

Drainage area.--553 sq mi; 549 sq mi prior to Oct. 1, 1951.

Gage.--Nonrecording prior to Oct. 1, 1951; recording thereafter. Prior to Oct. 1, 1951, at site 1.3 miles upstream and datum 688.59 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Altitude of present gage is 680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs at former site; defined by current-meter measurements at present site.

Historical data.--Flood of March 1913 reached a stage of 19.5 ft at former site, from information by Corps of Engineers.

Remarks.--Gage heights for 1924-30 furnished by Indiana Department of Conservation. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges of Salamonie River at Dora, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Dec. 5, 1923	8.8	5,860
	Dec. 14, 1923	8.2	5,140
	Dec. 23, 1923	7.8	4,680
	Jan. 11, 1924	8.5	5,500
	Feb. 5, 1924	7.8	4,680
	Mar. 6, 1924	7.5	4,350
	Mar. 29, 1924	11.2	9,320
	June 8, 1924	9.9	7,360
1925	Dec. 19, 1924	11.7	10,100
	Mar. 14, 1925	12.2	10,900
1926	Nov. 14, 1925	9.2	6,380
	Feb. 25, 1926	8.6	5,620
	Apr. 9, 1926	11.1	9,160
	Sept. 6, 1926	10.0	7,500
	Sept.26, 1926	9.6	6,940
1927	Oct. 2, 1926	8.0	4,900
	Jan. 31, 1927	10.0	7,500
	Feb. 5, 1927	8.4	5,380
	Mar. 22, 1927	11.5	9,800
	Apr. 2, 1927	8.5	5,500
	May 1, 1927	7.3	4,130
	May 21, 1927	12.6	11,600
	June 6, 1927	8.6	5,620
1928	Dec. 2, 1927	9.7	6,730
	Dec. 13, 1927	9.6	6,610
	Feb. 6, 1928	9.5	6,490
	Feb. 15, 1928	8.0	4,690
	Mar. 31, 1928	8.5	5,290
1929	Jan. 19, 1929	9.4	6,370
	Feb. 26, 1929	8.5	5,290
	Apr. 1, 1929	9.8	6,850
	May 14, 1929	9.3	6,250
	May 19, 1929	9.0	5,890
	July 5, 1929	9.5	6,490
1930	Dec. 18, 1929	8.8	5,650
	Jan. 2, 1930	10.1	7,220
	Jan. 15, 1930	13.2	12,700
1931	Apr. 4, 1931	6.7	3,250
1932	Jan. 17, 1932	9.2	6,130
1933	Dec. 8, 1932	8.8	5,650
	Dec. 24, 1932	8.9	5,770
	Jan. 1, 1933	9.3	6,250
	Mar. 20, 1933	11.6	9,510
	Apr. 17, 1933	8.1	4,810
	May 14, 1933	11.7	9,700
	Sept.28, 1933	8.0	4,690
1934	Mar. 30, 1934	6.81	3,350
1935	May 2, 1935	9.2	6,040
1936	Feb. 27, 1936	12.7	11,700
	Mar. 24, 1936	7.7	4,340
1937	Jan. 17, 1937	11.50	9,020
	Apr. 6, 1937	8.8	5,520
	July 15, 1937	9.1	5,910
1938	Feb. 19, 1938	7.9	4,440
	Mar. 16, 1938	10.2	7,360
	Mar. 31, 1938	11.9	10,100
	Apr. 8, 1938	11.2	8,830
	June 26, 1938	8.9	5,650
1939	Feb. 20, 1939	9.0	5,780
	Mar. 12, 1939	12.3	10,900
	Apr. 17, 1939	10.1	7,220
1940	Mar. 3, 1940	8.8	5,520
	Apr. 22, 1940	8.2	4,800
1941	June 13, 1941	6.38	2,730
1942	Feb. 7, 1942	7.9	4,330
1942	Mar. 11, 1942	8.1	4,570
	Apr. 10, 1942	8.45	4,930
	Aug. 1, 1942	9.09	4,930
1943	May 11, 1943	11.2	8,760
	May 18, 1943	14.75	16,500
	Aug. 4, 1943	9.8	6,500
1944	Apr. 11, 1944	12.5	11,300
1945	Apr. 2, 1945	8.73	5,420
	May 17, 1945	8.2	4,820
1946	Dec. 30, 1945	7.6	4,180
	May 30, 1946	7.66	4,240
1947	Jan. 30, 1947	7.8	4,400
	Apr. 30, 1947	8.1	4,700
	June 2, 1947	11.73	9,700
	June 8, 1947	9.3	6,170
1948	Feb. 28, 1948	7.7	4,220
	Mar. 22, 1948	9.73	6,690
	Mar. 27, 1948	8.5	5,180
	Apr. 8, 1948	8.9	5,660
	Apr. 14, 1948	9.2	6,040
	May 8, 1948	8.5	5,180
1949	Jan. 5, 1949	8.4	5,040
	Jan. 18, 1949	10.53	7,780
	Jan. 28, 1949	9.8	6,820
	Feb. 15, 1949	9.9	6,950
1950	Dec. 22, 1949	8.2	4,800
	Jan. 4, 1950	12.40	11,100
	Jan. 10, 1950	10.4	7,640
	Jan. 16, 1950	10.2	7,360
	Jan. 26, 1950	10.3	7,500
	Feb. 14, 1950	11.2	8,830
	Mar. 28, 1950	8.7	5,400
	Apr. 4, 1950	9.6	6,560
	Sept. 1, 1950	7.9	4,440
1951	Nov. 21, 1950	8.3	4,920
	Dec. 3, 1950	9.93	6,950
	Jan. 3, 1951	9.56	6,560
	Feb. 19, 1951	9.21	6,040
	Feb. 22, 1951	9.33	6,170
	May 11, 1951	8.3	4,920
1952	Jan. 1, 1952	7.04	6,150
	Jan. 19, 1952	5.93	4,210
	Jan. 26, 1952	7.40	6,260
	Feb. 4, 1952	6.00	4,300
	Mar. 11, 1952	7.88	6,960
	Apr. 23, 1952	7.17	5,980
	May 24, 1952	6.57	5,390
1953	Mar. 5, 1953	6.59	5,390
1954	Apr. 12, 1954	5.08	2,820
1955	Jan. 7, 1955	6.63	5,390
	Mar. 1, 1955	6.70	5,580
	Mar. 4, 1955	7.54	6,400
1956	Feb. 25, 1956	7.43	6,260
	July 20, 1956	6.84	5,200
1957	Apr. 5, 1957	9.04	8,500
	Apr. 18, 1957	6.96	6,150
	June 16, 1957	6.22	4,660
	July 1, 1957	7.88	6,960
	July 5, 1957	6.43	5,020
1958	Dec. 8, 1957	6.48	4,95[illegible]
	Dec. 20, 1957	7.71	6,68[illegible]
	June 11, 1958	11.90	12,60[illegible]
	July 16, 1958	8.57	7,94[illegible]
1959	Jan. 25, 1959	6.94	5,55
	Jan. 30, 1959	6.47	4,9[illegible]
	Feb. 10, 1959	14.08	15,6[illegible]

Peak stages and discharges of Salamonie River at Dora, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 14, 1959	6.30	4,650	1961	Mar. 14, 1961	6.08	4,350
	Apr. 2, 1959	8.39	7,660		Mar. 21, 1961	6.14	4,350
	Apr. 28, 1959	11.20	11,600		Apr. 18, 1961	6.48	4,950
					Apr. 24, 1961	8.29	7,520
1960	Feb. 11, 1960	6.42	4,800		May 10, 1961	6.06	4,350
	Mar. 29, 1960	6.44	5,250		July 14, 1961	6.20	4,500

3250. Wabash River at Wabash, Ind.

Location.--Lat 40°47'25", long 85°49'13", in sec.14, T.27 N., R.6 E., on right bank on upstream side of Wabash Street Bridge in Wabash, 7 miles downstream from Salamonie River, and at mile 387.2.

Drainage area.--1,733 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1954; recording thereafter. Datum of gage is 642.66 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 49,000 cfs and extended to 90,000 cfs by logarithmic plotting.

Bankfull stage.--12 ft (U.S. Weather Bureau).

Historical data.--Flood of February 1883 was higher than any previously known. Flood of March 1904 was the highest since that of 1883. The maximum stage known is that of Mar. 26, 1913.

Remarks.--Gage heights for 1924-30 furnished by Indiana Department of Conservation. Base for partial-duration series, 11,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a28.7	b90,000	1930	Jan. 15, 1930	22.8	38,400
1924	Dec. 6, 1923	15.6	13,400	1931	Apr. 4, 1931	11.2	7,730
	Dec. 13, 1923	16.4	14,700				
	Dec. 23, 1923	14.5	11,800	1932	Jan. 17, 1932	17.6	16,800
	Mar. 29, 1924	21.2	28,500				
	June 9, 1924	18.7	19,200	1933	Dec. 8, 1932	17.6	16,300
					Dec. 24, 1932	17.4	15,900
1925	Dec. 19, 1924	20.6	25,700		Dec. 31, 1932	16.6	14,300
	Feb. 24, 1925	13.9	11,000		Mar. 20, 1933	20.0	23,300
	Mar. 14, 1925	22.0	33,000		May 14, 1933	19.0	20,000
	Mar. 19, 1925	16.1	14,200				
				1934	Mar. 29, 1934	10.6	6,770
1926	Nov. 16, 1925	14.8	12,200				
	Feb. 25, 1926	16.3	14,500	1935	May 3, 1935	16.6	15,000
	Apr. 8, 1926	20.6	25,700				
	Sept. 6, 1926	16.8	15,300	1936	Feb. 27, 1936	22.4	35,600
	Sept.26, 1926	17.2	16,000				
				1937	Jan. 9, 1937	17.0	15,000
1927	Oct. 4, 1926	17.7	17,000		Jan. 16, 1937	21.3	29,000
	Jan. 30, 1927	20.0	23,300		Apr. 6, 1937	15.2	12,000
	Feb. 6, 1927	15.8	13,700				
	Mar. 20, 1927	20.3	24,500	1938	Feb. 19, 1938	14.6	12,300
	Apr. 19, 1927	14.2	11,400		Mar. 16, 1938	17.9	17,000
	May 19, 1927	18.4	18,400		Apr. 1, 1938	19.8	22,600
	May 25, 1927	14.7	12,100		Apr. 9, 1938	20.8	26,500
					June 27, 1938	17.4	15,900
1928	Dec. 1, 1927	19.8	22,600				
	Dec. 14, 1927	17.7	17,000	1939	Feb. 20, 1939	15.8	14,900
	Feb. 15, 1928	15.4	13,100		Mar. 13, 1939	21.1	28,000
					Apr. 17, 1939	17.8	16,800
1929	Jan. 19, 1929	18.0	17,200				
	Jan. 23, 1929	14.8	12,200	1940	Mar. 4, 1940	18.1	17,500
	Feb. 27, 1929	14.0	11,100				
	Apr. 1, 1929	16.8	15,300	1941	June 14, 1941	11.81	7,660
	May 15, 1929	16.8	15,300				
	May 29, 1929	14.6	11,900	1942	Feb. 7, 1942	15.7	12,700
					Apr. 11, 1942	15.97	13,200
1930	Dec. 17, 1929	14.0	11,100				
	Jan. 2, 1930	19.9	23,000	1943	Dec. 28, 1942	16.4	13,900
	Jan. 8, 1930	18.1	17,800		May 12, 1943	20.5	25,300

a From floodmark, by Corps of Engineers.
b Annual peak only.

Peak stages and discharges of Wabash River at Wabash, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 18, 1943	24.22	49,600	1951	Feb. 21, 1951	18.21	17,700
	Aug. 4, 1943	17.8	16,800		May 12, 1951	15.2	11,900
1944	Apr. 12, 1944	20.54	25,300	1952	Dec. 31, 1951	18.70	19,100
	Apr. 23, 1944	17.2	15,400		Jan. 20, 1952	16.90	14,800
					Jan. 27, 1952	18.90	19,700
1945	Mar. 7, 1945	14.6	11,000		Feb. 4, 1952	16.50	14,100
	Apr. 1, 1945	17.48	16,100		Mar. 12, 1952	19.15	20,600
	May 17, 1945	16.2	13,500		Apr. 24, 1952	17.46	16,100
					May 25, 1952	18.10	17,500
1946	Oct. 2, 1945	15.30	12,000				
	Feb. 14, 1946	14.8	11,300	1953	Mar. 5, 1953	17.53	16,100
1947	Jan. 31, 1947	14.9	11,400	1954	Apr. 12, 1954	11.44	6,900
	Apr. 30, 1947	15.8	12,800				
	June 3, 1947	19.60	21,900	1955	Jan. 7, 1955	16.05	12,800
	June 8, 1947	18.0	17,200		Mar. 2, 1955	16.3	13,700
					Mar. 4, 1955	20.27	24,500
1948	Feb. 28, 1948	15.9	12,800				
	Mar. 22, 1948	18.71	19,100	1956	Feb. 25, 1956	18.58	18,800
	Mar. 27, 1948	17.5	16,100				
	Apr. 14, 1948	16.4	13,900	1957	Apr. 6, 1957	21.38	29,500
	May 8, 1948	15.3	12,000		Apr. 19, 1957	17.53	17,100
					July 2, 1957	17.39	16,900
1949	Jan. 5, 1949	17.1	15,200		July 8, 1957	15.22	12,700
	Jan. 19, 1949	20.15	24,100				
	Jan. 28, 1949	17.7	16,500	1958	Dec. 8, 1957	15.79	12,600
	Feb. 15, 1949	18.4	18,300		Dec. 20, 1957	18.43	17,800
					June 13, 1958	22.46	36,300
1950	Dec. 22, 1949	14.8	11,300		July 16, 1958	17.36	15,800
	Jan. 4, 1950	23.00	39,800				
	Jan. 11, 1950	20.3	24,500	1959	Jan. 23, 1959	-	c14,500
	Jan. 14, 1950	18.4	18,300		Jan. 31, 1959	15.75	12,500
	Jan. 16, 1950	19.2	20,600		Feb. 11, 1959	24.44	45,300
	Jan. 26, 1950	19.5	21,600		Apr. 2, 1959	17.54	16,000
	Feb. 15, 1950	21.4	29,500		Apr. 28, 1959	21.92	32,400
	Mar. 28, 1950	16.8	14,600		June 26, 1959	18.87	18,800
	Apr. 5, 1950	18.7	19,100				
	Apr. 11, 1950	15.0	11,600	1960	Feb. 11, 1960	16.85	14,600
	Sept. 2, 1950	15.0	11,600		Mar. 29, 1960	15.66	12,400
1951	Nov. 21, 1950	15.67	12,700	1961	Mar. 14, 1961	14.40	11,100
	Dec. 4, 1950	19.55	21,900		Mar. 23, 1961	14.72	11,500
	Jan. 4, 1951	16.21	13,500		Apr. 19, 1961	16.22	13,800
	Feb. 19, 1951	16.83	14,600		Apr. 26, 1961	19.45	20,200

c Daily mean discharge, estimated.

3255. Mississinewa River near Ridgeville, Ind.

Location.--Lat 40°17', long 85°00', in SW¼ sec.8, T.19 N., R.14 E., on right bank 10 ft downstream from highway bridge, 0.8 mile downstream from Mud Creek, and 2 miles east of Ridgeville.

Drainage area.--130 sq mi.

Gage.--Nonrecording prior to Oct. 4, 1950; recording thereafter. Datum of gage is 965.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs and extended on basis of contracted-opening measurement at 13,900 cfs.

Bankfull stage.--10 ft.

Historical data.--Local residents stated that the 1913 flood was secondary to a flood in the early 1930's when the river reached an estimated stage of 15.0 ft.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 30, 1947	11.16	2,490	1948	Feb. 14, 1948	a12.1	-
	May 2, 1947	11.1	2,420		Feb. 28, 1948	11.4	2,650
	June 8, 1947	10.9	2,280		Mar. 24, 1948	11.7	2,930
					Mar. 27, 1948	12.0	3,250
1948	Jan. 1, 1948	12.2	3,480		Apr. 6, 1948	12.0	3,250

a Backwater from ice.

Peak stages and discharges of Mississinewa River near Ridgeville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 11, 1948	11.4	2,650	1956	Apr. 4, 1956	10.85	2,210
1949	Dec. 16, 1948	11.8	3,030	1957	Jan. 22, 1957	12.45	3,770
	Jan. 5, 1949	13.1	4,560		Feb. 26, 1957	11.43	2,680
	Jan. 19, 1949	11.3	2,570		Apr. 4, 1957	12.84	4,380
	Jan. 27, 1949	11.6	2,830		Apr. 9, 1957	10.92	2,280
	Feb. 15, 1949	12.0	3,250		Apr. 18, 1957	10.92	2,280
	Mar. 26, 1949	11.7	2,930		May 20, 1957	11.48	2,770
					June 28, 1957	14.57	8,830
1950	Jan. 4, 1950	12.9	4,320		July 4, 1957	12.80	4,380
	Jan. 10, 1950	11.4	2,650				
	Jan. 15, 1950	11.2	2,490	1958	Dec. 19, 1957	11.30	2,590
	Jan. 26, 1950	11.5	2,740		May 4, 1958	11.98	3,290
	Feb. 14, 1950	13.4	4,920		June 10, 1958	16.25	13,900
	Mar. 27, 1950	11.2	2,490		June 13, 1958	14.15	7,680
					June 18, 1958	11.47	2,770
1951	Nov. 20. 1950	11.59	2,830		June 25, 1958	11.43	2,680
	Dec. 3, 1950	12.34	3,600		Aug. 15, 1958	11.43	2,680
	Feb. 21, 1951	12.75	4,200				
				1959	Jan. 21, 1959	14.70	9,120
1952	Jan. 26, 1952	11.99	3,250		Feb. 10, 1959	-	b3,800
	Mar. 11, 1952	11.95	3,250		Apr. 28, 1959	11.35	2,680
1953	Mar. 4, 1953	12.00	3,250	1960	Feb. 10, 1960	10.89	2,280
	May 17, 1953	10.84	2,210				
				1961	Mar. 4, 1961	11.00	2,350
1954	Mar. 30, 1954	7.80	1,020		Mar. 13, 1961	11.11	2,420
					Mar. 21, 1961	10.96	2,350
1955	Jan. 6, 1955	11.16	2,490		Apr. 22, 1961	11.40	2,770
					Apr. 25, 1961	11.70	3,070
1956	Nov. 16, 1955	12.79	4,200		Aug. 1, 1961	11.44	2,680
	Feb. 25, 1956	11.35	2,650		Sept. 1, 1961	10.88	2,280

b Daily mean discharge, estimated.

3260. Mississinewa River near Eaton, Ind.

Location.--Lat 40°20', long 85°19', in NE¼ sec.31, T.22 N., R.11 E., on right bank at downstream side of bridge, 1½ miles upstream from Estey Creek and 2½ miles southeast of Eaton.

Drainage area.--304 sq mi.

Gage.--Nonrecording prior to Sept. 24, 1954; recording thereafter. Datum of gage is 880.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,600 cfs and extended on basis of contracted-opening measurement at 19,500 cfs.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 3,000 cfs. Only annual peak shown for 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Mar. 11, 1952	13.33	7,330	1957	July 5, 1957	12.34	5,740
1953	Mar. 5, 1953	11.40	5,240	1958	Dec. 8, 1957	9.13	3,120
	May 18, 1953	10.42	4,200		Dec. 19, 1957	11.91	5,380
	May 23, 1953	9.50	3,350		May 5, 1958	9.94	3,760
					June 10, 1958	18.53	19,400
1954	Apr. 17, 1954	7.42	1,660		June 14, 1958	17.43	14,800
					June 19, 1958	9.70	3,600
1955	Jan. 7, 1955	10.60	4,400				
				1959	Jan. 22, 1959	16.8	12,800
1956	Nov. 17, 1955	11.92	5,790		Feb. 11, 1959	13.36	6,830
	Feb. 26, 1956	9.65	3,440		Apr. 28, 1959	11.47	5,040
	Apr. 4, 1956	11.45	5,240				
	June 19, 1956	11.54	5,350	1960	Feb. 7, 1960	9.41	3,360
					Feb. 11, 1960	10.29	4,080
1957	Jan. 23, 1957	11.73	5,200		Mar. 29, 1960	8.95	3,040
	Feb. 27, 1957	10.27	4,080				
	Apr. 5, 1957	13.44	6,880	1961	Mar. 6, 1961	9.16	3,030
	Apr. 9, 1957	9.98	3,840		Mar. 14, 1961	11.28	4,850
	Apr. 19, 1957	9.11	3,120		Mar. 22, 1961	9.39	3,200
	Apr. 23, 1957	9.26	3,280		Apr. 23, 1961	9.85	3,620
	May 21, 1957	9.84	3,680		Apr. 26, 1961	11.11	4,680
	May 23, 1957	9.23	3,200		Aug. 2, 1961	10.17	3,880
	June 29, 1957	17.60	14,800				

3265. Mississinewa River at Marion, Ind.

Location.--Lat 40°34', long 85°40', in sec.31, T.25 N., R.8 E., on left bank 12 ft downstream from Highland Avenue Bridge in Marion, 1 mile upstream from Hummels Creek, and 4 miles downstream from Lugar Creek.

Drainage area.--677 sq mi.

Gage.--Nonrecording prior to Dec. 9, 1933; recording thereafter. Datum of gage is 774.56 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs.

Bankfull stage.--13 ft (U.S. Weather Bureau).

Remarks.--Records for 1924-30 furnished by Indiana Department of Conservation. Base for partial-duration series, 5,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a19.2	-	1935	May 4, 1935	8.38	7,600
1924	Dec. 5, 1923	7.8	6,370	1936	Feb. 26, 1936	11.25	12,500
	Dec. 13, 1923	8.9	8,490				
	Jan. 12, 1924	9.0	8,680	1937	Jan. 15, 1937	14.64	18,700
	Jan. 30, 1924	7.5	5,870		Jan. 22, 1937	7.55	7,520
	Mar. 26, 1924	7.8	6,370		Feb. 10, 1937	6.50	5,870
	Mar. 29, 1924	12.8	14,700		Apr. 6, 1937	6.90	6,470
	June 9, 1924	13.5	16,100				
				1938	Dec. 19, 1937	b7.5	7,370
1925	Dec. 19, 1924	13.6	16,200		Mar. 16, 1938	8.53	8,870
	Mar. 14, 1925	12.8	14,700		Mar. 31, 1938	12.88	15,800
					Apr. 8, 1938	11.50	13,600
1926	Nov. 8, 1925	7.5	5,870		June 27, 1938	10.40	11,400
	Nov. 14, 1925	10.0	10,600				
	Apr. 8, 1926	13.7	16,500	1939	Feb. 20, 1939	7.02	5,850
	Sept. 5, 1926	10.5	11,600		Mar. 12, 1939	13.47	16,800
	Sept.25, 1926	9.6	9,860		Apr. 17, 1939	10.68	11,900
1927	Jan. 30, 1927	11.2	11,800	1940	Mar. 3, 1940	7.60	6,780
	Feb. 5, 1927	9.0	8,200		Apr. 21, 1940	8.31	7,900
	Mar. 21, 1927	17.4	25,000				
	Apr. 2, 1927	8.4	7,510	1941	June 13, 1941	4.70	2,600
	Apr. 19, 1927	7.5	5,870				
	May 19, 1927	16.8	23,500	1942	Mar. 10, 1942	c7.42	6,170
	May 25, 1927	7.4	5,720		Mar. 18, 1942	7.60	6,490
	June 4, 1927	8.4	7,510		Apr. 10, 1942	8.05	7,130
1928	Dec. 1, 1927	9.4	9,470	1943	Mar. 18, 1943	8.66	7,880
	Dec. 14, 1927	9.5	9,660		May 11, 1943	11.30	12,000
	Feb. 15, 1928	8.1	6,920		May 18, 1943	15.13	20,900
	Mar. 30, 1928	10.8	11,100				
				1944	Mar. 7, 1944	7.66	6,480
1929	Jan. 19, 1929	10.6	10,800		Apr. 12, 1944	12.12	13,500
	Feb. 27, 1929	9.0	8,200		Apr. 23, 1944	7.26	5,930
	May 14, 1929	9.1	8,360				
	July 2, 1929	7.4	5,720	1945	Mar. 31, 1945	8.19	7,180
					June 19, 1945	9.94	9,760
1930	Nov. 2, 1929	8.4	7,510				
	Dec. 14, 1929	8.8	7,880	1946	Dec. 30, 1945	c7.90	6,760
	Dec. 18, 1929	10.0	9,800				
	Jan. 2, 1930	11.4	12,100	1947	Jan. 30, 1947	7.39	6,060
	Jan. 10, 1930	12.4	14,000		May 1, 1947	7.82	6,620
	Jan. 14, 1930	15.0	19,200		June 2, 1947	9.46	9,120
	Feb. 26, 1930	10.1	9,960				
				1948	Jan. 3, 1948	9.35	8,970
1931	Apr. 4, 1931	5.4	3,370		Mar. 21, 1948	8.81	8,070
					Mar. 25, 1948	8.77	8,070
1932	Jan. 17, 1932	9.29	9,120		Mar. 27, 1948	10.00	9,920
					Apr. 8, 1948	10.69	11,000
1933	Dec. 7, 1932	9.0	8,610		Apr. 13, 1948	9.95	9,920
	Dec. 25, 1932	8.2	7,260				
	Dec. 31, 1932	10.1	10,500	1949	Dec. 17, 1948	7.46	6,200
	Mar. 20, 1933	15.5	20,400		Jan. 6, 1949	8.65	7,920
	Apr. 18, 1933	8.0	6,940		Jan. 19, 1949	10.14	10,000
	May 12, 1933	15.59	20,600		Jan. 28, 1949	8.35	7,470
	Sept.27, 1933	8.3	7,420		Feb. 15, 1949	9.01	8,370
1934	Mar. 28, 1934	5.71	3,880	1950	Jan. 4, 1950	13.15	15,200

a Determined by Indiana Flood Control and Water Resources Commission; annual peak only.
b Estimated.
c Regulated.

Peak stages and discharges of Mississinewa River at Marion, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 10, 1950	10.25	10,200	1957	Jan. 24, 1957	7.63	5,620
	Jan. 14, 1950	7.70	6,480		Apr. 5, 1957	11.89	11,900
	Jan. 16, 1950	9.17	8,670		Apr. 10, 1957	8.58	7,400
	Jan. 26, 1950	10.24	10,200		June 30, 1957	14.70	19,700
	Feb. 15, 1950	12.98	14,800		July 6, 1957	8.63	6,880
	Mar. 29, 1950	8.43	7,470				
	Apr. 4, 1950	7.43	6,060	1958	Dec. 7, 1957	7.85	6,040
					Dec. 20, 1957	10.62	9,960
1951	Nov. 21, 1950	7.40	6,060		June 11, 1958	16.88	24,300
	Dec. 4, 1950	9.95	9,870		June 15, 1958	14.47	17,500
	Feb. 22, 1951	10.23	10,200				
				1959	Jan. 23, 1959	12.40	13,100
1952	Jan. 27, 1952	9.68	9,420		Feb. 10, 1959	12.73	14,500
	Feb. 4, 1952	7.09	5,670		Apr. 2, 1959	7.31	6,120
	Mar. 11, 1952	10.91	11,200		Apr. 28, 1959	10.98	11,600
1953	Mar. 4, 1953	8.68	7,920	1960	Feb. 10, 1960	7.46	6,400
	May 24, 1953	7.70	6,480		July 13, 1960	7.60	6,540
1954	Feb. 28, 1954	4.50	2,690	1961	Mar. 14, 1961	7.88	6,960
					Apr. 18, 1961	7.58	6,540
1955	Jan. 6, 1955	8.65	7,770		Apr. 22, 1961	8.99	8,510
	July 15, 1955	7.20	5,800		Apr. 25, 1961	9.35	9,110
					May 9, 1961	6.93	5,600
1956	Nov. 18, 1955	7.52	6,200				

3270. Mississinewa River at Peoria, Ind.

Location.--Lat 40°43', long 85°57', in sec.10, T.26 N., R.5 E., on right upstream abutment of highway bridge at Peoria, 6 miles upstream from mouth and 6½ miles southeast of Peru.

Drainage area.--809 sq mi.

Gage.--Nonrecording prior to Oct. 7, 1954; recording thereafter. Datum of gage is 660.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 1943	a17.4	-	1958	Dec. 20, 1957	13.25	10,800
					June 11, 1958	19.26	28,000
1953	Mar. 4, 1953	11.79	8,350		June 15, 1958	16.48	19,000
	May 25, 1953	10.14	6,220		July 16, 1958	11.82	8,350
1954	Apr. 18, 1954	6.08	2,200	1959	Jan. 23, 1959	-	b14,400
					Feb. 10, 1959	17.17	21,000
1955	Jan. 6, 1955	11.70	8,220		Apr. 2, 1959	10.90	8,160
	Mar. 1, 1955	10.74	6,980		Apr. 29, 1959	13.54	12,500
	July 15, 1955	11.15	7,600				
				1960	Feb. 11, 1960	10.15	7,180
1956	Nov. 18, 1955	10.06	6,220		Mar. 29, 1960	9.61	6,380
	June 20, 1956	9.96	6,100		July 14, 1960	9.85	6,640
1957	Apr. 6, 1957	14.35	13,200	1961	Mar. 14, 1961	10.55	7,300
	Apr. 10, 1957	11.30	7,670		Apr. 19, 1961	10.28	6,930
	June 30, 1957	16.62	19,300		Apr. 23, 1961	11.94	9,120
	July 7, 1957	10.99	7,280		Apr. 26, 1961	12.04	9,260
1958	Dec. 8, 1957	10.42	6,510				

a From profile developed from floodmarks by Corps of Engineers; annual peak only.
b About.

3275. Wabash River at Peru, Ind.

Location.--Lat 40°44'35", long 86°05'45", in sec.32, T.27 N., R.4 E., near center of span on upstream side of bridge on U.S. Highway 31, half a mile southwest of Peru, 4.3 miles downstream from Mississinewa River, and at mile 370.5.

Drainage area.--2,655 sq mi.

Gage.--Nonrecording. Datum of gage is 617.94 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

State-discharge relation.--Defined by current-meter measurements below 63,000 cfs.

Bankfull stage.--20 ft (U.S. Weather Bureau).

Historical data.--Flood of Mar. 26, 1913, is the maximum known. In the spring of 1883, Peru experienced its worst flood known to this time, according to statement in Peru Republican dated Apr. 4, 1913.

Remarks.--Base for partial-duration series, 18,000 cfs. Only annual peaks are shown prior to 1944.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a28.1	115,000	1951	Feb. 22, 1951	16.8	25,800
1943	May 18, 1943	b24.46	66,000	1952	Jan. 1, 1952	15.30	22,100
					Jan. 28, 1952	17.05	26,400
1944	Apr. 13, 1944	19.90	37,700		Feb. 5, 1952	14.58	20,400
	Apr. 24, 1944	16.0	24,500		Mar. 13, 1952	18.02	29,300
					Apr. 24, 1952	14.87	21,100
1945	Apr. 2, 1945	15.20	22,200		May 25, 1952	14.60	20,400
	May 17, 1945	15.0	21,600				
				1953	Mar. 5, 1953	15.70	23,100
1946	Oct. 2, 1945	13.53	17,600				
				1954	Apr. 12, 1954	9.60	8,520
1947	Jan. 31, 1947	-	c18,000				
	May 1, 1947	14.4	20,000	1955	Jan. 7, 1955	14.7	19,200
	June 3, 1947	16.48	26,000		Mar. 2, 1955	14.5	18,800
	June 8, 1947	14.5	20,200		Mar. 5, 1955	15.15	20,500
1948	Jan. 3, 1948	14.4	20,000	1956	Feb. 26, 1956	14.60	20,500
	Feb. 28, 1948	13.8	18,400				
	Mar. 22, 1948	15.85	23,900	1957	Apr. 6, 1957	20.00	38,100
	Mar. 27, 1948	15.6	23,400		Apr. 19, 1957	14.80	21,100
	Apr. 9, 1948	14.6	20,500		July 1, 1957	17.37	28,900
	Apr. 14, 1948	15.7	23,600				
				1958	Dec. 9, 1957	13.68	18,100
1949	Jan. 6, 1949	15.3	22,500		Dec. 21, 1957	17.04	27,600
	Jan. 20, 1949	18.16	29,900		June 12, 1958	22.65	53,100
	Jan. 28, 1949	15.9	23,600		July 16, 1958	15.22	22,200
	Feb. 16, 1949	16.5	25,100				
				1959	Jan. 23, 1959	18.30	31,900
1950	Jan. 5, 1950	22.39	45,000		Jan. 31, 1959	15.33	22,500
	Jan. 11, 1950	19.1	32,600		Feb. 11, 1959	d22.60	48,000
	Jan. 16, 1950	17.5	27,800		Apr. 2, 1959	14.85	21,100
	Jan. 27, 1950	18.2	29,900		Apr. 29, 1959	20.78	41,800
	Feb. 15, 1950	21.2	39,600				
	Mar. 29, 1950	15.4	22,400	1960	Feb. 11, 1960	14.67	20,800
	Apr. 5, 1950	15.9	23,600		Mar. 30, 1960	13.80	18,400
1951	Nov. 21, 1950	14.1	19,100	1961	Apr. 19, 1961	14.20	19,400
	Dec. 5, 1950	17.5	27,800		Apr. 26, 1961	16.70	26,700
	Jan. 4, 1951	13.8	18,400				

a From profile developed from floodmarks above and below gage.
b From floodmark.
c Daily mean discharge, estimated.
d Affected by backwater from ice.

3280. Eel River at North Manchester, Ind.

Location.--Lat 40°59', long 85°46', in NE¼ sec.5, T.29 N., R.7 E., on right bank 200 ft downstream from Main Street Bridge at North Manchester and 1¼ miles upstream from Pony Creek.

Drainage area.--416 sq mi, including that of Pony Creek.

Gage.--Nonrecording prior to July 23, 1953; recording thereafter. Datum of gage is 738.00 ft above mean sea level, datum of 1929. At site 700 ft upstream at same datum prior to July 23, 1953.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs.

Bankfull stage.--7 ft.

Historical data.--The following information on the relative heights of several outstanding floods at Roann, Ind., about 13 miles downstream, was furnished by Roann Roller Mills and is considered reliable:

Water year	Date	Stage (feet)
1883	February 1883	15.2
1913	March 1913	15.5
1935	Aug. 17, 1935	11.5
1936	Feb. 27, 1936	a15.8
1937	Nov. 3, 1936	14.3

a An alltime record.

Remarks.--Gage-heights for 1924-30 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 2,200 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Mar. 29, 1924	9.5	(3,590)	1940	Mar. 3, 1940	8.8	3,100
1925	Mar. 14, 1925	11.6	(5,480)				
				1941	June 14, 1941	4.88	1,000
1926	Apr. 8, 1926	10.0	(3,960)				
1927	Apr. 19, 1927	8.7	(3,030)	1942	Feb. 7, 1942	8.55	2,960
1928	Nov. 30, 1927	12.2	(6,080)		Mar. 9, 1942	7.5	2,290
1929	Aug. 3, 1929	12.0	(5,880)		Mar. 17, 1942	8.1	2,940
1930	Dec. 17, 1929	7.4	2,240	1943	Dec. 28, 1942	8.6	3,070
	Dec. 22, 1929	7.7	2,400		Mar. 16, 1943	8.4	2,940
	Jan. 2, 1930	9.7	3,730		May 11, 1943	10.9	4,770
	Jan. 7, 1930	9.1	3,310		May 17, 1943	11.8	5,530
	Jan. 15, 1930	10.2	4,120		May 25, 1943	9.2	3,490
					July 17, 1943	12.07	5,890
1931	Mar. 28, 1931	3.6	550				
				1944	Apr. 11, 1944	11.90	5,620
1932	Jan. 17, 1932	6.9	1,990		Apr. 24, 1944	8.3	2,880
1933	Dec. 24, 1932	8.1	2,640	1945	Mar. 31, 1945	8.4	2,940
	Mar. 20, 1933	9.7	3,730		Apr. 2, 1945	8.6	3,070
	May 11, 1933	9.9	3,880		Apr. 4, 1945	8.5	3,000
					Mar. 17, 1945	9.90	3,990
1934	Apr. 4, 1934	6.1	1,600		Aug. 1, 1945	8.7	3,140
1935	Aug. 17, 1935	10.7	4,580	1946	Oct. 1, 1945	9.1	3,420
					Dec. 30, 1945	a8.1	-
1936	Feb. 27, 1936	14.00	7,500		Jan. 9, 1946	9.1	3,420
					Feb. 14, 1946	9.63	3,770
1937	Nov. 3, 1936	11.8	5,680				
	Jan. 10, 1937	7.4	2,240	1947	Jan. 31, 1947	8.75	3,210
	Jan. 15, 1937	9.0	3,240		Apr. 21, 1947	8.1	2,740
1938	Mar. 16, 1938	7.5	2,290	1948	Feb. 18, 1948	9.0	3,350
	Mar. 31, 1938	8.2	2,690		Feb. 28, 1948	10.24	4,220
	Apr. 9, 1938	10.2	4,120		Mar. 22, 1948	9.8	3,920
	June 26, 1938	13.38	7,320		Mar. 27, 1948	8.1	2,740
	July 1, 1938	11.2	5,420		May 13, 1948	7.5	2,360
1939	Feb. 10, 1939	7.4	2,240	1949	Jan. 5, 1949	9.7	3,380
	Feb. 20, 1939	11.0	4,880		Jan. 19, 1949	10.1	3,840
	Mar. 12, 1939	10.5	4,390		Jan. 28, 1949	9.1	2,890
	Apr. 17, 1939	8.9	3,170		Feb. 15, 1949	12.17	5,900

a Backwater from ice.

Peak stages and discharges of Eel River at North Manchester, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 29, 1949	8.0	2,520	1955	Oct. 12, 1954	10.15	4,080
					Jan. 6, 1955	7.84	2,520
1950	Oct. 12, 1949	7.5	2,240		Mar. 4, 1955	9.66	3,680
	Dec. 22, 1949	9.9	3,840				
	Jan. 4, 1950	12.85	6,500	1956	Nov. 16, 1955	8.40	2,760
	Jan. 10, 1950	10.2	4,080		Apr. 29, 1956	8.65	3,170
	Jan. 16, 1950	9.7	3,680				
	Jan. 26, 1950	9.8	3,760	1957	Apr. 6, 1957	9.65	4,080
	Feb. 15, 1950	11.0	4,780		Apr. 18, 1957	8.84	3,460
	Mar. 8, 1950	7.6	2,300		June 28, 1957	7.61	2,620
	Mar. 28, 1950	10.0	3,920				
	Apr. 4, 1950	13.04	6,700	1958	Dec. 20, 1957	8.42	2,820
	Apr. 11, 1950	9.7	3,380		Dec. 26, 1957	7.50	2,290
	June 10, 1950	10.2	4,080		June 10, 1958	7.53	2,290
					June 13, 1958	8.30	2,750
1951	Dec. 3, 1950	9.52	3,520		Aug. 15, 1958	10.00	3,960
	Jan. 3, 1951	9.69	3,680				
	Feb. 12, 1951	8.39	2,760	1959	Jan. 22, 1959	7.82	2,460
	Feb. 21, 1951	11.00	4,780		Jan. 30, 1959	8.78	3,100
	July 9, 1951	9.29	3,380		Feb. 10, 1959	13.32	7,050
					Apr. 2, 1959	7.39	2,240
1952	Jan. 1, 1952	8.72	2,960		Apr. 28, 1959	8.45	2,820
	Jan. 20, 1952	7.8	2,400				
	Jan. 27, 1952	10.37	4,240	1960	Feb. 11, 1960	7.86	2,510
	Feb. 4, 1952	8.0	2,520		Mar. 29, 1960	7.59	2,340
	Mar. 11, 1952	9.06	3,240		Apr. 17, 1960	8.35	2,820
	Apr. 14, 1952	8.78	3,030				
	May 26, 1952	8.33	2,700	1961	Mar. 14, 1961	7.68	2,400
	June 14, 1952	8.68	2,960		Apr. 19, 1961	8.05	2,570
					Apr. 25, 1961	7.56	2,350
1953	Mar. 4, 1953	7.77	2,400		May 9, 1961	8.36	2,820
1954	Apr. 11, 1954	6.88	1,930				

3285. Eel River near Logansport, Ind.

Location.--Lat 40°46'55", long 86°15'50", in sec.14, T.27 N., R.2 E., on right bank at downstream side of county bridge on Adamsboro Road, 5½ miles northeast of Logansport and 6.9 miles upstream from mouth.

Drainage area.--791 sq mi.

Gage.--Nonrecording prior to Aug. 15, 1956; recording thereafter. Datum of gage is 621.50 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,900 cfs and extended to 17,000 cfs by logarithmic plotting.

Remarks.--Base for partial-duration series, 5,000 cfs. Only annual peak is shown for 1943.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 18, 1943	a13.2	17,000	1949	Jan. 28, 1949	9.7	7,800
					Feb. 16, 1949	10.35	9,550
1944	Apr. 12, 1944	10.50	10,000		May 22, 1949	9.6	7,570
	Apr. 24, 1944	8.7	6,200		June 17, 1949	8.8	6,080
1945	Apr. 1, 1945	8.8	6,400	1950	Dec. 22, 1949	9.6	7,570
	Apr. 5, 1945	8.1	5,100		Jan. 5, 1950	11.80	13,100
	May 17, 1945	9.46	7,800		Jan. 11, 1950	9.5	7,340
	Aug. 1, 1945	8.6	6,000		Jan. 16, 1950	9.4	7,140
					Jan. 27, 1950	8.9	6,240
1946	Oct. 2, 1945	9.61	8,020		Feb. 15, 1950	9.7	7,800
	Dec. 31, 1945	8.7	6,200		Mar. 28, 1950	9.0	6,400
	Feb. 14, 1946	9.0	6,800		Apr. 5, 1950	11.1	11,300
					Apr. 11, 1950	9.2	6,760
1947	Jan. 31, 1947	8.26	5,460				
				1951	Dec. 4, 1950	8.68	5,920
1948	Feb. 18, 1948	8.3	5,280		Jan. 4, 1951	8.87	6,240
	Feb. 29, 1948	9.22	6,900		Feb. 21, 1951	10.18	9,050
	Mar. 22, 1948	9.0	6,500		Apr. 10, 1951	8.51	5,600
1949	Dec. 30, 1948	8.2	5,120	1952	Jan. 1, 1952	8.2	5,120
	Jan. 6, 1949	9.2	6,760		Jan. 20, 1952	8.2	5,120
	Jan. 19, 1949	9.4	7,140		Jan. 27, 1952	9.04	6,400

a From floodmark.

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Peak stages and discharges of Eel River near Logansport, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Feb. 4, 1952	8.3	5,280	1958	June 11, 1958	9.74	7,060
	Mar. 12, 1952	8.50	5,600		June 14, 1958	10.17	8,000
	May 26, 1952	8.80	6,080				
				1959	Feb. 11, 1959	11.50	12,300
1953	Mar. 4, 1953	7.97	4,820		Apr. 28, 1959	9.18	7,280
1954	Apr. 12, 1954	6.44	2,660	1960	Feb. 11, 1960	8.18	5,460
					Mar. 29, 1960	8.34	5,640
1955	Mar. 5, 1955	9.57	7,570				
				1961	Apr. 24, 1961	8.58	6,180
1956	Nov. 4, 1955	8.10	4,960		May 10, 1961	8.23	5,460
					July 31, 1961	8.02	5,100
1957	Apr. 5, 1957	8.63	5,760		Aug. 6, 1961	8.25	5,460
	Apr. 19, 1957	8.55	5,760				

3290. Wabash River at Logansport, Ind.

Location.--Lat 40°44'47", long 86°22'39", in NE¼ sec.35, T.27 N., R.1 E., on left bank 150 ft downstream from Cicott Street Bridge in Logansport, 1,000 ft downstream from Eel River, and at mile 353.7.

Drainage area.--3,751 sq mi.

Gage.--Nonrecording prior to Feb. 9, 1934; recording thereafter. Prior to May 26, 1923, at site 150 ft upstream at different datum; gage heights corrected to present datum. May 26, 1923, to Mar. 15, 1925, at site 150 ft upstream at datum 0.19 ft higher. Mar. 16, 1925, to Mar. 31, 1927, Oct. 1, 1927, to Feb. 8, 1934, at site 150 ft upstream at present datum. Apr. 1 to Sept. 30, 1927, at present site at datum approximately 2.85 ft higher. Datum of gage is 573.28 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 88,000 cfs.

Bankfull stage.--17 ft (U.S. Weather Bureau).

Historical data.--The maximum stage known is that of Mar. 26, 1913.

Remarks.--Gage heights for 1883, 1911-16, furnished by U.S. Weather Bureau. Base for partial-duration series, 22,000 cfs. Only annual peaks are shown prior to 1924.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1883	February 1883	20.3	(80,800)	1927	Feb. 6, 1927	11.6	26,400
					Mar. 21, 1927	15.0	44,300
1904	Mar. 27, 1904	17.1	57,600		Apr. 19, 1927	10.8	22,800
1905	May 12, 1905	12.9	32,700		May 20, 1927	13.4	35,200
1906	Mar. 28, 1906	11.3	25,000	1928	Dec. 1, 1927	13.85	40,300
					Dec. 15, 1927	11.8	27,300
1911	Jan. 30, 1911	10.2	(20,300)				
1912	Feb. 28, 1912	21.0	(86,600)	1929	Jan. 20, 1929	11.6	29,300
1913	Mar. 26, 1913	a25.3	140,000		Jan. 23, 1929	10.6	22,000
					Feb. 26, 1929	10.8	22,800
1915	Feb. 6, 1915	11.4	(25,500)		Apr. 1, 1929	11.5	28,800
					May 15, 1929	11.3	25,000
1916	Feb. 1, 1916	17.6	(60,900)				
				1930	Dec. 18, 1929	12.2	29,300
1924	Dec. 14, 1923	11.6	27,300		Jan. 2, 1930	13.9	38,000
	Mar. 30, 1924	15.0	45,400		Jan. 9, 1930	13.2	34,200
	June 10, 1924	13.6	37,300		Jan. 15, 1930	17.8	61,400
1925	Dec. 20, 1924	14.2	40,700	1931	Apr. 4, 1931	7.6	11,100
	Mar. 14, 1925	16.2	52,900				
				1932	Jan. 18, 1932	11.80	30,300
1926	Feb. 26, 1926	11.3	25,000				
	Apr. 9, 1926	14.6	41,900	1933	Dec. 8, 1932	11.3	25,000
	Sept. 6, 1926	11.2	24,600		Dec. 25, 1932	12.0	28,300
	Sept.26, 1926	11.3	25,000		Jan. 1, 1933	11.6	29,300
					Mar. 21, 1933	15.10	46,800
1927	Oct. 4, 1926	11.7	26,900		May 12, 1933	14.7	42,500
	Jan. 31, 1927	13.2	34,200				

a From floodmark.

Peak stages and discharges of Wabash River at Logansport, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 31, 1934	8.79	16,100
1935	May 4, 1935	11.30	26,400
1936	Feb. 27, 1936	17.85	63,700
1937	Nov. 4, 1936	11.35	26,800
	Jan. 9, 1937	11.80	28,700
	Jan. 16, 1937	15.08	48,800
	Apr. 6, 1937	10.80	24,100
1938	Feb. 20, 1938	10.15	23,100
	Mar. 16, 1938	12.49	34,400
	Apr. 1, 1938	14.11	40,600
	Apr. 9, 1938	15.03	48,800
	June 28, 1938	14.13	43,400
	July 2, 1938	10.27	23,600
1939	Feb. 20, 1939	11.95	31,700
	Mar. 13, 1939	16.40	57,600
	Apr. 18, 1939	13.60	40,400
1940	Mar. 4, 1940	b12.97	c30,000
1941	June 14, 1941	8.16	14,400
1942	Feb. 7, 1942	11.70	29,800
	Apr. 11, 1942	11.44	28,300
1943	Dec. 28, 1942	11.20	26,200
	Mar. 17, 1943	10.40	23,000
	May 12, 1943	15.43	45,500
	May 18, 1943	21.32	89,800
	Aug. 5, 1943	10.73	24,200
1944	Apr. 12, 1944	15.87	49,000
	Apr. 24, 1944	12.07	29,800
1945	Mar. 7, 1945	10.23	22,200
	Apr. 3, 1945	11.96	29,400
	May 17, 1945	12.40	31,000
1946	Oct. 2, 1945	11.30	26,600
	Dec. 31, 1945	10.73	24,200
	Feb. 14, 1946	11.05	25,400
1947	Jan. 31, 1947	10.71	24,200
	May 1, 1947	11.15	26,200
	June 3, 1947	12.38	31,000
	June 8, 1947	11.10	25,800
1948	Feb. 16, 1948	b14.75	-
	Feb. 29, 1948	11.35	25,800
	Mar. 22, 1948	12.53	30,800
	Mar. 28, 1948	12.09	29,000
	Apr. 14, 1948	11.50	26,300
1949	Jan. 6, 1949	12.34	29,900
	Jan. 20, 1949	14.48	40,000
	Jan. 28, 1949	12.61	31,200
	Feb. 16, 1949	13.52	35,300
	June 26, 1949	11.35	25,800
1950	Dec. 22, 1949	11.00	24,100
	Jan. 5, 1950	18.82	70,700
	Jan. 11, 1950	14.47	40,000
	Jan. 27, 1950	13.84	36,600
	Feb. 16, 1950	16.45	52,700
	Mar. 29, 1950	12.23	29,400
	Apr. 5, 1950	13.60	35,800
1951	Dec. 4, 1950	13.05	33,000
	Jan. 4, 1951	11.19	25,000
	Feb. 22, 1951	13.10	33,500
1952	Jan. 1, 1952	11.91	28,100
	Jan. 20, 1952	10.84	23,300
	Jan. 28, 1952	13.34	34,400
	Feb. 5, 1952	11.72	27,200
	Mar. 13, 1952	13.40	34,800
	Apr. 24, 1952	11.57	26,800
	May 25, 1952	12.13	29,000
1953	Mar. 5, 1953	11.92	28,100
1954	Apr. 12, 1954	8.10	13,200
1955	Jan. 7, 1955	11.26	23,700
	Mar. 5, 1955	12.10	27,200
1956	Feb. 26, 1956	11.26	25,400
1957	Apr. 7, 1957	14.98	39,500
	Apr. 19, 1957	11.78	26,200
	July 1, 1957	12.43	28,600
1958	Dec. 21, 1957	12.99	31,000
	June 12, 1958	17.80	52,500
	July 16, 1958	11.33	24,200
1959	Jan. 24, 1959	-	d32,000
	Jan. 31, 1959	9.88	22,100
	Feb. 11, 1959	b19.69	69,000
	Apr. 2, 1959	11.53	27,800
	Apr. 29, 1959	16.44	55,800
1960	Feb. 11, 1960	11.56	28,200
	Mar. 29, 1960	11.30	26,800
1961	Mar. 15, 1961	10.51	23,400
	Apr. 19, 1961	11.29	26,800
	Apr. 26, 1961	13.06	35,400
	May 10, 1961	10.84	24,600

b Backwater from ice.
c About.
d Daily mean discharge, estimated.

3295. Wabash River at Delphi, Ind.

Location.--Lat 40°35'26", long 86°41'54", in SE¼ sec.24, T.25 N., R.3 W., on downstream side of second pier from left abutment of highway bridge, 1 mile west of Delphi, 1.6 miles upstream from Deer Creek, 8.6 miles upstream from Tippecanoe River, and at mile 330.8.

Drainage area.--4,032 sq mi.

Gage.--Nonrecording prior to July 19, 1942; recording thereafter. Datum of gage is 519.90 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 82,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--20 ft.

Historical data.--The maximum stage known is that of Mar. 26, 1913.

Remarks.--Base for partial-duration series, 24,000 cfs. Only annual peak is shown for 1913.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a28.4	b145,000	1950	Mar. 29, 1950	18.54	30,800
					Apr. 6, 1950	19.95	35,500
1940	Mar. 4, 1940	c20.99	b31,000				
				1951	Dec. 5, 1950	19.86	35,200
1941	June 14, 1941	11.10	13,000		Jan. 4, 1951	17.20	26,600
					Feb. 22, 1951	20.02	35,500
1942	Feb. 7, 1942	c19.11	d25,800				
	Apr. 11, 1942	17.83	26,200	1952	Jan. 2, 1952	18.02	29,000
					Jan. 20, 1952	16.42	24,200
1943	Dec. 28, 1942	17.6	25,900		Jan. 28, 1952	19.86	35,200
	May 13, 1943	22.53	45,300		Feb. 5, 1952	17.80	28,400
	May 19, 1943	25.60	85,300		Mar. 13, 1952	19.86	35,200
					Apr. 25, 1952	18.26	29,900
1944	Apr. 13, 1944	23.48	50,800		May 26, 1952	18.82	31,400
	Apr. 24, 1944	18.94	30,200				
				1953	Mar. 5, 1953	17.71	28,100
1945	Apr. 3, 1945	18.76	29,900				
	May 18, 1945	19.53	32,400	1954	Apr. 12, 1954	10.60	12,100
1946	Oct. 2, 1945	18.30	28,200	1955	Jan. 7, 1955	17.09	26,300
	Feb. 15, 1946	17.60	25,900		Mar. 5, 1955	18.24	29,600
1947	May 1, 1947	d17.5	27,500	1956	Feb. 26, 1956	18.16	29,600
	June 4, 1947	18.89	31,700				
	June 8, 1947	17.08	26,300	1957	Apr. 7, 1957	22.22	41,200
					Apr. 20, 1957	18.40	27,100
1948	Feb. 29, 1948	17.27	26,900		July 1, 1957	18.77	28,200
	Mar. 23, 1948	18.88	31,700				
	Mar. 28, 1948	18.08	29,300	1958	Dec. 21, 1957	20.41	31,200
	Apr. 15, 1948	17.20	26,600		June 14, 1958	25.54	61,500
					July 17, 1958	17.97	26,000
1949	Jan. 6, 1949	19.20	32,700				
	Jan. 20, 1949	22.28	44,400	1959	Jan. 24, 1959	21.00	37,000
	Jan. 29, 1949	19.46	33,800		Jan. 31, 1959	19.00	29,200
	Feb. 16, 1949	20.68	38,000		Feb. 11, 1959	c27.48	71,500
					Apr. 29, 1959	23.77	57,000
1950	Jan. 5, 1950	24.95	68,600				
	Jan. 11, 1950	21.52	41,600	1960	Feb. 11, 1960	17.83	25,400
	Jan. 17, 1950	20.82	38,600		Mar. 30, 1960	17.62	24,800
	Jan. 27, 1950	20.80	38,600				
	Feb. 16, 1950	22.90	49,500	1961	Apr. 26, 1961	20.32	34,100

a From information by State Highway Department of Indiana.
b About.
c Backwater from ice.
d Estimated.

3297. Deer Creek near Delphi, Ind.

Location.--Lat 40°36', long 86°37', on line between SE¼ sec.22 and NE¼ sec.27, T.25 N., R.2 W., on downstream side of left wingwall of highway bridge, 3 miles northeast of Delphi and 4½ miles upstream from mouth.

Drainage area.--278 sq mi.

Gage.--Nonrecording prior to Sept 18, 1950; recording thereafter. Altitude of gage is 542 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended to 18,000 cfs by logarithmic plotting.

Remarks.--Base for partial-duration series, 2,000 cfs. Only annual peaks are shown prior to 1945.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 1943	a19.8	18,000	1952	Apr. 14, 1952	7.68	2,220
1944	Apr. 12, 1944	10.9	4,700		Apr. 24, 1952	11.25	5,360
					May 26, 1952	9.63	3,760
1945	Apr. 1, 1945	8.1	2,350		June 14, 1952	7.41	2,040
	May 16, 1945	9.28	3,250				
	June 13, 1945	7.6	2,020	1953	Mar. 4, 1953	9.24	3,380
					Mar. 15, 1953	7.52	2,040
1946	Oct. 2, 1945	8.8	2,850				
	Dec. 30, 1945	-	b2,000	1954	June 1, 1954	7.00	1,800
	Feb. 14, 1946	-	b3,500				
				1955	July 16, 1955	7.86	2,350
1947	Jan. 31, 1947	7.7	2,180				
	Apr. 30, 1947	9.0	3,000	1956	Oct. 7, 1955	10.23	4,360
	June 3, 1947	8.0	2,360		Nov. 16, 1955	7.75	2,280
	June 7, 1947	7.5	2,060		Feb. 25, 1956	9.67	3,860
					Mar. 7, 1956	7.98	2,420
1948	Feb. 28, 1948	8.57	2,720				
	Mar. 22, 1948	7.5	2,060	1957	Apr. 5, 1957	7.40	2,040
					Apr. 21, 1957	7.63	2,160
1949	Dec. 29, 1948	8.2	2,480		July 5, 1957	7.82	2,280
	Jan. 5, 1949	10.5	4,300		July 17, 1957	10.79	4,960
	Jan. 19, 1949	11.66	5,580				
	Jan. 28, 1949	9.0	3,000	1958	Dec. 20, 1957	7.83	2,280
	Feb. 15, 1949	10.6	4,400		June 10, 1958	18.26	14,400
					June 14, 1958	11.14	4,920
1950	Dec. 22, 1949	8.1	2,420		July 16, 1958	12.28	6,200
	Jan. 4, 1950	14.4	9,160		Aug. 16, 1958	10.51	4,350
	Jan. 10, 1950	10.6	4,400				
	Jan. 16, 1950	9.6	3,470	1959	Jan. 22, 1959	-	b3,000
	Jan. 26, 1950	9.6	3,470		Jan. 30, 1959	8.22	2,510
	Feb. 14, 1950	10.8	4,600		Feb. 10, 1959	16.72	12,100
	Mar. 28, 1950	9.0	3,000		Apr. 27, 1959	15.46	10,300
	Apr. 4, 1950	9.0	3,000				
	Sept. 1, 1950	9.4	3,310	1960	Feb. 10, 1960	7.53	2,450
	Sept.22, 1950	7.7	2,180		Mar. 29, 1960	7.29	2,310
					July 3, 1960	6.95	2,100
1951	Dec. 3, 1950	7.58	2,160		Aug. 3, 1960	8.64	3,230
	Jan. 3, 1951	c7.87	d2,150		Aug. 21, 1960	8.63	3,230
	Feb. 19, 1951	7.95	2,420				
	Feb. 21, 1951	8.73	2,950	1961	Mar. 13, 1961	7.16	2,240
					Apr. 23, 1961	8.43	3,080
1952	Jan. 27, 1952	7.39	2,040		Apr. 25, 1961	8.24	2,940
	Feb. 4, 1952	7.74	2,220		May 9, 1961	7.30	2,310
	Mar. 11, 1952	8.56	2,870				

a From floodmarks.
b Daily mean discharge, estimated.
c Backwater from ice.
d About.

3305. Tippecanoe River at Oswego, Ind.

Location.--Lat 41°19'14", long 85°47'21", in NE¼NE¼ sec.14, T.33 N., R.6 E., on left bank 10 ft downstream from dam at Tippecanoe Lake outlet in Oswego, and 3 miles east of Leesburg.

Drainage area.--115 sq mi.

Gage.--Nonrecording prior to Aug. 12, 1953; recording thereafter. Datum of gage is 830.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 680 cfs and extended to 1,050 cfs by logarithmic plotting.

Remarks.--Peak discharges affected by natural storage in numerous lakes upstream. Base for partial-duration series, 200 cfs. Only annual peak shown for 1943.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 21, 1943	a9.4	1,050	1955	Mar. 8, 1955	-	b286
1950	Jan. 29, 1950	-	b580	1956	May 14, 1956	8.08	c450
	Feb. 23, 1950	-	b420				
	Apr. 10, 1950	8.62	c680	1957	Apr. 18, 1957	7.59	315
1951	Dec. 12, 1950	7.30	260	1958	Jan. 1, 1958	7.34	215
	Jan. 11, 1951	-	b240		Sept.20, 1958	8.18	383
	Feb. 28, 1951	-	b430				
	Apr. 19, 1951	7.40	305	1959	Feb. 18, 1959	8.48	548
	July 17, 1951	7.20	265		Apr. 8, 1959	8.00	385
					May 1, 1959	7.33	202
1952	Jan. 30, 1952	-	b370		July 6, 1959	7.50	220
	Mar. 25, 1952	7.30	285				
	Apr. 19, 1952	7.22	269	1960	Jan. 19, 1960	7.38	277
	May 30, 1952	7.26	263		Feb. 15, 1960	7.29	256
					Apr. 4, 1960	7.14	220
1953	Mar. 23, 1953	6.76	c179		Apr. 24, 1960	7.54	302
					June 20, 1960	7.79	383
1954	Apr. 30, 1954	7.60	c322				
				1961	Mar. 27, 1961	7.09	252
1955	Oct. 17, 1954	8.64	c700		Apr. 28, 1961	7.43	312
	Jan. 12, 1955	7.42	265				

a About, based on nonrecording lake gage at west end of Oswego basin. b Daily mean discharge, estimated. c Daily mean discharge.

3310. Tippecanoe River near Warsaw, Ind.

Location.--Lat 41°17', long 85°51', in sec.29, T.33 N., R.6 E., at bridge on State Highway 15, 2¼ miles upstream from Deeds Creek and 3¼ miles north of Warsaw.

Drainage area.--125 sq mi.

Gage.--Nonrecording. Datum of gage is 815.54 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs.

Bankfull stage.--5 ft.

Remarks.--Peak discharges affected by natural storage in numerous lakes upstream. Base for partial-duration series, 260 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 24, 1944	3.67	552	1947	Apr. 26, 1947	2.37	272
	May 20, 1944	3.43	502				
				1948	Mar. 5, 1948	2.62	304
1945	May 25, 1945	2.61	336		Apr. 1, 1948	2.45	282
1946	Jan. 14, 1946	a2.52	320	1949	Feb. 2, 1949	2.68	320
	Feb. 19, 1946	2.10	260		Feb. 21, 1949	3.11	388

a May have been higher during period of no gage-height record.

3315. Tippecanoe River near Ora, Ind.

Location.--Lat 41°10', long 86°34', in NE¼ sec.7, T.31 N., R.1 W., on right bank at downstream side of highway bridge, 1.3 miles southwest of Ora and 2.0 miles downstream from Osborn ditch.

Drainage area.--839 sq mi.

Gage.--Nonrecording prior to July 30, 1956; recording thereafter. Altitude of gage is 694 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 6,700 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Mar. 17, 1944	10.9	2,930	1951	July 11, 1951	11.4	3,340
	Apr. 13, 1944	13.2	5,650				
	Apr. 25, 1944	12.6	4,450	1952	Jan. 2, 1952	10.7	2,740
	May 18, 1944	10.2	2,440		Jan. 21, 1952	10.3	2,430
	May 28, 1944	-	a2,600		Jan. 29, 1952	11.16	3,140
					Feb. 6, 1952	11.1	3,060
1945	Apr. 4, 1945	-	a2,500		Apr. 15, 1952	10.4	2,500
	May 19, 1945	12.18	4,050		May 26, 1952	10.4	2,500
					June 16, 1952	10.2	2,360
1946	Oct. 4, 1945	11.21	3,170				
	Jan. 1, 1946	10.3	2,510	1953	Mar. 16, 1953	9.40	1,840
	Feb. 16, 1946	10.0	2,320				
				1954	Apr. 12, 1954	9.92	2,150
1947	Apr. 22, 1947	10.86	2,930				
	May 2, 1947	10.0	2,320	1955	Oct. 16, 1954	12.12	3,540
					Jan. 6, 1955	9.5	2,360
1948	Feb. 19, 1948	b11.50	a2,600		Mar. 6, 1955	10.6	3,240
	Mar. 1, 1948	10.8	2,920				
	May 14, 1948	11.05	3,090	1956	May 1, 1956	13.30	5,800
1949	Jan. 20, 1949	11.3	3,310	1957	Apr. 11, 1957	10.36	2,460
	Jan. 29, 1949	c12.2	d2,810		Apr. 20, 1957	10.49	2,540
	Feb. 17, 1949	12.32	4,360				
				1958	June 12, 1958	10.89	2,880
1950	Dec. 23, 1949	10.4	2,570		Aug. 18, 1958	10.60	2,630
	Jan. 6, 1950	12.0	4,000				
	Jan. 17, 1950	12.7	4,900	1959	Feb. 15, 1959	14.06	7,120
	Jan. 27, 1950	13.3	5,800		Apr. 30, 1959	10.67	2,720
	Feb. 16, 1950	12.6	4,750				
	Mar. 8, 1950	11.2	3,220	1960	Feb. 12, 1960	11.16	3,140
	Mar. 29, 1950	12.6	4,750		Apr. 1, 1960	11.42	3,340
	Apr. 5, 1950	14.40	7,800		Apr. 19, 1960	12.31	4,300
1951	Jan. 5, 1951	b13.0	a3,400	1961	Apr. 25, 1961	-	a3,300
	Feb. 22, 1951	12.02	3,940		Aug. 3, 1961	10.64	2,380
	Apr. 13, 1951	11.6	3,540				

a Daily mean discharge, estimated. b Backwater from ice. c Backwater from ice, occurred on Jan. 31, 1949. d Daily mean discharge.

3320. Tippecanoe River at Pulaski, Ind.

Location.--Lat 40°58'20", long 86°39'30", in sec.9, T.29 N., R.2 W., at highway bridge at Pulaski, 11 miles upstream from Big Monon Creek (Ketman ditch).

Drainage area.--1,066 sq mi.

Gage.--Nonrecording. Datum of gage is 661.61 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended to 7,500 cfs by logarithmic plotting.

Remarks.--Records for 1925-27 furnished by Indiana Department of Conservation. Discharge figures shown in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of Tippecanoe River at Pulaski, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Dec. 21, 1924	5.55	(3,960)	1928	Dec. 3, 1927	8.23	7,410
	Mar. 20, 1925	5.4	(3,810)		Dec. 16, 1927	7.8	6,770
					Jan. 2, 1928	-	a4,640
1926	Jan. 24, 1926	5.1	(3,520)		Jan. 22, 1928	7.0	5,580
	Feb. 28, 1926	5.4	(3,810)		Jan. 27, 1928	8.2	7,410
	Apr. 10, 1926	6.96	(5,470)				
				1929	Jan. 26, 1929	6.90	5,440
1927	Oct. 4, 1926	5.5	(3,910)		Feb. 28, 1929	5.2	3,260
	Jan. 13, 1927	4.7	(3,130)		May 5, 1929	5.6	3,740
	Feb. 7, 1927	5.2	(3,620)				
	Mar. 23, 1927	5.1	(3,520)	1930	Dec. 23, 1929	6.0	4,250
	Apr. 22, 1927	6.00	(4,400)		Jan. 14, 1930	8.25	7,490
	Apr. 29, 1927	5.4	(3,810)		Jan.20,21,1930	b9.72	c7,250
	May 19, 1927	5.2	(3,620)		Apr. 18, 1930	5.1	3,160
	May 27, 1927	5.4	(3,810)				
	June 7, 1927	5.3	(3,720)	1931	Mar. 30, 1931	2.26	800

a Daily mean discharge.
b Backwater from ice.
c Estimated.

3325. Tippecanoe River near Monticello, Ind.

Location.--Lat 40°47', long 86°45', in sec.21, T.27 N., R.3 W., at Norway plant of Northern Indiana Public Service Co., 2 miles north of Monticello.

Drainage area.--1,710 sq mi.

Stage-discharge relation.--Records of daily discharge computed on basis of operation of powerplant and flow over dam.

Remarks.--Records of daily discharge furnished by Northern Indiana Public Service Co. Only annual maximum daily discharges are shown. Storage capacity of Shafer Lake in 1940 was 14,041 acre-ft.

Maximum daily discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 12, 1932	-	6,030	1947	Apr. 21, 1947	-	6,380
1933	May 11, 1933	-	11,500	1948	May 14, 1948	-	7,610
1934	Aug. 16, 1934	-	2,570	1949	Feb. 15, 1949	-	9,480
1935	Mar. 11, 1935	-	5,330	1950	Apr. 4, 1950	-	15,400
1936	Feb. 29, 1936	-	9,510	1951	Feb. 21, 1951	-	13,000
1937	Nov. 3, 1936	-	9,750	1952	June 14, 1952	-	10,400
1938	Apr. 9, 1938	-	9,100	1953	Mar. 15, 1953	-	5,570
1939	Mar. 12, 1939	-	10,200	1954	Apr. 29, 1954	-	6,440
1940	May 2, 1940	-	5,480	1955	Mar. 4, 1955	-	6,100
1941	Apr. 20, 1941	-	2,400	1956	Apr. 30, 1956	-	7,840
1942	Mar. 17, 1942	-	12,200	1957	July 17, 1957	-	8,870
1943	May 18, 1943	-	15,000	1958	June 13, 1958	-	16,800
1944	Apr. 12, 1944	-	11,700	1959	Feb. 10, 1959	-	16,300
1945	May 18, 1945	-	8,910	1960	Apr. 17, 1960	-	11,000
1946	Oct. 2, 1945	-	6,580	1961	Apr. 24, 1961	-	10,800

3330. Tippecanoe River near Delphi, Ind.

Location.--Lat 40°37', long 86°45', in sec.16, T.25 N., R.3 W., on right bank 2 miles northeast of Springboro, 2 miles downstream from Big Creek, and 5 miles northwest of Delphi.

Drainage area.--1,857 sq mi; 1,860 sq mi, 1903-9.

Gage.--Nonrecording prior to Dec. 31, 1908; recording thereafter. At site 5½ miles downstream at unknown datum prior to Dec. 31, 1908. Datum of gage is 552.01 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs at former site; defined by current-meter measurements below 21,000 cfs at present site.

Bankfull stage.--14 ft.

Remarks.--Only annual peaks are shown. Flow regulated by powerplants.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Feb. 29, 1904	a15.2	-	1948	May 13, 1948	9.04	8,130
1905	May 14, 1905	10.2	15,400	1949	Jan. 19, 1949	11.03	12,000
				1950	Apr. 4, 1950	13.43	17,200
1906	Jan. 24, 1906	6.39	6,790				
				1951	Feb. 21, 1951	12.36	15,000
1937	Nov. 3, 1936	b13.5	17,400	1952	June 14, 1952	11.15	12,400
				1953	June 11, 1953	8.29	6,960
1940	May 2, 1940	7.88	6,290	1954	Apr. 29, 1954	-	c6,500
				1955	Jan. 6, 1955	7.59	5,840
1941	Apr. 20, 1941	5.26	2,700				
1942	Mar. 17, 1942	11.47	13,100	1956	Apr. 29, 1956	10.23	10,400
1943	May 18, 1943	13.24	16,900	1957	July 17, 1957	14.08	18,800
1944	Apr. 11, 1944	12.16	14,600	1958	June 10, 1958	14.72	21,400
1945	May 17, 1945	9.78	9,600	1959	Feb. 10, 1959	15.10	22,600
				1960	Apr. 18, 1960	11.79	14,200
1946	Oct. 2, 1945	8.82	7,740				
	Feb. 16, 1946	8.82	7,740	1961	Apr. 22, 1961	10.26	11,000
1947	June 2, 1947	9.20	8,490				

a Maximum observed, backwater from ice.
b Determined by Northern Indiana Public Service Co.
c Daily mean discharge, estimated.

3335. Wildcat Creek at Greentown, Ind.

Location.--Lat 40°27', long 85°57', on line between secs. 9 and 10, T.23 N., R.5 E., on left bank at downstream side of bridge on State Highway 213, 1.5 miles south of Greentown.

Drainage area.--162 sq mi; 172 sq mi prior to June 5, 1954.

Gage.--Nonrecording prior to June 5, 1954; recording thereafter. Prior to June 5, 1954, at site 2.0 miles downstream at datum 5.34 ft lower. Datum of gage is 809.33 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--11 ft at both sites.

Historical data.--The following statements appear in old newspapers for Kokomo, about 9 miles downstream. September 1866: "Wildcat Creek raging; no train for 3 days." 1904: "Greatest flood in Kokomo history."

Flood of August 1871 reached a stage 3 in. below that of the 1913 flood at a bridge 1¼ miles downstream from present site, according to information by local resident on the basis of remembered high-water marks made on the same tree.

Remarks.--Base for partial-duration series, 1,400 cfs. Only annual peaks are shown prior to 1945.

Peak stages and discharges of Wildcat Creek at Greentown, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a18.9	-	1951	Nov. 21, 1950	9.6	1,520
					Dec. 4, 1950	10.18	1,760
1943	May 1943	a15.0	5,960		Feb. 21, 1951	10.7	2,020
1945	Apr. 1, 1945	10.04	1,680	1952	Jan. 28, 1952	9.7	1,560
	May 17, 1945	9.8	1,600		Feb. 4, 1952	9.5	1,480
					Mar. 11, 1952	11.52	2,580
1946	Oct. 2, 1945	9.94	1,640				
	Feb. 14, 1946	9.9	1,640	1953	Mar. 4, 1953	10.34	1,810
	Mar. 18, 1946	9.3	1,420		Apr. 10, 1953	9.3	1,420
1947	Jan. 30, 1947	9.9	1,640	1954	Apr. 12, 1954	5.63	450
	Apr. 30, 1947	10.94	2,140				
	June 3, 1947	10.2	1,760	1955	Jan. 7, 1955	10.00	1,650
1948	Jan. 2, 1948	9.4	1,450	1956	May 28, 1956	9.97	1,650
	Feb. 28, 1948	9.5	1,480				
	Mar. 22, 1948	11.63	2,670	1957	Feb. 27, 1957	9.68	1,530
	Mar. 27, 1948	10.98	2,200		Apr. 4, 1957	10.45	1,550
	Apr. 8, 1948	11.45	2,500		June 29, 1957	12.37	2,260
	Apr. 13, 1948	10.90	2,140				
				1958	Dec. 8, 1957	10.02	1,950
1949	Jan. 6, 1949	10.3	1,810		Dec. 19, 1957	10.12	2,020
	Jan. 19, 1949	13.19	4,110		June 10, 1958	12.86	4,900
	Jan. 28, 1949	10.7	2,020		July 16, 1958	10.11	2,020
	Feb. 15, 1949	11.2	2,340				
				1959	Jan. 21, 1959	11.99	4,160
1950	Dec. 22, 1949	9.6	1,520		Jan. 30, 1959	9.70	1,750
	Jan. 4, 1950	15.3	6,320		Feb. 10, 1959	12.74	5,390
	Jan. 10, 1950	13.0	3,930		Apr. 2, 1959	9.81	1,810
	Jan. 14, 1950	10.9	2,140		Apr. 28, 1959	10.75	2,640
	Jan. 16, 1950	11.4	2,500				
	Jan. 26, 1950	11.3	2,420	1960	Mar. 29, 1960	8.28	1,100
	Feb. 9, 1950	9.4	1,450				
	Feb. 14, 1950	12.3	3,300	1961	Apr. 23, 1961	10.03	1,950
	Mar. 28, 1950	9.9	1,640		Apr. 26, 1961	10.27	2,180
	Apr. 4, 1950	11.6	2,670				

a From floodmarks.

3337. Wildcat Creek at Kokomo, Ind.

Location.--Lat 40°28', long 86°09', in NW¼ sec.2, T.23 N., R.3 E., on right bank in Kokomo, 0.3 mile downstream from Kokomo Creek, 0.4 mile upstream from Dixon Road Bridge and on property of Continental Steel Corp.

Drainage area.--245 sq mi.

Gage.--Recording. Altitude of gage is 777 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs.

Remarks.--Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 29, 1956	6.38	2,060	1959	Jan. 22, 1959	7.63	3,220
					Feb. 10, 1959	10.83	8,100
1957	Apr. 5, 1957	7.34	2,740		Apr. 2, 1959	6.08	2,340
	June 29, 1957	9.31	4,860		Apr. 28, 1959	8.10	4,250
1958	Dec. 8, 1957	6.68	2,560	1960	Mar. 29, 1960	5.20	1,410
	Dec. 20, 1957	7.18	2,900				
	June 10, 1958	10.80	6,920	1961	Apr. 23, 1961	6.74	2,910
	June 14, 1958	9.26	4,860		Apr. 26, 1961	7.14	3,290
	July 16, 1958	6.16	2,230				
	Aug. 15, 1958	6.28	2,300				

3340. Wildcat Creek at Owasco, Ind.

Location.--Lat 40°28', long 86°38', in SW¼ sec.3, T.23 N., R.2 W., on left bank just downstream from highway bridge, half a mile northwest of Owasco and 15 miles upstream from South Fork Wildcat Creek.

Drainage area.--390 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1950; recording thereafter. Prior to Oct. 1, 1950, at site 500 ft upstream at present datum. Datum of gage is 624.61 ft above mean sea level (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 7,100 cfs.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 3,000 cfs. Only annual peaks are shown prior to 1945.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a16	-	1952	Jan. 27, 1952	7.34	3,030
					Mar. 13, 1952	7.78	3,380
1943	May 18, 1943	b14.0	-		May 6, 1952	7.32	3,030
1944	Apr. 12, 1944	10.95	6,900		May 26, 1952	7.82	3,380
1945	May 18, 1945	8.61	3,660	1953	Mar. 6, 1953	6.99	2,820
1946	Feb. 14, 1946	7.90	3,060	1954	June 1, 1954	4.81	1,400
1947	May 1, 1947	8.62	3,660	1955	Mar. 2, 1955	7.49	3,170
	June 3, 1947	8.2	3,300	1956	May 28, 1956	7.30	3,030
1948	Mar. 23, 1948	9.28	4,380				
	Apr. 8, 1948	8.5	3,570	1957	Apr. 6, 1957	7.88	3,450
	Apr. 15, 1948	8.1	3,220		Apr. 20, 1957	7.42	3,100
					July 1, 1957	8.61	4,000
1949	Jan. 6, 1949	8.0	3,150		July 18, 1957	8.20	3,660
	Jan. 20, 1949	10.55	6,250				
	Jan. 29, 1949	8.6	3,770	1958	Dec. 21, 1957	8.28	3,730
	Feb. 16, 1949	8.7	3,890		June 11, 1958	11.50	9,400
					July 15, 1958	7.58	3,240
1950	Jan. 5, 1950	13.3	10,200		Aug. 16, 1958	8.90	4,720
	Jan. 12, 1950	9.9	5,340				
	Jan. 16, 1950	9.4	4,730	1959	Jan. 23, 1959	9.44	5,480
	Jan. 27, 1950	8.7	3,890		Jan. 31, 1959	7.93	3,550
	Feb. 15, 1950	10.4	5,990		Feb. 11, 1959	11.74	9,880
	Apr. 6, 1950	9.2	4,490		Apr. 29, 1959	9.42	5,480
	Sept. 2, 1950	9.2	4,490				
				1960	Mar. 30, 1960	6.12	2,190
1951	Dec. 5, 1950	7.50	3,170				
	Feb. 22, 1951	7.48	3,170	1961	Apr. 27, 1961	8.45	4,060

a From information by State Highway Department of Indiana.
b From floodmarks.

3345. South Fork Wildcat Creek near Lafayette, Ind.

Location.--Lat 40°24', long 86°47', in NW¼ sec.28, T.23 N., R.3 W., on right bank 40 ft upstream from bridge on State Highway 26, three-quarters of a mile upstream from Middle Fork, 4¼ miles upstream from mouth, and 5 miles east of Lafayette.

Drainage area.--246 sq mi.

Gage.--Nonrecording prior to July 29, 1954; recording thereafter. Datum of gage is 563.45 ft above mean sea level (State Highway Department of Indiana bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and by contracted-opening measurement at 17,900 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of South Fork Wildcat Creek near Lafayette, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 18, 1943	a16.8	b17,900	1952	May 25, 1952	9.5	3,100
1944	Apr. 11, 1944	11.7	5,770	1953	Mar. 4, 1953	11.53	4,950
1945	May 17, 1945	9.14	3,380	1954	Aug. 17, 1954	5.92	1,530
1946	Feb. 14, 1946	10.74	4,720	1955	Jan. 6, 1955	9.20	2,950
1947	Apr. 30, 1947	10.14	3,420	1956	July 17, 1956	5.97	1,620
	June 7, 1947	9.6	3,150				
				1957	Apr. 4, 1957	9.24	3,450
1948	Mar. 22, 1948	9.8	3,250		June 29, 1957	8.84	3,170
	Apr. 6, 1948	9.95	4,080		July 23, 1957	10.20	4,250
1949	Jan. 5, 1949	10.4	3,590	1958	Dec. 20, 1957	9.18	3,450
	Jan. 19, 1949	11.70	5,250		June 10, 1958	15.28	12,600
	Feb. 15, 1949	11.4	4,800		June 14, 1958	13.45	8,420
					July 11, 1958	8.63	3,030
1950	Jan. 4, 1950	15.12	12,000				
	Jan. 10, 1950	10.3	3,530	1959	Jan. 22, 1959	8.99	3,310
	Jan. 16, 1950	9.6	3,150		Feb. 10, 1959	c14.69	d8,400
	Jan. 26, 1950	9.8	3,250				
	Feb. 13, 1950	10.4	4,050	1960	Aug. 3, 1960	6.29	1,820
	Apr. 4, 1950	9.7	3,200				
	Sept. 2, 1950	11.6	5,100	1961	Apr. 25, 1961	8.96	3,310
1951	Feb. 21, 1951	10.2	3,470				

a From floodmarks. b Annual peak only. c Backwater from Middle Fork.
d About.

3350. Wildcat Creek near Lafayette, Ind.

Location.--Lat 40°27', long 86°50', in SE¼NE¼ sec.14, T.23 N., R.4 W., on downstream side of county highway bridge, 2 miles east of corporate limits of Lafayette, 2½ miles upstream from mouth, and 3 miles downstream from South Fork Wildcat Creek.

Drainage area.--791 sq mi.

Gage.--Nonrecording prior to June 13, 1957; recording thereafter. Datum of gage is 527.66 ft above mean sea level, datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 17,500 cfs.

Remarks.--Base for partial-duration series, 6,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 6, 1955	11.52	6,500	1958	June 10, 1958	21.52	25,000
					June 13, 1958	19.77	19,600
1956	May 29, 1956	9.85	5,280		July 16, 1958	14.88	9,990
					Aug. 16, 1958	14.33	9,330
1957	Apr. 4, 1957	12.20	7,740				
	Apr. 18, 1957	11.85	7,260	1959	Feb. 10, 1959	19.36	18,400
	June 29, 1957	11.37	6,800		Apr. 28, 1959	13.81	9,280
	July 17, 1957	11.18	6,580				
	July 23, 1957	14.06	9,110	1960	Feb. 10, 1960	9.26	4,700
1958	Dec. 20, 1957	13.09	8,100	1961	Apr. 25, 1961	12.77	8,200

3355. Wabash River at Lafayette, Ind.

Location.--Lat 40°25'19", long 86°53'49", in sec.20, T.23 N., R.4 W., on right bank 20 ft downstream from Brown Street Bridge in Lafayette, 5.1 miles downstream from Wildcat Creek, and at mile 311.9.

Drainage area.--7,247 sq mi.

Gage.--Nonrecording prior to Nov. 21, 1933; recording thereafter. Prior to Oct. 1, 1913, at site half a mile upstream at datum 501.15 ft above mean sea level, unadjusted. Datum of present gage is 504.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 130,000 cfs.

Bankfull stage.--11 ft (U.S. Weather Bureau).

Historical data.--R. L. Sackett in Proceedings of Indiana Academy of Science (1913) states that large floods which did much damage occurred June 11, 1858, Aug. 5, 1878, and Feb. 17, 1883. The stage of the 1883 flood was reported higher than any previously known, and according to Sackett, was 22 in. lower than the 1913 flood, and was produced by an ice jam which formed about a mile below the city.

The 25th Annual Report of Indiana State Board of Agriculture (1875) states that on Aug. 3, 1875, the river rose 16 in. higher than ever before known.

Flood of March 1913 is the maximum known.

Remarks.--Records 1904-12 from R. L. Sackett in Proceedings of Indiana Academy of Science (1913). Gage heights 1914-23 furnished by U.S. Weather Bureau. Gage heights 1924-27 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values; those for 1904-12 considered accurate within 30 percent and those for 1914-23 considered accurate within 20 percent. Base for partial-duration series, 30,000 cfs. Only annual peaks are shown prior to 1914.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Mar. 12, 1901	17.22	30,800	1920	July 15, 1920	14.9	(30,600)
1902	July 1, 1902	17.85	32,000	1921	Mar. 29, 1921	18.9	(44,400)
1904	Mar. 27, 1904	-	a(70,000)	1922	Nov. 21, 1921	20.2	(51,800)
1907	Mar. 15, 1907	-	(41,500)		Mar. 16, 1922	17.6	(38,700)
1908	Mar. 7, 1908	-	(57,000)		Apr. 1, 1922	21.2	(58,400)
1909	Feb. 25, 1909	-	(44,000)		Apr. 18, 1922	20.9	(56,300)
1910	Jan. 19, 1910	-	(49,000)	1923	Mar. 18, 1923	20.5	(53,600)
1911	Jan. 29, 1911	-	(31,000)		May 17, 1923	18.1	(40,700)
1912	Mar. 20, 1912	-	(45,900)	1924	Dec. 7, 1923	15.3	31,600
1913	Mar. 26, 1913	b32.9	a190,000		Dec. 15, 1923	17.5	38,400
1914	Mar. 17, 1914	15.4	(31,900)		Dec. 24, 1923	14.8	30,400
	Apr. 9, 1914	18.2	(41,100)		Feb. 1, 1924	d23.7	e40,000
	May 14, 1914	15.5	(32,200)		Mar. 30, 1924	21.35	59,800
1915	Feb. 7, 1915	17.2	(37,300)		June 11, 1924	18.6	42,900
	July 17, 1915	14.9	(30,600)	1925	Dec. 21, 1924	21.2	58,400
1916	Jan. 4, 1916	20.7	(55,000)		Mar. 15, 1925	21.9	63,300
	Jan. 15, 1916	18.2	(41,100)	1926	Feb. 27, 1926	16.2	34,100
	Jan. 23, 1916	16.0	(33,500)		Apr. 10, 1926	21.1	57,700
	Feb. 1, 1916	23.5	(76,000)		Sept. 7, 1926	16.1	33,800
	Mar. 29, 1916	15.0	(30,900)	1927	Oct. 5, 1926	18.6	42,400
1917	Mar. 15, 1917	15.4	(31,900)		Jan. 31, 1927	22.0	64,000
	Apr. 7, 1917	15.9	(33,200)		Feb. 6, 1927	18.8	43,900
1918	Feb. 14, 1918	21.6	(61,200)		Mar. 22, 1927	21.0	57,000
1919	Dec. 16, 1918	17.6	(38,700)		Apr. 3, 1927	15.4	31,900
	Dec. 23, 1918	20.3	(52,400)		Apr. 20, 1927	16.4	34,700
	Mar. 18, 1919	23.5	(76,000)		May 20, 1927	20.2	51,800
1920	Nov. 2, 1919	c15.0	(30,900)		May 26, 1927	18.1	40,700
	Apr. 22, 1920	21.4	(59,800)	1928	Dec. 2, 1927	21.9	63,500
					Dec. 8, 1927	17.4	42,300
					Dec. 15, 1927	18.8	48,600

a Estimated. b From floodmark by U.S. Weather Bureau. c Maximum observed.
d Backwater from ice. e Daily mean discharge, estimated.

Peak stages and discharges of Wabash River at Lafayette, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 16, 1928	15.9	36,100
1929	Jan. 20, 1929	16.6	35,300
	Jan. 24, 1929	16.2	34,100
	Apr. 2, 1929	17.45	38,000
	May 16, 1929	16.7	35,600
1930	Dec. 19, 1929	16.8	39,700
	Jan. 3, 1930	20.5	56,500
	Jan. 10, 1930	19.7	52,600
	Jan. 16, 1930	24.07	74,600
	Feb. 27, 1930	15.4	34,100
1931	Apr. 5, 1931	7.78	13,100
1932	Jan. 19, 1932	17.28	37,600
1933	Dec. 9, 1932	14.7	31,600
	Dec. 26, 1932	17.0	40,500
	Jan. 2, 1933	16.4	38,100
	Mar. 22, 1933	21.5	61,500
	Mar. 28, 1933	15.2	33,400
	Apr. 19, 1933	15.2	33,400
	May 14, 1933	22.70	67,500
1934	Mar. 31, 1934	11.57	21,700
1935	May 5, 1935	17.01	37,000
1936	Feb. 27, 1936	25.50	93,500
	May 4, 1936	15.38	31,800
1937	Nov. 4, 1936	19.72	46,900
	Jan. 1, 1937	15.54	32,800
	Jan. 10, 1937	18.99	47,400
	Jan. 17, 1937	21.28	58,500
	Feb. 22, 1937	15.22	32,500
	Apr. 7, 1937	16.99	39,000
	Apr. 29, 1937	15.68	34,200
1938	Feb. 21, 1938	15.88	33,200
	Mar. 18, 1938	18.88	44,400
	Apr. 2, 1938	20.00	50,600
	Apr. 10, 1938	21.90	63,300
	June 29, 1938	19.01	44,900
	June 3, 1938	16.98	36,600
1939	Feb. 22, 1939	17.86	39,900
	Mar. 2, 1939	15.13	30,900
	Mar. 14, 1939	23.33	74,400
	Apr. 18, 1939	21.26	59,100
1940	Mar. 5, 1940	16.33	34,200
1941	June 15, 1941	9.33	14,600
1942	Feb. 8, 1942	18.90	44,200
	Mar. 12, 1942	15.77	30,600
	Mar. 19, 1942	16.10	31,400
	Apr. 12, 1942	17.55	37,000
1943	Dec. 29, 1942	17.20	39,600
	Mar. 21, 1943	16.42	35,800
	May 13, 1943	21.30	67,000
	May 19, 1943	28.47	131,000
1944	Apr. 13, 1944	22.75	73,300
	Apr. 25, 1944	19.02	44,800
1945	Apr. 3, 1945	18.48	41,800
	May 18, 1945	19.33	46,600
1946	Oct. 3, 1945	18.08	39,400
1946	Jan. 1, 1946	16.58	32,400
	Feb. 15, 1946	17.50	36,400
1947	May 2, 1947	18.00	38,900
	June 4, 1947	18.39	41,200
	June 9, 1947	17.20	35,200
1948	Mar. 1, 1948	16.95	34,200
	Mar. 24, 1948	18.55	41,300
	Mar. 29, 1948	17.64	36,500
	Apr. 9, 1948	16.12	31,000
	Apr. 15, 1948	16.94	33,800
1949	Jan. 7, 1949	18.50	40,700
	Jan. 21, 1949	21.63	62,000
	Jan. 30, 1949	f19.4	46,100
	Feb. 17, 1949	20.46	53,500
1950	Dec. 23, 1949	17.42	34,600
	Jan. 6, 1950	25.35	90,000
	Jan. 16, 1950	21.45	57,600
	Jan. 27, 1950	20.56	51,300
	Feb. 16, 1950	22.43	64,200
	Mar. 29, 1950	f18.5	39,500
	Apr. 6, 1950	20.75	52,700
	Apr. 12, 1950	17.17	33,800
1951	Dec. 6, 1950	18.40	40,700
	Jan. 5, 1951	17.05	35,600
	Feb. 22, 1951	20.48	50,600
1952	Jan. 2, 1952	17.60	37,000
	Jan. 21, 1952	16.10	31,800
	Jan. 29, 1952	18.85	41,500
	Feb. 6, 1952	18.00	37,800
	Mar. 14, 1952	18.90	41,900
	Apr. 15, 1952	16.40	32,800
	Apr. 25, 1952	18.20	39,200
	May 26, 1952	18.87	41,900
	June 15, 1952	15.89	31,100
1953	Mar. 6, 1953	16.97	35,000
1954	Apr. 13, 1954	10.64	16,500
1955	Jan. 8, 1955	16.60	33,600
	Mar. 6, 1955	17.10	35,300
1956	Feb. 27, 1956	16.78	30,000
1957	Apr. 8, 1957	20.30	52,600
	Apr. 21, 1957	18.35	42,500
	July 1, 1957	18.18	41,500
1958	Dec. 21, 1957	19.95	47,000
	June 14, 1958	26.28	99,000
	July 17, 1958	18.36	39,100
	Aug. 16, 1958	17.20	33,900
1959	Jan. 25, 1959	18.42	e34,000
	Feb. 1, 1959	16.82	32,200
	Feb. 11, 1959	25.30	89,000
	Apr. 3, 1959	16.79	32,200
	Apr. 30, 1959	22.28	71,200
1960	Feb. 12, 1960	18.04	37,600
	Mar. 30, 1960	18.35	39,500
1961	Mar. 15, 1961	16.78	34,000
	Apr. 20, 1961	17.09	35,300
	Apr. 26, 1961	20.55	55,400
	May 11, 1961	17.12	35,300

e Daily mean discharge, estimated.
f Furnished by U.S. Weather Bureau.

3357. Big Pine Creek near Williamsport, Ind.

Location.--Lat 40°19', long 87°17', in SE¼ sec.26, T.22 N., R.8 W., on upstream side of highway bridge, 1.6 miles north of city limits of Williamsport and 2.5 miles upstream from mouth.

Drainage area.--329 sq mi.

Gage.--Nonrecording with crest-stage gage. Datum of gage is 511.68 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended on basis of contracted-opening measurement at 12,600 cfs.

Remarks.--Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Mar. 7, 1956	-	1,800	1958	Aug. 2, 1958	10.15	3,760
1957	June 28, 1957	11.31	4,870	1959	Jan. 21, 1959	9.22	2,940
	July 13, 1957	14.22	9,260		Jan. 30, 1959	9.80	3,410
	July 31, 1957	11.87	5,630		Feb. 10, 1959	16.00	12,600
					Apr. 28, 1959	12.77	6,940
1958	Dec. 20, 1957	12.90	7,100				
	June 11, 1958	12.87	7,100	1960	June 23, 1960	10.40	3,940
	June 13, 1958	13.17	7,580				
	July 16, 1958	12.14	5,900	1961	May 9, 1961	8.55	2,520

3360. Wabash River at Covington, Ind.

Location.--Lat 40°08'24", long 87°24'20", in sec.35, T.20 N., R.9 W., near center of span on downstream side of highway bridge at Covington, 2.9 miles downstream from Oppossum Creek, 3.6 miles upstream from Spring Creek, and at mile 271.1.

Drainage area.--8,208 sq mi.

Gage.--Nonrecording. At site three-eighths of a mile downstream at present datum Jan. 20, 1927, to Dec. 3, 1930. Datum of present gage is 473.97 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 140,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--16 ft (U.S. Weather Bureau).

Remarks.--Gage heights prior to 1940 furnished by U.S. Weather Bureau. Figures in parentheses are approximate values only. Those prior to 1931 considered accurate within 25 percent and those for 1931-39 considered accurate within 15 percent. Base for partial-duration series, 28,000 cfs. Only annual peaks are shown prior to 1928.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a35.1	b200,000	1931	Apr. 6, 1931	10.0	(10,700)
1927	Mar. 24, 1927	24.6	(63,700)	1932	Jan. 20, 1932	20.5	(34,800)
1928	Dec. 4, 1927	25.0	(66,900)	1933	Dec. 28, 1932	19.9	(32,200)
	Dec. 10, 1927	21.2	(38,700)		Jan. 3, 1933	19.2	(29,400)
	Dec. 17, 1927	22.5	(47,400)		Mar. 23, 1933	24.9	(66,100)
	Feb. 18, 1928	19.5	(30,600)		May 14, 1933	27.6	(90,200)
1929	Jan. 25, 1929	20.2	(33,500)	1934	Apr. 1, 1934	14.2	(17,700)
	Apr. 4, 1929	19.7	(31,400)				
	May 17, 1929	20.0	(32,600)	1935	May 6, 1935	20.7	(35,800)
1930	Dec. 21, 1929	19.7	(31,400)	1936	Feb. 29, 1936	28.9	(104,000)
	Jan. 5, 1930	23.8	(57,300)		May 5, 1936	19.0	(28,700)
	Jan. 17, 1930	27.7	(91,200)				
	Mar. 1, 1930	18.9	(28,400)	1937	Nov. 6, 1936	23.2	(52,500)

a From floodmark, by U.S. Weather Bureau.
b Estimated.

Peak stages and discharges of Wabash River at Covington, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Jan. 11, 1937	22.89	(50,200)	1950	Jan. 15, 1950	25.7	67,400
	Jan. 18, 1937	25.3	(69,300)		Jan. 29, 1950	24.6	59,700
	Apr. 9, 1937	20.3	(34,000)		Feb. 18, 1950	25.9	69,000
	Apr. 30, 1937	19.0	(28,700)		Mar. 31, 1950	21.9	43,800
					Apr. 7, 1950	24.4	58,400
1938	Feb. 22, 1938	19.1	(29,000)		Apr. 27, 1950	19.6	32,300
	Mar. 19, 1938	22.5	(47,400)				
	Apr. 4, 1938	23.4	(54,100)	1951	Dec. 8, 1950	21.4	40,800
	Apr. 11, 1938	25.7	(72,500)		Jan. 6, 1951	20.2	34,800
	July 3, 1938	22.2	(45,300)		Feb. 23, 1951	e24.80	58,400
					Apr. 15, 1951	19.1	30,000
1939	Feb. 23, 1939	21.3	(39,300)		July 11, 1951	18.8	28,900
	Mar. 4, 1939	19.2	(29,400)				
	Mar. 15, 1939	27.2	(86,200)	1952	Jan. 4, 1952	20.7	37,300
	Apr. 19, 1939	25.5	(70,900)		Jan. 22, 1952	19.3	30,800
					Jan. 31, 1952	f22.00	44,400
1940	Mar. 6, 1940	18.06	29,200		Feb. 7, 1952	21.1	39,300
					Mar. 15, 1952	22.0	44,000
1941	June 15, 1941	11.70	13,200		Apr. 16, 1952	19.5	31,600
					Apr. 27, 1952	21.4	40,800
1942	Feb. 10, 1942	22.31	43,700		May 28, 1952	21.8	42,800
	Mar. 13, 1942	19.4	30,400		June 16, 1952	20.5	36,300
	Mar. 20, 1942	19.7	31,500				
	Apr. 13, 1942	21.0	37,000	1953	Mar. 8, 1953	19.41	31,200
1943	Dec. 31, 1942	20.2	33,500	1954	Apr. 13, 1954	13.25	15,900
	Mar. 22, 1943	19.8	31,900				
	May 20, 1943	32.44	147,000	1955	Jan. 10, 1955	19.2	34,300
					Mar. 7, 1955	19.49	36,300
1944	Apr. 14, 1944	26.28	71,800				
	Apr. 26, 1944	22.4	44,800	1956	Feb. 29, 1956	19.22	30,400
1945	Apr. 5, 1945	22.0	42,400	1957	Apr. 10, 1957	23.87	55,400
	May 19, 1945	22.84	47,300		Apr. 22, 1957	21.72	37,200
					June 3, 1957	21.46	36,200
1946	Oct. 5, 1945	20.3	33,500				
	Jan. 1, 1946	c23.82	d36,000	1958	Dec. 23, 1957	23.57	49,300
	Feb. 17, 1946	19.7	31,500		June 14, 1958	30.27	113,000
					July 18, 1958	22.46	38,600
1947	May 3, 1947	21.4	39,000		Aug. 18, 1958	19.64	29,300
	June 6, 1947	21.39	40,100				
				1959	Jan. 27, 1959	20.50	36,300
1948	Mar. 2, 1948	19.8	31,900		Feb. 13, 1959	28.41	98,100
	Mar. 25, 1948	21.90	41,800		Apr. 5, 1959	19.92	33,400
	Apr. 10, 1948	19.7	31,500		May 1, 1959	25.95	68,800
	Apr. 17, 1948	20.2	33,500				
				1960	Feb. 14, 1960	20.88	38,300
1949	Jan. 9, 1949	21.2	40,700		Apr. 1, 1960	21.80	42,800
	Jan. 22, 1949	25.00	62,500				
	Jan. 30, 1949	22.9	49,900	1961	Mar. 17, 1961	19.70	32,400
	Feb. 18, 1949	23.9	55,400		Mar. 25, 1961	19.13	30,000
					Apr. 27, 1961	24.58	62,900
1950	Dec. 25, 1949	20.7	37,700		May 12, 1961	20.62	36,800
	Jan. 7, 1950	28.50	92,500				

c Result of ice jam, Jan. 2, 1946. d Daily mean discharge, estimated.
e Result of ice jam, Feb. 18, 1951. f Occurred at different time than peak discharge.

3361. Vermilion River tributary near Paxton, Ill.

Location.--Lat 40°27'15", long 88°09'10", in NW¼ sec.14, T.23 N., R.9 E., at culvert on State Highway 9, 2.8 miles west of Paxton.

Drainage area.--1.05 sq mi. Mean altitude of basin, 760 ft.

Gage.--Crest-stage gage. Altitude of gage is 735 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 27, 1956	14.17	183	1960	Mar. 27, 1960	12.11	56
1957	July 13, 1957	14.40	200				
1958	June 10, 1958	12.31	66	1961	Apr. 22, 1961	12.25	63
1959	May 20, 1959	15.04	249				

3365. Bluegrass Creek at Potomac, Ill.

Location.--Lat 40°19'19", long 87°48'02", in SE¼NE¼ sec.34, T.22 N., R.13 W., on left bank at downstream side of highway bridge, 1.0 mile north of Potomac and 2.0 miles upstream from mouth.

Drainage area.--34.5 sq mi.

Gage.--Nonrecording prior to May 4, 1950; recording thereafter. Datum of gage is 655.37 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs.

Remarks.--Base for partial-duration series, 780 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Dec. 22, 1949	9.8	2,460	1956	May 28, 1956	11.43	4,380
	Jan. 4, 1950	9.7	2,350		June 22, 1956	9.92	2,160
	Jan. 10, 1950	7.7	1,080		July 16, 1956	10.74	3,180
	Jan. 13, 1950	8.6	1,460				
	Apr. 4, 1950	9.7	2,350	1957	Apr. 3, 1957	6.65	825
	June 19, 1950	7.7	1,080		Apr. 28, 1957	7.49	1,020
	June 25, 1950	9.8	2,460		May 11, 1957	7.26	990
	Sept.21, 1950	7.9	1,140		June 28, 1957	7.08	875
1951	Jan. 2, 1951	8.66	1,490	1958	Dec. 20, 1957	7.93	1,140
	Feb. 18, 1951	6.54	805		June 10, 1958	7.45	990
	Feb. 21, 1951	10.47	3,300		June 13, 1958	8.94	1,570
	Mar. 18, 1951	6.51	805		July 11, 1958	7.75	1,110
	July 9, 1951	10.72	3,540				
	July 10, 1951	10.34	3,060	1959	Jan. 30, 1959	8.02	1,180
	July 12, 1951	7.62	1,040		Feb. 10, 1959	11.06	3,700
					Mar. 15, 1959	6.84	875
1952	Nov. 12, 1951	6.66	803		Apr. 27, 1959	7.72	1,080
	June 14, 1952	9.37	1,980				
	June 22, 1952	6.82	868	1960	Mar. 28, 1960	7.25	910
					June 21, 1960	7.45	960
1953	Mar. 14, 1953	8.43	1,350		June 23, 1960	10.14	1,840
	Apr. 9, 1953	7.04	880				
				1961	Apr. 22, 1961	7.18	910
1954	Apr. 11, 1954	5.73	578				
1955	June 11, 1955	6.81	754				

3370. Boneyard Creek at Urbana, Ill.

Location.--Lat 40°06'40", long 88°13'35", in NW¼NE¼ sec.18, T.19 N., R.9 E., on right bank at downstream side of footbridge at rear of fire station on University of Illinois campus in Urbana, 1¼ miles upstream from mouth.

Drainage area.--4.64 sq mi.

Gage.--Recording. Datum of gage is 708.25 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 540 cfs.

Remarks.--Since Aug. 1, 1960, part of storm runoff from 1.12 sq mi at headwaters has been diverted to Saline Branch through Northwest Diversion conduit. Base for partial-duration series, 230 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	July 15, 1948	6.30	345	1950	Oct. 21, 1949	6.0	350
	July 22, 1948	5.8	308		July 17, 1950	7.87	512
	July 25, 1948	5.8	308		Aug. 10, 1950	4.9	262
	Sept.20, 1948	5.1	259		Sept.20, 1950	4.9	262
1949	May 23, 1949	5.8	333	1951	June 27, 1951	5.31	293
	June 26, 1949	5.8	333		July 9, 1951	6.98	440
	June 28, 1949	5.3	293		Aug. 6, 1951	6.13	359
	July 6, 1949	5.96	350		Aug. 29, 1951	4.74	248
	July 19, 1949	5.4	301				
	Aug. 17, 1949	5.6	317	1952	May 16, 1952	5.11	277

Peak stages and discharges of Boneyard Creek at Urbana, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	June 13, 1952	6.64	404	1958	May 3, 1958	5.52	275
	June 22, 1952	6.02	350		May 4, 1958	7.27	414
	Aug. 11, 1952	4.72	248		June 10, 1958	6.79	374
					June 17, 1958	4.96	240
1953	Mar. 14, 1953	6.75	422		July 10, 1958	5.45	268
	July 6, 1953	5.15	285		July 11, 1958	6.40	342
					July 15, 1958	6.23	326
1954	Apr. 10, 1954	4.84	255		Aug. 7, 1958	6.43	342
	June 1, 1954	4.64	241				
	July 3, 1954	4.47	234	1959	Nov. 25, 1958	5.63	282
					Feb. 9, 1959	6.02	310
1955	Oct. 10, 1954	5.86	355		May 20, 1959	7.60	440
	June 4, 1955	5.05	266		May 22, 1959	5.59	282
	July 23, 1955	5.53	314		Sept.26, 1959	6.23	326
	Aug. 29, 1955	5.10	275				
				1960	Oct. 10, 1959	5.26	261
1956	Oct. 6, 1955	7.68	561		June 23, 1960	6.49	358
	July 18, 1956	5.72	334		July 13, 1960	5.36	268
	July 31, 1956	4.91	257		Sept.19, 1960	-	a250
1957	Apr. 26, 1957	5.50	314	1961	Apr. 22, 1961	6.10	318
	June 13, 1957	5.43	304		Apr. 24, 1961	6.58	358
	July 13, 1957	6.76	454		May 8, 1961	6.93	382
	July 23, 1957	6.10	377		June 6, 1961	7.00	390
	Aug. 28, 1957	4.71	239		June 8, 1961	4.87	233

a Estimated.

3375. Saline Branch at Urbana, Ill.
(Published as "West Branch Salt Fork" 1936-58)

Location.--Lat 40°07'12", long 88°11'41", in NE¼SW¼ sec.9, T.19 N., R.9 E., at Champaign-Urbana sewage-disposal plant, 0.3 mile downstream from Boneyard Creek, and 1 mile east of Urbana.

Drainage area.--71.4 sq mi.

Gage.--Recording prior to 1961; nonrecording thereafter. At same site at datum 1.00 ft lower prior to July 8, 1941. All gage heights adjusted to present datum. Datum of gage is 687.02 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown subsequent to 1958. Base for partial-duration series, 480 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	May 11, 1933	a13.5	-	1942	July 8, 1942	4.65	646
1937	Nov. 2, 1936	5.8	900	1943	Dec. 27, 1942	5.7	929
	Dec. 30, 1936	5.20	685		Mar. 16, 1943	5.5	875
	Jan. 9, 1937	6.2	1,020		May 16, 1943	4.50	591
	Jan. 14, 1937	6.1	991		May 18, 1943	10.62	2,080
					May 20, 1943	5.0	748
1938	Mar. 16, 1938	5.9	930		Aug. 3, 1943	4.65	632
	Mar. 25, 1938	4.65	482				
	Mar. 31, 1938	7.6	1,460	1944	Apr. 11, 1944	8.7	1,520
	Apr. 8, 1938	6.8	1,210		Apr. 23, 1944	6.6	1,160
	June 25, 1938	4.80	535		May 22, 1944	4.65	646
	July 2, 1938	5.60	840		May 27, 1944	5.0	725
					May 30, 1944	5.1	767
1939	Feb. 19, 1939	5.05	625				
	Mar. 12, 1939	12.8	3,410	1945	June 13, 1945	4.20	510
	Apr. 17, 1939	5.25	705		June 17, 1945	5.8	956
	June 10, 1939	5.9	930				
	Aug. 18, 1939	5.55	822	1946	Feb. 13, 1946	4.10	497
					June 20, 1946	10.3	1,950
1940	June 12, 1940	6.4	1,100				
				1947	Apr. 30, 1947	4.30	517
1941	June 9, 1941	3.55	413		June 7, 1947	4.45	559
1942	Oct. 5, 1941	4.35	549	1948	Feb. 28, 1948	4.40	578
	Oct. 18, 1941	4.40	563		Mar. 22, 1948	4.25	521
	Feb. 6, 1942	6.3	1,040		June 24, 1948	4.50	605
	Mar. 17, 1942	6.2	1,020		June 28, 1948	4.20	507

a Maximum stage known, from floodmarks.

Peak stages and discharges of Saline Branch at Urbana, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	July 15, 1948	4.15	493	1955	Oct. 10, 1954	3.73	400
1949	Jan. 28, 1949	6.0	970	1956	Oct. 6, 1955	6.61	993
	Feb. 15, 1949	8.0	1,410				
				1957	Apr. 27, 1957	4.62	621
1950	Dec. 22, 1949	7.1	1,220		June 28, 1957	5.71	898
	Jan. 4, 1950	7.1	1,220		July 13, 1957	5.72	898
	Jan. 10, 1950	4.55	604		July 23, 1957	4.36	556
	Jan. 14, 1950	6.3	1,040				
	Jan. 25, 1950	4.35	550	1958	Dec. 20, 1957	4.27	530
	Feb. 14, 1950	4.35	549		May 4, 1958	5.43	826
	Apr. 4, 1950	5.8	922		June 10, 1958	7.10	1,220
	July 17, 1950	5.5	850		June 17, 1958	4.14	504
					July 11, 1958	9.41	1,690
1951	Jan. 3, 1951	4.10	491		July 15, 1958	5.45	826
	Feb. 21, 1951	8.57	1,530		Aug. 2, 1958	9.87	1,790
	July 9, 1951	4.24	530		Aug. 7, 1958	8.30	1,470
1952	June 13, 1952	4.13	504	1959	Feb. 10, 1959	11.83	2,770
				1960	June 23, 1960	10.90	2,210
1953	Apr. 1, 1953	5.91	946				
	July 6, 1953	4.95	725	1961	Apr. 22, 1961	10.88	2,200
1954	Jan. 20, 1954	3.18	261				

3380. Salt Fork near Homer, Ill.
(Published as "Salt Fork Vermilion River" 1945-58)

Location.--Lat 40°03'20", long 87°57'30", in SW¼SW¼ sec.33, T.19 N., R.14 W., on right bank at downstream side of bridge on State Highway 49, 1.1 miles north of Homer.

Drainage area.--344 sq mi.

Gage.--Nonrecording prior to Mar. 1, 1946; recording Mar. 1, 1946, to May 5, 1958; nonrecording May 6 to Sept. 30, 1958; crest-stage gage thereafter. Datum of gage is 621.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown subsequent to 1958. Base for partial-duration series, 1,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939a	March 1939	b18.6	-	1950	Jan. 14, 1950	11.4	3,680
					Jan. 27, 1950	9.3	2,470
1945	Apr. 3, 1945	9.6	2,460		Feb. 14, 1950	10.2	2,920
	May 18, 1945	8.2	1,780		Apr. 5, 1950	11.4	3,680
	June 17, 1945	10.3	2,850		June 26, 1950	8.2	1,960
					Sept.23, 1950	8.0	1,820
1946	Oct. 2, 1945	9.4	2,360				
	Dec. 31, 1945	-	1,900	1951	Jan. 4, 1951	10.86	3,340
	Jan. 6, 1946	8.4	1,860		Feb. 13, 1951	8.93	2,280
	Mar. 15, 1946	8.0	1,700		Feb. 17, 1951	8.28	2,000
	June 21, 1946	12.5	4,540		Feb. 22, 1951	13.21	5,120
					Mar. 19, 1951	7.97	1,870
1947	May 1, 1947	9.7	2,670		Apr. 13, 1951	8.13	1,920
	June 3, 1947	7.8	1,750		July 10, 1951	10.94	3,340
	June 8, 1947	9.0	2,320				
				1952	Jan. 1, 1952	8.62	2,140
1948	Feb. 29, 1948	8.5	2,070		Mar. 12, 1952	7.74	1,740
	Mar. 23, 1948	8.8	2,170		Apr. 14, 1952	8.25	1,960
	Apr. 8, 1948	7.9	1,840		June 23, 1952	9.12	2,370
1949	Jan. 20, 1949	9.9	2,820	1953	Mar. 16, 1953	8.88	2,280
	Jan. 29, 1949	11.0	3,400		Apr. 2, 1953	10.55	3,140
	Feb. 16, 1949	12.0	4,140		July 7, 1953	7.89	1,820
	Feb. 23, 1949	7.8	1,750				
	May 25, 1949	7.8	1,750	1954	Apr. 12, 1954	5.61	920
1950	Dec. 23, 1949	12.2	4,300	1955	Mar. 1, 1955	5.29	740
	Jan. 4, 1950	14.36	7,210				
	Jan. 11, 1950	10.5	3,080	1956	May 29, 1956	10.45	3,020

a Probable period of occurrence.
b Maximum stage known, from mark set by employees of Illinois Division of Highways.

Peak stages and discharges of Salt Fork near Homer, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Apr. 29, 1957	9.52	2,570	1958	July 16, 1958	8.52	2,100
	June 29, 1957	8.55	2,140		Aug. 3, 1958	11.84	3,980
	July 14, 1957	8.17	1,960		Aug. 9, 1958	10.60	3,140
1958	Dec. 21, 1957	9.41	2,520	1959	Feb. 11, 1959	14.75	7,910
	June 11, 1958	12.78	4,780	1960	June 24, 1960	13.50	5,380
	June 14, 1958	9.26	2,470				
	July 12, 1958	13.19	5,120	1961	May 8, 1961	12.36	4,460

3385. Vermilion River near Catlin, Ill.

Location.--Lat 40°06'09", long 87°42'58", in SE¼SE¼ sec.16, T.19 N., R.12 W., on right bank 75 ft upstream from Butler Branch Bridge, 150 ft upstream from Butler Branch, 0.1 mile downstream from Salt Fork, and 2½ miles northwest of Catlin.

Drainage area.--959 sq mi.

Gage.--Recording. Datum of gage is 527.02 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended on basis of slope-area measurement at 36,000 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	March 1939	a24.4	-	1950	Jan. 4, 1950	19.7	19,900
					Jan. 10, 1950	13.5	7,620
1940	May 2, 1940	11.9	5,190		Jan. 16, 1950	14.9	9,190
					Jan. 26, 1950	12.9	7,020
1941	June 12, 1941	12.1	5,380		Feb. 15, 1950	14.3	8,450
					Apr. 4, 1950	14.8	9,060
1942	Feb. 7, 1942	16.3	11,200		June 26, 1950	11.6	5,980
	Mar. 18, 1942	13.6	7,220		Sept.22, 1950	11.8	6,140
	Apr. 8, 1942	12.1	5,400				
				1951	Jan. 4, 1951	13.14	7,100
1943	Dec. 29, 1942	-	9,400		Feb. 21, 1951	18.23	15,900
	Mar. 17, 1943	13.2	6,670		July 10, 1951	16.47	11,700
	May 12, 1943	13.32	6,830				
	May 18, 1943	23.35	36,000	1952	Jan. 1, 1952	10.54	5,000
	May 25, 1943	12.64	5,960		Apr. 13, 1952	10.53	5,000
					June 15, 1952	11.71	5,980
1944	Mar. 5, 1944	-	5,000		June 22, 1952	11.33	5,640
	Apr. 13, 1944	17.6	13,600				
	Apr. 24, 1944	16.4	11,400	1953	Apr. 1, 1953	11.43	5,720
					July 6, 1953	11.07	5,480
1945	Apr. 4, 1945	12.0	5,480				
	May 17, 1945	13.2	6,670	1954	Apr. 12, 1954	7.31	2,520
	June 17, 1945	13.2	6,800				
				1955	Feb. 20, 1955	b7.73	-
1946	Oct. 2, 1945	11.9	5,190		June 12, 1955	7.57	2,750
	Dec. 30, 1945	11.8	5,010				
	Feb. 14, 1946	11.1	5,480	1956	May 29, 1956	17.45	13,200
	June 13, 1946	12.1	6,320		June 22, 1956	15.27	9,650
	June 21, 1946	15.6	10,200		July 17, 1956	12.95	7,120
1947	May 1, 1947	11.9	6,140	1957	Apr. 4, 1957	10.48	5,000
	June 8, 1947	12.5	6,660		Apr. 29, 1957	13.71	7,820
					June 29, 1957	10.68	5,160
1948	Mar. 22, 1948	12.7	6,820				
	Apr. 7, 1948	11.0	5,400	1958	Dec. 20, 1957	16.02	10,700
					June 11, 1958	16.20	11,000
1949	Jan. 19, 1949	14.0	8,120		July 12, 1958	16.44	11,300
	Jan. 28, 1949	14.0	8,020		July 16, 1958	12.15	6,400
	Feb. 15, 1949	14.5	8,640		Aug. 2, 1958	14.03	8,120
	May 24, 1949	10.8	5,240		Aug. 8, 1958	10.93	5,320
1950	Dec. 23, 1949	15.4	9,600				

a Maximum stage known since 1903, from floodmarks.
b Affected by backwater from ice.

3388. North Fork Vermilion River tributary near Danville, Ill.

Location.--Lat 40°14'23", long 87°38'40", in NE¼ sec.36, T.21 N., R.12 W., at culvert on U.S. Highway 136, 5.3 miles north of Danville city limits.

Drainage area.--1.42 sq mi. Mean altitude of basin, 660 ft.

Gage.--Crest-stage gage. Altitude of gage is 605 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 16, 1956	a15.99	423	1960	June 22, 1960	15.90	568
1957	May 10, 1957	13.20	168				
1958	July 11, 1958	15.69	534	1961	June 8, 1961	a14.81	357
1959	Feb. 10, 1959	15.24	462				

a Affected by backwater from debris.

3390. Vermilion River near Danville, Ill.

Location.--Lat 40°05'53", long 87°35'37", in SE¼NW¼ sec.22, T.19 N., R.11 W., on left bank 1.5 miles upstream from Stony Creek and 2½ miles southeast of Danville.

Drainage area.--1,280 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 10, 1935; recording thereafter. At site 0.3 mile upstream at same datum prior to Jan. 10, 1935. Datum of gage is 503.33 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 37,000 cfs.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Aug. 2, 1915	14.40	8,640	1934	Mar. 31, 1934	6.2	2,010
1916	Jan. 13, 1916	15.9	a9,600	1935	Nov. 23, 1934	13.3	7,800
	Jan. 22, 1916	12.1	a6,000		Jan. 9, 1935	15.0	9,500
	Jan. 31, 1916	18.9	14,400		May 5, 1935	12.4	6,900
					May 9, 1935	11.8	6,360
1917	June 6, 1917	13.5	a8,000				
	June 10, 1917	13.7	a8,200	1936	Feb. 27, 1936	22.8	21,700
					May 3, 1936	11.8	6,270
1918	Apr. 27, 1918	11.0	a5,920				
				1937	Nov. 3, 1936	21.7	19,800
1919	Dec. 22, 1918	11.8	6,360		Jan. 1, 1937	16.1	10,600
	Mar. 16, 1919	16.0	10,500		Jan. 9, 1937	20.5	17,300
					Jan. 15, 1937	19.1	14,800
1920	Apr. 21, 1920	19.7	15,600		Feb. 21, 1937	12.1	6,630
					Apr. 6, 1937	12.9	7,400
1921	Mar. 28, 1921	13.4	a7,840		Apr. 24, 1937	14.5	9,000
1929	Apr. 1, 1929	13.3	7,800	1938	Feb. 20, 1938	11.6	6,180
	Apr. 8, 1929	13.5	8,000		Mar. 18, 1938	14.0	8,430
	May 14, 1929	12.8	7,300		Mar. 26, 1938	12.1	6,630
	May 20, 1929	13.6	8,100		Apr. 1, 1938	18.6	14,000
	July 7, 1929	15.54	10,300		Apr. 9, 1938	19.1	14,800
					July 4, 1938	20.8	17,800
1931	Sept.16, 1931	10.0	4,800				
				1939	Feb. 21, 1939	15.8	10,300
1932	Feb. 12, 1932	13.0	7,500		Mar. 13, 1939	28.6	48,700
					Apr. 17, 1939	18.8	14,300
1933	Dec. 24, 1932	12.0	6,540		June 11, 1939	15.6	10,100
	Mar. 21, 1933	14.2	8,790		July 19, 1939	14.3	8,800
	Mar. 26, 1933	11.8	6,360				
	Apr. 1, 1933	11.5	6,090	1940	Mar. 4, 1940	11.7	6,270
	May 12, 1933	22.0	20,200		May 2, 1940	13.7	8,200
	May 15, 1933	14.5	9,000		June 9, 1940	12.6	7,100
	May 21, 1933	12.2	6,720		June 12, 1940	15.1	9,600

a Based on doubtful gage-height record.

Peak stages and discharges of Vermilion River near Danville, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 12, 1941	12.1	6,720	1950	June 20, 1950	11.7	6,270
					June 26, 1950	15.7	10,200
1942	Nov. 7, 1941	12.3	6,550		Sept.22, 1950	14.7	9,200
	Feb. 7, 1942	20.7	17,400				
	Feb. 17, 1942	11.4	6,000	1951	Jan. 4, 1951	16.95	12,400
	Mar. 9, 1942	12.0	6,310		Feb. 22, 1951	23.41	22,800
	Mar. 18, 1942	14.9	9,400		Mar. 19, 1951	11.15	6,080
	Apr. 10, 1942	14.0	8,500		July 10, 1951	19.87	16,500
1943	Dec. 29, 1942	16.5	10,700	1952	Nov. 14, 1951	11.05	6,000
	Mar. 17, 1943	16.1	10,200		Jan. 1, 1952	12.68	7,530
	May 12, 1943	15.8	10,300		Mar. 11, 1952	11.21	6,180
	May 19, 1943	27.09	38,100		Apr. 13, 1952	12.76	7,620
	May 25, 1943	14.6	9,090		May 26, 1952	12.82	7,620
	Aug. 4, 1943	13.9	8,300		June 15, 1952	21.18	18,600
					June 22, 1952	12.50	7,350
1944	Mar. 5, 1944	11.8	6,270				
	Apr. 13, 1944	20.6	17,500	1953	Mar. 15, 1953	12.12	6,900
	Apr. 24, 1944	19.5	15,500		Apr. 1, 1953	12.15	7,080
					July 6, 1953	16.37	11,600
1945	Mar. 31, 1945	13.5	8,000				
	Apr. 5, 1945	13.5	8,000	1954	Apr. 11, 1954	8.10	3,530
	May 17, 1945	16.0	10,500				
	June 13, 1945	12.3	6,810	1955	June 11, 1955	8.25	3,610
	June 17, 1945	15.2	9,700				
				1956	Oct. 7, 1955	11.60	6,540
1946	Oct. 2, 1945	14.3	8,900		May 29, 1956	19.98	16,600
	Dec. 30, 1945	13.2	7,700		June 22, 1956	14.26	9,130
	Jan. 6, 1946	11.8	6,360		July 16, 1956	14.00	8,800
	Feb. 14, 1946	13.5	8,000				
	June 13, 1946	15.0	9,500	1957	Apr. 4, 1957	11.81	6,720
	June 21, 1946	20.1	16,600		Apr. 30, 1957	14.58	9,460
					June 29, 1957	12.70	7,530
1947	May 1, 1947	15.5	10,000		July 15, 1957	12.37	7,260
	June 3, 1947	12.2	6,720				
	June 8, 1947	15.5	9,900	1958	Dec. 20, 1957	19.14	15,300
					June 11, 1958	18.91	15,100
1948	Feb. 29, 1948	12.3	6,900		June 14, 1958	17.67	13,400
	Mar. 22, 1948	15.2	9,900		July 12, 1958	18.52	14,500
	Mar. 27, 1948	12.5	7,100		July 16, 1958	14.98	9,900
	Apr. 7, 1948	12.4	7,100		July 20, 1958	12.26	7,170
					Aug. 3, 1958	14.23	9,020
1949	Jan. 19, 1949	17.1	11,600		Aug. 8, 1958	13.31	8,100
	Jan. 28, 1949	16.4	10,900				
	Feb. 16, 1949	17.9	12,900	1959	Feb. 11, 1959	26.95	37,500
	May 24, 1949	12.8	7,300		Mar. 15, 1959	13.17	8,000
	July 21, 1949	12.5	7,000		Apr. 27, 1959	11.15	6,180
1950	Dec. 23, 1949	18.6	14,000	1960	Feb. 11, 1960	12.05	6,900
	Jan. 5, 1950	24.2	24,400		Mar. 29, 1960	13.17	8,000
	Jan. 10, 1950	16.0	10,500		June 24, 1960	19.42	15,800
	Jan. 16, 1950	17.7	12,600				
	Jan. 27, 1950	15.6	10,100	1961	Apr. 22, 1961	17.26	12,800
	Feb. 15, 1950	16.7	11,200		Apr. 25, 1961	17.00	12,400
	Apr. 5, 1950	18.5	13,800		May 10, 1961	16.33	11,600

3395. Sugar Creek at Crawfordsville, Ind.

Location.--Lat 40°02'56", long 86°53'58", in NW¼ sec.32, T.19 N., R.4 W., on left bank 327 ft upstream from Crawfordsville Electric Light & Power Co.'s dam, half a mile upstream from bridge on State Highway 43, and 1 mile downstream from Walnut Fork Creek.

Drainage area.--509 sq mi.

Gage.--Recording. Datum of gage is 657.77 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs and by contracted-opening measurement at 24,000 cfs.

Bankfull stage.--8 ft.

Remarks.--Figures in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 4,000 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges of Sugar Creek at Crawfordsville, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a17.3	b36,000
1927	-	a14.1	(24,300)
1937	January 1937	ab8.2	(8,720)
1939	Jan. 30, 1939	5.37	4,660
	Feb. 20, 1939	4.92	4,020
	Mar. 12, 1939	12.07	17,600
	Apr. 17, 1939	9.20	10,300
	July 18, 1939	8.65	9,360
1940	Apr. 18, 1940	4.62	3,660
1941	June 12, 1941	2.73	903
1942	Feb. 7, 1942	5.72	5,050
	June 13, 1942	5.57	4,920
1943	May 11, 1943	11.21	15,200
	May 18, 1943	14.02	24,000
1944	Apr. 11, 1944	9.35	11,400
	Apr. 23, 1944	8.18	9,300
1945	Mar. 31, 1945	8.11	9,130
	May 17, 1945	8.28	9,470
	June 16, 1945	6.21	6,260
1946	Oct. 1, 1945	4.50	4,010
	Dec. 30, 1945	5.30	5,020
	Feb. 14, 1946	8.05	8,970
	May 18, 1946	6.01	5,980
	June 19, 1946	7.43	8,010
1947	Jan. 30, 1947	5.82	5,700
	Apr. 25, 1947	4.76	4,390
	Apr. 30, 1947	7.15	7,710
	June 7, 1947	4.98	4,630
1948	Feb. 28, 1948	5.15	4,890
	Mar. 23, 1948	5.90	5,840
	Mar. 27, 1948	8.43	9,640
	Apr. 6, 1948	11.14	14,800
	Apr. 13, 1948	7.43	8,010
1949	Dec. 29, 1948	4.77	4,390
	Jan. 5, 1949	8.30	9,470
	Jan. 19, 1949	10.66	13,900
	Jan. 28, 1949	6.47	6,680
	Feb. 15, 1949	8.71	10,200
1950	Jan. 4, 1950	13.12	20,800
	Jan. 10, 1950	8.46	9,810
	Jan. 15, 1950	7.75	8,650
	Jan. 26, 1950	7.37	8,010
	Feb. 9, 1950	4.85	4,390
	Feb. 14, 1950	8.80	10,300
	Mar. 28, 1950	6.10	6,120
	Apr. 4, 1950	7.94	8,810
1950	June 17, 1950	4.62	4,140
	June 25, 1950	7.70	8,490
	Sept. 1, 1950	12.35	16,700
	Sept. 22, 1950	4.48	4,010
1951	Nov. 20, 1950	5.45	5,150
	Dec. 3, 1950	5.21	4,890
	Jan. 3, 1951	5.42	5,150
	Feb. 21, 1951	8.32	9,470
	July 9, 1951	5.72	5,790
1952	Jan. 27, 1952	7.17	7,710
	Feb. 4, 1952	5.15	5,170
	Mar. 11, 1952	5.55	5,670
	Apr. 13, 1952	7.30	7,860
	May 24, 1952	5.20	5,170
	June 14, 1952	5.13	5,040
	June 22, 1952	5.08	5,040
1953	Mar. 4, 1953	7.30	7,860
	Mar. 18, 1953	4.50	4,230
	May 25, 1953	4.64	4,380
1954	May 2, 1954	3.74	2,730
1955	Jan. 6, 1955	6.44	6,480
1956	Nov. 16, 1955	4.61	4,170
	Feb. 18, 1956	4.65	4,170
	Feb. 25, 1956	5.13	4,820
	May 28, 1956	12.33	18,200
1957	Apr. 4, 1957	7.75	8,580
	May 20, 1957	5.22	4,960
	June 13, 1957	5.20	4,960
	June 28, 1957	14.48	26,300
1958	Dec. 20, 1957	8.34	9,380
	Dec. 26, 1957	5.37	5,220
	June 11, 1958	10.44	13,300
	June 14, 1958	10.23	12,900
	July 12, 1958	4.65	4,060
	Aug. 3, 1958	11.24	15,100
	Aug. 15, 1958	4.67	4,060
1959	Nov. 17, 1958	5.32	5,090
	Nov. 26, 1958	5.25	4,960
	Jan. 21, 1959	9.52	11,500
	Feb. 10, 1959	10.97	14,600
	Apr. 28, 1959	4.55	4,060
1960	Feb. 10, 1960	4.88	4,530
	June 23, 1960	6.95	7,300
1961	Mar. 13, 1961	5.25	5,350
	Apr. 22, 1961	7.78	8,580
	Apr. 25, 1961	7.29	7,780
	May 9, 1961	5.27	5,090
	June 9, 1961	7.21	7,620

a From information by local resident.
b About.

3400. Sugar Creek near Byron, Ind.

Location.--Lat 39°55'52", long 87°07'33", in SW¼ sec.8, T.17N., R.6W., on right bank 30 ft upstream from highway bridge, 2½ miles northwest of Byron, and 5 miles downstream from Indian Creek.

Drainage area.--668 sq mi.

Gage.--Nonrecording prior to Nov. 18, 1941; recording thereafter. Datum of gage is 538.92 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 6,500 cfs.

Peak stages and discharges of Sugar Creek near Byron, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 12, 1941	4.90	1,180	1950	Sept. 20, 1950	13.30	11,700
1942	Feb. 6, 1942	10.64	8,080	1951	Nov. 20, 1950	10.46	7,350
	June 14, 1942	11.63	9,930		Dec. 3, 1950	10.37	7,210
					Jan. 3, 1951	10.16	6,930
1943	May 11, 1943	16.00	18,400		Feb. 21, 1951	13.97	13,100
	May 18, 1943	20.68	28,700				
				1952	Jan. 26, 1952	12.08	9,760
1944	Apr. 11, 1944	14.04	14,200		Apr. 13, 1952	12.82	10,900
	Apr. 23, 1944	12.15	10,600		June 22, 1952	10.32	7,070
1945	Mar. 31, 1945	13.63	13,400	1953	Mar. 4, 1953	13.39	11,900
	May 17, 1945	12.06	10,400				
	June 17, 1945	12.14	10,400	1954	May 2, 1954	8.38	4,630
1946	Feb. 14, 1946	12.72	11,600	1955	Jan. 6, 1955	10.73	7,210
	May 18, 1946	9.92	6,790				
	June 19, 1946	14.16	14,600	1956	May 29, 1956	17.34	20,600
1947	Apr. 30, 1947	10.96	8,500	1957	Apr. 4, 1957	12.44	9,700
					June 28, 1957	22.98	32,200
1948	Mar. 23, 1948	11.52	9,350				
	Mar. 27, 1948	13.41	12,900	1958	Dec. 20, 1957	14.34	13,700
	Apr. 6, 1948	15.41	16,800		June 11, 1958	14.59	14,300
	Apr. 13, 1948	12.62	11,300		June 14, 1958	13.99	13,100
					Aug. 3, 1958	14.92	15,000
1949	Jan. 5, 1949	12.90	11,000				
	Jan. 19, 1949	14.71	14,500	1959	Nov. 17, 1958	10.35	7,210
	Jan. 28, 1949	10.80	7,770		Jan. 21, 1959	14.55	14,300
	Feb. 15, 1949	14.11	13,300		Feb. 10, 1959	16.40	18,500
1950	Jan. 4, 1950	19.10	24,900	1960	June 23, 1960	13.82	12,700
	Jan. 10, 1950	13.38	11,900		Aug. 3, 1960	11.18	8,370
	Jan. 15, 1950	12.93	11,000				
	Jan. 26, 1950	12.40	10,200	1961	Mar. 13, 1961	10.13	6,790
	Feb. 14, 1950	13.54	12,100		Apr. 22, 1961	12.25	9,920
	Mar. 28, 1950	10.71	7,630		Apr. 25, 1961	13.49	12,100
	Apr. 4, 1950	12.28	10,100		May 9, 1961	10.20	6,930
	June 25, 1950	11.28	8,520		June 8, 1961	13.01	11,200
	Sept. 1, 1950	17.38	20,900				

3405. Wabash River at Montezuma, Ind.

Location.--Lat 39°47'33", long 87°22'26", in sec.35, T.16 N., R.9 W., in downstream side of first pier from left bank of bridge on U.S. Highway 36 at Montezuma, 2.0 miles upstream from Raccoon Creek, 4.9 miles downstream from Sugar Creek, and at mile 240.

Drainage area.--11,100 sq mi, approximately.

Gage.--Nonrecording prior to July 13, 1950; recording thereafter. Datum of gage is 457.75 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1927, at datum 8.0 ft lower; listed gage heights corrected to present datum.

Stage-discharge relation.--Defined by current-meter measurements. Levee breaks in the past have affected the rating at extremely high stages.

Bankfull stage.--14 ft (U.S. Weather Bureau).

Historical data.--Flood of Mar. 27, 1913, is maximum stage known. Flood of May 20, 1943, was the highest since that of 1913 according to information by gage observer.

Remarks.--Gage heights 1925-27 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 30,000 cfs. Only annual peak shown for 1913.

Peak stages and discharges of Wabash River at Montezuma, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 27, 1913	a34.0	b230,000
1925	Dec. 21, 1924	22.62	(59,900)
	Mar. 17, 1925	23.98	(69,200)
1926	Nov. 16, 1925	15.62	(31,000)
	Feb. 27, 1926	16.36	(33,400)
	Apr. 11, 1926	24.04	(69,200)
	Sept.10, 1926	24.78	(77,600)
1927	Oct. 6, 1926	23.84	(67,500)
	Feb. 4, 1927	21.80	(55,500)
	Mar. 24, 1927	24.16	(71,200)
	Apr. 6, 1927	20.96	(51,500)
	Apr. 23, 1927	19.30	(44,200)
	May 22, 1927	23.70	(66,800)
1928	Dec. 4, 1927	24.85	74,800
	Feb. 8, 1928	16.4	33,400
	Feb. 18, 1928	16.4	33,400
	July 6, 1928	17.8	38,300
1929	Jan. 25, 1929	19.9	46,600
	Apr. 5, 1929	17.9	38,600
	Apr. 11, 1929	17.5	37,200
	May 19, 1929	22.35	58,700
	June 14, 1929	15.5	30,700
	July 8, 1929	17.9	38,600
1930	Dec. 19, 1929	19.1	43,400
	Jan. 16, 1930	27.0	100,000
	Feb. 28, 1930	18.0	41,800
	Apr. 23, 1930	15.4	30,400
1931	Sept.18, 1931	7.65	10,900
1932	Jan. 22, 1932	19.48	43,300
1933	Dec. 29, 1932	17.5	35,800
	Mar. 24, 1933	23.7	65,900
	Apr. 21, 1933	17.3	35,100
	May 14, 1933	28.19	101,000
1934	Apr. 2, 1934	12.52	21,800
1935	May 7, 1935	21.77	52,900
1936	Feb. 29, 1936	27.60	95,800
	May 6, 1936	18.1	36,400
1937	Nov. 6, 1936	22.2	55,300
	Jan. 4, 1937	17.7	35,100
	Jan. 16, 1937	24.15	68,700
	Feb. 24, 1937	16.4	31,200
	Apr. 9, 1937	19.2	40,400
	May 1, 1937	17.6	34,800
1938	Dec. 18, 1937	16.2	30,700
	Feb. 24, 1938	17.9	35,700
	Mar. 21, 1938	20.8	47,600
	Mar. 27, 1938	17.0	33,000
	Apr. 12, 1938	24.62	71,900
	July 4, 1938	24.3	69,500
1939	Feb. 24, 1939	19.7	41,200
	Mar. 6, 1939	18.0	33,900
	Mar. 15, 1939	27.52	97,500
	Apr. 20, 1939	24.8	73,500
	July 19, 1939	17.2	31,200
1940	Mar. 7, 1940	15.22	25,900
1941	June 16, 1941	10.36	15,500
1942	Feb. 10, 1942	22.41	53,600
	Mar. 21, 1942	18.6	34,600
	Apr. 14, 1942	20.1	41,100
1943	Jan. 1, 1943	18.9	35,800
	Mar. 22, 1943	18.7	35,000
	May 20, 1943	32.83	184,000
1944	Apr. 15, 1944	26.17	82,800
	Apr. 25, 1944	22.7	54,400
1945	Apr. 5, 1945	22.5	52,000
	May 20, 1945	22.62	53,800
	June 18, 1945	18.8	35,400
1946	Oct. 6, 1945	17.9	32,100
	Jan. 8, 1946	18.5	34,200
	Feb. 15, 1946	19.04	36,200
	Mar. 21, 1946	18.10	32,800
	June 20, 1946	18.2	33,100
1947	May 4, 1947	21.3	46,200
	June 8, 1947	22.82	52,700
1948	Mar. 3, 1948	18.3	36,300
	Mar. 28, 1948	24.18	59,000
	Apr. 8, 1948	22.3	48,800
1949	Jan. 11, 1949	20.1	41,000
	Jan. 23, 1949	24.57	64,400
	Feb. 19, 1949	23.9	59,800
1950	Dec. 27, 1949	21.2	46,000
	Jan. 7, 1950	29.57	110,000
	Jan. 16, 1950	29.1	107,000
	Jan. 29, 1950	24.4	65,000
	Feb. 18, 1950	25.7	75,700
	Apr. 7, 1950	24.4	65,000
	Apr. 28, 1950	18.5	35,100
	June 26, 1950	17.2	31,200
	Sept. 3, 1950	17.03	30,800
	Sept.23, 1950	18.43	34,800
1951	Dec. 9, 1950	19.64	39,000
	Jan. 7, 1951	19.32	37,800
	Feb. 22, 1951	27.06	89,000
	Apr. 15, 1951	19.07	37,000
	July 12, 1951	20.48	42,600
1952	Jan. 5, 1952	18.60	35,400
	Feb. 8, 1952	20.31	41,800
	Mar. 16, 1952	20.62	43,000
	Apr. 17, 1952	18.68	35,700
	Apr. 28, 1952	20.00	40,600
	May 29, 1952	20.29	41,800
	June 16, 1952	20.66	43,500
	June 23, 1952	18.70	35,700
1953	Mar. 9, 1953	17.25	31,200
	Mar. 19, 1953	19.26	37,800
	July 7, 1953	16.91	30,500
1954	Apr. 14, 1954	11.65	18,800
1955	Mar. 8, 1955	16.89	30,500
1956	May 30, 1956	20.04	37,600
1957	Apr. 11, 1957	24.03	69,200
	Apr. 24, 1957	21.04	41,700
	May 23, 1957	c17.00	30,400
	June 29, 1957	26.11	77,100
1958	Dec. 23, 1957	24.12	59,700
	June 15, 1958	32.06	132,000
	July 19, 1958	22.00	46,600
	Aug. 4, 1958	19.65	36,400
1959	Feb. 14, 1959	29.31	105,000
	May 2, 1959	24.88	76,700
1960	Feb. 15, 1960	19.00	38,400
	Apr. 2, 1960	20.75	44,800
	June 24, 1960	22.64	56,600
1961	Mar. 19, 1961	18.03	35,400
	Apr. 26, 1961	25.65	86,900
	May 10, 1961	21.04	45,700

a From floodmarks.
b Estimated.
c Occurred on May 24, 1957.

3409. Raccoon Creek at Ferndale, Ind.

Location.--Lat 39°41'44", long 87°05'01", in SW¼ sec.33, T.15 N., R.6 W., on right bank 1.2 miles southwest of Ferndale, 1.7 miles northeast of Mansfield, 2.0 miles upstream from Rocky Fork Creek and 2.4 miles downstream from flood-control dam.

Drainage area.--215 sq mi.

Gage.--Recording. Datum of gage is 582.36 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs and extended on basis of records for station at Mansfield.

Remarks.--Flow regulated by Mansfield Reservoir (capacity, 132,840 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 28, 1957	19.87	40,500	1960	June 23, 1960	9.04	2,900
1958	Dec. 20, 1957	12.91	6,640				
1959	Feb. 11, 1959	a8.58	2,250	1961	May 8, 1961	7.15	1,940

a Occurred Jan. 22, 1959; backwater from ice.

3410. Raccoon Creek at Mansfield, Ind.

Location.--Lat 39°41', long 87°07', in sec.8, T.14 N., R.6 W., on left bank at downstream side of covered bridge at Mansfield, three-quarters of a mile downstream from Rocky Fork.

Drainage area.--240 sq mi.

Gage.--Nonrecording prior to Nov. 6, 1941; recording thereafter. Prior to Sept. 26, 1939, at site above milldam 350 ft upstream at datum 13.00 ft higher. Datum of gage is 564.71 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--14 ft.

Historical data.--Flood of June 28, 1957, is maximum known, exceeding both the 1875 and 1913 floods, from information by local residents.

Remarks.--Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	August 1875	a21.2	-	1947	June 8, 1947	10.58	3,740
1940	Apr. 17, 1940	8.2	2,350	1948	Mar. 24, 1948	12.85	5,450
					Mar. 27, 1948	12.2	4,930
1941	June 3, 1941	14.4	7,130		Apr. 7, 1948	12.6	5,010
					Apr. 13, 1948	10.38	3,620
1942	Feb. 7, 1942	11.44	4,300				
	June 14, 1942	14.31	7,050	1949	Jan. 5, 1949	11.60	4,450
	July 10, 1942	11.89	4,690		Jan. 19, 1949	15.15	8,270
					Feb. 15, 1949	12.96	5,630
1943	May 11, 1943	16.32	10,100				
	May 18, 1943	19.5	20,000	1950	Jan. 4, 1950	18.20	15,000
					Jan. 10, 1950	11.34	4,530
1944	Mar. 4, 1944	10.87	3,950		Jan. 13, 1950	10.66	3,800
	Apr. 11, 1944	13.75	6,460		Jan. 15, 1950	14.46	7,630
	Apr. 23, 1944	14.78	7,710		Jan. 26, 1950	13.65	6,710
					Feb. 14, 1950	12.51	5,550
1945	Apr. 1, 1945	14.46	7,310		Apr. 4, 1950	12.68	5,750
	May 17, 1945	13.43	6,030		Sept. 2, 1950	15.63	9,910
	June 17, 1945	13.56	6,240		Sept.21, 1950	13.79	6,930
1946	May 18, 1946	12.48	5,180	1951	Feb. 20, 1951	11.70	4,510
					July 9, 1951	11.72	4,510
1947	Jan. 30, 1947	b12.20	4,930		July 17, 1951	10.57	3,740
	June 7, 1947	11.07	4,090				

a From information by local resident, present datum.
b From floodmark.

Peak stages and discharges of Raccoon Creek at Mansfield, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 27, 1952	11.35	4,280	1956	Apr. 3, 1956	10.58	4,210
	Mar. 11, 1952	10.59	3,740		June 23, 1956	15.23	8,460
	Apr. 13, 1952	12.23	4,910				
	June 22, 1952	14.70	7,510	1957	Apr. 3, 1957	12.27	5,390
	June 27, 1952	10.97	4,000		May 11, 1957	12.32	5,390
					May 20, 1957	9.85	3,730
1953	Mar. 3, 1953	12.53	5,160		June 18, 1957	12.51	5,550
					June 28, 1957	21.54	38,400
1954	May 2, 1954	5.35	1,020				
				1958	Dec. 20, 1957	14.63	7,440
1955	Mar. 1, 1955	8.68	2,620		June 11, 1958	15.20	8,270
					July 31, 1958	15.05	7,990
1956	Feb. 25, 1956	14.11	7,120				

3412. Little Raccoon Creek near Catlin, Ind.

Location.--Lat 39°40'38", long 87°13'38", in NW¼ sec.7, T.14 N., R.7 W., on left bank at downstream side of county road bridge, 300 ft downstream from unnamed tributary from left bank, 0.4 mile upstream from Sunderland Branch, 1.2 miles southeast of Catlin, 2.4 miles upstream from Weisner Creek, and 3.8 miles upstream from mouth.

Drainage area.--133 sq mi.

Gage.--Recording. Datum of gage is 515.5 ft above mean sea level, datum of 1929 (levels from damaged bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and by combination contracted-opening, culvert, and flow-over-road measurement at 53,400 cfs.

Remarks.--Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 28, 1957	18.27	53,400	1960	Feb. 10, 1960	11.02	2,740
					June 23, 1960	14.00	9,300
1958	Dec. 20, 1957	13.85	5,880				
				1961	Mar. 13, 1961	10.50	2,270
1959	Nov. 17, 1958	9.78	2,060		Apr. 25, 1961	12.51	3,250
	Jan. 21, 1959	13.65	5,160		May 8, 1961	13.98	6,600
	Feb. 10, 1959	12.23	3,010		June 10, 1961	11.61	2,650

3413. Raccoon Creek at Coxville, Ind.

Location.--Lat 39°39'09", long 87°17'37", in SW¼ sec.15, T.14 N., R.8 W., on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mile upstream from Rock Run, 1.5 miles downstream from Little Raccoon Creek, and 2.1 miles northwest of Rosedale.

Drainage area.--440 sq mi.

Gage.--Recording. Datum of gage is 494.00 ft above mean sea level, datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 35,000 cfs and by slope-area measurement at 108,000 cfs.

Remarks.--Flow regulated on 216 sq mi by Mansfield Reservoir (capacity, 132,840 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 28, 1957	21.23	108,000	1960	June 23, 1960	14.99	15,500
1958	Dec. 20, 1957	14.98	15,800				
1959	Jan. 21, 1959	14.05	10,500	1961	May 8, 1961	15.50	19,000

3415. Wabash River at Terre Haute, Ind.

Location.--Lat 39°28'00", long 87°25'08", in NW¼ sec.21, T.12 N., R.9 W., on left bank at upstream side of Wabash Avenue Bridge at Terre Haute, 2.2 miles upstream from Sugar Creek, 4 miles downstream from Lost Creek, and at mile 214.4.

Drainage area.--12,200 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 28, 1928; recording thereafter. June 1, 1891, to June 30, 1897, Dec. 1, 1904, to Feb. 24, 1905, and July 21, 1906, to Sept. 30, 1927, at site 3,300 ft upstream at datum 445.78 ft above mean sea level, datum of 1929. June 1, 1901, to Nov. 30, 1904, at site 3,400 ft upstream at datum 3.0 ft higher than present datum. Feb. 25, 1905, to July 20, 1906, at site 2,600 ft upstream at datum 2.2 ft higher than present datum. Datum of present gage is 442.90 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 190,000 cfs at present site.

Bankfull stage.--17 ft at present site; 14 ft at U.S. Weather Bureau gage, 3,300 ft upstream.

Historical data.--According to the 1944 Wabash River Report of the Corps of Engineers, it is known that there were large floods in January 1847, June 1856, and September 1866. Flood of Mar. 27, 1913, is the maximum known since at least 1828, and is followed in sequence by the floods of 1943 and 1828.

Remarks.--Gage heights 1892-97, 1907-27, furnished by U.S. Weather Bureau. Gage heights 1902 and 1904 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values; those prior to 1905 considered accurate within 30 percent and those for 1907-27 considered accurate within 20 percent. Base for partial-duration series, 32,000 cfs. Only annual peaks are shown prior to 1892.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1828	-	a28.3	(159,000)
1858	April 1858	b26.6	(138,000)
1867	Feb. 21, 1867	b25.3	(123,000)
1875	Aug. 3, 1875	b26.7	(139,000)
1883	Feb. 18, 1883	b27.7	(151,000)
1892	Apr. 9, 1892	21.2	(76,500)
	May 8, 1892	18.7	(55,600)
	May 21, 1892	19.9	(64,700)
	June 5, 1892	20.6	(70,900)
1893	Feb. 19, 1893	19.6	(62,300)
	Mar. 14, 1893	15.3	(34,100)
	Mar. 27, 1893	17.7	(48,300)
	May 3, 1893	21.4	(78,500)
1894	Mar. 9, 1894	13.5	(27,000)
1895	Mar. 2, 1895	6.8	(12,700)
1896	Aug. 1, 1896	17.2	(44,900)
1897	Feb. 23, 1897	16.1	(38,200)
	Mar. 11, 1897	18.4	(53,300)
1902	July 4, 1902	19.2	(59,300)
1903	Dec. 26, 1902	16.0	(37,600)
	Feb. 8, 1903	15.9	(37,100)
	Feb. 16, 1903	17.4	(46,200)
	Mar. 6, 1903	18.8	(56,300)
	Apr. 17, 1903	20.1	(66,400)
1904	Jan. 26, 1904	20.6	(70,900)
	Feb. 12, 1904	17.4	(46,200)
	Mar. 5, 1904	17.8	(49,000)
	Mar. 27, 1904	25.7	(127,000)
1905	Mar. 5, 1905	15.1	39,500
	May 17, 1905	17.0	48,100
1906	Jan. 26, 1906	17.4	49,800
	Apr. 1, 1906	19.8	61,200
	Apr. 13, 1906	15.4	41,200
1907	Jan. 10, 1907	17.6	(47,600)
	Jan. 23, 1907	24.7	(115,000)
	Mar. 19, 1907	17.3	(45,600)
1908	Jan. 3, 1908	17.3	(45,600)
	Feb. 10, 1908	18.9	(57,000)
	Mar. 10, 1908	23.3	(98,600)
	Mar. 25, 1908	16.9	(43,000)
	May 10, 1908	20.0	(65,500)
1909	Feb. 28, 1909	17.9	(49,700)
	Apr. 12, 1909	15.1	(33,200)
	May 5, 1909	15.2	(33,600)
	June 14, 1909	15.2	(33,600)
1910	Jan. 22, 1910	19.4	(60,800)
	Mar. 5, 1910	16.6	(41,100)
1911	Feb. 1, 1911	13.8	(28,100)
1912	Mar. 3, 1912	15.1	(33,200)
	Mar. 22, 1912	19.3	(60,000)
	Apr. 3, 1912	19.9	(64,700)
1913	Jan. 25, 1913	21.2	(76,500)
	Mar. 27, 1913	c31.1	d245,000
	Apr. 16, 1913	16.4	(39,900)
1914	Mar. 19, 1914	15.7	(36,000)
	Apr. 3, 1914	15.6	(35,500)
	Apr. 12, 1914	17.1	(44,300)
1915	July 9, 1915	14.8	(31,900)

a From information by local residents. b At site 3,300 ft upstream, by U.S. Weather Bureau. c Present site and datum. d Estimated.

Peak stages and discharges of Wabash River at Terre Haute, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 9, 1916	18.5	(54,000)
	Feb. 2, 1916	23.0	(95,200)
1917	Mar. 19, 1917	15.4	(34,500)
	June 11, 1917	15.2	(33,600)
1918	Feb. 17, 1918	19.5	(61,600)
1919	Dec. 27, 1918	19.0	(57,800)
	Mar. 21, 1919	22.4	(88,600)
1920	Apr. 24, 1920	21.5	(79,500)
1921	Apr. 2, 1921	17.5	(46,900)
1922	Nov. 24, 1921	18.91	(57,000)
	Mar. 16, 1922	19.2	(59,300)
	Apr. 4, 1922	21.5	(79,500)
	Apr. 19, 1922	24.4	(112,000)
1923	Mar. 20, 1923	19.7	(63,100)
	May 21, 1923	17.2	(44,900)
1924	Dec. 19, 1923	16.8	(42,400)
	Feb. 4, 1924	17.2	(45,600)
	Apr. 2, 1924	20.0	(65,500)
	June 14, 1924	17.4	(46,200)
1925	Dec. 24, 1924	19.4	(60,800)
	Mar. 19, 1925	20.9	(73,600)
1926	Mar. 2, 1926	15.5	(35,000)
	Apr. 12, 1926	20.4	(69,100)
	Sept.12, 1926	20.7	(71,800)
1927	Oct. 6, 1926	20.7	(71,800)
	Feb. 6, 1927	18.6	(54,800)
	Mar. 25, 1927	20.7	(71,800)
	Apr. 7, 1927	17.7	(48,300)
	Apr. 24, 1927	16.5	(40,500)
	May 30, 1927	20.9	(73,600)
1928	Dec. 5, 1927	23.9	78,600
	Feb. 9, 1928	17.7	34,600
	Feb. 20, 1928	17.6	34,100
	July 7, 1928	17.6	34,100
1929	Jan. 26, 1929	19.60	44,900
	Apr. 6, 1929	17.70	34,600
	Apr. 11, 1929	18.40	38,000
	May 20, 1929	21.63	58,800
	July 10, 1929	18.00	36,000
1930	Dec. 20, 1929	19.4	42,700
	Jan. 16, 1930	25.63	104,000
	Mar. 2, 1930	19.03	40,300
1931	Sept.16, 1931	12.94	19,400
1932	Jan. 23, 1932	20.08	47,200
1933	Dec. 31, 1932	18.32	36,500
	Mar. 25, 1933	22.30	64,000
	Apr. 22, 1933	17.83	34,000
	May 15, 1933	26.53	106,000
1934	Apr. 2, 1934	13.47	20,700
1935	May 8, 1935	20.70	49,400
1936	Mar. 1, 1936	25.56	95,600
	May 7, 1936	17.92	32,800
1937	Nov. 8, 1936	20.78	50,200
	Jan. 16, 1937	23.53	74,400
	Apr. 11, 1937	19.06	38,800
	May 3, 1937	18.57	36,200
1938	Feb. 25, 1938	18.30	34,700
	Mar. 22, 1938	20.08	45,100
	Apr. 13, 1938	23.75	77,400
1938	July 4, 1938	23.05	69,400
1939	Feb. 25, 1939	19.08	38,800
	Mar. 16, 1939	26.48	107,000
	Apr. 20, 1939	24.14	80,400
1940	Mar. 8, 1940	15.88	26,200
1941	June 16, 1941	11.70	16,700
1942	Feb. 11, 1942	21.07	50,900
	Feb. 19, 1942	18.0	33,400
	Mar. 22, 1942	18.54	35,400
	Apr. 15, 1942	19.52	40,200
1943	Jan. 3, 1943	18.58	38,500
	Mar. 24, 1943	18.58	38,500
	May 20, 1943	30.50	189,000
1944	Apr. 16, 1944	24.12	83,000
	Apr. 26, 1944	21.59	57,900
1945	Apr. 7, 1945	20.97	53,100
	May 21, 1945	20.92	52,300
	June 19, 1945	18.72	38,400
1946	Oct. 7, 1945	17.99	34,900
	Jan. 9, 1946	18.79	38,900
	Feb. 19, 1946	18.83	38,900
	Mar. 22, 1946	17.48	32,400
	June 21, 1946	17.66	33,400
1947	May 5, 1947	20.12	46,700
	June 9, 1947	21.24	54,700
1948	Mar. 4, 1948	18.00	35,000
	Mar. 28, 1948	23.32	72,500
	Apr. 9, 1948	20.97	49,500
	May 17, 1948	17.82	32,200
1949	Jan. 12, 1949	19.67	42,000
	Jan. 24, 1949	22.87	66,900
	Feb. 20, 1949	22.12	60,400
1950	Dec. 27, 1949	20.43	46,900
	Jan. 8, 1950	27.13	115,000
	Jan. 16, 1950	27.65	122,000
	Jan. 30, 1950	23.11	72,100
	Feb. 19, 1950	24.23	84,200
	Apr. 8, 1950	22.92	70,000
	Apr. 29, 1950	18.46	36,000
	Sept.24, 1950	18.58	36,500
1951	Dec. 11, 1950	19.56	42,400
	Jan. 8, 1951	19.1	39,400
	Feb. 23, 1951	24.90	91,900
	Apr. 17, 1951	18.87	38,200
	July 13, 1951	19.79	43,700
1952	Jan. 6, 1952	18.56	36,500
	Feb. 2, 1952	19.83	43,700
	Mar. 17, 1952	19.8	43,700
	Apr. 18, 1952	18.8	37,600
	Apr. 29, 1952	19.3	40,600
	May 30, 1952	19.3	40,600
	June 18, 1952	19.5	41,800
	June 24, 1952	18.8	37,600
1953	Mar. 10, 1953	17.8	32,600
	Mar. 20, 1953	18.97	38,800
1954	Apr. 14, 1954	12.32	18,900
1955	Jan. 11, 1955	16.96	31,100
	Mar. 9, 1955	e17.29	-
1956	Feb. 27, 1956	18.04	35,100
	June 1, 1956	19.03	39,100
1957	Apr. 12, 1957	21.98	53,900
	Apr. 25, 1957	19.92	40,500

e Result of logjam.

Peak stages and discharges of Wabash River at Terre Haute, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	May 24, 1957	18.08	32,700	1959	May 3, 1959	22.99	69,200
	June 30, 1957	25.04	82,000				
				1960	Feb. 15, 1960	19.30	38,300
1958	Dec. 24, 1957	22.15	59,100		Apr. 3, 1960	20.07	43,400
	June 16, 1958	29.25	f125,000		June 25, 1960	21.26	47,900
	July 20, 1958	20.74	44,300				
	Aug. 5, 1958	19.32	36,600	1961	Mar. 24, 1961	18.60	37,200
					Apr. 28, 1961	23.54	74,200
1959	Feb. 15, 1959	26.90	109,000		May 9, 1961	21.92	59,400
	Apr. 7, 1959	17.57	32,700				

f Daily mean discharge.

3419. Raccoon Creek tributary near Annapolis, Ill.

Location.--Lat 39°08'36", long 87°41'10", in NE¼NE¼ sec.13, T.8 N., R.12 W., at culvert on Annapolis road, 6.6 miles east of Annapolis.

Drainage area.--0.036 sq mi. Mean altitude of basin, 508 ft.

Gage.--Crest-stage gage. Altitude of gage is 490 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Nov. 16, 1955	16.49	21	1960	June 23, 1960	15.27	4.4
1957	June 28, 1957	16.75	25				
1958	July 10, 1958	17.86	43	1961	June 15, 1961	17.29	34
1959	June 22, 1959	16.02	14				

3420. Wabash River at Riverton, Ind.

Location.--Lat 39°01'13", long 87°34'07", in sec.30, T.7 N., R.10 W., on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.6 mile downstream from Turtle Creek, and at mile 162.0.

Drainage area.--13,100 sq mi, approximately.

Gage.--Nonrecording prior to July 18, 1951; recording thereafter. Datum of gage is 414.65 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--16 ft.

Remarks.--Gage heights for 1912-14 furnished by Illinois Central Railroad Co. Figures shown in parentheses are approximate values considered accurate within 15 percent. Base for partial-duration series, 25,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Jan. 26, 1912	15.3	(28,200)
	Mar. 5, 1912	16.7	(32,900)
	Mar. 25, 1912	20.7	(65,400)
	Apr. 5, 1912	21.0	(69,000)
	May 6, 1912	15.5	(28,800)
	July 16, 1912	14.2	(25,100)
1913	Jan. 27, 1913	21.9	(80,400)
	Mar. 28, 1913	26.4	a250,000
1914	Mar. 22, 1914	16.6	(32,400)
	Apr. 14, 1914	18.5	(44,400)
	May 19, 1914	15.1	(27,600)
1939	Feb. 4, 1939	-	b29,000
	Feb. 14, 1939	-	b30,000
	Mar. 17, 1939	-	b110,000
	Apr. 23, 1939	22.3	86,000
	July 21, 1939	14.2	25,900
1940	Apr. 20, 1940	14.56	26,200
	May 4, 1940	14.2	25,300
1941	June 13, 1941	9.94	16,200
1942	Feb. 14, 1942	19.15	51,400
	Mar. 18, 1942	17.4	36,300
	Apr. 17, 1942	18.2	42,500
1943	Jan. 5, 1943	16.4	31,600
	Mar. 26, 1943	17.0	34,400
	May 21, 1943	29.36	201,000
1944	Mar. 8, 1944	14.2	25,900
	Apr. 18, 1944	21.72	77,800
	May 15, 1944	15.2	27,900
1945	Mar. 7, 1945	14.8	26,700
	Apr. 9, 1945	19.54	53,200
	May 23, 1945	19.0	48,800
	June 21, 1945	17.6	38,200
1946	Oct. 9, 1945	15.5	28,800
	Jan. 13, 1946	17.56	38,200
	Feb. 21, 1946	17.5	37,500
	Mar. 23, 1946	15.6	29,100
	May 20, 1946	15.4	28,500
	June 3, 1946	-	b25,000
	June 24, 1946	15.6	29,100
1947	Feb. 5, 1947	15.2	27,900
	May 7, 1947	18.9	48,000
	May 22, 1947	15.2	27,900
	June 12, 1947	19.87	57,000
1948	Mar. 6, 1948	16.1	31,400
	Mar. 30, 1948	21.78	73,900
1948	Apr. 12, 1948	19.6	51,300
	May 19, 1948	16.3	32,200
1949	Jan. 26, 1949	21.90	73,800
	Feb. 22, 1949	20.5	59,000
	Mar. 31, 1949	14.5	25,900
	May 28, 1949	15.4	28,800
1950	Oct. 15, 1949	14.9	27,100
	Jan. 18, 1950	25.20	121,000
	Feb. 1, 1950	21.1	70,200
	Feb. 22, 1950	22.5	87,400
	Apr. 10, 1950	20.9	67,800
	May 1, 1950	16.6	34,000
	June 20, 1950	15.7	30,000
	Sept. 5, 1950	14.6	26,200
	Sept.25, 1950	15.6	29,600
1951	Nov. 25, 1950	14.3	25,300
	Dec. 13, 1950	17.3	37,800
	Jan. 11, 1951	17.2	37,200
	Feb. 26, 1951	22.52	101,000
	Mar. 22, 1951	15.2	30,600
	Apr. 20, 1951	17.2	40,500
	May 17, 1951	14.8	29,100
	July 16, 1951	17.5	42,500
1952	Jan. 8, 1952	16.66	34,500
	Feb. 4, 1952	18.61	46,200
	Mar. 20, 1952	18.66	46,900
	Apr. 20, 1952	17.29	37,800
	May 1, 1952	17.38	38,400
	June 2, 1952	17.22	37,200
	June 20, 1952	17.12	36,600
	June 26, 1952	16.87	35,500
1953	Mar. 11, 1953	16.15	32,100
	Mar. 23, 1953	17.79	40,800
	Apr. 6, 1953	14.92	27,100
	July 9, 1953	14.53	25,900
1954	Apr. 15, 1954	10.48	17,400
1955	Jan. 12, 1955	15.01	29,000
	Mar. 10, 1955	15.43	29,100
1956	Mar. 3, 1956	16.55	34,100
	June 3, 1956	17.40	38,400
1957	Apr. 15, 1957	20.33	61,100
	May 24, 1957	17.60	39,600
	June 16, 1957	15.27	28,800
	July 2, 1957	22.00	81,800
1958	Dec. 27, 1957	21.22	71,900
	June 18, 1958	25.83	128,000
	July 23, 1958	18.95	47,500

a Estimated.
b Daily mean discharge, estimated.

Peak stages and discharges of Wabash River at Riverton, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Aug. 7, 1958	17.35	37,200	1960	Feb. 18, 1960	17.29	38,500
	Aug. 22, 1958	15.60	29,000		Apr. 6, 1960	18.01	42,500
1959	Feb. 2, 1959	15.43	b30,200		June 28, 1960	18.52	45,500
	Feb. 17, 1959	23.78	108,000	1961	Mar. 24, 1961	17.19	36,100
	Mar. 20, 1959	15.53	30,600		Apr. 30, 1961	21.35	69,800
	Apr. 9, 1959	15.63	31,000		May 11, 1961	20.34	58,600
	May 5, 1959	20.38	62,200				

b Daily mean discharge, estimated.

3425. Busseron Creek near Carlisle, Ind.

Location.--Lat 38°58'30", long 87°25'35", in W¼ sec.17, T.6 N., R.9 W., on right bank 10 ft downstream from bridge on State Highway 58, 1½ miles northwest of Carlisle, and 6¾ miles upstream from mouth.

Drainage area.--228 sq mi.

Gage.--Nonrecording prior to Nov. 8, 1950; recording thereafter. Datum of gage is 425.36 ft above mean sea level (State Highway Department of Indiana bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs and extended above by logarithmic plotting.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 2,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 12, 1944	16.96	4,700	1951	Nov. 20, 1950	b14.5	2,730
	Apr. 24, 1944	15.9	3,620		Feb. 21, 1951	14.75	2,900
1945	Mar. 6, 1945	15.6	3,380	1952	Mar. 11, 1952	16.17	4,070
	Apr. 2, 1945	17.60	5,500		Mar. 22, 1952	15.09	3,140
	Apr. 18, 1945	-	a2,500		Apr. 15, 1952	14.11	2,500
	June 16, 1945	15.4	3,240				
	June 21, 1945	16.3	3,970	1953	Mar. 4, 1953	16.04	3,890
1946	Feb. 13, 1946	13.7	2,250	1954	Aug. 4, 1954	6.31	430
	May 20, 1946	14.90	2,900				
				1955	Apr. 13, 1955	13.13	2,040
1947	Apr. 27, 1947	13.7	2,250				
	June 2, 1947	14.60	2,720	1956	Feb. 25, 1956	13.57	2,250
					June 22, 1956	16.12	3,980
1948	Jan. 1, 1948	15.0	2,960				
	Jan. 3, 1948	15.15	3,100	1957	Apr. 5, 1957	17.23	4,800
	Apr. 14, 1948	14.6	2,720		May 23, 1957	17.61	5,200
					June 14, 1957	14.35	2,660
1949	Jan. 7, 1949	13.9	2,600				
	Jan. 20, 1949	16.3	4,200	1958	Dec. 21, 1957	18.08	5,400
	Jan. 28, 1949	13.9	2,350		Dec. 26, 1957	14.03	2,380
	Feb. 17, 1949	15.0	2,900		July 12, 1958	15.45	3,100
	Mar. 28, 1949	15.8	3,600				
				1959	Jan. 22, 1959	-	c3,100
1950	Jan. 5, 1950	20.05	8,800		Feb. 12, 1959	15.32	3,040
	Jan. 10, 1950	14.6	2,790		June 1, 1959	14.89	2,800
	Jan. 16, 1950	14.9	3,000				
	Jan. 28, 1950	16.6	4,430	1960	Dec. 12, 1959	12.23	1,690
	Feb. 14, 1950	17.4	5,200				
	Mar. 29, 1950	14.6	2,790	1961	May 9, 1961	20.30	8,580
	Sept. 1, 1950	14.7	2,860				

a Daily mean discharge, estimated.
b Estimated.
c About.

3430. Wabash River at Vincennes, Ind.

Location.--Lat 38°40'52", long 87°32'04", near center of span on downstream side of bridge on U.S. Highway 50 at Vincennes, Knox County, 4.8 miles downstream from Maria Creek, 5.8 miles upstream from Embarrass River, and at mile 127.8.

Drainage area.--13,700 sq mi, approximately.

Gage.--Nonrecording. At same site at datum 2.00 ft higher prior to Oct. 1, 1946. Datum of gage is 394.43 ft above mean sea level, datum of 1929. Since Oct. 1, 1955, a recording gage at mile 132.5 has been used as an auxiliary gage for high-water stages.

Stage-discharge relation.--Not defined prior to 1930. High-water rating unstable owing to changing slope conditions. Fall between auxiliary gage and reference gage used as a factor in computing discharge since Oct. 1, 1955. Previous to this and at other times, various methods used to compute discharge for changing slope conditions. Changes in the levee system and levee breaks have at times materially affected high-water rating.

Bankfull stage.--16 ft (U.S. Weather Bureau).

Remarks.--Only annual peaks are shown. Gage heights prior to 1930 furnished by U.S. Weather Bureau. No peaks are given for the water years 1905-6, 1909-11, owing to the very fragmentary nature of the record during the period Dec. 1, 1904, to June 27, 1911, with the resulting probability that annual peaks have not been recorded. Figures in parentheses are approximate values considered accurate within 30 percent.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1867	Feb. 22, 1867	25	-	1931	Sept.17, 1931	7.72	18,800
				1932	Jan. 25, 1932	16.86	47,000
1883	Feb. 21, 1883	22.7	-	1933	May 20, 1933	24.5	91,600
				1934	Apr. 4, 1934	7.72	19,000
1887	Feb. 18, 1887	18.2	-	1935	May 16, 1935	17.34	46,500
1888	Jan. 15, 1888	13.8	-				
1889	June 15, 1889	16.7	-	1936	Mar. 5, 1936	21.30	78,800
1890	Jan. 13, 1890	18.6	-	1937	Jan. 16, 1937	d22.80	76,500
				1938	Apr. 16, 1938	21.58	73,700
1891	Apr. 6, 1891	13.0	-	1939	Mar. 20, 1939	23.75	102,000
1892	Apr. 12, 1892	18.0	-	1940	Apr. 21, 1940	12.16	29,900
1893	May 6, 1893	21.3	-				
				1941	June 13, 1941	6.92	16,200
1907	Jan. 25, 1907	22.2	-	1942	Feb. 16, 1942	16.27	47,100
1908	Feb. 18, 1908	21.4	-	1943	May 23, 1943	b29.33	189,000
				1944	Apr. 20, 1944	20.35	70,400
1912	Apr. 6, 1912	18.7	-	1945	Apr. 9, 1945	17.83	51,100
1913	Mar. 29, 1913	ab26.3	c255,000				
1914	Apr. 15, 1914	15.4	(38,800)	1946	Jan. 12, 1946	e14.60	f37,600
1915	Feb. 10, 1915	11.6	(25,300)	1947	June 14, 1947	19.06	53,000
				1948	Mar. 31, 1948	23.40	71,500
1916	Feb 6, 1916	21.3	(67,200)	1949	Jan. 28, 1949	23.88	71,000
1917	June 9, 1917	16.1	(41,600)	1950	Jan. 19, 1950	g29.04	120,000
1918	Feb. 21, 1918	17.6	(47,900)				
1919	Mar. 24, 1919	20.6	(63,000)	1951	Feb. 28, 1951	23.40	79,400
1920	Apr. 27, 1920	20.1	(60,200)	1952	Mar. 23, 1952	19.50	51,200
				1953	Mar. 24, 1953	16.26	37,200
1921	Apr. 6, 1921	15.8	(40,400)	1954	Apr. 16, 1954	8.78	18,000
1922	Apr. 22, 1922	23.0	(79,600)	1955	Mar. 11, 1955	12.65	28,200
1923	Mar. 23, 1923	18.8	(53,500)				
1924	Apr. 6, 1924	18.6	(52,500)	1956	June 4, 1956	h15.41	37,400
1925	Mar. 22, 1925	19.7	(58,000)	1957	July 4, 1947	23.70	69,400
				1958	June 21, 1958	27.11	99,600
1926	Apr. 16, 1926	19.0	(54,500)	1959	Feb. 17, 1959	25.65	97,000
1927	June 2, 1927	22.3	(74,000)	1960	June 29, 1960	17.19	38,000
1928	Dec. 9, 1927	19.2	(55,500)				
1929	May 22, 1929	20.3	(61,400)	1961	May 1, 1961	j24.20	64,800
1930	Jan. 17, 1930	25.25	97,200				

a From floodmarks, by Corps of Engineers. b Present datum. c Estimated. d Occurred on Jan. 22, 1937. e Occurred on Feb. 21, 1946. f Daily mean discharge. g Occurred on Jan. 18, 1950. h Occurred on Mar. 3, 1956. j Occurred May 12, 1961.

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3440. Embarrass River near Diona, Ill.

Location.--Lat 39°20'40", long 88°10'15", in NW¼ sec.2, T.10 N., R.9 E., 2¾ miles southwest of Diona and 7 miles downstream from Indian Creek.

Drainage area.--916 sq mi.

Gage.--Recording prior to June 30, 1940; nonrecording thereafter. At same site at datum 32.48 ft higher prior to June 30, 1940. All gage heights adjusted to present datum. Datum of gage is 534.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 14, 1939	21.1	14,600	1945	Mar. 31, 1945	18.6	9,300
1940	May 1, 1940	13.0	3,950				
				1946	June 2, 1946	16.0	6,400
1943	May 1943	a22	17,200	1947	June 10, 1947	14.1	4,990

a About.

3442.5. Embarrass River tributary near Greenup, Ill.

Location.--Lat 39°14'00", long 88°09'20", in SW¼ sec.12, T.9 N., R.9 E., at culvert on State Highway 130, 1.0 mile south of Greenup.

Drainage area.--0.081 sq mi. Mean altitude of basin, 595 ft.

Gage.--Crest-stage gage. Altitude of gage is 580 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 30, 1956	10.88	9.0	1960	June 23, 1960	12.08	40
1957	June 28, 1957	11.34	22				
1958	July 11, 1958	11.58	27	1961	May 8, 1961	11.38	23
1959	Feb. 10, 1959	11.56	27				

3445. Range Creek near Casey, Ill.

Location.--Lat 39°19'36", long 88°01'46", in NE¼SE¼ sec.12, T.10 N., R.10 E., on right bank at downstream side of highway bridge, 2½ miles west of State Highway 49 and 3 miles northwest of Casey.

Drainage area.--7.60 sq mi.

Gage.--Recording. Datum of gage is 597.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs.

Remarks.--Base for partial-duration series, 380 cfs.

Peak stages and discharges of Range Creek near Casey, Ill.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 3, 1951	7.81	627	1957	Apr. 3, 1957	8.90	1,040
	Feb. 16, 1951	6.45	438		May 19, 1957	6.38	406
	Feb. 20, 1951	10.00	2,650		June 12, 1957	6.72	447
	Aug. 29, 1951	9.27	1,620		June 14, 1957	7.45	555
					June 28, 1957	10.55	2,360
1952	Oct. 23, 1951	6.17	387				
	Jan. 26, 1952	8.55	805	1958	Dec. 19, 1957	10.00	2,440
	Mar. 11, 1952	8.45	755		Dec. 25, 1957	6.33	390
	Apr. 4, 1952	6.85	461		July 31, 1958	7.74	577
1953	Mar. 31, 1953	6.72	485	1959	Jan. 21, 1959	7.50	527
	May 22, 1953	8.24	705		Feb. 10, 1959	9.14	760
1954	Aug. 4, 1954	2.80	56	1960	June 12, 1960	8.89	724
					June 23, 1960	10.79	2,790
1955	May 28, 1955	7.54	572				
				1961	May 8, 1961	10.45	2,200
1956	Feb. 24, 1956	6.47	419		Aug. 11, 1961	12.50	3,500
	Feb. 25, 1956	8.32	730				
	Apr. 3, 1956	9.67	2,120				

3450. Embarrass River at Newton, Ill.

Location.--Lat 39°00', long 88°09', in SE¼SW¼ sec.31, T.7 N., R.10 E., at bridge on State Highway 33, 1 mile northeast of Newton and 6 miles upstream from Crooked Creek.

Drainage area.--1,391 sq mi.

Gage.--Nonrecording prior to June 26, 1940; recording thereafter. Datum of gage is 465.71 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 3, 1940	16.96	9,400	1943	May 20, 1943	20.20	31,900
				1944	Apr. 24, 1944	17.80	15,000
1941	June 11, 1941	13.20	4,560	1945	Apr. 1, 1945	19.10	23,200
1942	June 28, 1942	17.45	10,300				

3455. Embarrass River at Ste. Marie, Ill.

Location.--Lat 38°56'10", long 88°01'10", in NW¼NW¼ sec.30, T.6 N., R.14 W., on left bank at downstream side of highway bridge at Ste. Marie.

Drainage area.--1,513 sq mi.

Gage.--Nonrecording prior to June 29, 1940; recording thereafter. Datum of gage is 446.75 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 35,000 cfs.

Historical data.--Based on statements made in 1951 by Mr. Louis Faller, who formerly operated a mill at the Van Buren Street Bridge in Newton, and whose personal observations extend back to include the notable flood of August 1874, the stage of January 1950 was the highest in more than 75 years.

Remarks.--The construction, improvement, disintegration, and/or repair of levees and of highway and railroad embankments leads to some uncertainty as to the relative discharge of the early floods of record, and precludes discharge comparisons of historical stages. Base for partial-duration series, 6,500 cfs.

Peak stages and discharges of Embarrass River at Ste. Marie, Ill.

Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Spring 1908	22.5	-
1910	Mar. 1, 1910	18.7	8,320
	July 18, 1910	19.0	9,200
1911	Oct. 7, 1910	18.9	8,900
	Apr. 16, 1911	18.2	7,190
1912	Oct. 3, 1911	19.9	13,100
	Feb. 28, 1912	18.4	7,600
	Mar. 30, 1912	18.5	7,820
1915	Feb. 3, 1915	18.0	6,820
	May 29, 1915	19.0	9,200
	Aug. 23, 1915	20.0	14,500
1916	Jan. 4, 1916	18.9	8,900
	Jan. 15, 1916	20.0	13,600
	Feb. 1, 1916	20.1	14,100
1917	June 6, 1917	21.2	23,600
1918	Feb. 14, 1918	18.6	8,060
	Apr. 30, 1918	18.7	8,320
	July 10, 1918	17.7	6,640
1919	Dec. 16, 1918	18.5	7,820
	Dec. 23, 1918	18.5	7,820
	Mar. 17, 1919	18.2	7,190
	June 26, 1919	18.6	8,060
1920	Nov. 3, 1919	18.3	7,390
	Dec. 1, 1919	17.9	6,640
	Feb. 23, 1920	18.2	7,190
1921	Mar. 30, 1921	18.1	7,000
1922	Nov. 20, 1921	18.2	7,190
	Dec. 26, 1921	18.6	8,520
	Mar. 15, 1922	21.1	28,100
	Apr. 1, 1922	18.8	8,600
	Apr. 18, 1922	21.9	25,500
1923	Mar. 18, 1923	20.6	16,600
	May 17, 1923	17.6	7,510
1924	Dec. 16, 1923	17.5	7,510
	Feb. 7, 1924	17.4	7,260
	Mar. 31, 1924	18.9	10,300
1925	Dec. 22, 1924	-	7,000
	Mar. 16, 1925	-	10,000
1926	Jan. 20, 1926	16.7	6,620
	Feb. 27, 1926	17.4	7,380
	Apr. 9, 1926	17.8	7,960
	Sept.15, 1926	18.6	9,500
1927	Oct. 7, 1926	19.5	12,200
	Feb. 2, 1927	17.8	7,960
	Mar. 21, 1927	22.8	28,200
	Apr. 3, 1927	19.0	10,600
	Apr. 21, 1927	17.9	8,130
	May 20, 1927	17.3	7,260
	May 30, 1927	24.3	39,000
1928	Dec. 3, 1927	19.3	12,100
	Dec. 16, 1927	19.2	11,200
	Feb. 7, 1928	18.9	10,300
	Feb. 16, 1928	18.4	9,100
	May 18, 1928	18.2	8,700
1929	Dec. 18, 1928	16.8	6,720
	Jan. 20, 1929	18.6	9,500
	Mar. 28, 1929	17.5	7,510
	Apr. 10, 1929	20.5	17,800
	May 6, 1929	18.2	8,700
	May 16, 1929	20.4	16,500
	May 20, 1929	22.0	23,600
	June 14, 1929	17.4	7,380
1930	Dec. 20, 1929	19.7	13,000
1930	Jan. 4, 1930	18.6	9,500
	Jan. 10, 1930	20.4	15,800
	Jan. 14, 1930	22.3	25,200
	Feb. 28, 1930	17.9	8,130
1931	Sept.19, 1931	11.2	3,430
1932	Dec. 13, 1931	17.8	7,960
	Jan. 2, 1932	17.5	7,510
	Jan. 19, 1932	16.8	6,950
	Jan. 24, 1932	18.2	8,340
1933	Jan. 1, 1933	17.0	7,270
	Jan. 23, 1933	16.6	6,950
	Feb. 27, 1933	16.7	7,110
	Mar. 21, 1933	18.4	9,300
	Apr. 18, 1933	17.0	7,310
	May 7, 1933	17.0	7,430
	May 15, 1933	21.4	22,500
	May 24, 1933	17.5	7,910
1934	Mar. 28, 1934	11.5	3,650
1935	Nov. 25, 1934	17.5	8,150
	Mar. 14, 1935	18.6	9,900
	May 5, 1935	19.6	12,600
	May 17, 1935	17.4	8,030
1936	Feb. 29, 1936	17.7	8,450
1937	Jan. 11, 1937	18.0	8,750
	Jan. 16, 1937	20.8	17,300
	May 5, 1937	18.9	10,300
1938	Dec. 20, 1937	16.9	7,070
	Mar. 17, 1938	19.2	11,200
	Apr. 1, 1938	24.1	37,400
	Apr. 12, 1938	19.3	11,800
1939	Feb. 2, 1939	17.9	8,130
	Mar. 13, 1939	21.5	23,900
	Apr. 18, 1939	21.1	21,000
1940	May 3, 1940	18.3	8,900
1941	June 11, 1941	13.3	4,480
1942	Feb. 9, 1942	17.8	7,960
	Mar. 11, 1942	17.8	7,960
	Apr. 11, 1942	18.2	8,700
	June 29, 1942	18.8	10,000
1943	May 9, 1943	19.19	13,800
	May 12, 1943	21.63	24,600
	May 20, 1943	23.40	32,000
	May 24, 1943	21.11	28,200
1944	Apr. 13, 1944	19.2	12,900
	Apr. 25, 1944	19.4	14,300
1945	Mar. 9, 1945	17.6	7,430
	Apr. 1, 1945	21.6	25,500
	May 19, 1945	17.7	7,560
	June 12, 1945	18.2	8,370
	June 18, 1945	20.4	15,400
1946	Feb. 16, 1946	19.1	11,200
	May 4, 1946	17.9	7,850
	May 19, 1946	17.0	6,820
	June 3, 1946	19.4	14,000
1947	Feb. 1, 1947	17.3	7,100
	Apr. 27, 1947	17.3	7,100
1948	Jan. 2, 1948	17.3	7,100
	Mar. 28, 1948	22.3	29,200
1949	Jan. 7, 1949	18.4	8,810
	Jan. 21, 1949	20.5	19,500
	Feb. 17, 1949	20.2	19,000
1950	Oct. 15, 1949	18.6	10,700

Peak stages and discharges of Embarrass River at Ste. Marie, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Dec. 24, 1949	17.2	7,220	1955	Apr. 24, 1955	13.32	4,810
	Dec. 29, 1949	16.7	6,620				
	Jan. 4, 1950	25.0	44,800	1956	Feb. 28, 1956	18.34	9,600
	Jan. 17, 1950	20.8	22,800				
	Jan. 28, 1950	18.2	9,300	1957	Apr. 6, 1957	20.81	21,000
	Feb. 14, 1950	20.4	21,400		Apr. 23, 1957	17.02	7,500
	Feb. 24, 1950	18.1	9,000		May 25, 1957	17.85	8,500
	Mar. 29, 1950	16.8	6,730		June 17, 1957	21.19	22,200
	Apr. 6, 1950	18.8	12,500		June 30, 1957	25.54	39,800
	July 6, 1950	17.8	8,200				
				1958	Dec. 22, 1957	20.86	21,300
1951	Jan. 5, 1951	16.53	7,000		June 15, 1958	16.60	7,100
	Feb. 23, 1951	20.54	19,800		July 15, 1958	18.56	10,700
	Apr. 14, 1951	16.00	6,550		Aug. 4, 1958	18.46	10,300
1952	Mar. 13, 1952	17.04	7,500	1959	Feb. 12, 1959	20.43	19,400
	Mar. 20, 1952	16.53	7,000		Feb. 15, 1959	19.17	13,600
	Mar. 24, 1952	15.97	6,550				
	Apr. 7, 1952	17.75	8,500	1960	June 25, 1960	19.00	12,600
1953	Mar. 5, 1953	13.76	5,090	1961	May 9, 1961	25.08	37,800
1954	Apr. 20, 1954	2.53	408				

3460. North Fork Embarrass River near Oblong, Ill.

Location.--Lat 39°00'35", long 87°56'45", in extreme northwest corner of sec.35, T.7 N., R.14 W., on left bank at downstream side of pier of bridge on State Highway 33, three-quarters of a mile upstream from Illinois Central Railroad bridge, 2 miles west of Oblong, and 8½ miles upstream from mouth.

Drainage area.--319 sq mi.

Gage.--Recording. Datum of gage is 458.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs.

Historical data.--A stage of 20.8 ft, as determined from marks pointed out by local residents, occurred "a few years after 1905," presumably in 1913. Other reliable information indicates the "McKinley flood," so called because it occurred on Mar. 4, 1897, was somewhat higher.

Remarks.--Channel improvement and highway construction in vicinity of gage preclude determination of discharges for historical stages. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 11, 1941	9.6	1,110	1947	Apr. 26, 1947	15.8	4,760
1942	Feb. 7, 1942	15.9	4,540	1948	Jan. 2, 1948	16.1	5,370
	Apr. 10, 1942	15.6	4,170		Mar. 28, 1948	17.25	8,380
	June 27, 1942	17.15	6,630				
				1949	Jan. 6, 1949	16.2	5,400
1943	May 8, 1943	17.1	8,350		Jan. 19, 1949	18.8	13,800
	May 11, 1943	19.13	15,500		Jan. 30, 1949	15.5	4,180
	May 18, 1943	17.78	10,700		Feb. 16, 1949	17.3	8,550
	May 24, 1943	17.51	9,780		Mar. 27, 1949	15.6	4,330
1944	Apr. 12, 1944	17.35	8,720	1950	Oct. 14, 1949	16.8	6,900
	Apr. 24, 1944	16.6	6,350		Dec. 23, 1949	15.4	4,030
					Jan. 4, 1950	22.4	27,100
1945	Mar. 7, 1945	15.8	4,760		Jan. 15, 1950	16.6	6,300
	Apr. 1, 1945	17.5	9,250		Jan. 27, 1950	16.4	5,800
	May 17, 1945	15.5	4,250		Feb. 14, 1950	17.7	9,950
	June 17, 1945	17.8	10,800		Feb. 22, 1950	15.4	4,030
					Mar. 28, 1950	15.8	4,660
1946	Feb. 14, 1946	17.3	8,550		Apr. 5, 1950	17.2	8,200
	June 3, 1946	16.9	7,300		June 4, 1950	16.5	6,050
					July 5, 1950	16.6	6,300
1947	Jan. 31, 1947	16.1	5,370				

Peak stages and discharges of North Fork Embarrass River near Oblong, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Feb. 22, 1951	17.45	8,900	1957	Apr. 5, 1957	17.53	8,450
					June 29, 1957	22.11	25,000
1952	Mar. 12, 1952	15.81	4,660				
	Apr. 5, 1952	15.70	4,490	1958	Dec. 20, 1957	18.84	13,000
					July 12, 1958	18.07	10,600
1953	Mar. 5, 1953	15.74	4,490		Aug. 2, 1958	15.83	4,540
1954	May 3, 1954	3.22	228	1959	Feb. 11, 1959	17.87	9,850
1955	Apr. 24, 1955	12.33	1,900	1960	June 25, 1960	16.46	5,800
1956	Feb. 27, 1956	15.68	4,490	1961	May 9, 1961	21.00	20,800

3470. White River at Muncie, Ind.
(Published as "West Fork White River" prior to Oct. 1, 1948)

Location.--Lat 40°12', long 85°23', in sec.10, T.20 N., R.10 E., on right bank 200 ft downstream from Walnut Street Bridge in Muncie and 6 miles upstream from Bell Creek.

Drainage area.--242 sq mi.

Gage.--Nonrecording prior to Jan. 4, 1934; recording Jan. 4, 1934, to Sept. 13, 1940; nonrecording Sept. 14, 1940, to Jan. 27, 1942; recording thereafter. At bridge 200 ft upstream at datum 5.00 ft higher prior to Jan. 4, 1934. At present site at datum 4.00 ft higher Jan. 4, 1934, to Feb. 14, 1941. At bridge 200 ft upstream at present datum Feb. 15, 1941, to Jan. 27, 1942. Datum of gage is 920.10 ft above mean sea level (city of Muncie bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Flood of March 1913 is the maximum stage known.

Remarks.--Gage heights for July 31, 1923, to Dec. 31, 1929, furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 2,500 cfs. Only annual peaks are shown prior to 1924.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	March 1904	a16.6	(13,000)	1928	Dec. 13, 1927	7.0	(3,440)
					Mar. 30, 1928	7.7	(4,210)
1913	March 1913	b19.6	c20,000		Apr. 22, 1928	7.0	(3,440)
					June 8, 1928	6.6	(3,040)
1924	Dec. 13, 1923	7.5	(3,990)		June 26, 1928	8.2	(4,760)
	Jan. 11, 1924	7.1	(3,550)				
	Mar. 29, 1924	9.5	(6,340)	1929	Jan. 19, 1929	9.0	(5,710)
	June 8, 1924	11.7	(9,280)		Jan. 25, 1929	6.2	(2,640)
					Feb. 26, 1929	9.2	(5,950)
1925	Dec. 19, 1924	6.8	(3,240)		Apr. 10, 1929	6.5	(2,940)
					May 14, 1929	6.3	(2,740)
1926	Nov. 13, 1925	8.2	(4,760)		July 1, 1929	9.1	(5,830)
	Nov. 16, 1925	6.6	(3,040)				
	Apr. 7, 1926	8.0	(4,540)	1931	Apr. 3, 1931	4.3	1,250
	Sept. 5, 1926	9.0	(5,710)				
	Sept. 9, 1926	10.3	(7,380)	1932	Jan. 15, 1932	6.2	2,640
	Sept.16, 1926	6.6	(3,040)		Jan. 18, 1932	6.4	2,840
1927	Jan. 30, 1927	7.0	(3,440)	1933	Dec. 25, 1932	7.2	3,660
	Mar. 20, 1927	12.0	(9,700)		Dec. 31, 1932	7.9	4,430
	Apr. 1, 1927	6.6	(3,040)		Mar. 19, 1933	6.9	3,340
	Apr. 19, 1927	7.2	(3,660)		Apr. 18, 1933	6.8	3,240
	May 19, 1927	9.4	(6,210)		May 14, 1933	12.61	10,500
	Sept.11, 1927	8.0	(4,540)				
				1934	June 22, 1934	6.24	1,950
1928	Dec. 1, 1927	7.0	(3,440)				

a About, furnished by Corps of Engineers, present datum.
b About, present datum.
c About.

Peak stages and discharges of White River at Muncie, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 3, 1935	8.06	3,640
1936	Feb. 27, 1936	d8.99	4,000
	May 2, 1936	7.05	2,500
1937	Nov. 4, 1936	7.63	2,980
	Jan. 15, 1937	14.07	11,500
	Jan. 18, 1937	7.58	2,980
	Jan. 22, 1937	10.67	6,240
	Feb. 9, 1937	8.57	3,900
1938	Dec. 18, 1937	9.56	4,960
	Mar. 16, 1938	7.45	2,580
	Apr. 1, 1938	8.68	4,370
	Apr. 7, 1938	9.56	5,330
	June 26, 1938	9.00	4,670
1939	Mar. 13, 1939	7.59	3,360
	Apr. 16, 1939	10.67	6,660
1940	Apr. 19, 1940	8.51	4,220
	Apr. 21, 1940	8.57	4,320
1941	June 12, 1941	3.14	975
1942	Feb. 7, 1942	3.68	2,500
	Mar. 9, 1942	4.15	3,160
	Mar. 17, 1942	5.00	4,560
	Apr. 10, 1942	4.00	2,940
1943	Dec. 27, 1942	3.88	2,790
	Mar. 17, 1943	5.50	5,440
	Mar. 20, 1943	4.46	3,740
	May 18, 1943	9.04	9,810
	Aug. 4, 1943	4.38	3,160
1944	Mar. 7, 1944	5.27	4,000
	Apr. 12, 1944	8.75	9,460
1945	Mar. 7, 1945	4.47	2,780
	June 18, 1945	6.45	5,400
1946	Dec. 31, 1945	4.28	2,420
1947	Jan. 31, 1947	4.73	2,630
	June 3, 1947	5.15	3,170
1948	Jan. 2, 1948	5.65	3,390
	Feb. 14, 1948	e7.10	-
	Mar. 24, 1948	6.70	4,590
	Mar. 27, 1948	6.42	4,230
	Apr. 6, 1948	5.85	3,590
	Apr. 14, 1948	7.30	5,310
1949	Dec. 16, 1948	5.07	2,560
1949	Jan. 5, 1949	9.64	7,080
	Jan. 19, 1949	6.19	3,550
	Jan. 28, 1949	5.44	2,830
	Feb. 16, 1949	5.80	3,190
	Mar. 27, 1949	6.92	4,250
1950	Jan. 4, 1950	9.39	6,860
	Jan. 11, 1950	7.58	4,950
	Jan. 16, 1950	6.99	4,350
	Jan. 25, 1950	5.29	2,740
	Jan. 27, 1950	6.98	4,350
	Feb. 14, 1950	10.99	8,840
	Mar. 28, 1950	6.51	3,850
	June 4, 1950	5.11	2,560
	Sept.23, 1950	5.78	3,190
1951	Nov. 21, 1950	5.95	3,480
	Dec. 4, 1950	8.20	5,680
	Feb. 13, 1951	5.26	2,780
	Feb. 21, 1951	9.72	7,790
1952	Jan. 27, 1952	7.75	5,280
	Mar. 12, 1952	6.35	3,880
1953	Mar. 4, 1953	7.01	4,480
	May 23, 1953	5.98	3,480
1954	Mar. 30, 1954	4.07	1,640
1955	Jan. 6, 1955	5.65	3,080
1956	Nov. 17, 1955	9.13	6,580
	Feb. 26, 1956	8.00	5,480
	Apr. 4, 1956	5.59	3,080
1957	Jan. 23, 1957	5.07	2,580
	Apr. 5, 1957	7.45	4,880
	May 20, 1957	5.20	2,680
	June 16, 1957	5.47	2,980
	June 29, 1957	8.35	5,880
1958	Dec. 20, 1957	6.08	3,580
	June 11, 1958	9.28	6,780
	June 14, 1958	11.85	10,000
1959	Jan. 22, 1959	11.23	9,100
	Feb. 11, 1959	6.42	3,880
	Apr. 29, 1959	5.22	2,860
1960	Feb. 11, 1960	5.62	3,180
1961	Mar. 13, 1961	5.18	2,700
	Apr. 23, 1961	5.34	2,860
	Apr. 26, 1961	7.19	4,680

d Backwater from ice, occurred on Feb. 25, 1936.
e Backwater from ice.

3475. Buck Creek near Muncie, Ind.

Location.--Lat 40°08'05", long 85°22'25", in SE¼ sec.34, T.20 N., R.10 E., on left bank at downstream side of county highway bridge, 1 mile upstream from Muncie Water Works Co. pumping station and 4.2 miles southeast of courthouse in Muncie.

Drainage area.--36.7 sq mi.

Gage.--Nonrecording prior to May 5, 1955; recording thereafter. Datum of gage is 944.67 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs.

Historical data.--Maximum stage known, about 15 ft; from information by local residents, date unknown.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges of Buck Creek near Muncie, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Sept.29, 1955	6.66	340	1958	Aug. 2, 1958	9.10	619
1956	Nov. 16, 1955	10.91	990	1959	Jan. 21, 1959	12.64	1,710
	Feb. 25, 1956	9.97	774		Feb. 10, 1959	10.70	935
	Apr. 3, 1956	8.11	482		Apr. 28, 1959	7.80	445
					May 22, 1959	8.00	469
1957	Apr. 3, 1957	8.20	495		May 29, 1959	8.88	590
	June 1, 1957	8.84	576				
	June 14, 1957	9.45	666	1960	Feb. 10, 1960	9.21	634
	June 28, 1957	11.40	1,150				
				1961	Mar. 4, 1961	6.94	413
1958	Dec. 19, 1957	7.38	510		Mar. 13, 1961	7.39	403
	June 10, 1958	10.75	962		Apr. 22, 1961	9.77	736
	June 13, 1958	12.20	1,500		Apr. 25, 1961	10.62	909
	June 25, 1958	8.69	562				

3480. White River at Anderson, Ind.
(Published as "West Fork White River" prior to Oct. 1, 1948)

Location.--Lat 40°06', long 85°41', in sec.18, T.19 N., R.8 E., on left bank at municipal water-supply plant in Anderson, 1 mile upstream from Killbuck Creek.

Drainage area.--401 sq mi.

Gage.--Nonrecording. At site 700 ft downstream at datum 0.76 ft higher Dec. 1, 1910, to Feb. 9, 1918. Feb. 10, 1918, to May 11, 1934, at site 250 ft upstream at present datum. Datum of gage is 825.02 ft above mean sea level, datum of 1929. All gage heights adjusted to present site and datum.

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs. A large shift of the rating curve to the left occurred sometime between 1939 and 1942.

Bankfull stage.--10 ft (U.S. Weather Bureau).

Historical data.--Flood of Mar. 25, 1913, is maximum stage known.

Remarks.--Gage heights for 1904, 1911-25, 1930-32, furnished by U.S. Weather Bureau. Gage heights for 1926-29, and peak discharge for 1926 furnished by the Indiana Department of Conservation. Figures in parentheses are approximate values only; those for 1904, 1911-12, 1914-25, are considered accurate within 20 percent and those for 1928-31 are considered accurate within 15 percent. Only annual peaks are shown prior to 1926. Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 23, 1904	20.3	(20,500)	1926	Nov. 16, 1925	10.3	3,020
					Apr. 8, 1926	13.1	7,160
1911	Jan. 28, 1911	10.8	(3,720)		Sept. 7, 1926	13.3	7,480
1912	Mar. 30, 1912	14.9	(10,000)		Sept.10, 1926	14.0	8,100
1913	Mar. 25, 1913	23.6	a28,000		Sept.17, 1926	10.1	2,750
1914	Apr. 8, 1914	11.5	(4,750)		Sept.25, 1926	10.8	3,720
1915	Feb. 2, 1915	11.2	(4,300)				
				1927	Mar. 21, 1927	17.5	11,700
1916	Jan. 31, 1916	17.6	(14,500)		May 20, 1927	15.3	10,700
1917	Mar. 14, 1917	12.4	(6,100)		Sept.12, 1927	10.2	2,880
1918	Feb. 13, 1918	9.6	(2,100)				
1919	Mar. 17, 1919	14.9	(10,000)	1928	Mar. 31, 1928	12.1	(5,650)
1920	Apr. 21, 1920	13.4	7,640)		June 21, 1928	11.2	(4,300)
1921	Mar. 28, 1921	15.0	(10,200)	1929	Jan. 20, 1929	12.9	(6,850)
1922	Apr. 15, 1922	17.5	(14,400)		Feb. 27, 1929	12.6	(6,400)
1923	Mar. 17, 1923	12.1	(5,650)		Apr. 11, 1929	10.8	(3,720)
1924	Mar. 29, 1924	15.3	(10,700)		May 15, 1929	11.5	(4,750)
1925	Dec. 19, 1924	10.8	(3,720)		June 17, 1929	10.1	(2,750)
					July 2, 1929	13.8	(8,280)
1926	Nov. 14, 1925	12.4	6,100		July 9, 1929	10.6	(3,440)

a Estimated.

Peak stages and discharges of White River at Anderson, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	July 14, 1929	10.4	(3,160)
1930	Dec. 14, 1929	10.8	(3,720)
	Dec. 18, 1929	12.3	(5,950)
	Jan. 3, 1930	11.7	(5,050)
	Jan. 9, 1930	14.6	(9,560)
	Jan. 14, 1930	14.9	(10,000)
	Feb. 27, 1930	13.1	(7,160)
1931	Apr. 5, 1931	8.5	(870)
1932	Dec. 12, 1931	10.1	2,750
	Jan. 18, 1932	11.3	4,450
1933	Dec. 25, 1932	11.0	4,000
	Jan. 1, 1933	11.9	5,350
	Mar. 20, 1933	11.2	4,300
	Apr. 18, 1933	10.9	3,860
	May 14, 1933	17.59	14,500
1934	Mar. 28, 1934	9.50	1,980
1935	May 4, 1935	11.10	4,350
1936	Feb. 25, 1936	12.2	5,800
1937	Nov. 4, 1936	10.7	3,260
	Jan. 15, 1937	18.63	17,100
	Jan. 22, 1937	13.4	7,450
	Jan. 25, 1947	10.4	2,840
	Feb. 9, 1937	11.2	4,000
	Apr. 6, 1937	10.9	3,550
	Aug. 13, 1937	10.5	2,980
1938	Dec. 18, 1937	13.2	7,120
	Feb. 12, 1938	10.52	2,980
	Mar. 6, 1938	10.92	3,550
	Mar. 17, 1938	11.04	3,700
	Mar. 24, 1938	10.3	2,880
	Mar. 31, 1938	13.33	7,280
	Apr. 9, 1938	13.16	7,120
	June 27, 1938	13.70	8,130
1939	Jan. 31, 1939	10.5	3,180
	Mar. 1, 1939	10.4	3,030
	Mar. 13, 1939	11.6	4,920
	Apr. 16, 1939	14.75	10,200
1940	Apr. 19, 1940	12.00	5,560
	Apr. 21, 1940	12.00	5,560
1941	June 4, 1941	8.93	1,120
1942	Feb. 8, 1942	11.0	3,220
	Mar. 10, 1942	11.3	3,590
	Mar. 17, 1942	13.03	5,900
	Apr. 10, 1942	11.3	3,590
1943	Mar. 18, 1943	12.87	5,690
	Mar. 20, 1943	11.10	3,750
	May 12, 1943	11.00	3,620
	May 18, 1943	18.97	15,300
	Aug. 5, 1943	12.45	5,150
1944	Mar. 8, 1944	11.65	4,330
	Apr. 12, 1944	17.33	12,000
1945	Mar. 7, 1945	11.05	3,620
	Apr. 1, 1945	11.18	3,620
	Apr. 3, 1945	11.25	3,750
	June 19, 1945	13.91	6,260
1946	Oct. 2, 1945	10.41	2,810
	Dec. 31, 1945	10.77	3,300
1947	Jan. 31, 1947	10.72	3,140
	Apr. 26, 1947	10.49	2,880
	May 3, 1947	10.60	3,010
1947	June 3, 1947	11.54	4,100
1948	Jan. 2, 1948	13.39	5,910
	Feb. 15, 1948	10.58	3,010
	Mar. 20, 1948	10.50	2,880
	Mar. 24, 1948	13.98	6,570
	Mar. 28, 1948	12.73	5,280
	Apr. 7, 1948	13.17	5,730
	Apr. 14, 1948	14.67	7,470
1949	Dec. 16, 1948	10.94	3,400
	Jan. 6, 1949	15.98	9,420
	Jan. 19, 1949	13.34	5,840
	Jan. 28, 1949	11.54	4,100
	Feb. 16, 1949	12.10	4,660
	Mar. 28, 1949	12.63	5,140
1950	Jan. 5, 1950	17.36	10,600
	Jan. 11, 1950	13.62	6,140
	Jan. 17, 1950	13.37	5,940
	Jan. 27, 1950	14.16	6,810
	Feb. 15, 1950	18.28	13,900
	Mar. 28, 1950	12.91	5,440
	Apr. 5, 1950	10.40	2,750
	June 4, 1950	10.97	3,530
	Sept.23, 1950	10.67	3,080
1951	Nov. 21, 1950	11.56	4,200
	Dec. 4, 1950	14.37	7,070
	Feb. 13, 1951	10.76	3,270
	Feb. 22, 1951	16.56	10,500
	Apr. 12, 1951	10.50	2,880
	Apr. 23, 1951	10.79	3,270
1952	Jan. 28, 1952	13.85	6,330
	Feb. 4, 1952	10.82	3,270
	Mar. 12, 1952	13.15	5,730
1953	Mar. 5, 1953	12.29	4,900
	May 18, 1953	10.43	2,820
	May 23, 1953	11.32	3,880
1954	Mar. 30, 1954	9.69	1,820
1955	Jan. 6, 1955	11.54	4,100
1956	Nov. 17, 1955	15.4	8,180
	Feb. 26, 1956	13.6	6,110
	Apr. 4, 1956	12.44	5,000
	May 28, 1956	10.56	2,940
1957	Jan. 23, 1957	10.51	2,880
	Apr. 5, 1957	13.97	6,010
	Apr. 9, 1957	10.92	3,400
	May 22, 1957	11.00	3,530
	June 16, 1957	11.80	4,400
	June 29, 1957	17.66	9,590
1958	Dec. 20, 1957	12.96	4,700
	Dec. 26, 1957	10.56	2,860
	June 11, 1958	16.37	8,000
	June 14, 1958	b19.96	c14,000
	June 26, 1958	10.53	2,900
	Aug. 3, 1958	10.90	3,290
1959	Jan. 22, 1959	18.86	13,300
	Feb. 11, 1959	13.86	5,900
	Apr. 29, 1959	11.76	3,980
1960	Jan. 16, 1960	10.53	2,970
	Feb. 7, 1960	10.57	2,970
	Feb. 11, 1960	11.46	4,060
1961	Mar. 5, 1961	10.66	3,020
	Mar. 14, 1961	11.29	3,810
	Apr. 23, 1961	11.44	4,230
	Apr. 26, 1961	12.06	5,330

b Occurred at different time than peak discharge.
c About, result of levee break downstream.

3485. White River near Noblesville, Ind.
(Published as "West Branch of White River" May 1915 to September 1922, and as "West Fork of White River" October 1922 to September 1948)

Location.--Lat 40°07', long 85°58', in sec.4, T.19 N., R.5 E., near center of span on downstream side of highway bridge, 1 mile west of Strawtown, 7 miles northeast of Noblesville, and 9.5 miles upstream from Cicero Creek.

Drainage area.--814 sq mi; 837 sq mi 1914-15; 820 sq mi 1916 to July 1, 1922.

Gage.--Nonrecording prior to Nov. 22, 1933; recording thereafter. December 1913 to May 1915, at U.S. Weather Bureau site at Noblesville at datum 738.18 ft above mean sea level, datum of 1929. May 13, 1915, to July 1, 1922, at site 2 miles downstream at unknown datum. Datum of present gage is 763.08 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs at site in use 1916-22; defined by current-meter measurements at present site.

Bankfull stage.--11 ft.

Historical data.--Flood of March 1913 reached a stage of 21.5 ft, site and datum in use 1916-22, from information by local resident.

Remarks.--Gage heights for 1914-15 furnished by U.S. Weather Bureau. Gage heights October 1922 to September 1927 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate with 20 percent. Base for partial-duration series, 5,500 cfs. Only annual peaks are shown for 1927-28.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Apr. 8, 1914	12.2	(5,940)
1915	Feb. 3, 1915	12.6	(6,440)
1916	Jan. 3, 1916	13.8	16,300
	Jan. 14, 1916	8.8	7,320
	Feb. 1, 1916	15.4	19,500
	Mar. 28, 1916	7.8	5,790
1917	Jan. 6, 1917	7.6	5,500
	Mar. 15, 1917	10.2	9,600
1918	Feb. 13, 1918	8.7	7,160
1919	Dec. 15, 1918	8.6	7,000
	Dec. 22, 1918	8.8	7,320
	Mar. 17, 1919	13.13	14,900
1920	Oct. 29, 1919	9.6	8,600
	Nov. 2, 1919	8.8	7,320
	Apr. 17, 1920	10.8	10,600
	Apr. 21, 1920	10.3	9,770
1921	Mar. 29, 1921	12.2	13,200
1922	Nov. 20, 1921	12.1	12,400
	Mar. 16, 1922	-	a11,000
	Apr. 1, 1922	10.5	9,600
	Apr. 12, 1922	12.2	12,600
	Apr. 15, 1922	14.00	16,000
	Apr. 18, 1922	13.3	14,600
1923	Mar. 17, 1923	13.5	11,700
	May 16, 1923	13.0	10,200
	Aug. 29, 1923	11.8	7,300
1924	Dec. 12, 1923	11.9	7,500
	Jan. 11, 1924	11.5	6,730
	Mar. 30, 1924	14.4	14,600
	June 9, 1924	14.8	16,500
1925	Dec. 20, 1924	13.3	11,100
	Mar. 15, 1925	11.6	6,910
1926	Nov. 8, 1925	11.2	6,210
1926	Nov. 14, 1925	12.8	9,650
	Feb. 26, 1926	11.0	5,890
	Apr. 8, 1926	14.3	14,200
	Sept.11, 1926	-	a9,800
	Sept.26, 1926	-	a12,000
1927	Mar. 21, 1927	16.3	27,200
1928	Mar. 31, 1928	11.6	6,910
1929	Jan. 20, 1929	12.7	9,400
	Jan. 26, 1929	-	a7,000
	Feb. 27, 1929	13.0	10,200
	Apr. 11, 1929	11.1	6,050
	May 15, 1929	12.7	9,400
	July 2, 1929	12.8	9,650
1930	Dec. 19, 1929	11.1	6,050
	Jan. 3, 1930	12.6	9,150
	Jan. 10, 1930	14.57	15,300
	Jan. 14, 1930	14.57	15,300
	Feb. 27, 1930	12.4	8,650
1931	Apr. 4, 1931	7.98	2,540
1932	Jan. 18, 1932	12.08	7,900
1933	Dec. 25, 1932	11.5	6,730
	Jan. 1, 1933	13.0	10,200
	Mar. 21, 1933	13.4	11,400
	Apr. 19, 1933	11.7	7,100
	May 14, 1933	15.5	21,300
1934	Mar. 28, 1934	9.17	3,700
1935	May 4, 1935	11.95	7,500
1936	Feb. 25, 1936	b13.37	-
	Feb. 27, 1936	12.4	8,650
1937	Jan. 1, 1937	10.78	5,510
	Jan. 15, 1937	15.96	24,200
	Jan. 23, 1937	13.06	9,730
	Feb. 10, 1937	11.50	6,610
	Apr. 6, 1937	11.88	7,490
	June 15, 1937	11.10	5,960

a Daily mean discharge, estimated.
b Backwater from ice.

Peak stages and discharges of White River near Noblesville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Aug. 13, 1937	11.17	6,120
1938	Dec. 19, 1937	13.64	11,200
	Feb. 13, 1938	11.97	7,680
	Feb. 19, 1938	10.81	5,660
	Mar. 6, 1938	10.94	5,810
	Mar. 17, 1938	12.16	8,060
	Mar. 24, 1938	11.37	6,610
	Apr. 1, 1938	15.12	18,500
	Apr. 9, 1938	14.26	13,800
	June 27, 1938	14.09	13,400
1939	Jan. 31, 1939	11.19	6,210
	Mar. 1, 1939	11.36	6,490
	Mar. 13, 1939	14.33	13,500
	Apr. 17, 1939	14.64	15,200
1940	Apr. 21, 1940	12.95	9,020
1941	June 13, 1941	8.66	3,310
1942	Feb. 8, 1942	11.73	5,720
	Mar. 18, 1942	13.12	8,370
	Apr. 11, 1942	12.43	6,880
1943	Mar. 18, 1943	12.70	7,470
	May 12, 1943	13.47	9,240
	May 19, 1943	16.32	25,600
	Aug. 5, 1943	11.84	5,870
1944	Mar. 8, 1944	11.93	6,300
	Apr. 12, 1944	15.12	15,200
	Apr. 24, 1944	11.43	5,620
1945	Apr. 1, 1945	12.41	7,120
	June 19, 1945	13.52	9,500
1946	Oct. 3, 1945	11.40	5,620
	Dec. 31, 1945	11.51	5,740
1947	Jan. 31, 1947	-	a6,000
	May 1, 1947	11.86	6,270
	June 4, 1947	11.72	6,050
1948	Jan. 3, 1948	13.25	8,590
	Mar. 25, 1948	13.39	9,080
	Mar. 28, 1948	13.55	9,610
	Apr. 9, 1948	13.58	9,610
	Apr. 15, 1948	13.87	10,500
1949	Dec. 17, 1948	11.17	5,500
1949	Jan. 7, 1949	14.24	11,400
	Jan. 20, 1949	13.92	10,500
	Jan. 29, 1949	12.32	6,810
	Feb. 16, 1949	12.86	7,920
	Mar. 28, 1949	11.80	6,130
1950	Jan. 5, 1950	15.72	19,000
	Jan. 11, 1950	13.69	9,890
	Jan. 17, 1950	13.87	10,500
	Jan. 27, 1950	14.32	11,800
	Feb. 15, 1950	15.40	16,900
	Mar. 29, 1950	13.29	8,830
1951	Nov. 22, 1950	11.8	6,130
	Dec. 5, 1950	13.66	9,890
	Feb. 13, 1951	11.36	5,620
	Feb. 22, 1951	14.80	13,800
1952	Jan. 28, 1952	13.94	10,500
	Feb. 5, 1952	12.02	6,390
	Mar. 12, 1952	13.98	10,800
1953	Mar. 5, 1953	12.77	7,710
	May 24, 1953	11.28	5,500
1954	Mar. 31, 1954	8.02	2,340
1955	Jan. 7, 1955	12.45	6,390
1956	Nov. 18, 1955	13.48	9,340
	Feb. 27, 1956	12.34	6,810
	May 29, 1956	12.72	7,510
1957	Apr. 5, 1957	13.93	10,500
	Apr. 9, 1957	12.16	6,660
	June 29, 1957	15.93	20,800
1958	Dec. 20, 1957	-	c9,700
	Dec. 27, 1957	-	c5,550
	June 14, 1958	16.35	26,600
1959	Jan. 23, 1959	b16.10	a12,500
	Feb. 11, 1959	13.80	10,200
	Apr. 29, 1959	13.30	8,830
1960	Feb. 11, 1960	11.88	6,260
1961	Mar. 14, 1961	12.38	6,970
	Apr. 23, 1961	12.02	6,390
	Apr. 27, 1961	13.33	8,830

a Daily mean discharge, estimated.
b Backwater from ice.
c About.

3490. White River at Noblesville, Ind.
(Published as "West Fork White River" prior to October 1948)

Location.--Lat 40°02'50", long 86°01'00", in SE¼ sec.36, T.19 N., R.4 E., on right bank at downstream side of Logan Street Bridge in Noblesville, 1½ miles upstream from Cicero Creek and 3½ miles downstream from dam at Clare.

Drainage area.--837 sq mi.

Gage.--Recording. Datum of gage is 738.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--14 ft (U.S. Weather Bureau).

Historical data.--Flood of January 1847 reached the highest stage known until 1904. Flood of March 1904 was the highest stage known up to that time. Flood of Mar. 25, 1913, is maximum stage known.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges of White River at Noblesville, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a23.8	-	1952	Mar. 13, 1952	14.95	10,500
1947	Jan. 31, 1947	12.26	6,120	1953	Mar. 5, 1953	13.68	7,560
	May 1, 1947	12.67	6,640				
				1954	Mar. 31, 1954	8.14	2,380
1948	Jan. 3, 1948	14.00	8,550				
	Mar. 25, 1948	14.30	9,150	1955	Jan. 7, 1955	13.13	7,140
	Mar. 28, 1948	14.80	10,400				
	Apr. 8, 1948	14.95	11,000	1956	Nov. 18, 1955	14.14	8,150
	Apr. 15, 1948	15.13	11,400		Feb. 27, 1956	12.72	6,470
					May 29, 1956	13.88	7,880
1949	Jan. 7, 1949	15.38	11,300				
	Jan. 20, 1949	15.22	10,900	1957	Apr. 6, 1957	15.66	10,700
	Jan. 29, 1949	12.90	6,860		Apr. 10, 1957	12.89	6,540
	Feb. 16, 1949	13.55	7,860		June 30, 1957	19.94	21,100
1950	Jan. 5, 1950	18.97	19,500	1958	Dec. 20, 1957	15.41	10,100
	Jan. 11, 1950	14.82	10,100		June 15, 1958	20.55	24,000
	Jan. 17, 1950	15.14	10,700				
	Jan. 27, 1950	15.80	12,100	1959	Jan. 23, 1959	16.87	13,500
	Feb. 15, 1950	18.07	17,200		Feb. 11, 1959	15.13	9,500
	Mar. 29, 1950	14.00	8,500		Apr. 29, 1959	14.02	7,800
1951	Dec. 5, 1950	14.30	9,100	1960	Feb. 11, 1960	12.44	6,020
	Feb. 23, 1951	16.36	13,300				
				1961	Mar. 14, 1961	13.22	6,900
1952	Jan. 28, 1952	15.05	10,500		Apr. 23, 1961	12.59	6,300
	Feb. 5, 1952	12.52	6,300		Apr. 27, 1961	14.38	8,360

a From information by U.S. Weather Bureau; annual peak only.

3495. Cicero Creek near Arcadia, Ind.

Location.--Lat 40°11', long 86°00', on line between secs. 18 and 19, T.20 N., R.5 E., on left bank on downstream side of county bridge, 1½ miles east of Arcadia and 5 miles upstream from Little Cicero Creek.

Drainage area.--131 sq mi.

Gage.--Nonrecording prior to Dec. 7, 1955; recording thereafter. Datum of gage is 815.12 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs.

Historical data.--Maximum stage known, 15.6 ft (probably the flood of January 1937) from information by local residents.

Remarks.--Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 6, 1955	8.42	1,250	1958	Dec. 26, 1957	7.76	1,140
	July 16, 1955	8.49	1,280		June 15, 1958	10.00	2,740
					July 16, 1958	7.38	1,150
1956	May 28, 1956	8.87	1,500				
	July 21, 1956	8.98	1,540	1959	Jan. 21, 1959	-	-
	June 1, 1956	8.55	1,380		Feb. 11, 1959	9.37	2,170
					Apr. 28, 1959	7.66	1,240
1957	Feb. 27, 1957	8.15	1,220				
	Apr. 5, 1957	8.89	1,610	1960	Feb. 10, 1960	7.36	1,150
	Apr. 8, 1957	7.81	1,140		Mar. 29, 1960	7.38	1,150
	May 20, 1957	7.86	1,170				
	June 29, 1957	11.86	6,720	1961	Mar. 14, 1961	8.44	1,490
	July 23, 1957	7.91	1,170		Apr. 23, 1961	7.97	1,340
					Apr. 26, 1961	8.44	1,490
1958	Dec. 20, 1957	8.91	1,610				

3497. Little Cicero Creek near Arcadia, Ind.

Location.--Lat 40°10', long 86°03', on line between secs. 14 and 23, T.20 N., R.4 E., on left bank on downstream side of county road bridge, 0.5 mile downstream from Taylor Creek, 1.3 miles west of Arcadia, 3.9 miles upstream from mouth, and 9.3 miles northwest of Noblesville.

Drainage area.--44.7 sq mi.

Gage.--Recording. Altitude of gage is 840 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 3,900 cfs.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 29, 1956	5.81	1,000	1958	Aug. 16, 1958	5.23	716
	July 20, 1956	4.71	575				
				1959	Jan. 21, 1959	6.91	1,550
1957	Apr. 4, 1957	5.98	1,100		Feb. 10, 1959	6.18	1,110
	June 28, 1957	8.69	3,980				
	Aug. 25, 1957	4.64	545	1960	July 14, 1960	4.85	597
1958	Dec. 19, 1957	5.56	854	1961	Mar. 13, 1961	5.39	784
	June 10, 1958	6.76	1,480		Apr. 23, 1961	5.38	784
	June 13, 1958	6.29	1,160		Apr. 25, 1961	5.51	819
	July 12, 1958	4.56	539		June 10, 1961	6.46	1,280
	Aug. 3, 1958	5.99	1,010		July 19, 1961	7.00	1,620

3501. Hinkle Creek near Cicero, Ind.

Location.--Lat 40°06'05", long 86°05'10", on line between secs. 9 and 16, T.19 N., R.4 E., on left bank on downstream side of county road bridge, 3.7 miles above mouth, 4.0 miles upstream from Morse Reservoir Dam, 4.2 miles southwest of Cicero, and 5.7 miles northwest of Noblesville.

Drainage area.--16.3 sq mi.

Gage.--Recording. Altitude of gage is 820 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 28, 1956	4.77	636	1959	Jan. 21, 1959	5.89	950
					Feb. 10, 1959	4.86	662
1957	Apr. 3, 1957	5.13	714		Apr. 28, 1959	4.00	452
	May 13, 1957	4.05	448				
	June 12, 1957	4.16	492	1960	July 3, 1960	3.36	332
	June 28, 1957	8.45	4,920				
				1961	Mar. 13, 1961	4.33	612
1958	Dec. 20, 1957	4.71	612		Apr. 22, 1961	5.69	875
	Dec. 25, 1957	3.75	412		Apr. 25, 1961	5.24	740
	June 10, 1958	7.13	1,840		June 9, 1961	4.15	492
	June 13, 1958	5.38	792		July 19, 1961	8.21	4,280
	Aug. 2, 1958	5.24	740				
	Aug. 15, 1958	3.91	432				

3505. Cicero Creek at Noblesville, Ind.

Location.--Lat 40°03'20", long 86°02'30", in sec.35, T.19 N., R.4 E., on right bank 150 ft downstream from bridge on State Highway 38, 1 mile northwest of Noblesville, 1½ miles downstream from Hinkle Creek, and 2½ miles upstream from mouth.

Drainage area.--219 sq mi.

Gage.--Recording. Datum of gage is 750.00 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 5,500 cfs.

Remarks.--Base for partial-duration series, 2,000 cfs. Flow slightly regulated by Morse Reservoir located 1.2 miles upstream (capacity, 6,900,000,000 gal) since December 1955.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a19.5	-	1957	Apr. 4, 1957	12.37	3,660
					June 28, 1957	15.26	9,800
1951	Dec. 4, 1950	10.66	2,150				
	Feb. 13, 1951	10.74	2,150	1958	Dec. 20, 1957	12.27	3,120
	Feb. 21, 1951	11.32	2,510		June 10, 1958	13.35	5,320
					June 14, 1958	13.09	4,780
1952	Jan. 27, 1952	12.14	3,060				
	Feb. 4, 1952	10.60	2,090	1959	Jan. 21, 1959	12.69	4,120
	Mar. 11, 1952	11.90	2,920		Feb. 10, 1959	12.44	3,660
					Apr. 28, 1959	11.27	2,420
1953	Mar. 4, 1953	11.83	2,850				
				1960	Feb. 11, 1960	9.84	1,700
1954	Apr. 7, 1954	7.67	802				
				1961	Mar. 13, 1961	11.67	2,780
1955	Jan. 6, 1955	11.41	2,570		Apr. 22, 1961	11.11	2,270
	July 16, 1955	10.80	2,210		Apr. 25, 1961	12.07	3,240
					June 10, 1961	10.78	2,080
1956	May 28, 1956	12.27	b3,370				

a Annual peak only, estimated from information by Indiana Flood Control and Water Resources Commission.
b Annual peak only, Morse Reservoir in process of filling after beginning of storage.

3510. White River near Nora, Ind.
(Published as "West Fork White River" prior to Oct. 1, 1948)

Location.--Lat 39°54'35", long 86°06'20", in sec.20, T.17 N., R.4 E., on downstream side of center pier of bridge on State Highway 100, 2 miles east of Nora and 14 miles upstream from Fall Creek.

Drainage area.--1,200 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1926; recording thereafter. Prior to July 29, 1942, gage was at former bridge site 200 ft downstream at same datum. Datum of gage is 710.94 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Auxiliary recording gage 4½ miles downstream at datum 1.03 ft lower.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--13 ft.

Remarks.--Gage heights for 1926 and gage-height record for auxiliary gage furnished by Indianapolis Water Co. Figures in parentheses are approximate values considered accurate within 15 percent. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges of White River near Nora, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a22.4	bc58,500
1926	Nov. 14, 1925	11.9	(10,600)
	Apr. 9, 1926	15.3	(19,100)
	Sept. 1, 1926	10.1	(7,800)
	Sept.11, 1926	13.2	(13,200)
	Sept.26, 1926	14.8	(17,600)
1930	Dec. 19, 1929	11.06	9,320
	Jan. 3, 1930	12.65	11,900
	Jan. 10, 1930	15.02	18,200
	Jan. 15, 1930	16.50	23,200
	Feb. 27, 1930	11.20	9,480
1931	Apr. 4, 1931	6.15	2,950
1932	Jan. 18, 1932	11.68	10,300
	Jan. 23, 1932	9.75	7,370
1933	Dec. 25, 1932	10.20	7,950
	Jan. 1, 1933	12.23	11,200
	Mar. 21, 1933	14.14	15,500
	Apr. 19, 1933	10.40	8,250
	May 13, 1933	16.49	23,200
1934	Mar. 28, 1934	7.61	4,540
1935	May 4, 1935	11.52	9,960
	May 8, 1935	10.10	7,800
1936	Feb. 28, 1936	d13.96	10,800
1937	Jan. 9, 1937	9.75	7,200
	Jan. 16, 1937	17.23	26,900
	Jan. 23, 1937	12.11	10,700
	Feb. 10, 1937	9.66	7,070
	Apr. 7, 1937	11.32	9,390
1938	Dec. 18, 1937	13.27	13,300
	Feb. 14, 1938	10.42	8,040
	Feb. 20, 1938	10.00	7,480
	Mar. 17, 1938	11.37	9,550
	Mar. 25, 1938	9.71	7,070
	Apr. 1, 1938	16.33	23,300
	Apr. 9, 1938	15.08	19,000
	June 28, 1938	12.89	12,300
1939	Jan. 31, 1939	9.90	7,340
	Mar. 2, 1939	9.94	7,340
	Mar. 14, 1939	14.80	17,900
	Apr. 17, 1939	15.46	20,400
1940	Apr. 22, 1940	10.70	8,480
1941	June 13, 1941	6.26	3,150
1942	Feb. 7, 1942	10.97	9,080
	Mar. 18, 1942	11.06	9,230
	Apr. 11, 1942	11.15	9,380
	June 15, 1942	9.60	7,120
1943	Mar. 19, 1943	10.57	8,400
	May 12, 1943	14.26	15,900
	May 19, 1943	18.19	32,400
1944	Mar. 8, 1944	10.37	7,400
	Apr. 13, 1944	16.28	20,800
	Apr. 25, 1944	11.13	8,350
1945	Apr. 2, 1945	12.14	9,980
1945	June 19, 1945	12.66	11,100
1946	Oct. 3, 1945	e10.34	7,270
	Mar. 18, 1946	9.74	7,170
1947	Feb. 1, 1947	10.27	7,950
	Apr. 27, 1947	9.70	7,170
	May 1, 1947	11.37	9,600
	June 4, 1947	10.22	7,820
1948	Jan. 3, 1948	11.78	10,300
	Feb. 16, 1948	-	cf7,300
	Mar. 27, 1948	13.61	14,200
	Apr. 8, 1948	13.84	14,600
	Apr. 15, 1948	13.54	14,200
1949	Dec. 17, 1948	9.59	7,010
	Jan. 7, 1949	12.97	12,300
	Jan. 21, 1949	13.98	14,300
	Jan. 29, 1949	11.58	9,750
	Feb. 17, 1949	12.10	10,500
	Mar. 29, 1949	9.78	7,140
1950	Jan. 6, 1950	16.88	22,500
	Jan. 12, 1950	13.39	12,700
	Jan. 16, 1950	13.88	14,000
	Jan. 27, 1950	14.33	15,000
	Feb. 16, 1950	15.98	19,800
	Mar. 29, 1950	12.36	10,600
	Apr. 6, 1950	10.79	8,440
1951	Nov. 22, 1950	9.83	7,140
	Dec. 5, 1950	11.93	9,870
	Feb. 13, 1951	9.77	7,140
	Feb. 23, 1951	14.20	14,700
1952	Jan. 29, 1952	13.37	12,700
	Feb. 5, 1952	11.00	8,700
	Mar. 13, 1952	13.40	12,700
1953	Mar. 5, 1953	11.85	9,740
	May 24, 1953	10.23	7,660
	July 6, 1953	10.04	7,400
1954	Apr. 6, 1954	6.17	3,050
1955	Jan. 8, 1955	11.08	8,830
1956	Nov. 19, 1955	11.35	9,220
	Feb. 28, 1956	10.52	8,050
	May 29, 1956	13.11	12,000
1957	Apr. 6, 1957	14.08	14,400
	May 24, 1957	10.08	7,530
	June 30, 1957	18.04	30,400
1958	Dec. 21, 1957	14.18	14,300
	Dec. 27, 1957	10.48	7,900
	June 15, 1958	17.96	27,000
	Aug. 2, 1958	11.76	9,720
1959	Jan. 24, 1959	14.63	15,200
	Feb. 12, 1959	13.19	12,100
	Apr. 30, 1959	12.43	10,600
1960	Feb. 12, 1960	10.62	8,040
1961	Mar. 15, 1961	11.22	9,950
	Apr. 27, 1961	12.33	11,700
	May 10, 1961	9.62	7,500

a From floodmark, by State Highway Department of Indiana.
b Annual peak only.
c Estimated.
d Backwater from ice, occurred on Feb. 25, 1936.
e May have been higher during period of no gage-height record during December.
f Based on auxiliary water-stage recorder.

3515. Fall Creek near Fortville, Ind.

Location.--Lat 39°57'15", long 85°52'05", in sec.5, T.17 N., R.6 E., on right bank at downstream side of bridge on State Highway 238, 1 mile downstream from Lick Creek and 2 miles northwest of Fortville.

Drainage area.--172 sq mi.

Gage.--Nonrecording prior to June 27, 1942; recording thereafter. Datum of gage is 787.43 ft above mean sea level, datum of 1929 (levels by Indianapolis Water Co.).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--6 ft.

Historical data.--Flood of 1913 reached a stage of about 12 ft according to information from local resident.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 7, 1942	a6.2	-	1951	Nov. 21, 1950	6.13	1,430
	Mar. 9, 1942	6.4	1,600		Dec. 4, 1950	6.40	1,600
	Mar. 17, 1942	7.39	2,460		Feb. 13, 1951	6.08	1,460
	Apr. 10, 1942	6.0	1,360		Feb. 22, 1951	8.36	4,250
	June 14, 1942	6.2	1,420	1952	Jan. 27, 1952	6.85	2,000
1943	Mar. 17, 1943	7.53	2,600		Feb. 4, 1952	6.12	1,460
	Mar. 20, 1943	6.23	1,370		Mar. 12, 1952	6.75	1,910
	May 12, 1943	6.71	1,710	1953	Mar. 4, 1953	6.14	1,490
	May 18, 1943	9.77	8,240		July 6, 1953	8.14	3,850
1944	Apr. 12, 1944	8.79	5,000	1954	Mar. 30, 1954	5.50	1,140
1945	Mar. 7, 1945	6.14	1,320	1955	Jan. 6, 1955	5.76	1,260
	Apr. 3, 1945	6.56	1,580	1956	Nov. 17, 1955	7.11	2,200
	June 17, 1945	6.86	1,840		Feb. 26, 1956	7.86	3,130
1946	Oct. 2, 1945	6.87	1,840		May 28, 1956	7.93	3,130
	Dec. 26, 1945	6.50	1,540		Apr. 4, 1956	6.72	1,870
1947	Jan. 31, 1947	6.27	1,380	1957	Apr. 4, 1957	7.20	2,290
	June 3, 1947	6.59	1,620		Apr. 9, 1957	5.95	1,400
	July 15, 1947	7.25	2,250		May 23, 1957	6.35	1,640
1948	Jan. 2, 1948	7.19	2,350		June 12, 1957	6.88	1,790
	Feb. 14, 1948	6.17	1,500		June 17, 1957	7.28	2,110
	Mar. 24, 1948	7.97	3,500		June 29, 1957	8.12	3,430
	Mar. 27, 1948	7.21	2,350	1958	Dec. 20, 1957	7.16	2,160
	Apr. 7, 1948	7.59	2,900		Dec. 26, 1957	6.46	1,580
	Apr. 13, 1948	7.43	2,680		June 11, 1958	8.71	4,780
1949	Jan. 5, 1949	6.98	2,150		June 14, 1958	8.82	5,040
	Jan. 19, 1949	7.19	2,350		Aug. 3, 1958	8.57	4,540
	Jan. 28, 1949	6.36	1,640	1959	Jan. 22, 1959	-	-
	Feb. 16, 1949	6.90	2,070		Feb. 10, 1959	7.75	3,010
	Mar. 27, 1949	6.52	1,750	1960	Feb. 11, 1960	6.72	1,790
	June 10, 1949	7.09	2,250	1961	Mar. 5, 1961	6.22	1,470
1950	Jan. 4, 1950	8.85	5,150		Mar. 14, 1961	6.91	1,940
	Jan. 11, 1950	7.55	2,820		Apr. 23, 1961	7.63	2,710
	Jan. 16, 1950	7.60	2,900		Apr. 26, 1961	8.89	5,310
	Jan. 26, 1950	7.93	3,450		May 10, 1961	6.58	1,720
	Feb. 14, 1950	8.41	4,350				
	Mar. 28, 1950	7.33	2,520				
	June 4, 1950	7.32	2,520				

a Backwater from ice.

3520. Lawrence Creek at Fort Benjamin Harrison, Ind.

Location.--Lat 39°52'09", long 86°01'25", in S½ sec.36, T.17 N., R.4 E., on left bank 100 ft upstream from Shafter Avenue Bridge in Fort Benjamin Harrison, 600 ft east of sewage-disposal plant, and a third of a mile upstream from mouth.

Drainage area.--2.86 sq mi.

Gage.--Recording. Datum of gage is 749.10 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended on basis of slope-area measurement at 418 cfs and contracted-opening measurement at 2,650 cfs.

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	June 12, 1952	4.90	418	1958	July 10, 1958	4.96	870
	June 21, 1952	4.61	379		July 31, 1958	5.20	940
1953	May 22, 1953	4.41	355	1959	Jan. 21, 1959	5.18	940
					July 19, 1959	3.83	454
1954	Apr. 5, 1954	3.97	340	1960	Oct. 10, 1959	3.94	312
1955	June 10, 1955	2.74	150		July 3, 1960	4.10	360
					July 13, 1960	4.82	550
1956	Oct. 6, 1955	3.85	496		Aug. 3, 1960	4.82	550
	Nov. 2, 1955	3.64	442				
	Nov. 16, 1955	4.68	765	1961	Mar. 4, 1961	4.12	360
	Feb. 25, 1956	6.36	1,390		Mar. 13, 1961	4.05	336
	May 28, 1956	9.32	2,650		Apr. 22, 1961	5.35	748
					Apr. 25, 1961	5.99	970
1958	Dec. 18, 1957	3.57	338		May 8, 1961	4.37	437
	Dec. 25, 1957	3.46	338		June 9, 1961	4.71	521
	May 3, 1958	3.58	338		July 20, 1961	4.74	521
	June 10, 1958	5.61	1,080				

3525. Fall Creek at Millersville, Ind.

Location.--Lat 39°51'05", long 86°05'20", in sec.9, T.16 N., R.4 E., on left bank at downstream side of highway bridge at Millersville, 8.5 miles upstream from mouth.

Drainage area.--313 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1926, recording thereafter. Datum of gage is 722.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended on basis of slope-area measurements at 22,000 cfs.

Bankfull stage.--7 ft.

Historical data.--Flood of Mar. 26, 1913, is maximum stage known.

Remarks.--Flow slightly regulated by Geist Reservoir since January 1943 (capacity, 6,900,000,000 gal). Gage heights for 1926 furnished by Indianapolis Water Co. Figures in parentheses are approximations considered accurate within 20 percent. Base for partial-duration series, 2,000 cfs.

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Peak stages and discharges of Fall Creek at Millersville, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a16.3	b22,000
1926	Nov. 9, 1925	7.5	(2,300)
	Nov. 14, 1925	8.4	(3,000)
	Jan. 18, 1926	7.1	(2,040)
	Apr. 8, 1926	10.5	(5,240)
	Aug. 7, 1926	7.2	(2,100)
	Sept. 3, 1926	10.6	(5,360)
	Sept. 6, 1926	10.5	(5,240)
	Sept. 9, 1926	10.8	(5,600)
1930	Dec. 15, 1929	7.00	2,010
	Dec. 19, 1929	7.73	2,450
	Jan. 3, 1930	8.22	2,830
	Jan. 10, 1930	10.71	5,480
	Jan. 14, 1930	11.14	6,170
	Feb. 27, 1930	8.47	3,090
1931	Apr. 4, 1931	3.62	520
1932	Dec. 11, 1931	7.40	2,220
	Jan. 17, 1932	8.63	3,170
1933	Dec. 25, 1932	7.40	2,310
	Jan. 1, 1933	8.72	3,360
	Mar. 20, 1933	10.04	4,760
	Apr. 19, 1933	7.45	2,310
	May 14, 1933	11.77	6,900
1934	Mar. 28, 1934	5.08	1,000
1935	July 5, 1935	9.46	3,820
1936	Feb. 27, 1936	7.53	2,180
1937	Jan. 10, 1937	8.28	2,760
	Jan. 15, 1937	11.33	10,300
	Jan. 22, 1937	7.83	3,420
	Apr. 6, 1937	-	c2,370
1938	Dec. 18, 1937	9.04	4,930
	Mar. 7, 1938	6.73	2,060
	Mar. 17, 1938	6.93	2,320
	Mar. 24, 1938	7.08	2,510
	Apr. 1, 1938	9.37	5,600
	Apr. 8, 1938	8.60	4,310
	July 3, 1938	7.70	3,260
1939	Jan. 30, 1939	5.83	2,560
	Mar. 12, 1939	6.54	3,290
	Apr. 17, 1939	7.23	4,180
1940	Apr. 18, 1940	5.53	2,290
	Apr. 21, 1940	5.34	2,120
1941	June 13, 1941	2.62	394
1942	Feb. 7, 1942	6.00	2,600
	Mar. 18, 1942	6.65	3,250
	Apr. 10, 1942	5.58	2,230
1943	May 11, 1943	7.35	3,870
	May 18, 1943	11.34	11,100
1944	Apr. 11, 1944	9.94	7,900
1945	Apr. 2, 1945	6.80	2,840
	June 18, 1945	7.51	3,700
1946	Oct. 2, 1945	6.70	2,240
	May 11, 1946	6.49	2,450
	June 19, 1946	6.75	2,660
1947	Jan. 30, 1947	5.92	2,030
	June 3, 1947	6.42	2,240
1948	Jan. 2, 1948	7.16	2,960
	Mar. 24, 1948	9.00	4,690
	Mar. 27, 1948	8.71	4,350
	Apr. 6, 1948	10.45	6,770
	Apr. 14, 1948	8.28	3,950
1949	Jan. 6, 1949	7.10	2,830
	Jan. 19, 1949	8.27	3,850
	Jan. 28, 1949	6.89	2,670
	Feb. 16, 1949	6.92	2,670
	Mar. 27, 1949	6.51	2,350
	June 11, 1949	6.82	2,590
1950	Jan. 5, 1950	10.85	7,400
	Jan. 11, 1950	8.24	3,750
	Jan. 16, 1950	9.38	5,300
	Jan. 26, 1950	9.28	5,150
	Feb. 14, 1950	9.98	6,200
	Mar. 28, 1950	7.67	3,310
	June 5, 1950	6.27	2,200
	July 5, 1950	6.21	2,140
1951	Nov. 20, 1950	6.66	2,510
	Dec. 4, 1950	6.10	2,070
	Feb. 22, 1951	9.26	5,150
1952	Jan. 28, 1952	7.90	3,020
	Feb. 4, 1952	6.63	2,090
	Mar. 12, 1952	7.34	2,560
1953	Mar. 4, 1953	7.01	2,350
	July 7, 1953	10.73	5,130
1954	Apr. 5, 1954	7.53	2,550
1955	Mar. 2, 1955	5.52	1,300
1956	Nov. 18, 1955	7.44	2,480
	Feb. 25, 1956	9.58	4,250
	Apr. 5, 1956	6.94	2,140
	May 28, 1956	13.53	12,900
1957	Apr. 4, 1957	8.83	3,540
	Apr. 10, 1957	7.15	2,340
	May 23, 1957	7.40	2,480
	June 13, 1957	7.17	2,280
	June 18, 1957	7.49	2,520
	June 30, 1957	9.91	4,590
1958	Dec. 20, 1957	9.23	3,880
	Dec. 26, 1957	7.62	2,680
	June 11, 1958	11.56	7,450
	June 14, 1958	11.15	6,510
	July 12, 1958	7.14	2,330
	Aug. 1, 1958	7.65	2,680
	Aug. 4, 1958	9.82	4,480
1959	Jan. 22, 1959	10.82	5,770
	Feb. 11, 1959	9.91	4,590
1960	Feb. 10, 1960	7.28	2,470
1961	Mar. 6, 1961	6.95	2,160
	Mar. 13, 1961	7.89	2,720
	Apr. 23, 1961	8.73	3,330
	Apr. 25, 1961	11.01	6,050
	May 9, 1961	7.82	2,650
	June 10, 1961	6.86	2,100

a From floodmarks.
b Annual peak only.
c Daily mean discharge.

3530. White River at Indianapolis, Ind.
(Published as "West Fork White River" prior to October 1948)

Location.--Lat 39°45'05", long 86°10'30", on downstream side of second pier from right bank of Morris Street Bridge in Indianapolis, 2½ miles downstream from Fall Creek.

Drainage area.--1,627 sq mi.

Gage.--Nonrecording prior to Mar. 3, 1932; recording thereafter. Mar. 26, 1904, to July 21, 1906, at site three-quarters of a mile upstream at datum approximately 2.9 ft higher. Feb. 8, 1911, to Mar. 25, 1913, at site 1.1 miles upstream at datum 671.88 ft above mean sea level, datum of 1929. Oct. 16, 1913, to Mar. 31, 1930, at site 2.3 miles upstream at datum 672.92 ft above mean sea level, datum of 1929. Apr. 1, 1930, to July 20, 1931, at sanitation plant 2½ miles downstream at present datum. Datum of present gage is 662.26 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs for 1904-6. Rating for Feb. 8, 1911, to Mar. 25, 1913, based on shape of rating curve used for 1904-6 and difference in the 1913 flood stage at the two sites. Rating for U.S. Weather Bureau gage used Oct. 16, 1913, to Mar. 31, 1930, computed on basis of gage-height relation curve and defined rating for present site. Defined by current-meter measurements below 2,300 cfs for period Apr. 1, 1930, to July 20, 1931. Defined by current-meter measurements at present site. Construction of levees, channel improvements, and dredging operations at various times have materially affected the stage-discharge relation.

Historical data.--The Indianapolis Journal dated July 31, 1875, states that flood in September 1828 was 2 or 3 ft higher than the 1875 flood, and that flood in January 1847 was nearly as high as the 1828 flood. The Corps of Engineers "308" Report states that flood in August 1875 closely approximated the 1913 flood in size on West Fork of White River, being slightly higher at some points and slightly lower at others. On the basis of the above statements, it may be possible that the 1875 flood had not crested at the time of publication of the Journal of July 31, 1875, and that the 1875 flood was not as high as the 1913 flood at Indianapolis.

Remarks.--Indianapolis Water Co. diverts water for municipal water supply 12 miles above station, most of which is returned at sanitation plant 3 miles below gage. Peak discharges not materially affected. Gage heights for 1912-30, except 1913 maximum, furnished by U.S. Weather Bureau. Figures shown in parentheses are approximate values considered accurate within 25 percent. Base for partial-duration series, 8,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 27, 1904	24.7	a(46,000)
1905	May 13, 1905	13.3	8,600
1906	Apr. 1, 1906	16.8	a(21,000)
1912	Feb. 28, 1912	13.8	(24,000)
	Mar. 16, 1912	10.8	(15,000)
	Mar. 21, 1912	8.4	(9,400)
	Mar. 30, 1912	13.5	(22,600)
	Apr. 3, 1912	10.6	(14,500)
	May 17, 1912	9.7	(12,400)
1913b/	Jan. 9, 1913	10.6	(14,500)
	Jan. 19, 1913	11.0	(15,500)
	Jan. 22, 1913	12.0	(18,500)
	Mar. 26, 1913	c30.0	d70,000
1914	Apr. 9, 1914	11.9	(14,500)
1915	Feb. 4, 1915	11.4	(13,200)
1916	Jan. 3, 1916	17.2	(32,300)
	Jan. 13, 1916	11.7	(14,000)
	Feb. 1, 1916	20.8	(46,200)
1916	Mar. 29, 1916	9.5	(8,600)
1917	Mar. 15, 1917	12.9	(17,500)
	Apr. 7, 1917	9.5	(8,600)
1918	Feb. 11, 1918	12.8	(17,200)
1919	Dec. 15, 1918	11.5	(13,400)
	Dec. 22, 1918	12.0	(14,800)
	Mar. 17, 1919	17.2	(32,300)
1920	Oct. 29, 1919	10.5	(10,900)
	Nov. 2, 1919	11.0	(12,100)
	Apr. 21, 1920	15.4	(25,700)
1921	Mar. 29, 1921	14.6	(23,000)
1922	Nov. 20, 1921	15.1	(24,600)
	Nov. 29, 1921	11.8	(14,300)
	Dec. 25, 1921	10.3	(10,400)
	Mar. 16, 1922	13.8	(20,400)
	Apr. 1, 1922	13.4	(19,100)
	Apr. 12, 1922	15.0	(24,300)
	Apr. 16, 1922	17.1	(31,900)

a Annual peak only.
b No record Mar. 27 to Sept. 30.
c Present site and datum, from floodmarks by Indianapolis Water Co.
d Estimated.

Peak stages and discharges of White River at Indianapolis, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Mar. 13, 1923	10.4	(10,700)
	Mar. 17, 1923	14.1	(21,300)
	May 17, 1923	14.0	(21,000)
1924	Dec. 15, 1923	12.4	(16,000)
	Dec. 24, 1923	9.5	(8,600)
	Jan. 12, 1924	10.5	(10,900)
	Jan. 31, 1924	10.2	(10,200)
	Feb. 6, 1924	9.7	(9,000)
	Mar. 30, 1924	15.9	(27,400)
	June 10, 1924	15.6	(26,400)
1925	Dec. 20, 1924	14.1	(21,300)
	Mar. 15, 1925	12.2	(15,400)
1926	Nov. 14, 1925	12.1	(15,100)
	Jan. 19, 1926	9.5	(8,600)
	Apr. 9, 1926	16.3	(28,900)
	Sept. 9, 1926	15.4	(25,700)
	Sept.26, 1926	12.8	(17,200)
1927	Oct. 4, 1926	10.3	(10,400)
	Nov. 3, 1926	9.5	(8,600)
	Jan. 31, 1927	12.1	(15,100)
	Feb. 6, 1927	12.1	(15,100)
	Mar. 21, 1927	19.2	(39,900)
	Apr. 5, 1927	10.2	(10,200)
	Apr. 10, 1927	9.5	(8,600)
	May 20, 1927	18.1	(35,700)
	May 26, 1927	10.2	(10,200)
	June 5, 1927	10.3	(10,400)
1928	Dec. 2, 1927	11.7	(14,000)
	Dec. 15, 1927	11.0	(12,100)
	Feb. 16, 1928	10.1	(9,900)
	Mar. 31, 1928	10.7	(11,400)
	June 6, 1928	10.3	(10,400)
	June 10, 1928	10.8	(11,600)
	June 21, 1928	10.5	(10,900)
	July 5, 1928	9.7	(9,000)
1929	Jan. 19, 1929	12.7	(16,900)
	Jan. 25, 1929	10.5	(10,900)
	Feb. 27, 1929	11.2	(12,600)
	Apr. 11, 1939	10.3	(10,400)
	May 15, 1929	12.6	(16,600)
	May 19, 1929	11.1	(12,400)
	May 29, 1929	9.5	(8,600)
	July 2, 1929	12.8	(17,200)
	July 10, 1929	9.7	(9,000)
1930	Dec. 15, 1929	10.2	(10,200)
	Dec. 18, 1929	11.8	(14,300)
	Jan. 3, 1930	13.2	(18,400)
	Jan. 10, 1930	16.2	(28,500)
	Jan. 15, 1930	18.3	(36,400)
	Feb. 26, 1930	12.0	(14,800
1931	Apr. 4, 1931	4.30	3,510
1932	Jan. 18, 1932	-	e14,000
1933	Dec. 9, 1932	12.22	8,760
	Dec. 26, 1932	13.2	10,600
	Dec. 31, 1932	15.9	16,100
	Mar. 21, 1933	17.29	19,600
	Mar. 27, 1933	12.44	9,120
	Apr. 19, 1933	13.01	10,200
	May 13, 1933	21.28	32,200
1934	Mar. 28, 1934	10.0	5,850
1935	May 4, 1935	13.67	11,000
	May 8, 1935	12.21	8,500
1936	Feb. 27, 1936	16.3	16,900
1937	Dec. 31, 1936	12.55	9,660
	Jan. 10, 1937	12.6	9,660
	Jan. 16, 1937	21.57	32,700
1937	Jan. 22, 1937	14.90	13,700
	Feb. 1, 1937	12.08	8,860
	Feb. 10, 1937	11.86	8,550
	Apr. 6, 1937	13.96	12,000
1938	Dec. 18, 1937	16.95	18,400
	Feb. 14, 1938	11.89	8,550
	Feb. 20, 1938	12.65	9,660
	Mar. 7, 1938	11.96	8,550
	Mar. 17, 1938	13.94	11,500
	Mar. 25, 1938	12.5	9,340
	Apr. 1, 1938	19.46	25,800
	Apr. 9, 1938	17.91	20,900
	June 28, 1938	14.23	12,300
	July 2, 1938	15.41	14,700
1939	Jan. 31, 1939	13.23	10,600
	Mar. 2, 1939	12.11	8,860
	Mar. 14, 1939	16.87	19,800
	Apr. 17, 1939	18.28	23,700
1940	Apr. 21, 1940	12.85	10,600
1941	June 14, 1941	7.07	3,300
1942	Feb. 7, 1942	12.73	12,600
	Mar. 10, 1942	10.56	8,620
	Mar. 18, 1942	11.87	11,000
	Apr. 11, 1942	11.84	10,800
1943	Mar. 19, 1943	11.28	9,880
	May 12, 1943	15.62	19,500
	May 18, 1943	21.39	37,200
1944	Apr. 12, 1944	17.25	24,700
	Apr. 25, 1944	11.16	10,800
1945	Apr. 2, 1945	13.47	14,400
	May 17, 1945	10.38	9,030
	June 18, 1945	13.37	14,200
1946	Oct. 3, 1945	10.84	9,530
	Dec. 31, 1945	11.05	9,870
	Mar. 18, 1946	10.75	9,530
1947	Feb. 1, 1947	10.31	9,570
	Apr. 27, 1947	9.82	8,620
	May 2, 1947	11.11	11,200
	June 4, 1947	10.57	10,200
1948	Jan. 3, 1948	11.74	11,400
	Mar. 24, 1948	13.13	14,200
	Mar. 27, 1948	15.04	18,000
	Apr. 6, 1948	15.76	20,000
	Apr. 14, 1948	14.04	16,000
1949	Jan. 7, 1949	-	e15,000
	Jan. 19, 1949	14.49	17,000
	Jan. 28, 1949	12.04	12,000
	Feb. 17, 1949	11.95	12,000
1950	Jan. 5, 1950	18.65	27,600
	Jan. 16, 1950	15.55	20,200
	Jan. 26, 1950	15.44	19,800
	Feb. 16, 1950	16.8	22,600
	Mar. 29, 1950	12.13	13,200
	Apr. 6, 1950	10.37	9,800
1951	Dec. 6, 1950	11.03	11,000
	Feb. 13, 1951	9.95	9,040
	Feb. 23, 1951	14.07	17,200
1952	Jan. 29, 1952	13.16	15,400
	Feb. 5, 1952	11.22	11,400
	Mar. 12, 1952	-	e17,500
1953	Mar. 4, 1953	11.43	11,800
	May 25, 1953	10.73	10,400
	July 7, 1953	10.94	10,800

e Daily mean discharge, estimated.

Peak stages and discharges of White River at Indianapolis, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 6, 1954	8.54	6,340	1958	June 11, 1958	17.52	25,800
					June 15, 1958	18.87	30,500
1955	Jan. 8, 1955	10.35	9,800		July 31, 1958	10.09	9,220
					Aug. 3, 1958	13.24	15,400
1956	Nov. 19, 1955	10.83	10,300				
	Feb. 25, 1956	11.43	11,400	1959	Jan. 22, 1959	14.43	17,800
	May 28, 1956	20.20	31,200		Feb. 10, 1959	13.81	16,600
					Apr. 30, 1959	11.55	12,200
1957	Apr. 6, 1957	14.28	17,100				
	May 22, 1957	11.38	11,400	1960	Feb. 11, 1960	10.48	10,000
	June 17, 1957	10.13	9,030				
	June 30, 1957	19.03	28,000	1961	Mar. 15, 1961	11.42	12,500
					Apr. 25, 1961	15.77	21,300
1958	Dec. 20, 1957	14.83	18,100		May 10, 1961	10.46	10,700
	Dec. 27, 1957	10.60	9,940				

3535. Eagle Creek at Indianapolis, Ind.

Location.--Lat 39°46'33", long 86°15'01", in NE¼ sec.1, T.15 N., R.2 E., on right bank at downstream side of bridge on Lynnhurst Drive, approximately 600 ft south of intersection of West 10th Street and Lynnhurst Drive, 0.5 mile downstream from West 10th Street Bridge, 1.0 mile upstream from Vermont Street Bridge, 2.9 miles upstream from Little Eagle Creek, and 6.9 miles upstream from mouth.

Drainage area.--179 sq mi.

Gage.--Nonrecording prior to Mar. 20, 1939; recording thereafter. Datum of gage is 706.21 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of a combined current-meter measurement and slope-area measurement. Discharge shown for the 1913 flood is an approximate value based on logarithmic extension of an early rating curve above 9,000 cfs.

Historical data.--The following information was obtained from a report on "Eagle Creek at Indianapolis, Channel Improvements for Flood Control" by Indiana Flood Control and Water Resources Commission, dated February 1956: "Investigations on past flooding by searching newspaper files, interrogation of local persons, examination of old surveys and reports, indicate that flooding occurred along Eagle Creek in 1875, 1904, 1913, 1915, 1926, 1933, 1943 and 1950. Newspaper accounts of flooding on other streams in the Indianapolis area indicate that flooding probably also occurred in 1847, 1858, 1866, 1882 and 1883."

"It is probable that the floods of 1875 and 1904 were among the greater floods on the stream. Newspaper accounts and weather records indicate that the flood of July 1915 was nearly as great as that of March 1913."

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a16.0	b19,000	1942	June 14, 1942	7.42	2,820
1938	April 1938	c14.5	-	1943	May 11, 1943	12.17	9,660
					May 17, 1943	12.08	9,200
1939	Jan. 30, 1939	8.45	3,790				
	Feb. 2, 1939	6.50	2,000	1944	Mar. 5, 1944	6.53	2,110
	Feb. 20, 1939	7.40	2,810		Apr. 11, 1944	10.61	6,610
	Feb. 28, 1939	7.20	2,600		Apr. 24, 1944	9.20	4,710
	Mar. 12, 1939	d10.6	6,610				
	Apr. 17, 1939	9.74	5,340	1945	Mar. 31, 1945	8.80	4,230
					Apr. 2, 1945	6.85	2,330
1940	Mar. 3, 1940	6.30	1,860		May 17, 1945	7.35	2,820
					June 16, 1945	8.33	3,680
1941	June 12, 1941	5.77	1,470		Sept.29, 1945	6.72	2,110
1942	Feb. 7, 1942	8.66	4,120	1946	Oct. 2, 1945	7.36	2,500
	Apr. 10, 1942	6.82	2,330		Dec. 30, 1945	6.67	2,080

a From information by local residents. b Annual peak only. c About, from information by local resident, annual peak only. d From floodmarks.

Peak stages and discharges of Eagle Creek at Indianapolis, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Feb. 14, 1946	7.42	2,500	1952	Feb. 4, 1952	7.00	2,740
	Mar. 15, 1946	7.20	2,380		Mar. 11, 1952	9.50	5,120
	Mar. 17, 1946	6.60	2,020		June 12, 1952	6.82	2,560
	May 17, 1946	8.99	3,860				
				1953	Mar. 4, 1953	9.34	4,920
1947	Jan. 30, 1947	8.47	3,370		May 24, 1953	6.67	2,560
	Apr. 30, 1947	6.68	2,080				
				1954	Apr. 6, 1954	6.41	2,250
1948	Jan. 2, 1948	7.75	2,780				
	Feb. 17, 1948	6.68	2,080	1955	Jan. 6, 1955	6.19	2,090
	Feb. 28, 1948	6.75	2,140		July 16, 1955	6.91	2,650
	Mar. 24, 1948	9.63	4,500				
	Mar. 27, 1948	10.95	6,220	1956	Nov. 16, 1955	7.34	3,140
	Apr. 6, 1948	12.26	9,550		Feb. 25, 1956	8.26	4,040
	Apr. 13, 1948	8.60	3,460		May 28, 1956	13.62	9,920
1949	Dec. 16, 1948	6.59	2,020	1957	Jan. 23, 1957	6.22	2,220
	Dec. 29, 1948	7.13	2,320		Apr. 4, 1957	9.06	4,840
	Jan. 5, 1949	8.70	3,550		Apr. 8, 1957	6.08	2,270
	Jan. 19, 1949	11.86	7,250		May 22, 1957	6.47	2,600
	Jan. 28, 1949	8.55	3,460		June 28, 1957	16.38	28,800
	Feb. 15, 1949	9.60	4,500				
				1958	Nov. 15, 1957	10.34	2,580
1950	Jan. 4, 1950	13.03	8,670		Dec. 20, 1957	12.90	5,030
	Jan. 10, 1950	9.35	4,280		Dec. 26, 1957	10.58	2,830
	Jan. 14, 1950	8.45	3,280		June 11, 1958	15.33	7,780
	Jan. 16, 1950	10.60	5,690		June 14, 1958	14.25	6,480
	Jan. 24, 1950	7.26	2,440		July 31, 1958	5.50	2,110
	Jan. 26, 1950	10.60	5,690		Aug. 3, 1958	10.24	8,560
	Feb. 13, 1950	10.30	5,330		Aug. 16, 1958	6.30	2,880
	Mar. 28, 1950	7.92	2,860				
	Apr. 4, 1950	7.25	2,380	1959	Jan. 22, 1959	8.94	6,290
	July 3, 1950	7.78	2,780		Feb. 10, 1959	8.41	5,620
1951	Nov. 20, 1950	7.33	2,590	1960	June 23, 1960	4.77	1,870
	Dec. 3, 1950	7.30	2,590				
	Dec. 7, 1950	6.69	2,120	1961	Mar. 13, 1961	5.56	3,800
	Jan. 3, 1951	6.62	2,050		Apr. 23, 1961	6.75	5,510
	Feb. 12, 1951	6.73	2,120		Apr. 25, 1961	7.80	7,110
	Feb. 21, 1951	8.47	3,950		May 8, 1961	4.43	2,500
1952	Jan. 27, 1952	9.88	5,520				

3540. White River near Centerton, Ind.

(Published as West Fork of White River at or near Martinsville July 1925 to March 1932 and as West Fork White River near Centerton November 1946 to September 1948)

Location.--Lat 39°30'02", long 86°24'24", in SW¼SE¼ sec.3, T.12 N., R.1 E., on right bank three-eighths of a mile downstream from highway bridge, 1 mile south of Centerton, 1 1/8 miles downstream from White Lick Creek, and at mile 202.6.

Drainage area.--2,435 sq mi; 2,478 sq mi 1925-32.

Gage.--Nonrecording prior to Aug. 1, 1953; recording thereafter. At bridge 8½ miles downstream at different datum prior to Apr. 1, 1932. At bridge three-eighths of a mile upstream at present datum Nov. 13, 1946, to July 31, 1953. Datum of gage is 595.44 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark), levels by Indianapolis Power & Light Co.

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Bankfull stage.--12 ft.

Historical data.--Flood of 1913 reached a stage of 21.9 ft at present site from information obtained by Corps of Engineers.

Remarks.--Gage heights for 1926-30 furnished by the Indiana Department of Conservation. Base for partial-duration series, 9,500 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges of White River near Centerton, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a22.8	b90,000
1926	Sept.10, 1926	18.6	-
1927	Mar. 21, 1927	18.6	-
1928	Dec. 3, 1927	11.9	-
1929	May 19, 1929	16.0	-
1930	Jan. 14, 1930	18.0	-
1931	Apr. 5, 1931	5.50	3,610
1932	Dec. 12, 1931	11.2	11,600
	Jan. 15, 1932	11.9	12,900
	Jan. 18, 1932	15.20	19,800
	Jan. 23, 1932	12.6	14,400
1947	Jan. 30, 1947	10.4	11,700
	Apr. 27, 1947	9.4	9,940
	May 2, 1947	10.8	12,500
	June 2, 1947	11.6	13,800
	June 6, 1947	12.35	15,500
1948	Jan. 4, 1948	10.9	12,600
	Mar. 28, 1948	c15.6	27,400
	Apr. 7, 1948	b15.4	26,400
	Apr. 15, 1948	b13.8	19,700
1949	Jan. 7, 1949	13.6	19,400
	Jan. 19, 1949	15.36	27,500
	Jan. 28, 1949	13.6	19,400
	Feb. 15, 1949	12.7	16,600
	Mar. 28, 1949	11.7	14,200
1950	Jan. 7, 1950	c17.2	43,000
	Jan. 16, 1950	-	d26,000
	Jan. 28, 1950	-	d25,000
	Feb. 15, 1950	16.0	32,100
	Feb. 22, 1950	9.9	10,800
	Mar. 28, 1950	12.2	15,300
	Apr. 5, 1950	10.8	12,500
1951	Nov. 20, 1950	10.0	11,000
	Dec. 7, 1950	13.5	18,800
	Feb. 14, 1951	9.1	9,510
	Feb. 22, 1951	13.60	19,100
1952	Jan. 2, 1952	9.2	9,750
1952	Jan. 28, 1952	13.10	17,600
	Feb. 4, 1952	12.0	14,800
	Mar. 14, 1952	12.6	16,300
	Mar. 24, 1952	9.2	9,750
	Apr. 14, 1952	9.5	10,200
	June 23, 1952	10.6	12,100
1953	Mar. 5, 1953	12.41	15,800
	May 25, 1953	11.1	13,000
	July 7, 1953	-	d13,000
1954	Apr. 7, 1954	8.18	8,600
1955	Jan. 9, 1955	9.07	9,950
1956	Nov. 16, 1955	14.64	25,700
	Feb. 26, 1956	13.52	20,900
	Apr. 3, 1956	10.41	12,400
	May 29, 1956	16.25	35,400
1957	Apr. 5, 1957	14.41	24,800
	May 22, 1957	13.81	22,200
	June 16, 1957	9.33	10,300
	June 30, 1957	16.06	34,700
	July 5, 1957	13.72	21,700
1958	Dec. 20, 1957	14.84	31,200
	Dec. 26, 1957	12.13	16,900
	May 6, 1958	8.74	9,650
	June 15, 1958	15.36	37,000
	July 20, 1958	8.90	9,600
	Aug. 1, 1958	12.48	18,100
	Aug. 4, 1958	13.12	20,400
1959	Jan. 22, 1959	14.73	d26,000
	Feb. 11, 1959	13.60	22,800
	May 1, 1959	10.65	14,200
1960	Feb. 6, 1960	8.57	9,910
	Feb. 10, 1960	11.15	14,600
	June 24, 1960	14.29	27,000
1961	Mar. 6, 1961	9.93	12,100
	Mar. 13, 1961	13.15	20,800
	Mar. 21, 1961	10.16	12,600
	Apr. 26, 1961	15.92	42,300
	May 8, 1961	15.45	37,000

a From information by State Department of Indiana. b Estimated. c From floodmark. d Daily mean discharge, estimated.

3545. Bean Blossom Creek at Bean Blossom, Ind.

Location.--Lat 39°15'45", long 86°14'55", in NW¼ sec.31, T.10 N., R.3 E., on right bank 15 ft downstream from bridge on State Highway 135, 0.3 mile south of Bean Blossom, and 2.5 miles upstream from North Fork Bean Blossom Creek.

Drainage area.--14.6 sq mi.

Gage.--Recording. Datum of gage is 673.65 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended on basis of contracted-opening measurement at 7,940 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges of Bean Blossom Creek at Bean Blossom, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 4, 1951	9.41	1,560	1957	June 28, 1957	7.67	880
	Dec. 7, 1951	11.42	5,040				
	Dec. 9, 1951	9.38	1,560	1958	Dec. 20, 1957	8.72	1,230
	Jan. 26, 1952	9.89	1,880		Dec. 25, 1957	7.86	940
	Mar. 10, 1952	7.93	940		June 11, 1958	8.68	1,230
	May 24, 1952	11.12	3,770		June 13, 1958	10.36	2,360
					July 11, 1958	7.43	790
1953	Mar. 3, 1953	7.43	790				
				1959	Jan. 21, 1959	10.57	2,600
1954	Jan. 26, 1954	5.48	335		Feb. 10, 1959	9.49	1,620
					Feb. 14, 1959	7.21	735
1955	Mar. 21, 1955	7.20	700				
				1960	Feb. 10, 1960	7.08	710
1956	Nov. 16, 1955	7.45	790		June 23, 1960	11.78	8,140
	May 28, 1956	7.53	820				
	June 21, 1956	10.33	2,250	1961	Mar. 5, 1961	7.12	828
					Mar. 12, 1961	7.89	1,060
1957	Apr. 3, 1957	9.90	1,880		Apr. 25, 1961	8.08	856
	May 19, 1957	10.24	2,140		May 8, 1961	10.83	3,000
	May 21, 1957	9.84	1,820				

3550. Bear Creek near Trevlac, Ind.

Location.--Lat 39°16'40", long 86°20'45", in NE¼ sec.30, T.10 N., R.2 E., on left bank at footbridge, 15 ft west of county road, 1.1 miles northwest of Trevlac, and 1.3 miles upstream from mouth.

Drainage area.--7.00 sq mi.

Gage.--Recording. Altitude of gage is 640 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs extended on basis of slope-area measurement of 1,130 cfs.

Bankfull stage.--5 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 3, 1953	3.72	252	1957	June 12, 1957	7.62	1,830
1954	Jan. 26, 1954	3.76	258	1958	Dec. 19, 1957	4.82	494
	June 13, 1954	3.37	214		Dec. 25, 1957	4.28	366
					June 10, 1958	5.33	640
1955	Jan. 5, 1955	3.32	208		June 13, 1958	6.14	940
	Mar. 20, 1955	4.01	285		June 19, 1958	4.08	328
	Apr. 13, 1955	3.71	252		June 25, 1958	3.29	211
	May 28, 1955	5.36	670		July 11, 1958	3.58	250
1956	Nov. 16, 1955	7.20	1,580	1959	Jan. 21, 1959	6.43	1,100
	Feb. 2, 1956	3.71	252		Feb. 10, 1959	5.03	550
	Feb. 25, 1956	3.95	280		Apr. 19, 1959	4.50	412
	Apr. 3, 1956	3.27	202				
	May 27, 1956	5.85	810	1960	Jan. 14, 1960	3.26	211
	June 21, 1956	5.43	670		Feb. 10, 1960	4.33	366
					June 23, 1960	7.08	1,520
1957	Jan. 22, 1957	3.42	219				
	Apr. 3, 1957	5.95	895	1961	Mar. 12, 1961	3.71	264
	May 19, 1957	3.94	280		May 8, 1961	6.07	1,400
	May 22, 1957	4.67	466		June 6, 1961	3.47	366

3560. Bean Blossom Creek at Dolan, Ind.

Location.--Lat 39°14'30", long 86°29'57", in SW¼ sec.2, T.9 N., R.1 W., on downstream side of right pier of highway bridge at Dolan, 17.5 miles upstream from mouth.

Drainage area.--100 sq mi.

Gage.--Nonrecording prior to Sept. 28, 1951; recording thereafter. Datum of gage is 576.41 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements. Discharge adjusted for rate of change of stage above 5 ft. Only annual maximums adjusted prior to installation of recording gage.

Bankfull stage.--15 ft.

Remarks.--Flow slightly regulated since April 1953 by Lake Lemon (formerly known as Bloomington Reservoir) capacity, 4,640,000,000 gal, 7½ miles upstream. Base for partial-duration series, 1,500 cfs. Peak stage usually occurs at different time than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 16, 1946	13.0	a1,830	1952	Dec. 5, 1951	12.94	1,740
					Dec. 8, 1951	14.96	2,800
1947	Apr. 11, 1947	-	b1,500		Dec. 26, 1951	12.88	1,720
	Apr. 26, 1947	14.6	2,470		Jan. 27, 1952	15.23	3,200
	Apr. 30, 1947	12.4	1,560		Mar. 11, 1952	14.86	2,680
	June 2, 1947	17.8	9,420		Apr. 5, 1952	13.27	1,880
					May 24, 1952	16.12	5,100
1948	Mar. 27, 1948	13.5	2,110				
	Apr. 13, 1948	13.3	1,860	1953	Mar. 4, 1953	11.07	1,320
1949	Dec. 15, 1948	12.6	1,620	1954	May 2, 1954	5.45	361
	Jan. 5, 1949	17.9	9,060				
	Jan. 19, 1949	13.5	1,930	1955	Apr. 13, 1955	11.63	1,390
	Jan. 24, 1949	13.3	1,860				
	Feb. 15, 1949	17.1	6,880	1956	Nov. 16, 1955	12.60	1,700
	Mar. 10, 1949	14.0	2,120		May 28, 1956	12.93	1,740
	Mar. 27, 1949	17.7	8,380				
				1957	Apr. 4, 1957	15.71	4,070
1950	Oct. 22, 1949	15.35	3,430		May 22, 1957	15.78	4,270
	Dec. 12, 1949	13.1	1,790		June 12, 1957	13.22	1,780
	Dec. 22, 1949	12.2	1,500				
	Jan. 4, 1950	17.75	8,740	1958	Dec. 20, 1957	15.09	3,010
	Jan. 16, 1950	16.1	4,830		Dec. 26, 1957	14.04	2,160
	Jan. 24, 1950	12.6	1,620		May 6, 1958	13.28	1,880
	Jan. 26, 1950	14.1	2,160				
	Feb. 14, 1950	17.7	8,380	1959	Jan. 21, 1959	16.33	5,480
	Feb. 22, 1950	12.2	1,500		Feb. 10, 1959	14.91	2,750
	Mar. 27, 1950	15.6	3,830		Feb. 15, 1959	12.88	1,740
	Apr. 5, 1950	16.4	5,430				
				1960	Feb. 10, 1960	13.18	1,820
1951	Nov. 20, 1950	15.0	2,830		June 23, 1960	17.80	8,530
	Dec. 3, 1950	14.4	2,300				
	Jan. 15, 1951	15.0	2,830	1961	Mar. 13, 1961	14.20	2,270
	Feb. 21, 1951	15.50	3,700		May 8, 1961	16.86	6,430
	May 11, 1951	12.4	1,560				

a Annual peak only.
b Daily mean discharge, estimated.

3570. White River at Spencer, Ind.
(Published as "West Fork White River" prior to Oct. 1, 1948)

Location.--Lat 39°16'49", long 86°45'42", in sec.29, T.10 N., R.3 W., on downstream side of center pier of highway bridge at Spencer, 3.3 miles upstream from McBrides Creek and at mile 165.9.

Drainage area.--2,980 sq mi.

Gage.--Nonrecording prior to Dec. 26, 1940; recording thereafter. Datum of gage is 526.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--14 ft (U.S. Weather Bureau).

Historical data.--Flood of 1875 was "highest known to date" at Worthington, 27 miles downstream, and 1 ft higher than the 1847 flood, according to the Indianapolis Journal dated Aug. 5, 1875. Flood of March 1897 was reported to have risen 4 ft above the crest of the flood of 1875, at Worthington. Flood of March 1904 was 3 ft lower than flood of 1875 at Spencer. Flood of Mar. 26, 1913, is maximum stage known.

Remarks.--Records for 1926-27 furnished by Indiana Department of Conservation excepting annual peak discharges. Base for partial-duration series, 11,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a28.5	b100,000	1933	Jan. 2, 1933	18.9	27,100
					Jan. 23, 1933	15.1	16,300
1926	Nov. 9, 1925	12.9	12,200		Mar. 22, 1933	19.10	28,000
	Nov. 17, 1925	16.7	21,100		Apr. 7, 1933	11.9	11,000
	Jan. 19, 1926	12.4	11,700		Apr. 20, 1933	17.1	20,700
	Feb. 27, 1926	12.2	11,400		May 15, 1933	23.2	59,400
	Apr. 11, 1926	18.5	25,800		May 22, 1933	13.1	12,900
	Sept.11, 1926	22.48	52,400				
	Sept.29, 1926	14.9	16,400	1934	Mar. 28, 1934	10.69	9,260
1927	Oct. 4, 1926	14.8	16,200	1935	May 7, 1935	16.21	18,600
	Jan. 24, 1927	13.75	13,600		May 15, 1935	13.5	13,500
	Feb. 3, 1927	15.2	17,200				
	Feb. 8, 1927	14.7	15,900	1936	Feb. 29, 1936	17.29	21,200
	Mar. 22, 1927	22.2	49,700				
	Apr. 7, 1927	16.5	20,600	1937	Nov. 5, 1936	14.5	15,200
	May 23, 1927	19.3	27,900		Jan. 1, 1937	15.0	16,100
					Jan. 11, 1937	16.6	19,500
1928	Dec. 4, 1927	14.5	15,800		Jan. 16, 1937	23.2	59,400
	Dec. 16, 1927	14.4	15,700		Jan. 22, 1937	20.0	32,300
	Feb. 6, 1928	14.4	15,700		Feb. 2, 1937	14.0	11,900
	Feb. 17, 1928	12.8	12,900		Feb. 10, 1937	14.1	12,000
	Apr. 2, 1928	12.8	12,900		Apr. 8, 1937	15.4	14,300
	Apr. 22, 1928	13.2	13,600				
	June 10, 1928	14.52	15,800	1938	Dec. 20, 1937	18.3	24,400
	June 23, 1928	13.1	13,400		Feb. 21, 1938	15.6	14,700
	July 6, 1928	13.6	14,200		Mar. 7, 1938	14.4	12,400
					Mar. 17, 1938	17.5	21,100
1929	Jan. 21, 1929	17.5	22,500		Mar. 27, 1938	15.8	15,300
	Feb. 28, 1929	16.4	19,800		Apr. 3, 1938	20.6	35,400
	Apr. 11, 1929	15.7	18,200		Apr. 10, 1938	19.7	30,800
	May 5, 1929	12.4	12,300		June 30, 1938	14.1	12,000
	May 16, 1929	16.6	20,200		July 5, 1938	20.5	34,800
	May 20, 1929	17.80	23,200				
	July 5, 1929	16.0	18,800	1939	Feb. 1, 1939	17.4	20,700
	July 9, 1929	14.0	14,900		Mar. 1, 1939	14.4	12,400
					Mar. 13, 1939	18.9	27,000
1930	Dec. 20, 1929	17.1	21,500		Apr. 19, 1939	20.50	34,800
	Jan. 4, 1930	16.7	20,500				
	Jan. 11, 1930	21.4	42,900	1940	Apr. 21, 1940	17.89	22,700
	Jan. 15, 1930	22.3	50,600				
	Feb. 13, 1930	12.3	11,800	1941	June 13, 1941	7.72	4,750
	Feb. 28, 1930	16.6	20,200				
				1942	Feb. 9, 1942	16.60	17,700
1931	July 4, 1931	9.9	8,420		Feb. 18, 1942	13.49	11,400
					Mar. 12, 1942	13.71	11,800
1932	Dec. 13, 1931	15.0	16,800		Mar. 19, 1942	14.55	13,100
	Jan. 19, 1932	18.22	24,400		Apr. 11, 1942	17.71	21,700
	June 28, 1932	12.1	11,300		June 15, 1942	13.97	12,200
1933	Dec. 10, 1932	14.2	14,700	1943	Mar. 21, 1943	18.02	22,900
	Dec. 26, 1932	14.9	16,000				

a From floodmarks.
b Estimated; annual peak only.

Peak stages and discharges of White River at Spencer, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 13, 1943	19.40	29,600
	May 20, 1943	22.96	57,000
1944	Mar. 8, 1944	15.02	13,800
	Apr. 13, 1944	21.45	42,900
	Apr. 25, 1944	16.94	18,700
1945	Mar. 8, 1945	16.66	18,000
	Apr. 4, 1945	18.48	25,100
	May 19, 1945	14.82	13,500
	June 19, 1945	19.80	31,900
1946	Oct. 3, 1945	13.96	12,200
	Jan. 2, 1946	13.62	11,600
	Feb. 15, 1946	13.73	11,800
	Mar. 20, 1946	15.84	15,400
	May 19, 1946	15.19	14,200
1947	Feb. 1, 1947	15.46	14,600
	Apr. 12, 1947	13.79	11,600
	Apr. 27, 1947	15.30	14,200
	May 3, 1947	15.92	15,500
	June 3, 1947	19.07	28,000
	June 8, 1947	16.44	16,900
1948	Jan. 6, 1948	14.33	12,400
	Mar. 29, 1948	19.93	30,800
	Apr. 9, 1948	19.04	25,100
	Apr. 16, 1948	17.97	20,100
1949	Jan. 6, 1949	19.87	30,900
	Jan. 21, 1949	19.61	29,100
	Jan. 29, 1949	18.23	22,000
	Feb. 17, 1949	18.38	22,900
	Mar. 28, 1949	17.73	19,900
1950	Jan. 6, 1950	22.43	51,400
	Jan. 17, 1950	21.00	39,000
	Jan. 28, 1950	20.74	36,600
	Feb. 15, 1950	21.00	39,000
	Feb. 23, 1950	15.69	14,100
	Mar. 29, 1950	17.50	19,100
	Apr. 6, 1950	16.94	17,100
1951	Nov. 22, 1950	16.31	15,400
	Dec. 9, 1950	17.73	19,900
	Jan. 16, 1951	16.08	15,000
	Feb. 23, 1951	18.56	23,900
1951	Apr. 15, 1951	14.16	11,800
1952	Dec. 10, 1951	13.84	11,200
	Jan. 28, 1952	19.09	26,400
	Feb. 5, 1952	16.88	17,100
	Mar. 14, 1952	17.21	18,100
	Mar. 24, 1952	15.28	13,500
	Apr. 6, 1952	14.69	12,600
	Apr. 15, 1952	14.69	12,600
	June 23, 1952	16.42	15,600
1953	Mar. 5, 1953	17.37	18,800
	May 26, 1953	13.92	11,400
1954	Apr. 8, 1954	11.66	8,650
1955	Jan. 10, 1955	12.78	9,880
1956	Nov. 18, 1955	19.21	24,400
	Feb. 27, 1956	17.76	20,300
	Apr. 4, 1956	14.78	12,700
	May 31, 1956	21.37	37,400
1957	Apr. 6, 1957	20.52	30,400
	May 24, 1957	20.33	29,200
	June 12, 1957	14.18	11,800
	July 1, 1957	21.50	37,700
	July 6, 1957	18.43	21,500
1958	Dec. 22, 1957	20.80	32,600
	Dec. 27, 1957	18.03	20,200
	May 7, 1958	14.75	12,700
	June 14, 1958	21.40	37,000
	Aug. 6, 1958	17.55	19,000
1959	Jan. 23, 1959	c21.06	d27,000
	Feb. 12, 1959	19.39	25,000
	May 2, 1959	15.20	13,400
1960	Feb. 12, 1960	16.59	16,200
	June 25, 1960	21.01	34,000
1961	Mar. 7, 1961	16.04	14,800
	Mar. 15, 1961	18.95	63,400
	Mar. 22, 1961	16.05	14,800
	Apr. 27, 1961	21.33	36,200
	May 9, 1961	23.06	49,500

c Backwater from ice.
d Daily mean discharge, estimated.

3575. Big Walnut Creek near Reelsville, Ind.
(Published as Eel River near Reelsville 1953-56)

Location.--Lat 39°32'11", long 86°58'35", in NW¼SE¼ sec.28, T.13 N., R.5 W., on left bank at highway bridge, 1½ miles southwest of Reelsville and 3 miles upstream from Mill Creek.

Drainage area.--338 sq mi.

Gage.--Nonrecording prior to Dec. 10, 1949; recording thereafter. Datum of gage is 588.24 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 17,500 cfs and extended on basis of conveyance study.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 2,800 cfs.

Peak stages and discharges of Big Walnut Creek near Reelsville, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 12, 1949	10.77	2,950	1955	Jan. 6, 1955	12.05	3,030
	Jan. 4, 1950	17.33	15,500				
	Jan. 10, 1950	14.20	5,580	1956	Feb. 25, 1956	16.60	9,300
	Jan. 14, 1950	14.34	5,730		Apr. 3, 1956	14.97	5,200
	Jan. 16, 1950	15.88	9,950		May 29, 1956	13.74	3,890
	Jan. 26, 1950	15.22	7,650		June 23, 1956	14.08	4,190
	Feb. 14, 1950	14.89	6,850				
	Mar. 27, 1950	13.20	4,540	1957	Jan. 22, 1957	13.97	5,300
	Apr. 4, 1950	12.77	4,220		Apr. 4, 1957	15.84	9,890
	Sept. 1, 1950	16.20	7,100		Apr. 8, 1957	12.88	4,060
	Sept.22, 1950	15.25	4,790		May 11, 1957	11.70	3,100
					May 14, 1957	11.64	3,040
1951	Nov. 20, 1950	14.37	5,880		May 22, 1957	16.09	11,000
	Dec. 3, 1950	13.52	4,820		June 19, 1957	16.18	11,500
	Dec. 7, 1950	11.35	3,300		June 28, 1957	18.63	30,700
	Jan. 3, 1951	12.17	3,800		July 5, 1957	13.39	4,570
	Jan. 15, 1951	10.49	2,800				
	Feb. 12, 1951	12.42	3,940	1958	Nov. 14, 1957	14.14	5,450
	Feb. 16, 1951	10.91	3,000		Dec. 17, 1957	11.91	3,230
	Feb. 21, 1951	14.36	5,880		Dec. 20, 1957	16.68	13,800
	July 9, 1951	11.80	3,540		Dec. 26, 1957	15.19	7,940
	July 17, 1951	14.48	6,040		June 11, 1958	16.50	12,800
	July 27, 1951	12.70	4,150		Aug. 1, 1958	16.09	11,000
1952	Jan. 27, 1952	14.64	6,200	1959	Jan. 21, 1959	16.83	14,200
	Feb. 4, 1952	11.34	3,240		Feb. 10, 1959	16.42	12,400
	Mar. 11, 1952	15.05	7,100		Apr. 2, 1959	12.30	3,540
	Mar. 22, 1952	14.28	5,880				
	Apr. 5, 1952	12.28	3,870	1960	Feb. 6, 1960	11.95	3,300
	Apr. 13, 1952	16.03	10,300		Feb. 10, 1960	13.50	4,680
	May 24, 1952	11.92	3,600		June 23, 1960	17.12	16,000
	June 22, 1952	17.96	15,700				
	June 28, 1952	15.35	5,030	1961	Mar. 13, 1961	14.88	6,500
					Apr. 22, 1961	11.98	3,300
1953	Mar. 4, 1953	15.87	8,500		Apr. 25, 1961	16.47	12,900
	July 6, 1953	12.47	3,190		May 8, 1961	17.46	18,400
1954	Apr. 6, 1954	7.77	1,250				

3580. Mill Creek near Cataract, Ind.

Location.--Lat 39°26', long 86°46', in SE¼ sec.32, T.12 N., R.3 W., on left bank at downstream side of bridge on State Highway 43, 3 miles east of Cataract.

Drainage area.--241 sq mi.

Gage.--Nonrecording prior to Nov. 9, 1949; recording thereafter. Datum of gage is 706.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 5, 1950	21.35	9,480	1952	Dec. 5, 1951	12.63	2,500
	Jan. 11, 1950	14.78	3,750		Dec. 27, 1951	12.68	2,560
	Jan. 16, 1950	16.54	4,840		Jan. 27, 1952	18.23	6,040
	Jan. 27, 1950	17.43	5,470		Feb. 4, 1952	13.17	2,830
	Feb. 14, 1950	19.02	6,680		Mar. 12, 1952	17.25	5,330
	Feb. 22, 1950	12.67	2,770		Mar. 23, 1952	13.15	2,830
	Mar. 28, 1950	15.29	4,180		Apr. 5, 1952	13.37	2,940
	Apr. 5, 1950	13.77	3,360		Apr. 14, 1952	13.08	2,780
	Sept. 1, 1950	12.22	2,520		June 23, 1952	19.10	6,760
1951	Nov. 21, 1950	14.76	3,900	1953	Mar. 4, 1953	17.07	5,260
	Dec. 4, 1950	14.71	3,850		July 7, 1953	12.97	2,720
	Dec. 7, 1950	a12.4	2,620				
	Jan. 15, 1951	13.55	3,240	1954	Mar. 30, 1954	8.97	950
	Feb. 21, 1951	14.92	3,960				

a Estimated.

Peak stages and discharges of Mill Creek near Cataract, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 25, 1955	12.50	2,440	1958	Dec. 26, 1957	15.21	3,700
					June 12, 1958	16.51	4,580
1956	Oct. 1, 1955	13.45	2,940		Aug. 1, 1958	13.50	2,740
	Nov. 17, 1955	19.08	6,720				
	Feb. 26, 1956	16.07	4,270	1959	Nov. 18, 1958	12.59	2,520
	Apr. 4, 1956	14.28	3,130		Jan. 22, 1959	18.63	6,740
	May 29, 1956	14.60	3,310		Feb. 11, 1959	18.14	6,290
					Apr. 29, 1959	13.17	2,840
1957	Jan. 23, 1957	13.94	2,950				
	Apr. 4, 1957	18.53	6,180	1960	Feb. 6, 1960	13.19	2,760
	May 20, 1957	13.45	2,690		Feb. 11, 1960	13.00	2,660
	May 23, 1957	16.49	4,580		June 24, 1960	22.58	11,400
	June 1, 1957	13.38	2,690				
	June 19, 1957	14.23	3,120	1961	Mar. 6, 1961	13.65	2,960
	June 29, 1957	19.64	7,180		Mar. 14, 1961	17.18	5,280
	July 5, 1957	14.23	3,120		Apr. 26, 1961	17.70	5,680
					May 9, 1961	22.20	10,700
1958	Dec. 21, 1957	18.09	5,830				

3590. Mill Creek near Manhattan, Ind.

Location.--Lat 39°29', long 86°55', in sec.11, T.12 N., R.5 W., on left bank 200 ft downstream from Cagles Mill, three-quarters of a mile downstream from Cagles Mill Reservoir, three-quarters of a mile upstream from Deer Creek, and 5¾ miles south of Manhattan.

Drainage area.--292 sq mi.

Gage.--Nonrecording prior to May 12, 1941; recording thereafter. Datum of gage is 581.83 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,900 cfs.

Remarks.--Flow regulated by Cagles Mill Reservoir (capacity, 228,100 acre-ft) since 1952. Only annual peaks are shown. Peak stages affected at times by backwater from streams below station and usually occur on different day than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	Aug. 1, 1875	a21.0	-	1951	Feb. 21, 1951	11.60	b3,000
				1952	Jan. 28, 1952	14.91	b3,290
1940	Apr. 18, 1940	13.40	4,020	1953	Mar. 4, 1953	11.60	3,690
				1954	Apr. 13, 1954	7.23	1,540
1941	June 12, 1941	13.36	3,270	1955	Apr. 1, 1955	12.26	4,040
1942	Apr. 10, 1942	14.78	5,340				
1943	May 12, 1943	17.22	b5,800	1956	Mar. 27, 1956	11.97	3,180
1944	Apr. 11, 1944	17.55	b5,960	1957	June 9, 1957	15.18	2,940
1945	May 17, 1945	15.31	b4,000	1958	May 14, 1958	12.77	2,600
				1959	Feb. 20, 1959	12.42	2,440
1946	May 18, 1946	13.40	b3,200	1960	July 6, 1960	14.17	2,740
1947	June 8, 1947	15.98	b5,000				
1948	Mar. 27, 1948	16.27	b4,800	1961	Apr. 4, 1961	14.95	2,750
1949	Jan. 19, 1949	16.83	5,000				
1950	Jan. 5, 1950	18.38	8,960				

a From information by Corps of Engineers, present datum.
b Daily mean discharge.

3595. Deer Creek near Putnamville, Ind.

Location.--Lat 39°34'04", long 86°52'00", in NW¼ sec.16, T.13 N., R.4 W., on left bank on upstream side of bridge on State Highway 243, 0.4 mile southwest of Putnamville, 0.4 mile downstream from small tributary, and 0.8 mile downstream from Limestone Creek.

Drainage area.--59.0 sq mi.

Gage.--Nonrecording prior to July 3, 1957; recording thereafter. Datum of gage is 630.73 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,800 cfs.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Spring 1951	a14.65	-	1958	Dec. 17, 1957	7.21	1,800
					Dec. 20, 1957	11.52	3,950
1955	Apr. 13, 1955	5.48	1,090		Dec. 25, 1957	8.97	3,190
	July 15, 1955	5.63	1,040		June 11, 1958	11.92	5,210
	Sept.29, 1955	12.05	4,200		June 13, 1958	6.98	1,970
					June 19, 1958	5.18	1,010
1956	Nov. 16, 1955	12.00	4,200		July 31, 1958	10.43	4,120
	Feb. 25, 1956	11.30	3,850		Aug. 7, 1958	5.34	1,060
	Apr. 3, 1956	7.20	1,830				
	Apr. 28, 1956	7.80	2,100	1959	Jan. 21, 1959	10.81	4,430
	May 28, 1956	6.58	1,500		Feb. 10, 1959	9.07	3,240
	June 21, 1956	9.07	2,750		Apr. 27, 1959	6.35	1,620
	June 25, 1956	6.00	1,220		Aug. 4, 1959	6.54	1,670
1957	Jan. 22, 1957	9.85	3,100	1960	Oct. 11, 1959	5.36	1,120
	Apr. 3, 1957	11.49	3,950		Feb. 5, 1960	6.01	1,420
	May 13, 1957	10.00	3,200		Feb. 10, 1960	7.92	2,510
	May 22, 1957	9.70	3,050		Mar. 27, 1960	5.27	1,070
	May 31, 1957	11.21	3,800		June 23, 1960	13.53	7,450
	June 18, 1957	7.97	2,200				
	June 28, 1957	13.34	4,930	1961	Mar. 5, 1961	6.10	1,470
	July 4, 1957	7.29	1,850		Mar. 13, 1961	9.31	3,380
	Aug. 12, 1957	7.01	1,700		Apr. 22, 1961	6.43	1,800
	Aug. 16, 1957	9.69	3,050		Apr. 25, 1961	9.99	3,910
					May 8, 1961	13.73	7,710
1958	Nov. 14, 1957	9.09	2,750		Sept.25, 1961	5.72	1,450
	Dec. 6, 1957	5.87	1,180				

a From information by local resident.

3600. Eel River at Bowling Green, Ind.
(Published as "near Centerpoint", 1931-34)

Location.--Lat 39°23'02", long 87°01'12", in NW¼ sec.24, T.11 N., R.6 W., on left bank at Bowling Green, 500 ft downstream from bridge on State Highway 46, and 0.5 mile downstream from Jordan Creek.

Drainage area.--844 sq mi; 883 sq mi prior to Nov. 28, 1934.

Gage.--Nonrecording prior to Nov. 28, 1934; recording thereafter. At site 5½ miles downstream at datum 6.15 ft lower prior to Nov. 28, 1934. At bridge 500 ft upstream at datum 1 ft higher Nov. 28, 1934, to Nov. 30, 1949. Datum of gage is 548.02 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs.

Bankfull stage.--17 ft (U.S. Weather Bureau).

Remarks.--Flow regulated by Cagles Mill Reservoir (capacity, 228,100 acre-ft) on Mill Creek since 1952. Base for partial-duration series, 1931-52, 8,000 cfs. Only annual peaks are shown prior to 1931 and after 1952.

Peak stages and discharges of Eel River at Bowling Green, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)
1875	August 1875	ab30.0	-
1913	March 1913	bc24.8	-
1931	Sept.16, 1931	16.81	8,920
1932	Dec. 12, 1931	18.89	10,600
	Jan. 18, 1932	18.1	9,960
	Jan. 23, 1932	17.4	9,400
	June 28, 1932	16.0	8,280
1933	Dec. 25, 1932	16.4	8,440
	Jan. 1, 1933	18.6	10,300
	Mar. 21, 1933	18.7	10,400
	Apr. 19, 1933	17.2	9,160
	May 14, 1933	21.26	12,800
1934	Aug. 20, 1934	16.2	8,360
1935	May 3, 1935	19.09	12,400
	May 7, 1935	17.03	8,810
1936	Feb. 27, 1936	17.15	8,990
1937	Nov. 4, 1936	19.06	12,900
	Jan. 9, 1937	16.99	8,090
	Jan. 15, 1937	21.79	26,000
	Jan. 21, 1937	18.38	10,100
1938	Dec. 18, 1937	19.36	13,000
	Mar. 6, 1938	17.38	9,100
	Mar. 16, 1938	18.75	11,800
	Apr. 1, 1938	20.75	20,600
	Apr. 9, 1938	19.57	13,500
	July 3, 1938	18.67	11,600
1939	Jan. 31, 1939	19.40	13,000
	Mar. 13, 1939	19.80	13,900
	Apr. 17, 1939	20.24	17,600
1940	Apr. 20, 1940	16.65	8,640
1941	June 12, 1941	18.51	9,960
1942	Feb. 7, 1942	18.63	10,600
	Apr. 10, 1942	18.15	9,340
1943	Nov. 18, 1942	d16.74	8,620
	May 11, 1943	20.78	20,500
	May 18, 1943	21.32	23,400
1944	Apr. 12, 1944	d20.37	18,800
	Apr. 24, 1944	d19.79	16,000
1945	Apr. 1, 1945	19.03	12,500
	May 17, 1945	19.43	14,100
	June 18, 1945	18.48	10,800
1946	Feb. 14, 1946	17.23	8,300
	May 12, 1946	17.24	8,300
	May 18, 1946	18.24	10,000
1947	Jan. 31, 1947	17.94	10,200
	Apr. 26, 1947	16.71	8,200
	June 8, 1947	19.31	14,700
1948	Jan. 2, 1948	17.45	9,200
	Mar. 24, 1948	17.95	10,400
	Mar. 27, 1948	19.77	17,500
1949	Jan. 6, 1949	18.94	12,200
	Jan. 19, 1949	21.08	23,600
	Jan. 28, 1949	18.08	9,700
	Feb. 16, 1949	19.0	12,700
	Mar. 27, 1949	17.96	9,500
1950	Jan. 4, 1950	23.53	34,000
	Jan. 11, 1950	19.06	10,600
	Jan. 16, 1950	20.13	15,000
	Jan. 27, 1950	20.24	15,500
	Feb. 14, 1950	20.43	16,500
	Mar. 28, 1950	18.96	10,300
	Apr. 5, 1950	18.32	8,950
	Sept. 2, 1950	19.66	13,000
	Sept.23, 1950	18.87	10,000
1951	Nov. 21, 1950	18.03	8,500
	Feb. 21, 1951	18.21	8,800
1952	Jan. 27, 1952	19.35	11,600
	Mar. 12, 1952	18.82	9,800
	Apr. 14, 1952	18.76	9,800
	June 23, 1952	20.50	17,000
1953	Mar. 4, 1953	18.81	9,800
1954	Apr. 6, 1954	7.28	1,930
1955	Sept.30, 1955	13.80	4,880
1956	Nov. 16, 1955	18.73	9,600
1957	June 29, 1957	23.39	33,400
1958	Dec. 20, 1957	20.27	16,000
1959	Jan. 22, 1959	20.08	15,000
1960	June 24, 1960	20.45	16,500
1961	May 8, 1961	e22.25	26,700

a About, from information by Corps of Engineers; maximum known.
b Present datum.
c From information by State Highway Department of Indiana.
d Occurred at different time than peak discharge.
e Occurred on May 9, 1961.

3605. White River at Newberry, Ind.
(Published as "West Fork White River" prior to October 1948)

Location.--Lat 38°55'42", long 87°01'00", in sec.25, T.6 N., R.6 W., on right bank 500 ft upstream from bridge on State Highway 57 in Newberry, 2.3 miles downstream from Doans Creek, and at mile 118.0.

Drainage area.--4,696 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1928; recording thereafter. At Elliston 12 miles upstream at datum 7.35 ft higher prior to Sept. 12, 1928. Datum of gage is 465.59 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--13 ft.

Historical data.--Flood of August 1875 was 2 ft 3 in. higher than the flood of 1913 according to information obtained by the State Highway Department of Indiana. Flood of 1913 is the maximum known since 1875.

Remarks.--Gage heights for 1897, 1909-12, 1914-15, 1917-21, 1923-28, furnished by the U.S. Weather Bureau for their station at Elliston. Discharges for 1908, 1916, and 1922 based on computations by Corps of Engineers and correlation with U.S. Weather Bureau gage heights at Elliston. Figures in parentheses are approximate values considered accurate within 20 percent. They are based on a peak stage correlation between the U.S. Weather Bureau gage at Elliston and the Geological Survey gage at Newberry. Base for partial-duration series, 17,000 cfs. Only annual peaks are shown prior to 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1897	Mar. 5, 1897	-	(69,300)
1908	May 9, 1908	-	(37,700)
1909	Mar. 12, 1909	-	(22,100)
1910	Mar. 3, 1910	-	(31,800)
1911	Apr. 17, 1911	-	(21,800)
1912	Mar. 1, 1912	-	(29,800)
1913	Mar. 27, 1913	a27.5	b130,000
1914	Apr. 12, 1914	-	(22,700)
1915	July 12, 1915	-	(25,600)
1916	Feb. 1, 1916	-	(87,100)
1917	June 8, 1917	-	(44,500)
1918	May 14, 1918	-	(23,300)
1919	Mar. 19, 1919	-	(59,600)
1920	Apr. 23, 1920	-	(42,100)
1921	Mar. 31, 1921	-	(37,000)
1922	Apr. 20, 1922	-	(52,600)
1923	Mar. 19, 1923	-	(30,800)
1924	Apr. 2, 1924	-	(27,600)
1925	Mar. 18, 1925	-	(19,100)
1926	Sept.13, 1926	-	(48,900)
1927	Mar. 23, 1927	-	(54,600)
1928	Feb. 8, 1928	-	(22,400)
1929	Jan. 23, 1929	18.70	33,800
	Mar. 1, 1929	16.52	25,300
	Apr. 13, 1929	17.21	27,600
	May 7, 1929	14.34	19,300
	May 22, 1929	19.72	38,800
	May 31, 1929	14.37	19,600
	July 7, 1929	15.15	21,600
1930	Dec. 20, 1929	17.1	27,200
	Jan. 15, 1930	23.1	60,700
	Feb. 14, 1930	13.64	17,600
	Mar. 1, 1930	16.63	25,600
1931	Sept.16, 1931	11.02	11,400
1932	Dec. 15, 1931	16.75	24,000
	Jan. 22, 1932	19.91	37,500
1933	Dec. 28, 1932	16.01	21,600
	Jan. 4, 1933	18.70	31,600
	Jan. 25, 1933	16.24	22,200
	Mar. 24, 1933	20.30	39,600
	Apr. 11, 1933	14.28	17,400
	Apr. 21, 1933	17.93	28,100
	May 17, 1933	23.02	56,200
1934	Mar. 29, 1934	12.30	13,600
1935	May 7, 1935	19.15	32,800
	May 16, 1935	15.83	20,600
1936	Mar. 1, 1936	17.90	27,100
1937	Nov. 7, 1936	16.21	21,700
	Jan. 3, 1937	15.28	19,400
	Jan. 18, 1937	23.51	65,900
	Feb. 3, 1937	14.84	18,200
	Feb. 11, 1937	14.64	17,800
	May 5, 1937	15.27	19,400
1938	Dec. 22, 1937	18.92	31,800
	Feb. 23, 1938	16.41	21,900
	Mar. 9, 1938	15.56	19,500
	Mar. 18, 1938	19.80	36,800
	Mar. 28, 1938	16.93	23,900
	Apr. 4, 1938	21.36	47,600
	Apr. 12, 1938	20.97	44,600
	July 7, 1938	19.34	33,800
1939	Feb. 3, 1939	18.94	29,700
	Mar. 16, 1939	20.44	39,600
	Apr. 20, 1939	21.69	50,200
1940	Apr. 21, 1940	19.34	31,800
1941	June 11, 1941	11.63	11,600

a From floodmarks by State Highway Department of Indiana, present site and datum.
b Estimated.

Peak stages and discharges of White River at Newberry, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 11, 1942	17.55	25,500	1951	Dec. 8, 1950	-	c30,000
	Mar. 20, 1942	15.25	18,700		Jan. 18, 1951	15.92	21,800
	Apr. 13, 1942	19.17	32,000		Feb. 24, 1951	18.68	30,200
					Apr. 16, 1951	13.99	17,400
1943	Mar. 20, 1943	17.82	26,100				
	May 15, 1943	21.40	48,000	1952	Dec. 7, 1951	14.21	17,800
	May 21, 1943	24.19	76,900		Jan. 31, 1952	18.30	28,800
					Mar. 15, 1952	17.90	27,500
1944	Mar. 9, 1944	14.45	17,000		Mar. 25, 1952	16.37	23,100
	Apr. 14, 1944	21.97	53,600		Apr. 7, 1952	15.32	20,300
	Apr. 27, 1944	19.10	31,800		Apr. 16, 1952	16.81	24,200
					June 25, 1952	15.34	20,300
1945	Mar. 7, 1945	17.97	26,800				
	Apr. 5, 1945	20.00	37,000	1953	Mar. 7, 1953	17.50	26,300
	May 21, 1945	16.80	22,700				
	June 21, 1945	21.97	53,600	1954	Apr. 9, 1954	9.00	9,100
1946	Feb. 17, 1946	14.85	17,800	1955	Apr. 14, 1955	12.89	15,100
	Mar. 21, 1946	15.37	19,100				
	May 21, 1946	17.20	23,900	1956	Nov. 20, 1955	17.53	24,500
					Feb. 29, 1956	17.40	26,000
1947	Feb. 3, 1947	15.62	20,700		Apr. 6, 1956	14.39	18,200
	Apr. 12, 1947	14.51	17,900		June 2, 1956	20.18	37,900
	Apr. 30, 1947	16.33	22,600				
	June 3, 1947	18.31	28,900	1957	Apr. 8, 1957	21.21	42,900
					May 25, 1957	21.22	42,900
1948	Jan. 5, 1948	14.71	18,100		July 3, 1957	22.09	52,700
	Mar. 31, 1948	20.90	43,500				
	Apr. 13, 1948	19.38	33,100	1958	Dec. 23, 1957	21.37	48,000
					June 16, 1958	21.00	44,400
1949	Jan. 9, 1949	19.85	35,200		Aug. 4, 1958	15.68	21,300
	Jan. 24, 1949	21.57	49,800				
	Feb. 19, 1949	19.14	31,700	1959	Jan. 25, 1959	20.23	37,900
	Mar. 30, 1949	18.06	27,900		Feb. 14, 1959	20.07	37,200
1950	Jan. 7, 1950	23.71	71,500	1960	Feb. 13, 1960	15.61	21,100
	Jan. 29, 1950	21.30	47,100		June 26, 1960	19.63	34,100
	Feb. 16, 1950	21.64	49,800				
	Mar. 31, 1950	18.12	27,900	1961	Mar. 9, 1961	15.54	20,800
	Apr. 7, 1950	17.36	25,600		Mar. 17, 1961	18.18	28,500
					Apr. 29, 1961	20.56	41,000
1951	Nov. 24, 1950	15.90	21,800		May 11, 1961	23.47	69,300

c Daily mean discharge, estimated.

3610. Blue River at Carthage, Ind.

Location.--Lat 39°46', long 85°34', in sec.18, T.15 N., R.9 E., on right bank 500 ft upstream from highway bridge, half a mile west of Carthage, and 2¼ miles downstream from Three Mile Creek.

Drainage area.--187 sq mi.

Gage.--Nonrecording prior to July 19, 1951; recording thereafter. At bridge 500 ft downstream at same datum prior to July 19, 1951. Datum of gage is 859.33 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Blue River at Carthage, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 5, 1949	a10.6	b5,750	1956	May 28, 1956	10.59	4,720
1951	Nov. 21, 1950	9.2	3,650	1957	Apr. 4, 1957	8.92	3,020
	Dec. 4, 1950	7.5	2,060		June 18, 1957	9.77	3,900
	Dec. 7, 1950	8.4	2,700		June 28, 1957	9.76	3,900
	Jan. 15, 1951	7.7	2,180				
	Feb. 12, 1951	7.6	2,120	1958	Dec. 20, 1957	7.79	2,220
	Feb. 21, 1951	11.20	6,650		May 6, 1958	7.59	2,100
					June 11, 1958	10.52	4,600
1952	Dec. 7, 1951	7.57	2,090		June 14, 1958	12.42	7,020
	Jan. 27, 1952	11.02	6,350		Aug. 1, 1958	10.98	5,200
	Feb. 4, 1952	7.63	2,150		Aug. 3, 1958	8.81	2,940
	Mar. 11, 1952	8.50	2,800				
				1959	Jan. 21, 1959	13.28	8,340
1953	Mar. 4, 1953	9.17	3,580		Feb. 10, 1959	9.90	4,000
	July 6, 1953	7.72	2,180				
				1960	Feb. 10, 1960	8.40	2,620
1954	Apr. 5, 1954	10.02	4,850				
				1961	Mar. 13, 1961	8.32	2,440
1955	Jan. 6, 1955	5.97	1,290		Apr. 25, 1961	12.08	5,800
					May 8, 1961	9.34	2,710
1956	Nov. 16, 1955	11.52	5,800		July 21, 1961	9.55	3,700
	Feb. 25, 1956	10.08	4,200				

a From floodmark, by Corps of Engineers.
b About; annual peak only.

3615. Blue River at Shelbyville, Ind.

Location.--Lat 39°31'45", long 85°46'55", in SE¼ sec.31, T.13 N., R.7 E., on left bank a quarter of a mile downstream from bridge on U.S. Highway 421 at Shelbyville and 0.6 mile downstream from Little Blue River.

Drainage area.--425 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1953; recording thereafter. At bridge a quarter of a mile upstream at datum 3.5 ft higher prior to Oct. 1, 1953. Datum of gage is 737.67 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs. The city of Shelbyville enacted a program of channel improvement in the first half of 1951, resulting in a large shift in the stage-discharge relation.

Historical data.--Flood of March 1913 reached a stage of about 20.2 ft, present site and datum, from floodmarks. This flood was perhaps 7 ft higher than the 1897 and 1898 floods according to a report in the Shelbyville Republican dated Mar. 27, 1913. By levels to floodmarks at a point 2.0 miles downstream from present site, the 1937 flood reached a stage of 8.4 ft, present datum, compared to a stage of 10.2 ft for the 1913 flood, 8.0 ft for the 1949 flood, and 7.8 ft for the 1950 flood. By levels to floodmark 500 ft upstream from present site by Corps of Engineers, the 1937 flood reached a stage of 18.3 ft, present datum. Levels to floodmark at a point in Hancock County half a mile upstream from Shelby County line and about 16 miles upstream from the gage by Corps of Engineers indicate that the flood of 1866 was 0.5 ft higher than the 1913 flood at that point.

Remarks.--Base for partial-duration series, 3,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Mar. 7, 1944	9.4	4,090	1947	July 15, 1947	12.2	7,460
	Apr. 12, 1944	15.90	12,300				
				1948	Jan. 2, 1948	9.0	3,750
1945	Mar. 7, 1945	10.71	5,440		Feb. 14, 1948	8.8	3,590
	Apr. 3, 1945	9.6	4,270		Mar. 24, 1948	9.5	4,180
	June 19, 1945	9.0	3,750		Mar. 27, 1948	10.5	5,180
					Apr. 7, 1948	12.58	7,600
1946	Oct. 2, 1945	8.88	3,670				
				1949	Jan. 5, 1949	17.00	14,800
1947	Jan. 31, 1947	10.2	4,850		Jan. 19, 1949	10.9	5,620
	Apr. 27, 1957	10.1	4,750		Jan. 28, 1949	9.6	4,270
	June 3, 1947	13.97	10,100		Feb. 16, 1949	11.6	6,400

Peak stages and discharges of Blue River at Shelbyville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 28, 1949	13.4	8,560	1956	Feb. 26, 1956	11.89	5,270
					May 29, 1956	14.29	7,560
1950	Jan. 6, 1950	15.6	11,700				
	Jan. 11, 1950	14.0	9,100	1957	Apr. 5, 1957	12.16	5,510
	Jan. 16, 1950	12.2	7,300		May 23, 1957	11.39	4,870
	Jan. 27, 1950	13.7	8,800		June 30, 1957	12.15	5,510
	Feb. 14, 1950	16.00	12,500				
	Mar. 28, 1950	10.8	5,900	1958	Dec. 20, 1957	12.27	5,500
	Apr. 5, 1950	9.4	4,500		Dec. 26, 1957	9.84	3,590
					May 7, 1958	11.00	4,550
1951	Nov. 21, 1950	11.0	6,100		June 12, 1958	12.11	5,430
	Dec. 4, 1950	9.7	4,800		June 15, 1958	14.40	7,680
	Dec. 7, 1950	8.4	3,510		July 21, 1958	10.25	3,910
	Jan. 15, 1951	9.6	4,700		Aug. 2, 1958	13.52	6,650
	Feb. 13, 1951	9.2	4,460				
	Feb. 22, 1951	13.10	8,200	1959	Jan. 22, 1959	16.50	10,300
					Feb. 11, 1959	12.71	5,930
1952	Dec. 7, 1951	8.2	4,700				
	Jan. 27, 1952	12.95	12,400	1960	Feb. 11, 1960	10.79	4,390
	Feb. 4, 1952	6.9	3,480		June 24, 1960	13.53	6,650
	Mar. 12, 1952	6.8	3,400		July 3, 1960	10.40	4,070
1953	Mar. 5, 1953	8.30	4,800	1961	Mar. 6, 1961	10.63	4,230
					Mar. 14, 1961	11.86	5,270
1954	Apr. 6, 1954	10.63	4,290		Apr. 26, 1961	15.87	9,480
					May 9, 1961	14.94	8,280
1955	Jan. 7, 1955	7.62	2,010				
1956	Nov. 17, 1955	15.21	8,640				

3620. Youngs Creek near Edinburg, Ind.

Location.--Lat 39°25'08", long 86°00'18", in SW¼ sec.5, T.11 N., R.5 E., on left bank on upstream side of highway bridge half a mile southwest of Amity, 2 miles upstream from mouth, and 5 miles northwest of Edinburg.

Drainage area.--109 sq mi.

Gage.--Nonrecording prior to June 30, 1955; recording thereafter. Datum of gage is 670.20 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended on basis of contracted-opening measurement at 10,700 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 19, 1943	10.40	a3,700	1948	Mar. 27, 1948	7.68	1,650
					July 22, 1948	7.4	1,500
1944	Mar. 7, 1944	7.3	1,450				
	Apr. 8, 1944	7.0	1,340	1949	Jan. 5, 1949	11.9	5,190
	Apr. 11, 1944	11.00	4,290		Jan. 19, 1949	8.6	2,220
					Jan. 24, 1949	7.2	1,410
1945	Mar. 3, 1945	8.2	1,950		Jan. 28, 1949	7.8	1,710
	Mar. 6, 1945	11.00	4,290		Feb. 15, 1949	9.7	3,070
	Apr. 2, 1945	8.8	2,360				
	June 18, 1945	8.7	2,290	1950	Jan. 4, 1950	10.8	4,090
					Jan. 10, 1950	8.6	2,220
1946	Mar. 15, 1946	7.1	1,370		Jan. 16, 1950	9.0	2,510
	May 16, 1946	9.0	2,510		Jan. 26, 1950	8.6	2,220
					Feb. 14, 1950	9.2	2,670
1947	Jan. 30, 1947	8.5	2,150		Mar. 28, 1950	b8.4	2,080
	Apr. 25, 1947	7.5	1,550		Apr. 4, 1950	7.3	1,450
	June 2, 1947	11.12	4,390				
	June 7, 1947	7.0	1,340	1951	Nov. 20, 1950	9.1	2,630
					Dec. 3, 1950	7.0	1,340
1948	Jan. 2, 1948	7.0	1,340		Dec. 7, 1950	7.5	1,550

a Annual peak only.
b Estimated.

Peak stages and discharges of Youngs Creek near Edinburg, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 15, 1951	9.15	2,730	1957	Apr. 8, 1957	7.21	1,410
	Feb. 21, 1951	b8.9	2,450		May 20, 1957	7.55	1,600
	July 12, 1951	8.7	2,290		May 22, 1957	10.31	4,190
					June 28, 1957	8.19	1,950
1952	Dec. 4, 1951	7.3	1,450		July 5, 1957	11.62	6,510
	Dec. 7, 1951	8.9	2,450				
	Dec. 9, 1951	8.7	2,290	1958	Dec. 20, 1957	8.36	2,080
	Jan. 27, 1952	13.4	10,700		Dec. 26, 1957	7.60	1,600
	Feb. 4, 1952	7.0	1,340		June 11, 1958	10.39	4,350
	Mar. 11, 1952	7.7	1,650		June 14, 1958	9.02	2,530
	Apr. 5, 1952	7.0	1,340				
	June 22, 1952	8.8	2,370	1959	Jan. 21, 1959	11.48	6,270
					Feb. 10, 1959	-	-
1953	Mar. 4, 1953	8.37	2,080				
				1960	Feb. 10, 1960	8.78	2,370
1954	Jan. 27, 1954	3.27	443		June 24, 1960	9.49	3,070
1955	May 28, 1955	6.2	1,110	1961	Mar. 6, 1961	7.16	1,330
					Mar. 13, 1961	9.23	2,470
1956	Nov. 16, 1955	12.20	7,790		Apr. 26, 1961	7.47	1,450
	Feb. 25, 1956	6.93	1,310		May 8, 1961	12.62	8,690
	May 28, 1956	8.76	2,370				
1957	Apr. 4, 1957	10.13	3,870				

b Estimated.

3625. Sugar Creek near Edinburg, Ind.

Location.--Lat 39°21'39", long 85°59'51", on line between secs. 29 and 32, T.11 N., R.5 E., on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1¼ miles upstream from Blue River, and 1½ miles northwest of Edinburg.

Drainage area.--462 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1952; recording thereafter. At old highway bridge 100 ft downstream at same datum prior to Oct. 1, 1952. Datum of gage is 646.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,500 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 4,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 18, 1943	12.1	6,010	1949	Jan. 5, 1949	15.00	12,500
	Mar. 20, 1943	13.08	7,780		Jan. 20, 1949	12.2	6,180
	May 12, 1943	11.8	5,600		Jan. 28, 1949	11.2	4,890
	May 19, 1943	12.9	7,400		Feb. 16, 1949	12.9	7,480
					Mar. 28, 1949	13.4	8,520
1944	Mar. 8, 1944	11.4	5,110				
	Apr. 12, 1944	14.57	11,000	1950	Jan. 5, 1950	15.50	13,800
					Jan. 11, 1950	14.0	9,920
1945	Mar. 7, 1945	12.60	6,820		Jan. 16, 1950	13.0	7,680
	Apr. 3, 1945	11.4	5,110		Jan. 27, 1950	14.2	10,400
	June 18, 1945	10.9	4,580		Feb. 14, 1950	15.0	12,500
					Mar. 28, 1950	12.6	6,900
1946	Mar. 14, 1946	11.3	5,000		Apr. 5, 1950	11.1	4,780
	May 17, 1946	11.44	5,110				
				1951	Nov. 21, 1950	11.6	5,350
1947	Jan. 31, 1947	12.8	7,340		Dec. 4, 1950	10.6	4,280
	Apr. 26, 1947	10.6	4,290		Jan. 15, 1951	12.9	7,480
	May 1, 1947	12.0	5,870		Feb. 22, 1951	13.20	8,080
	June 3, 1947	13.80	9,710				
	June 8, 1947	10.7	4,380	1952	Dec. 7, 1951	10.8	4,480
					Dec. 9, 1951	10.8	4,480
1948	Jan. 3, 1948	11.3	5,000		Jan. 27, 1952	16.03	15,700
	Mar. 25, 1948	10.8	4,380		Feb. 4, 1952	11.0	4,680
	Mar. 28, 1948	12.47	6,710		Mar. 12, 1952	10.9	4,580
	Apr. 8, 1948	11.3	5,000		June 23, 1952	10.6	4,280

Peak stages and discharges of Sugar Creek near Edinburg, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 5, 1953	12.98	7,680	1958	Dec. 27, 1957	11.23	4,890
					June 11, 1959	11.59	5,350
1954	Apr. 8, 1954	8.77	2,550		June 16, 1958	11.47	5,230
					June 22, 1958	11.21	4,890
1955	Mar. 5, 1955	8.36	2,260		Aug. 2, 1958	12.98	7,680
1956	Nov. 17, 1955	16.58	18,200	1959	Jan. 22, 1959	14.59	11,400
	Feb. 27, 1956	11.38	5,110		Feb. 11, 1959	12.37	6,530
	Apr. 4, 1956	10.84	4,480				
	May 29, 1956	18.38	27,600	1960	Feb. 11, 1960	11.90	5,730
					June 24, 1960	12.40	6,530
1957	Apr. 5, 1957	13.64	8,960				
	May 23, 1957	13.90	9,680	1961	Mar. 6, 1961	11.63	5,350
	June 29, 1957	10.82	4,480		Mar. 14, 1961	13.33	8,300
	July 5, 1957	13.09	7,880		Apr. 27, 1961	14.58	11,400
					May 9, 1961	16.12	16,100
1958	Dec. 21, 1957	13.00	7,680				

3630. Driftwood River near Edinburg, Ind.

Location.--Lat 39°20'21", long 85°59'11", in sec.4, T.10 N., R.5 E., on left bank just downstream from highway bridge, 0.8 mile downstream from confluence of Blue River and Sugar Creek, and 1½ miles southwest of Edinburg.

Drainage area.--1,054 sq mi.

Gage.--Nonrecording prior to Oct. 7, 1941; recording thereafter. Datum of gage is 636.99 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs.

Bankfull stage.--7 ft.

Remarks.--Base for partial-duration series, 7,000 cfs. Only annual peak shown for 1913.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a20.3	-	1948	Apr. 8, 1948	14.11	13,600
1942	Feb. 8, 1942	12.80	9,260	1949	Jan. 6, 1949	16.30	30,000
	Mar. 10, 1942	12.01	7,500		Jan. 20, 1949	13.90	13,000
	Apr. 10, 1942	12.83	9,260		Jan. 29, 1949	13.01	10,000
					Feb. 16, 1949	14.32	14,400
1943	Mar. 21, 1943	14.27	15,900		Mar. 28, 1949	14.68	16,200
	May 12, 1943	12.71	9,210				
	May 19, 1943	14.47	17,200	1950	Jan. 5, 1950	16.00	25,500
					Jan. 12, 1950	14.46	15,300
1944	Mar. 8, 1944	12.57	8,920		Jan. 17, 1950	14.59	15,800
	Apr. 12, 1944	15.58	25,700		Jan. 27, 1950	15.02	17,600
					Feb. 15, 1950	15.68	22,500
1945	Mar. 7, 1945	13.93	13,600		Mar. 29, 1950	13.84	12,600
	Mar. 21, 1945	11.79	7,030		Apr. 5, 1950	12.70	9,190
	Apr. 3, 1945	12.97	9,990				
	June 19, 1945	12.63	8,920	1951	Nov. 22, 1950	13.23	10,600
					Dec. 4, 1950	12.58	8,930
1946	Mar. 16, 1946	12.01	7,470		Dec. 8, 1950	11.96	7,520
	Mar. 19, 1946	11.91	7,250		Jan. 16, 1951	13.32	10,900
	May 18, 1946	12.19	7,940		Feb. 22, 1951	15.10	18,100
1947	Jan. 31, 1947	13.24	10,600	1952	Dec. 10, 1951	13.05	10,000
	Apr. 27, 1947	12.17	7,940		Jan. 27, 1952	16.55	34,500
	June 3, 1947	15.20	20,300		Feb. 5, 1952	12.72	9,190
	June 9, 1947	12.16	7,940		Mar. 23, 1952	12.54	8,670
					Apr. 6, 1952	12.19	7,950
1948	Jan. 3, 1948	12.35	8,420				
	Mar. 25, 1948	12.71	9,190	1953	Mar. 5, 1953	13.72	12,200
	Mar. 28, 1948	13.91	13,000				

a From information by local residents; maximum known.

Peak stages and discharges of Driftwood River near Edinburg, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Apr. 8, 1954	11.52	6,600	1958	May 7, 1958	12.07	8,030
					June 16, 1958	14.36	14,200
1955	Mar. 23, 1955	b9.41	4,680		July 22, 1958	12.50	8,700
					Aug. 3, 1958	14.45	14,200
1956	Nov. 17, 1955	16.62	34,500				
	Feb. 28, 1956	13.05	9,600	1959	Jan. 23, 1959	15.55	21,800
	Apr. 5, 1956	12.06	8,030		Feb. 11, 1959	13.71	11,500
	Mar. 29, 1956	16.80	37,500				
				1960	Feb. 11, 1960	13.20	10,100
1957	Apr. 5, 1957	14.44	14,200		June 25, 1960	14.16	13,300
	May 23, 1957	14.68	15,800		July 4, 1960	11.53	7,160
	June 30, 1957	12.18	8,200				
	July 6, 1957	13.69	11,500	1961	Mar. 7, 1961	13.22	10,100
					Mar. 14, 1961	14.28	13,800
1958	Dec. 21, 1957	14.32	13,800		Apr. 27, 1961	15.54	21,300
	Dec. 27, 1957	12.49	8,700		May 9, 1961	15.84	24,300

b Occurred on Mar. 5, 1955.

3635. Flatrock River at St. Paul, Ind.
(Published as "Flatrock Creek" prior to Oct. 1, 1958)

Location.--Lat 39°25'03", long 85°38'03", in NE¼ sec.9, T.11 N., R.8 E., on right bank 500 ft downstream from highway bridge, 0.8 mile southwest of St. Paul, and 1½ miles downstream from Mill Creek.

Drainage area.--298 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1938; recording thereafter. At site 500 ft upstream at present datum prior to Oct. 21, 1938. Datum of gage is 764.84 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--According to the Greensburg Standard dated Mar. 25, 1913, "Flatrock Creek at St. Paul reached the highest mark that has been recorded since 1848."

Remarks.--Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a20.5	-	1937	Jan. 10, 1937	8.25	7,170
					Jan. 15, 1937	13.0	16,600
1931	Apr. 4, 1931	4.0	1,160		Jan. 18, 1937	7.58	6,540
					Jan. 21, 1937	11.05	12,600
1932	Dec. 13, 1931	6.9	4,420		Jan. 25, 1937	7.67	6,710
	Jan. 17, 1932	6.6	3,880		Feb. 10, 1937	5.0	2,600
	Jan. 22, 1932	6.2	3,270				
	June 27, 1932	6.5	3,720	1938	Oct. 20, 1937	6.9	5,400
	July 4, 1932	7.80	6,700		Dec. 18, 1937	6.8	5,240
					Feb. 19, 1938	5.5	3,270
1933	Dec. 31, 1932	9.04	8,620		Mar. 5, 1938	5.1	2,730
	Jan. 22, 1933	7.0	4,620		Mar. 16, 1938	7.82	6,880
	Mar. 18, 1933	7.8	6,220		Mar. 31, 1938	5.1	2,730
	Apr. 17, 1933	7.5	5,620		Apr. 8, 1938	7.4	6,200
	May 14, 1933	9.85	10,200		June 2, 1938	6.1	4,150
	July 1, 1933	5.7	3,090		June 26, 1938	5.6	3,410
					July 4, 1938	6.2	4,300
1934	Dec. 17, 1933	6.43	4,080				
				1939	Mar. 13, 1939	4.81	3,460
1935	July 26, 1935	4.80	2,050		Apr. 16, 1939	8.61	9,350
1936	Feb. 14, 1936	6.1	3,640	1940	Feb. 18, 1940	5.17	4,020
	Feb. 26, 1936	6.35	4,080		Apr. 20, 1940	7.69	7,860
	Apr. 6, 1936	5.4	2,710		May 30, 1940	4.34	2,880
1937	Oct. 9, 1936	6.8	4,710	1941	May 17, 1941	3.97	2,400
	Nov. 3, 1936	7.0	5,040				
	Jan. 7, 1937	6.28	3,930	1942	Feb. 7, 1942	6.07	4,680

a Approximately, from information by local residents, annual peak only; present site.

Peak stages and discharges of Flatrock River at St. Paul, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	5.26	3,650
	Apr. 10, 1942	4.67	2,960
	June 20, 1942	5.31	3,650
1943	Nov. 18, 1942	6.43	5,100
	Mar. 16, 1943	7.49	6,750
	Mar. 19, 1943	9.37	10,000
	May 25, 1943	5.38	3,750
1944	Apr. 9, 1944	5.83	4,280
	Apr. 12, 1944	8.91	9,340
1945	Mar. 3, 1945	4.90	3,410
	Mar. 6, 1945	7.87	7,640
	Mar. 19, 1945	4.89	3,410
	Apr. 2, 1945	4.73	3,190
	Apr. 4, 1945	4.85	3,300
	Apr. 17, 1945	4.65	3,080
	June 18, 1945	6.80	5,870
	Sept.29, 1945	4.15	2,590
1946	Feb. 14, 1946	4.44	2,860
1947	Jan. 31, 1947	4.22	2,750
	Apr. 25, 1947	5.60	4,220
	May 2, 1947	7.09	6,170
	May 18, 1947	5.01	3,300
	June 3, 1947	8.45	8,490
	July 14, 1947	8.80	9,170
1948	Feb. 14, 1948	6.2	6,200
	Mar. 27, 1948	6.55	7,000
	Apr. 7, 1948	6.11	6,000
	Apr. 13, 1948	4.07	2,580
	July 22, 1948	4.67	3,480
1949	Nov. 19, 1948	4.23	2,880
	Jan. 5, 1949	10.60	18,500
	Jan. 19, 1949	6.35	6,600
	Jan. 24, 1949	5.67	5,200
	Jan. 28, 1949	5.77	5,400
	Feb. 15, 1949	7.74	9,450
	Mar. 27, 1949	6.04	5,000
	Sept.18, 1949	4.09	2,650
1950	Jan. 4, 1950	8.43	11,200
	Jan. 10, 1950	7.81	9,700
	Jan. 13, 1950	4.40	3,100
	Jan. 16, 1950	8.01	10,200
	Jan. 26, 1950	6.08	6,000
	Feb. 9, 1950	5.17	4,300
	Feb. 14, 1950	9.50	14,500
	Mar. 27, 1950	5.17	4,300
1950	Apr. 4, 1950	6.17	6,200
	Sept.22, 1950	4.86	3,780
1951	Nov. 20, 1950	6.62	7,000
	Dec. 3, 1950	5.80	5,400
	Dec. 7, 1950	4.39	3,100
	Jan. 14, 1951	5.45	4,700
	Feb. 12, 1951	4.41	3,100
	Feb. 21, 1951	7.26	8,400
	Apr. 13, 1951	4.01	2,500
1952	Dec. 9, 1951	6.02	5,800
	Jan. 27, 1952	9.98	15,600
	Feb. 3, 1952	4.17	2,720
	Mar. 22, 1952	5.75	5,400
1953	May 17, 1953	3.81	2,260
1954	Apr. 7, 1954	3.06	1,520
1955	July 9, 1955	4.72	3,550
1956	Nov. 16, 1955	8.45	10,800
	Feb. 27, 1956	4.08	2,650
	Apr. 4, 1956	6.59	7,000
	May 28, 1956	6.05	5,800
	July 5, 1956	4.40	3,100
1957	Apr. 4, 1957	5.17	3,700
	May 22, 1957	7.03	7,100
	June 17, 1957	4.23	2,560
	June 28, 1957	6.58	6,140
	July 5, 1947	5.30	3,840
1958	Dec. 20, 1957	6.69	5,920
	Dec. 26, 1957	4.25	2,560
	May 6, 1958	-	-
	June 14, 1958	6.48	5,600
	July 20, 1958	5.36	3,960
	July 31, 1958	5.26	3,830
1959	Jan. 21, 1959	11.34	14,500
	Feb. 11, 1959	6.44	5,440
	Feb. 14, 1959	5.32	3,830
1960	June 23, 1960	6.90	6,240
	July 3, 1960	4.93	3,320
1961	Mar. 6, 1961	5.25	4,380
	Mar. 13, 1961	6.04	5,600
	Apr. 26, 1961	7.54	7,200
	May 8, 1961	9.60	11,000

3640. East Fork White River at Columbus, Ind.

Location.--Lat 39°12', long 85°56', in NW¼ sec.25, T.9 N., R.5 E., on left bank at abandoned bridge abutment at west end of Second Street in Columbus, 0.6 mile downstream from the confluence of Driftwood River and Flatrock Creek, and 1.4 miles upstream from Haw Creek.

Drainage area.--1,692 sq mi.

Gage.--Nonrecording prior to Oct. 22, 1952; recording thereafter. At railroad bridge 600 ft upstream at same datum prior to Oct. 22, 1952. Datum of gage is 603.12 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft (U.S. Weather Bureau).

Remarks.--Base for partial-duration series, 10,000 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges of East Fork White River at Columbus, Ind.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a17.9	b100,000	1952	Mar. 23, 1952	7.13	11,900
					May 24, 1952	6.6	10,900
1937	January 1937	c15.1	b51,000				
				1953	Mar. 6, 1953	7.10	11,900
1947	June 1947	c12.2	b28,000				
				1954	Apr. 8, 1954	4.12	6,230
1948	Feb. 14, 1948	-	d10,000				
	Mar. 28, 1948	c10.2	20,200	1955	Mar. 6, 1955	3.86	7,250
	Apr. 14, 1948	-	d11,000				
				1956	Nov. 18, 1955	14.35	37,700
1949	Jan. 6, 1949	14.78	46,500		Feb. 28, 1956	7.26	12,700
	Jan. 20, 1949	11.0	23,200		Apr. 5, 1956	7.62	13,300
	Jan. 24, 1949	9.0	16,200		May 30, 1956	14.22	36,500
	Jan. 28, 1949	10.0	19,400		June 23, 1956	8.08	14,200
	Feb. 16, 1949	11.3	24,400				
	Mar. 28, 1949	10.7	22,000	1957	Apr. 6, 1957	10.04	19,200
					May 23, 1957	11.56	24,400
1950	Jan. 6, 1950	13.6	35,500		June 30, 1957	7.65	13,300
	Jan. 11, 1950	11.6	25,600		July 6, 1957	9.19	16,800
	Jan. 16, 1950	13.2	32,700				
	Jan. 28, 1950	11.5	25,200	1958	Dec. 21, 1957	10.53	20,700
	Feb. 15, 1950	13.98	39,000		Dec. 27, 1957	7.01	12,200
	Feb. 23, 1950	6.2	10,100		May 7, 1958	9.71	18,300
	Mar. 29, 1950	9.2	16,800		June 15, 1958	8.90	16,000
	Apr. 5, 1950	8.6	15,200		July 22, 1958	6.20	10,800
					Aug. 3, 1958	9.41	17,400
1951	Nov. 22, 1950	9.43	17,400				
	Dec. 4, 1950	8.20	14,200	1959	Jan. 22, 1959	13.40	32,500
	Dec. 8, 1950	7.45	12,500		Feb. 12, 1959	9.83	18,600
	Jan. 16, 1951	8.80	15,700				
	Feb. 14, 1951	6.55	10,900	1960	Feb. 12, 1960	7.19	12,600
	Feb. 22, 1951	11.45	24,800		June 24, 1960	10.37	20,400
1952	Dec. 8, 1951	9.75	18,600	1961	Mar. 7, 1961	8.72	16,400
	Dec. 10, 1961	9.65	18,000		Mar. 15, 1961	9.84	19,800
	Jan. 28, 1952	16.00	48,700		Apr. 27, 1961	12.16	29,300
	Feb. 4, 1952	7.58	12,900		May 9, 1961	15.12	46,500
	Mar. 13, 1952	6.55	10,900				

a From floodmarks. b About. c Estimated. d Daily mean discharge, estimated.

3645. Clifty Creek at Hartsville, Ind.

Location.--Lat 39°16'25", long 85°42'10", in NW¼ sec.36, T.10 N., R.7 E., at downstream side of left abutment of highway bridge, a quarter of a mile north of Hartsville, and 5 miles upstream from Duck Creek.

Drainage area.--88.8 sq mi.

Gage.--Nonrecording prior to Sept. 24, 1952; recording thereafter. Datum of gage is 677.34 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended on basis of contracted-opening measurement at 11,300 cfs.

Historical data.--Flood of 1913 on Clifty Creek reached a stage about 3 ft higher than the McKinley (1897) flood according to a report in the Evening Republican of Columbus, Ind., dated Mar. 25, 1913. (The preceding statement was apparently for the Petersville area, about 6 miles downstream from Hartsville.)

Remarks.--Base for partial-duration series, 1,300 cfs. Only annual peaks are shown prior to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 25, 1913	a25.1	-	1949	Jan. 5, 1949	13.4	8,100
					Jan. 19, 1949	7.6	2,740
1948	Feb. 14, 1948	b9.07	-		Jan. 24, 1949	9.0	4,000
	Mar. 27, 1948	8.48	3,710		Jan. 28, 1949	7.3	2,500
					Feb. 15, 1949	9.1	4,090
1949	Nov. 19, 1948	8.0	3,100		Mar. 27, 1949	7.4	2,580
	Dec. 14, 1948	7.4	2,580		July 21, 1949	9.4	4,360

a From floodmarks.
b Backwater from ice.

Peak stages and discharges of Clifty Creek at Hartsville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 4, 1950	11.80	6,520	1955	Mar. 4, 1955	5.54	1,340
	Jan. 6, 1950	8.0	3,100		July 8, 1955	6.24	1,760
	Jan. 10, 1950	9.3	4,270				
	Jan. 16, 1950	8.3	3,370	1956	Nov. 16, 1955	9.37	4,360
	Jan. 26, 1950	7.4	2,580		Feb. 2, 1956	7.92	3,010
	Feb. 9, 1950	7.8	2,920		Apr. 3, 1956	9.32	4,270
	Feb. 14, 1950	9.6	4,540		May 28, 1956	8.64	3,640
	Apr. 4, 1950	8.6	3,640		June 22, 1956	11.10	5,890
	Sept.22, 1950	5.5	1,340				
				1957	Apr. 4, 1957	8.88	3,910
1951	Nov. 20, 1950	8.90	3,910		May 20, 1957	5.87	1,580
	Dec. 3, 1950	8.8	3,820		May 22, 1957	8.78	3,820
	Dec. 7, 1950	6.7	2,060		July 4, 1957	9.28	4,270
	Jan. 3, 1951	5.7	1,460		June 28, 1957	5.53	1,340
	Jan. 14, 1951	6.4	1,880				
	Feb. 12, 1951	6.8	2,130	1958	Dec. 20, 1957	6.96	2,270
	Feb. 21, 1951	8.7	3,730		Dec. 26, 1957	5.81	1,520
					May 6, 1958	7.64	2,700
1952	Dec. 9, 1951	6.1	1,700		June 11, 1958	5.51	1,350
	Dec. 26, 1951	5.5	1,340		June 14, 1958	6.46	1,940
	Jan. 26, 1952	11.5	6,250				
	Mar. 11, 1952	5.8	1,520	1959	Jan. 21, 1959	14.29	11,300
	Mar. 22, 1952	8.0	3,100		Feb. 10, 1959	7.69	2,780
	June 27, 1952	6.9	2,200		Feb. 14, 1959	7.56	2,700
1953	Mar. 4, 1953	5.57	1,370	1960	June 23, 1960	8.79	3,630
	May 16, 1953	5.49	1,340		July 3, 1960	5.98	1,640
1954	May 27, 1954	4.17	635	1961	Mar. 5, 1961	5.58	1,600
					Mar. 13, 1961	7.94	2,950
1955	Feb. 27, 1955	5.82	1,520		May 8, 1961	11.27	6,120

3650. Sand Creek near Brewersville, Ind.

Location.--Lat 39°05'05", long 85°39'30", in NW¼ sec.5, T.7 N., R.8 E., on left bank at downstream side of county highway bridge, 2½ miles west of Brewersville, and 5.2 miles upstream from Bear Creek.

Drainage area.--156 sq mi; 153 sq mi prior to Oct. 6, 1952.

Gage.--Nonrecording prior to Oct. 6, 1952; recording thereafter. At bridge 1.7 miles upstream at datum approximately 8 ft higher prior to Oct. 6, 1952. Altitude of gage is 630 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements at former site; defined by current-meter measurements below 6,500 cfs and contracted-opening measurement at 19,900 cfs at present site.

Historical data.--Flood of March 1897 was 14 in. higher at Brewersville than ever before seen according to the North Vernon Republican dated Mar. 12, 1897. According to information by residents in the Brewersville area, it was definitely concluded that the stage of the 1897 flood was greater than that of the 1913 flood, but the range varied from 7 in. to about 3 ft higher. According to a local resident, the flood of 1916 was 4 ft lower than the 1913 flood at Brewersville. Flood of Jan. 4, 1950, was about 9 ft lower than the flood of 1897 at Brewersville according to information by residents, and elevation of high-water marks for the 1950 flood.

Remarks.--Base for partial-duration series, 2,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 14, 1948	15.8	7,960	1949	Mar. 27, 1949	13.7	6,020
	Mar. 27, 1948	17.5	9,980				
	Apr. 12, 1948	13.3	5,700	1950	Jan. 4, 1950	19.20	12,400
					Jan. 6, 1950	14.5	6,710
1949	Dec. 15, 1948	12.5	5,070		Jan. 10, 1950	14.5	6,710
	Jan. 5, 1949	19.0	12,100		Jan. 24, 1950	13.1	5,540
	Jan. 19, 1949	12.1	4,790		Jan. 26, 1950	13.7	6,020
	Jan. 24, 1949	18.4	11,200		Feb. 9, 1950	13.0	5,460
	Jan. 27, 1949	12.0	4,720		Feb. 14, 1950	16.7	8,960
	Feb. 15, 1949	12.8	5,300		Mar. 20, 1950	9.8	3,200
	Mar. 22, 1949	11.4	4,300		Mar. 27, 1950	11.4	4,300

Peak stages and discharges of Sand Creek near Brewersville, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 4, 1950	13.6	5,940	1957	May 22, 1957	15.58	7,760
					June 28, 1957	11.65	4,440
1951	Nov. 20, 1950	18.4	11,100		July 5, 1957	14.19	6,440
	Dec. 3, 1950	15.2	7,260				
	Dec. 7, 1950	11.4	4,230	1958	Dec. 7, 1957	9.65	3,320
	Jan. 14, 1951	14.4	6,620		Dec. 20, 1957	11.89	5,020
					Dec. 26, 1957	10.45	3,880
1952	Jan. 26, 1952	13.4	5,780		May 3, 1958	10.39	3,880
	Mar. 23, 1952	12.7	5,220		May 6, 1958	10.88	4,230
					June 11, 1958	11.51	4,700
1953	Mar. 4, 1953	10.19	3,460		June 14, 1958	11.19	4,460
1954	June 1, 1954	5.75	1,240	1959	Jan. 21, 1959	21.70	19,900
					Feb. 10, 1959	11.12	4,380
1955	Feb. 27, 1955	11.42	4,300		Feb. 14, 1959	9.65	3,320
	Mar. 5, 1955	10.15	3,460				
	Mar. 21, 1955	10.97	4,020	1960	June 23, 1960	16.86	9,750
					July 3, 1960	9.59	3,320
1956	Nov. 16, 1955	9.58	3,100				
	Feb. 2, 1956	12.05	4,720	1961	Mar. 5, 1961	10.90	4,230
	Feb. 25, 1956	10.60	3,740		Mar. 13, 1961	12.43	5,420
	Apr. 4, 1956	12.99	5,460		May 8, 1961	15.74	8,550
	May 28, 1956	15.45	7,560				
1957	Apr. 4, 1957	16.33	8,480				

3655. East Fork White River at Seymour, Ind.

Location.--Lat 38°58'57", long 85°53'57", in NW¼ sec.7, T.6 N., R.6 E., on left bank 1,700 ft downstream from highway bridge, 1 mile north of Seymour, 9.6 miles downstream from Sand Creek, and at mile 219.2.

Drainage area.--2,333 sq mi.

Gage.--Nonrecording prior to July 17, 1934; recording thereafter. At site 1,700 ft upstream, 500 ft upstream from dam, at datum 7.61 ft higher prior to July 3, 1931. At site 100 ft downstream at present datum July 3, 1931, to July 16, 1934. Datum of gage is 550.67 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 59,000 cfs and extended above by logarithmic plotting.

Bankfull stage.--14 ft (U.S. Weather Bureau).

Historical data.--Flood of March 1904 reported highest since 1897. Flood of Mar. 26, 1913, is maximum stage known.

Remarks.--Gage heights for 1924-27 furnished by Indiana Department of Conservation. Base for partial-duration series, 12,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	a21.0	b120,000	1927	Mar. 22, 1927	11.2	47,100
					Apr. 7, 1927	7.9	15,300
1924	Dec. 14, 1923	9.6	24,000				
	Dec. 23, 1923	8.9	19,500	1928	Dec. 2, 1927	10.2	29,200
	Jan. 11, 1924	7.8	15,000		Dec. 15, 1927	10.3	30,400
	Mar. 31, 1924	9.0	20,100		Feb. 6, 1928	8.5	17,600
					Apr. 22, 1928	7.6	14,300
1925	Mar. 19, 1925	5.2	7,920				
				1929	Jan. 20, 1929	10.2	29,200
1926	Nov. 16, 1925	8.2	16,300		Jan. 26, 1929	10.2	29,200
	Feb. 15, 1926	9.3	21,900		Feb. 27, 1929	10.7	36,100
	Mar. 23, 1926	7.4	13,700		Apr. 11, 1929	8.2	16,300
	Apr. 9, 1926	8.7	18,500		May 15, 1929	8.4	17,100
	Sept.12, 1926	9.2	21,200		May 20, 1929	8.5	17,600
					July 6, 1929	6.9	12,100
1927	Jan. 23, 1927	9.9	26,400				

a From information by Corps of Engineers and State Highway Department of Indiana.
b Annual peak only.

Peak stages and discharges of East Fork White River at Seymour, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Dec. 19, 1929	8.7	18,500
	Jan. 3, 1930	7.3	13,400
	Jan. 10, 1930	11.7	67,100
	Jan. 15, 1930	11.2	47,100
	Feb. 14, 1930	7.3	13,400
	Feb. 27, 1930	6.9	12,100
1931	Apr. 4, 1931	5.20	7,030
1932	Dec. 14, 1931	c9.0	20,100
	Jan. 19, 1932	c10.1	28,200
	Jan. 24, 1932	c9.4	22,600
	July 6, 1932	13.6	13,800
1933	Dec. 26, 1932	c7.7	14,500
	Jan. 1, 1933	c10.9	40,100
	Jan. 23, 1933	c9.7	24,800
	Mar. 19, 1933	c10.4	31,600
	Apr. 19, 1933	c9.9	26,400
	May 15, 1933	c10.90	40,100
1934	Mar. 28, 1934	11.58	10,300
1935	May 6, 1935	12.25	11,100
1936	Feb. 14, 1936	d16.50	-
	Feb. 28, 1936	14.96	17,000
1937	Nov. 6, 1936	16.32	24,300
	Jan. 11, 1937	15.62	19,900
	Jan. 16, 1937	19.50	66,600
	Jan. 22, 1937	19.02	56,500
	Jan. 25, 1937	17.48	33,600
1938	Dec. 19, 1937	16.12	22,900
	Feb. 21, 1938	13.38	12,400
	Mar. 17, 1938	17.39	32,600
	Mar. 27, 1938	14.13	13,900
	Apr. 2, 1938	14.81	15,800
	Apr. 10, 1938	16.46	24,400
	July 6, 1938	15.18	17,300
1939	Mar. 12, 1939	17.62	34,900
	Apr. 17, 1939	17.74	36,200
1940	Apr. 20, 1940	18.37	46,400
1941	June 13, 1941	5.95	3,650
1942	Feb. 8, 1942	14.75	15,400
	Feb. 18, 1942	14.07	13,900
	Mar. 11, 1942	13.32	12,400
	Apr. 11, 1942	15.08	16,800
1943	Mar. 17, 1943	17.80	33,000
	Mar. 20, 1943	18.79	44,800
	May 21, 1943	15.98	21,000
	May 26, 1943	12.97	12,000
1944	Apr. 12, 1944	18.25	37,100
1945	Feb. 27, 1945	14.46	13,400
	Mar. 3, 1945	16.82	22,500
	Mar. 7, 1945	18.61	42,900
	Mar. 21, 1945	16.90	23,400
	Apr. 5, 1945	15.92	17,000
	Apr. 17, 1945	14.87	14,300
	June 19, 1945	16.45	19,500
1946	Feb. 14, 1946	15.25	15,000
1947	Jan. 31, 1947	15.12	14,800
	Apr. 27, 1947	14.44	13,200
	May 2, 1947	16.33	18,900
	May 18, 1947	15.70	18,800
	June 4, 1947	17.84	33,000
	June 9, 1947	14.37	14,200
1948	Feb. 14, 1948	15.53	17,600
	Mar. 28, 1948	17.42	28,000
	Apr. 9, 1948	15.21	16,400
	Apr. 13, 1948	16.04	19,600
1949	Dec. 16, 1948	14.17	13,100
	Jan. 5, 1949	19.67	78,500
	Jan. 19, 1949	17.07	25,600
	Jan. 25, 1949	18.04	35,600
	Jan. 28, 1949	17.17	26,300
	Feb. 16, 1949	17.03	24,900
	Mar. 27, 1949	16.97	24,900
1950	Jan. 5, 1950	18.69	49,000
	Jan. 11, 1950	17.36	32,500
	Jan. 16, 1950	17.71	36,000
	Jan. 27, 1950	17.09	29,500
	Feb. 9, 1950	15.52	18,800
	Feb. 15, 1950	18.67	54,000
	Feb. 23, 1950	13.76	12,800
	Mar. 28, 1950	15.90	20,800
	Apr. 5, 1950	16.30	23,100
1951	Nov. 21, 1950	16.47	24,500
	Dec. 4, 1950	16.46	24,500
	Dec. 8, 1950	15.56	19,300
	Jan. 4, 1951	14.09	13,600
	Jan. 15, 1951	16.27	23,100
	Feb. 14, 1951	13.76	13,700
	Feb. 22, 1951	17.04	28,600
1952	Dec. 10, 1951	16.22	22,500
	Dec. 26, 1951	13.47	13,100
	Jan. 28, 1952	18.65	44,000
	Feb. 4, 1952	15.25	16,400
	Mar. 12, 1952	14.06	12,800
	Mar. 23, 1952	16.56	25,200
	Apr. 7, 1952	13.04	12,100
	May 25, 1952	13.56	13,300
1953	Mar. 7, 1953	13.55	13,300
	May 18, 1953	13.52	13,100
1954	Apr. 9, 1954	8.99	6,120
1955	Mar. 22, 1955	e12.68	11,100
1956	Nov. 18, 1955	18.11	42,100
	Feb. 28, 1956	13.98	14,100
	Apr. 4, 1956	16.72	26,100
	May 30, 1956	18.05	40,600
	June 23, 1956	15.56	18,900
1957	Apr. 5, 1957	17.54	29,000
	May 23, 1957	17.94	33,400
	July 1, 1957	14.28	13,600
	July 6, 1957	16.86	24,700
1958	Dec. 21, 1957	17.16	26,400
	Dec. 26, 1957	15.12	15,500
	May 7, 1958	17.08	30,100
	June 14, 1958	16.62	21,900
	July 23, 1958	16.78	23,300
	Aug. 4, 1958	16.12	19,100
1959	Jan. 22, 1959	19.39	62,100
	Feb. 12, 1959	15.99	18,600
1960	Feb. 13, 1960	14.16	13,200
	June 24, 1960	17.59	28,100
1961	Mar. 7, 1961	16.00	18,600
	Mar. 14, 1961	16.33	24,000
	Apr. 28, 1961	17.02	28,000
	May 9, 1961	18.88	59,400

c Chain gage, datum 7.61 ft higher than present datum.
d Backwater from ice.
e Occurred on Mar. 2, 1955.

3660. Graham Creek near Vernon, Ind.

Location.--Lat 38°56', long 85°34', in SE¼ sec.30, T.6 N., R.9 E., on right bank 10 ft upstream from State Highway 7, 4.7 miles southeast of Vernon, and 8.0 miles downstream from Little Graham Creek.

Drainage area.--77.6 sq mi.

Gage.--Recording. Datum of gage is 677.47 ft above mean sea level, datum of 1929 (unadjusted).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and by contracted-opening measurements at 8,800, 15,700, and 17,500 cfs.

Remarks.--Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Nov. 16, 1955	8.20	2,780	1958	Dec. 20, 1957	8.86	3,240
	Jan. 30, 1956	8.10	2,720		Dec. 26, 1957	7.47	2,320
	Feb. 18, 1956	7.46	2,320		June 26, 1958	8.82	3,170
	Feb. 25, 1956	7.84	2,520		July 22, 1958	13.36	6,600
	Mar. 8, 1956	7.93	2,580				
	May 28, 1956	10.78	4,470	1959	Jan. 21, 1959	19.13	15,700
1957	Jan. 22, 1957	8.60	3,040	1960	Feb. 6, 1960	8.05	2,700
	Apr. 4, 1957	9.88	3,880		June 23, 1960	21.37	18,600
	May 22, 1957	9.35	3,560		July 3, 1960	10.53	4,280
	June 28, 1957	9.25	3,430				
	July 5, 1957	15.13	8,800	1961	Mar. 13, 1961	8.05	2,700
					May 7, 1961	14.62	8,080
1958	Dec. 7, 1957	7.58	2,390				

3665. Muscatatuck River near Deputy, Ind.

Location.--Lat 38°48'10", long 85°40'10", in NE¼ sec.7, T.4 N., R.8 E., on right bank at downstream side of highway bridge, 1½ miles northwest of Deputy, 1¾ miles upstream from Coffee Creek, and 2 miles downstream from Lewis Creek.

Drainage area.--296 sq mi.

Gage.--Nonrecording prior to June 22, 1955; recording thereafter. Altitude of gage is 550 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs and contracted-opening measurement at 52,200 cfs. Discharge adjusted for rate of change of stage between 9.0 and 22.0 ft since installation of recording gage.

Bankfull stage.--14 ft.

Historical data.--Maximum stage known prior to Jan. 21, 1959, about 30.0 ft, in 1921, from information by local residents.

Remarks.--Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 14, 1948	a20.5	-	1950	Jan. 4, 1950	23.40	16,000
	Apr. 12, 1948	22.5	14,000		Jan. 6, 1950	21.3	11,800
					Jan. 10, 1950	19.3	8,300
1949	Dec. 15, 1948	21.8	12,800		Jan. 13, 1950	20.0	9,350
	Jan. 5, 1949	23.1	15,400		Jan. 16, 1950	20.6	10,400
	Jan. 19, 1949	19.2	8,150		Jan. 26, 1950	20.0	9,350
	Jan. 24, 1949	27.7	28,000		Feb. 9, 1950	22.8	14,800
	Jan. 28, 1949	21.2	11,600		Feb. 14, 1950	23.2	15,600
	Feb. 15, 1949	20.0	9,350		Feb. 22, 1950	19.1	8,000
	Mar. 10, 1949	19.0	7,850		Apr. 4, 1950	20.7	11,000
	Mar. 27, 1949	20.6	10,400		June 4, 1950	19.2	8,150
	June 16, 1949	23.0	15,200				

a Backwater from ice.

Peak stages and discharges of Muscatatuck River near Deputy, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 20, 1950	22.3	13,800	1956	Feb. 18, 1956	c18.95	7,780
	Dec. 3, 1950	b20.6	10,400		Mar. 8, 1956	19.56	8,750
	Dec. 7, 1950	18.8	7,550		May 28, 1956	c19.42	8,470
	Jan. 4, 1951	21.4	12,000				
	Jan. 15, 1951	22.0	13,200	1957	Jan. 23, 1957	c19.12	7,780
	Feb. 13, 1951	19.2	8,150		Apr. 4, 1957	22.07	13,400
	Feb. 21, 1951	20.7	10,600		May 22, 1957	c20.39	9,900
	Mar. 18, 1951	21.6	12,400		July 5, 1957	c25.80	22,100
1952	Dec. 21, 1951	20.0	9,350	1958	Nov. 18, 1957	19.25	8,840
	Mar. 11, 1952	22.9	15,000		Dec. 7, 1957	20.16	10,300
					Dec. 20, 1957	20.06	9,980
1953	Jan. 28, 1953	17.60	6,100		July 23, 1958	21.93	13,600
1954	Apr. 17, 1954	4.16	439	1959	Jan. 21, 1959	33.1	52,200
1955	Feb. 21, 1955	20.1	9,500	1960	Feb. 6, 1960	18.79	8,080
	Feb. 27, 1955	21.6	12,400		June 23, 1960	28.57	31,800
	Mar. 5, 1955	20.4	10,000		July 3, 1960	19.79	8,920
	Mar. 15, 1955	20.6	10,400				
				1961	May 8, 1961	24.36	24,300
1956	Jan. 30, 1956	19.27	8,230		June 15, 1961	19.98	11,000
	Feb. 2, 1956	c19.23	8,230				

b Estimated.
c Occurred at different time than peak discharge.

3670. Muscatatuck River near Austin, Ind.

Location.--Lat 38°46', long 85°49', in sec.23, T.4 N., R.6 E., on right bank 15 ft downstream from bridge on U.S. Highway 31, 2 miles north of Austin, and 4 miles upstream from Stucker Fork.

Drainage area.--365 sq mi.

Gage.--Nonrecording prior to June 22, 1934; recording thereafter. Datum of gage is 513.96 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 34,000 cfs.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Dec. 31, 1932	26.3	24,700	1940	Apr. 20, 1940	24.96	21,100
	Jan. 22, 1933	24.9	18,400				
	Jan. 26, 1933	21.0	7,030	1941	June 12, 1941	21.26	6,380
	Mar. 8, 1933	21.2	7,450				
	Mar. 19, 1933	24.2	14,800	1942	Apr. 10, 1942	23.30	12,900
	Apr. 18, 1933	24.2	14,800				
	May 14, 1933	26.60	26,000	1943	Mar. 20, 1943	25.03	19,600
1934	July 1, 1934	19.18	3,550	1944	Apr. 12, 1944	22.60	10,200
1935	Mar. 12, 1935	22.93	11,800	1945	Feb. 23, 1945	21.1	5,900
	Mar. 26, 1935	21.07	7,240		Feb. 27, 1945	24.25	15,500
					Mar. 3, 1945	24.45	16,300
1936	Apr. 7, 1936	22.04	9,730		Mar. 7, 1945	26.22	24,700
					Mar. 20, 1945	24.27	15,900
1937	Jan. 11, 1937	20.3	5,490				
	Jan. 15, 1937	26.36	25,100	1946	Oct. 3, 1945	20.40	5,160
	Jan. 19, 1937	23.5	14,200		Dec. 27, 1945	20.26	5,000
	Jan. 22, 1937	25.8	22,700		Feb. 7, 1946	21.0	6,200
	Jan. 25, 1937	24.8	18,700		Feb. 14, 1946	23.20	12,000
1938	Apr. 1, 1938	22.45	9,750	1947	Jan. 4, 1947	21.58	7,400
					Apr. 12, 1947	20.82	5,840
1939	Mar. 6, 1939	22.48	10,100		Apr. 22, 1947	22.25	8,850
	Mar. 12, 1939	24.66	18,300		May 22, 1947	20.41	5,160
	Apr. 7, 1939	21.13	5,880		June 3, 1947	23.57	13,400
	Apr. 16, 1939	25.70	22,300				

Peak stages and discharges of Muscatatuck River near Austin, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 15, 1948	21.22	6,520	1955	Feb. 22, 1955	21.70	7,500
	Apr. 13, 1948	23.63	12,800		Feb. 28, 1955	22.71	9,800
					Mar. 5, 1955	21.43	6,900
1949	Dec. 16, 1948	22.63	9,500		Mar. 16, 1955	22.00	8,100
	Jan. 5, 1949	23.51	12,400		Mar. 22, 1955	21.46	7,100
	Jan. 20, 1949	20.82	5,800				
	Jan. 25, 1949	26.02	23,600	1956	Nov. 17, 1955	20.70	5,620
	Jan. 28, 1949	23.01	10,700		Jan. 30, 1956	20.65	5,440
	Feb. 16, 1949	23.11	11,000		Feb. 3, 1956	21.47	7,100
	Mar. 11, 1949	21.26	6,700		Feb. 18, 1956	21.45	6,900
	Mar. 28, 1949	22.28	8,750		Feb. 26, 1956	20.92	5,980
	June 16, 1949	23.90	14,000		Mar. 8, 1956	21.90	7,900
					May 29, 1956	21.58	7,300
1950	Jan. 5, 1950	24.25	15,200				
	Jan. 11, 1950	21.27	6,520	1957	Jan. 24, 1957	20.67	5,620
	Jan. 16, 1950	21.90	7,700		Apr. 5, 1957	23.09	11,000
	Jan. 27, 1950	21.62	7,500		May 23, 1957	22.39	9,000
	Feb. 10, 1950	23.02	10,700		June 29, 1957	21.67	7,500
	Feb. 15, 1950	23.65	12,800		July 7, 1957	b24.06	14,800
	Feb. 23, 1950	21.19	6,340				
	Apr. 5, 1950	22.53	9,250	1958	Nov. 20, 1957	20.88	5,980
					Dec. 8, 1957	22.07	8,300
1951	Nov. 21, 1950	22.75	10,100		Dec. 21, 1957	22.08	8,300
	Dec. 4, 1950	21.48	7,100		July 24, 1958	22.30	8,750
	Jan. 4, 1951	22.20	8,500				
	Jan. 15, 1951	23.67	13,200	1959	Jan. 22, 1959	29.20	53,900
	Feb. 14, 1951	21.05	6,160				
	Feb. 21, 1951	22.28	8,750	1960	Feb. 7, 1960	21.00	6,160
	Mar. 19, 1951	22.13	8,300		June 24, 1960	26.36	26,900
					July 2, 1960	20.37	5,110
1952	Mar. 12, 1952	22.5	9,250		July 4, 1960	21.26	6,700
	Mar. 23, 1952	20.64	5,440				
				1961	May 8, 1961	25.31	20,100
1953	Jan. 29, 1953	19.70	4,120		June 16, 1961	21.43	6,900
1954	Jan. 21, 1954a	9.39	a540				

a Estimated.
b From floodmark.

3680. Brush Creek near Nebraska, Ind.

Location.--Lat 39°04', long 85°29', in NE¼ sec.11, T.7 N., R.9 E., on right bank at downstream side of county road bridge, 1.5 miles northwest of Nebraska, 2.9 miles northeast of Butlerville, and 3.6 miles upstream from Brush Creek Dam.

Drainage area.--11.7 sq mi.

Gage.--Recording. Datum of gage is 717.17 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 440 cfs and extended on basis of contracted-opening measurement at 2,360 cfs.

Remarks.--Base for partial-duration series, 950 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 25, 1956	7.50	1,240	1958	July 22, 1958	9.70	2,360
	May 28, 1956	8.75	1,870				
				1959	Jan. 21, 1959	10.30	2,730
1957	Apr. 3, 1957	8.19	1,560				
	May 22, 1957	8.80	1,870	1960	Jan. 14, 1960	7.62	1,280
	June 28, 1957	7.13	1,070		June 23, 1960	10.03	2,540
	July 4, 1957	9.17	2,080		July 3, 1960	7.44	1,190
1958	Dec. 19, 1957	6.86	992	1961	Mar. 5, 1961	8.96	1,980
	May 3, 1958	7.88	1,420		Mar. 12, 1961	7.23	1,110
	May 5, 1958	8.20	1,560		May 7, 1961	9.48	2,250

3690. Vernon Fork near Butlerville, Ind.
(Published as "North Fork of Vernon Fork" prior to October 1960)

Location.--Lat 39°02'55", long 85°32'40", in SE¼ sec.17, T.7 N., R.9 E., on left bank, 0.3 mile downstream from Muscatatuck State School dam, 1¼ miles downstream from Brush Creek, and 2 miles northwest of Butlerville.

Drainage area.--87.3 sq mi.

Gage.--Nonrecording prior to Aug. 19, 1942; recording thereafter. Datum of gage is 669.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended on basis of slope-area measurement at 26,200 cfs.

Bankfull stage.--11 ft.

Historical data.--Flood of March 1897 reached a stage of about 661.1 ft above mean sea level at North Vernon pumping station, 6 miles downstream, based on information by employee of city of North Vernon. From a report of this flood in a North Vernon newspaper of March 1897, it was the highest remembered. Flood of Mar. 25, 1913, reached a stage of about 656.4 ft above mean sea level at North Vernon pumping station, based on information in the North Vernon Sun dated Mar. 28, 1913. According to information in the North Vernon Republican dated Mar. 27, 1913, "Water highest since 1897 flood." Flood of 1937 reached a stage of 654.6 ft above mean sea level at North Vernon pumping station, based on floodmark by city of North Vernon employee. Flood of Jan. 4, 1950, reached a stage of 652.7 ft above mean sea level at North Vernon pumping station, from floodmarks.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 9, 1942	8.94	a2,560	1950	Apr. 4, 1950	12.87	5,570
1943	Mar. 16, 1943	17.79	9,910	1951	Nov. 20, 1950	15.98	8,030
	Mar. 19, 1943	16.96	9,030		Dec. 3, 1950	14.25	6,230
					Jan. 14, 1951	13.73	5,750
1944	Feb. 22, 1944	11.73	4,060		Feb. 20, 1951	12.33	4,540
	Apr. 11, 1944	12.63	4,780				
				1952	Jan. 26, 1952	13.18	5,300
1945	Feb. 26, 1945	b13.7	5,750		Mar. 11, 1952	12.05	4,300
	Mar. 2, 1945	b13.5	5,570				
	Mar. 6, 1945	c18.72	10,900	1953	Mar. 4, 1953	10.34	3,260
	Apr. 16, 1945	11.97	4,300				
	July 14, 1945	11.8	4,140	1954	June 1, 1954	5.58	840
1946	Feb. 13, 1946	15.95	8,030	1955	Feb. 27, 1955	12.05	4,300
1947	Jan. 30, 1947	12.17	4,460	1956	Feb. 2, 1956	10.97	4,450
	May 17, 1947	12.11	4,380		Feb. 25, 1956	10.68	4,260
	June 2, 1947	14.30	6,330		Apr. 4, 1956	11.37	4,710
					May 28, 1956	16.23	8,330
1948	Feb. 13, 1948	d17.86	e6,530				
	Mar. 27, 1948	15.12	7,130	1957	Apr. 3, 1957	14.79	7,170
	Apr. 12, 1948	12.55	4,780		May 22, 1957	17.04	9,080
					June 28, 1957	10.84	4,320
1949	Nov. 19, 1948	13.63	5,660		July 5, 1957	13.28	6,020
	Dec. 15, 1948	14.43	6,430				
	Jan. 4, 1949	17.60	9,690	1958	Dec. 20, 1957	10.63	4,190
	Jan. 24, 1949	18.73	10,900		May 3, 1958	12.02	5,100
	Jan. 27, 1949	12.46	4,700		July 22, 1958	15.48	7,730
	Feb. 15, 1949	14.08	6,130				
	Mar. 27, 1949	12.00	4,300	1959	Jan. 21, 1959	25.41	26,200
1950	Jan. 4, 1950	17.90	10,000	1960	Jan. 15, 1960	11.10	4,370
	Jan. 6, 1950	12.69	4,860		June 23, 1960	17.68	10,400
	Jan. 15, 1950	12.78	4,940				
	Jan. 26, 1950	12.28	4,940	1961	Mar. 5, 1961	10.76	4,160
	Feb. 9, 1950	12.01	4,300		Mar. 13, 1961	11.79	4,860
	Feb. 14, 1950	13.72	5,750		May 7, 1961	16.78	8,850
	Mar. 27, 1950	11.85	4,140				

a Annual peak only.
b From floodmarks.
c From high-water mark in gage well.
d Backwater from ice.
e Estimated.

3695. Vernon Fork at Vernon, Ind.

Location.--Lat 38°57', long 85°37', in sec.10, T.6 N., R.8 E., on right bank just downstream from highway bridge, 1 mile southwest of Vernon, and 2 miles downstream from confluence of North and South Forks.

Drainage area.--201 sq mi.

Gage.--Nonrecording prior to Jan. 14, 1940; recording thereafter. Datum of gage is 587.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 24,000 cfs and extended on basis of slope-area measurement at 56,800 cfs.

Bankfull stage.--15 ft.

Historical data.--Flood of March 1897 is the highest remembered at Vernon. According to information by local residents, this flood was approximately 6½ ft higher than the flood of Mar. 6, 1945, at the southeast edge of Vernon. The stage of the flood of March 1913 was about 6 ft lower than that of the 1897 flood, according to information obtained from local residents.

Remarks.--Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 18, 1940	11.65	6,280	1950	Mar. 20, 1950	11.58	6,060
	Apr. 19, 1940	20.72	17,700		Mar. 27, 1950	13.33	7,700
					Apr. 4, 1950	15.03	9,510
1941	June 10, 1941	7.71	3,450				
				1951	Nov. 20, 1950	19.12	15,200
1942	Apr. 9, 1942	12.00	6,600		Dec. 3, 1950	16.55	11,500
					Jan. 4, 1951	13.85	8,200
1943	Feb. 4, 1943	11.36	6,060		Jan. 14, 1951	17.32	12,500
	Mar. 16, 1943	20.88	17,900		Feb. 21, 1951	14.33	8,730
	Mar. 19, 1943	23.23	21,900		Mar. 18, 1951	12.07	6,510
1944	Feb. 22, 1944	12.22	6,800	1952	Jan. 27, 1952	12.70	7,100
	Apr. 11, 1944	14.93	9,620		Feb. 2, 1952	12.15	6,600
					Mar. 11, 1952	14.05	8,400
1945	Feb. 26, 1945	18.9	14,900				
	Mar. 3, 1945	18.6	14,400	1953	Jan. 28, 1953	11.46	5,970
	Mar. 6, 1945	26.28	27,700				
	Mar. 20, 1945	15.59	10,400	1954	Feb. 28, 1954	5.33	1,250
	Apr. 2, 1945	11.82	6,420				
	Apr. 17, 1945	13.58	8,200	1955	Jan. 5, 1955	11.63	6,020
	June 17, 1945	12.14	6,700		Feb. 21, 1955	13.12	7,500
					Feb. 27, 1955	15.72	10,100
1946	Dec. 25, 1945	12.26	6,900		Mar. 21, 1955	13.95	8,400
	Feb. 14, 1946	19.19	15,400				
				1956	Feb. 2, 1956	13.23	7,600
1947	Jan. 30, 1947	13.20	7,800		Feb. 25, 1956	12.93	7,300
	May 21, 1947	12.15	6,510		Apr. 4, 1956	12.54	6,900
	June 2, 1947	18.60	14,400		May 28, 1956	19.30	15,500
1948	Feb. 14, 1948	18.17	13,800	1957	Apr. 4, 1957	18.67	14,600
	Mar. 27, 1948	15.57	10,200		May 22, 1957	20.02	16,600
	Apr. 12, 1948	14.80	9,280		June 28, 1957	13.58	8,000
					July 5, 1957	21.68	19,300
1949	Nov. 19, 1948	15.42	9,990				
	Dec. 15, 1948	17.96	13,600	1958	Dec. 20, 1957	14.01	8,400
	Jan. 4, 1949	23.72	23,200		Dec. 26, 1957	13.16	7,600
	Jan. 19, 1949	12.28	6,700		May 3, 1958	13.45	7,800
	Jan. 24, 1949	24.36	25,000		May 5, 1958	14.58	9,060
	Jan. 27, 1949	14.95	9,510		June 14, 1958	11.96	6,400
	Feb. 15, 1949	17.45	12,600		July 22, 1958	20.78	17,800
	Mar. 10, 1949	11.82	6,240				
	Mar. 22, 1949	12.08	6,510	1959	Jan. 21, 1959	32.83	56,800
	Mar. 27, 1949	13.42	7,800				
				1960	Jan. 15, 1960	13.37	7,800
1950	Dec. 26, 1949	13.44	7,800		Feb. 6, 1960	11.77	6,200
	Jan. 4, 1950	24.30	24,800		June 23, 1960	28.13	35,300
	Jan. 6, 1950	15.73	10,400		July 3, 1960	14.20	8,620
	Jan. 10, 1950	13.33	7,700				
	Jan. 16, 1950	15.64	10,200	1961	Mar. 5, 1961	14.42	8,840
	Jan. 26, 1950	14.76	9,280		Mar. 13, 1961	14.50	8,950
	Feb. 9, 1950	15.64	10,200		May 7, 1961	22.43	20,600
	Feb. 14, 1950	17.55	12,800				

3715. East Fork White River near Bedford, Ind.

Location.--Lat 38°46'10", long 86°24'30", in NE¼ sec.21, T.4 N., R.1 E., on downstream side of center pier of bridge on county road, 0.4 mile upstream from Mill Creek, 2.9 miles downstream from Sugar Creek, 3.9 miles northeast of Mitchell, and 7.8 miles southeast of Bedford.

Drainage area.--3,870 sq mi; 4,060 sq mi prior to Sept. 25, 1957.

Gage.--Nonrecording prior to Feb. 6, 1940; recording thereafter. Feb. 6, 1940, to Sept. 24, 1957, at site 9.7 miles downstream at datum 469.20 ft above mean sea level, datum of 1929. Datum of present gage is 473.59 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 67,000 cfs and extended to 155,000 cfs by logarithmic plotting at former site. Discharge adjusted for rate of change of stage above 16 ft for 1942 and 1943, and above 21 ft since 1944, at former site. Defined by current-meter measurements at present site, and adjusted for rate of change of stage.

Bankfull stage.--10 ft; 20 ft at former site (U.S. Weather Bureau).

Remarks.--Base for partial-duration series, 13,000 cfs. Peak stage usually occurs at different time or on different day than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a47.5	b155,000	1951	Jan. 8, 1951	17.10	19,100
					Jan. 20, 1951	-	c25,000
1940	Apr. 23, 1940	29.96	50,200		Feb. 25, 1951	25.92	36,400
					Mar. 22, 1951	17.57	19,900
1941	June 12, 1941	10.08	7,960		Apr. 16, 1951	16.18	17,600
					Apr. 24, 1951	13.53	13,300
1942	Feb. 12, 1942	15.45	14,900				
	Feb. 21, 1942	15.00	14,400	1952	Dec. 14, 1951	-	c21,000
	Mar. 15, 1942	16.21	16,000		Jan. 6, 1952	16.13	17,500
	Apr. 14, 1942	21.48	24,300		Jan. 31, 1952	26.16	37,300
					Mar. 15, 1952	19.92	23,700
1943	Mar. 22, 1943	32.18	59,500		Mar. 26, 1952	21.19	26,000
	May 23, 1943	17.42	17,700		Apr. 8, 1952	14.70	15,200
					Apr. 16, 1952	13.38	13,100
1944	Apr. 15, 1944	28.72	44,900				
	Apr. 27, 1944	16.08	16,700	1953	Mar. 8, 1953	15.48	16,500
					Mar. 21, 1953	16.32	17,800
1945	Mar. 9, 1945	33.75	68,400				
	Mar. 24, 1945	23.48	28,900	1954	Apr. 11, 1954	7.49	4,600
	Apr. 7, 1945	21.53	25,300				
	Apr. 20, 1945	17.51	18,900	1955	Mar. 5, 1955	20.20	24,200
	June 23, 1945	22.81	27,500		Mar. 25, 1955	18.23	18,500
1946	Dec. 31, 1945	15.70	16,000	1956	Nov. 22, 1955	19.73	23,400
	Feb. 18, 1946	18.93	21,100		Feb. 6, 1956	17.08	19,000
	Mar. 19, 1946	15.48	15,800		Mar. 2, 1956	17.62	19,800
	May 21, 1946	16.06	16,700		Apr. 8, 1956	19.30	22,700
					June 2, 1956	24.05	31,700
1947	Feb. 4, 1947	16.05	17,300		June 26, 1956	13.70	13,200
	May 5, 1947	22.24	27,700				
	May 22, 1947	18.91	22,000	1957	Apr. 9, 1957	26.25	37,600
	June 7, 1947	26.14	27,000		May 26, 1957	27.63	41,700
					July 4, 1957	15.70	16,600
1948	Feb. 19, 1948	15.00	15,700		July 9, 1957	18.87	22,000
	Mar. 31, 1948	22.99	29,400				
	Apr. 16, 1948	24.20	31,800	1958	Dec. 23, 1957	27.32	34,900
					May 10, 1958	26.78	d32,300
1949	Dec. 20, 1948	17.34	19,400		June 18, 1958	22.08	d18,900
	Jan. 8, 1949	32.90	63,800		July 26, 1958	23.16	d20,600
	Jan. 27, 1949	30.52	52,900		Aug. 6, 1958	21.16	d17,300
	Feb. 19, 1949	24.85	33,600				
	Mar. 14, 1949	16.47	18,100	1959	Jan. 25, 1959	34.87	65,100
	Mar. 31, 1949	25.70	35,800		Feb. 14, 1959	23.92	d23,900
1950	Jan. 8, 1950	33.08	64,900	1960	Feb. 15, 1960	20.30	d16,600
	Jan. 30, 1950	25.29	34,100		June 27, 1960	29.25	42,300
	Feb. 17, 1950	32.02	59,900				
	Mar. 31, 1950	21.12	26,100	1961	Mar. 9, 1961	27.17	d34,000
	Apr. 8, 1950	24.43	32,400		Mar. 17, 1961	25.22	d28,200
					Apr. 30, 1961	22.95	d23,100
1951	Nov. 25, 1950	19.9	23,700		May 11, 1961	35.97	70,900
	Dec. 8, 1950	21.90	27,400				

a From floodmark, by Corps of Engineers. b Annual peak only. c Daily mean discharge, estimated. d Daily mean discharge.

3720. North Fork Salt Creek near Belmont, Ind.

Location.--Lat 39°09'00", long 86°20'14", NW¼ sec.5, T.8 N., R.2 E., on right bank 15 ft downstream from bridge on State Highway 46, 100 ft upstream from Schooner Creek, 0.7 mile northeast of Belmont, 6½ miles upstream from Brummett Creek, and 20 miles upstream from mouth. Records include flow of Schooner Creek.

Drainage area.--120 sq mi, includes that of Schooner Creek.

Gage.--Nonrecording prior to Oct. 9, 1951; recording thereafter. Altitude of gage is 546 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,800 cfs and contracted-opening measurement at 12,700 cfs. Discharge adjusted for rate of change of stage above 7 ft. Only annual maximums adjusted prior to installation of recording gage.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 2,000 cfs. Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown prior to 1947.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a25.7	-	1952	Dec. 4, 1951	17.22	2,110
					Dec. 7, 1951	b18.0	2,920
1946	May 16, 1946	20.3	7,160		Jan. 27, 1952	18.30	3,230
					Mar. 11, 1952	18.87	3,880
1947	Apr. 11, 1947	16.8	2,190		Mar. 23, 1952	17.66	2,760
	Apr. 25, 1947	17.4	2,510		May 24, 1952	22.55	11,800
	Apr. 30, 1947	16.9	2,240				
	May 17, 1947	16.7	2,150	1953	Mar. 4, 1953	17.76	2,780
	June 2, 1947	21.2	9,140		May 17, 1953	16.82	2,280
1948	Mar. 27, 1948	18.0	3,010	1954	Jan. 27, 1954	9.38	825
	Apr. 12, 1948	17.6	2,630				
				1955	Mar. 21, 1955	15.91	2,220
1949	Jan. 5, 1949	22.20	11,300				
	Jan. 19, 1949	18.1	3,000	1956	Apr. 3, 1956	16.48	2,200
	Jan. 24, 1949	18.6	3,450		May 28, 1956	18.12	3,030
	Jan. 28, 1949	17.5	2,570				
	Feb. 15, 1949	19.3	4,500	1957	Apr. 4, 1957	19.92	6,340
	Mar. 27, 1949	20.0	6,400		May 20, 1957	18.21	3,200
					May 22, 1957	19.84	6,030
1950	Oct. 22, 1949	19.2	4,300				
	Jan. 4, 1950	21.70	10,200	1958	Dec. 20, 1957	18.34	3,230
	Jan. 6, 1950	17.0	2,290		Dec. 26, 1957	17.27	2,470
	Jan. 10, 1950	17.4	2,510		May 6, 1958	17.90	2,920
	Jan. 16, 1950	19.5	4,900		June 11, 1958	16.42	2,410
	Jan. 26, 1950	17.7	2,700		June 14, 1958	19.78	5,920
	Feb. 9, 1950	16.9	2,240				
	Feb. 13, 1950	19.8	5,800	1959	Jan. 21, 1959	21.85	10,600
	Mar. 28, 1950	20.0	6,400		Feb. 10, 1959	18.84	3,650
	Apr. 5, 1950	18.5	3,350		Feb. 14, 1959	16.56	2,170
1951	Nov. 20, 1950	19.1	4,100	1960	June 23, 1960	23.10	13,300
	Dec. 3, 1950	18.7	3,550				
	Jan. 14, 1951	19.1	4,100	1961	Mar. 13, 1961	16.89	2,280
	Feb. 21, 1951	19.53	5,100		May 8, 1961	21.41	9,580

a From information by local residents.
b Estimated.

3725. Salt Creek near Harrodsburg, Ind.

Location.--Lat 39°00'16", long 86°30'31", in NW¼ sec.34, T.7 N., R.1 W., on right bank 1,300 ft downstream from Monroe Reservoir dam site, 0.9 mile upstream from Clear Creek, 2.2 miles southeast of Harrodsburg, and 25.1 miles upstream from mouth.

Drainage area.--441 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1960; recording thereafter. At site 3,500 ft upstream at datum 2.41 ft higher prior to Oct. 1, 1960. Datum of present gage is 480.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 30, 1956	26.00	5,100	1958	May 8, 1958	26.46	6,300
1957	Apr. 6, 1957	28.58	8,640	1959	Jan. 23, 1959	31.88	17,900
	May 24, 1957	29.34	9,680	1960	June 25, 1960	32.76	22,000
1958	Dec. 22, 1957	28.10	7,940				
	Dec. 28, 1957	24.29	4,840	1961	May 9, 1961	35.35	20,200

3730. Salt Creek near Peerless, Ind.

Location.--Lat 38°56'35", long 86°30'40", in NW¼ sec.22, T.6 N., R.1 W., on downstream side near center of Monon Railroad bridge, 3,400 ft downstream from Little Salt Creek, 1.5 miles north of Peerless, and 18.6 miles upstream from mouth.

Drainage area.--582 sq mi.

Gage.--Nonrecording Feb. 1-10, 1939; and recording Feb. 11, 1939, to Sept. 30, 1950; nonrecording thereafter. Datum of gage is 476.02 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Affected by periods of backwater from East Fork White River and return flow from overbank storage. Stage on East Fork White River at Bedford used as a factor in computing discharge through 1950. Since Feb. 15, 1957, hydrographic comparison with upstream station has been used to define periods of variable backwater conditions.

Bankfull stage.--26 ft.

Remarks.--Base for partial-duration series, 5,000 cfs. Peak stage often occurs at different time or day than peak discharge. Only annual peaks are shown for 1937 and 1957.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	a34.30	-	1943	Mar. 19, 1943	31.85	15,900
					May 14, 1943	23.53	5,630
1939	Mar. 14, 1939	29.74	11,700				
	Apr. 18, 1939	30.92	14,700	1944	Apr. 13, 1944	29.20	11,900
					Apr. 26, 1944	22.03	5,060
1940	Apr. 22, 1940	30.06	12,400				
				1945	Mar. 8, 1945	32.32	16,500
1941	June 11, 1941	21.56	4,610		Mar. 22, 1945	24.71	5,510
					Apr. 5, 1945	25.34	6,140
1942	Apr. 12, 1942	27.20	7,890		June 21, 1945	28.89	11,200

a From information by Corps of Engineers.

Peak stages and discharges of Salt Creek near Peerless, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 20, 1946	b23.9	c5,770	1950	Mar. 30, 1950	25.86	6,450
					Apr. 7, 1950	25.85	5,850
1947	May 3, 1947	24.73	5,730		May 5, 1950	22.40	5,200
	May 21, 1947	18.91	5,200				
	June 5, 1947	28.42	10,200	1957	May 25, 1957	29.50	c10,000
1948	Apr. 15, 1948	26.20	c5,970	1958	Dec. 22, 1957	28.50	c9,200
					May 8, 1958	26.70	c6,960
1949	Jan. 7, 1949	33.06	20,400		July 25, 1958	22.12	5,100
	Jan. 21, 1949	24.36	5,320				
	Jan. 27, 1949	29.83	9,200	1959	Jan. 23, 1959	31.62	14,100
	Feb. 18, 1949	25.95	6,340		Feb. 17, 1959	22.87	5,230
	Mar. 29, 1949	27.88	8,280				
				1960	June 26, 1960	31.33	16,500
1950	Jan. 6, 1950	32.45	18,900				
	Jan. 27, 1950	25.39	5,700	1961	May 10, 1961	35.33	25,100
	Feb. 15, 1950	29.84	10,600				

b Estimated.
c Daily mean discharge.

3735. East Fork White River at Shoals, Ind.
(Published as "East Branch of White River" 1903-6, 1908-16)

Location.--Lat 38°40'02", long 86°47'32", in sec.30, T.3 N., R.3 W., in first pier from left bank on highway bridge at Shoals, 400 ft upstream from Baltimore & Ohio Railroad bridge, 1 mile upstream from Beaver Creek, and at mile 107.6.

Drainage area.--4,954 sq mi.

Gage.--Nonrecording prior to July 27, 1927; recording July 27, 1927, to Dec. 9, 1929; nonrecording Dec. 10, 1929, to Oct. 26, 1932; recording thereafter. Datum of gage is 442.25 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 86,000 cfs and extended to 160,000 cfs by logarithmic plotting. Discharge adjusted for rate of change of stage above 11.0 ft for period of 1943-53; only annual maximums adjusted for 1951-53.

Bankfull stage.--25 ft (U.S. Weather Bureau).

Historical data.--The Indianapolis Journal of Aug. 3, 1875, stated "In January 1847, in June 1856, and in September 1866, the East Fork was exceedingly high, but the greatest damage attends the present overflow on account of the crops." The Indianapolis Journal of Aug. 9, 1875, stated that the August 1875 flood at Shoals was the highest known up to that time. H. P. Bybee and C. A. Malott stated in a report entitled "The Flood of 1913 in the Lower White River Region of Indiana," dated October 1914, "The flood of 1875, on the East Fork was not in any way to be compared with the recent freshet (1913), which was from 7 to 10 ft higher than any previous high waters."

Remarks.--Gage heights for 1897, 1907-8, 1917-22, furnished by U.S. Weather Bureau. Records for 1923-26 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 20 percent. Base for partial-duration series, 20,000 cfs. Peak stage often occurs at different time or on day following peak discharge. Only annual peaks are shown for 1897, 1907-8.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	March 1897	a35.3	(87,800)	1906	Jan. 4, 1906	15.4	23,600
					Apr. 4, 1906	27.0	41,000
1904	Jan. 25, 1904	15.2	23,300				
	Feb. 11, 1904	16.0	24,500	1907	March 1907	a35.0	(86,600)
	Mar. 30, 1904	34.2	79,600	1908	May 11, 1908	27.2	(44,100)
1905	May 17, 1905	15.2	23,300	1909	Mar. 1, 1909	14.7	22,600

a Approximate.

Peak stages and discharges of East Fork White River at Shoals, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Mar. 14, 1909	17.2	26,300
1910	Jan. 22, 1910	18.0	27,500
	Mar. 6, 1910	22.3	34,000
1911	Oct. 13, 1910	23.8	36,500
	Feb. 2, 1911	13.0	20,000
	Apr. 9, 1911	17.2	26,300
	Apr. 19, 1911	19.1	29,200
1912	Jan. 25, 1912	14.0	21,500
	Mar. 3, 1912	23.7	36,300
	Apr. 4, 1912	21.0	32,000
	May 1, 1912	17.3	26,400
	May 13, 1912	15.2	23,300
1913	Jan. 24, 1913	26.4	42,000
	Mar. 28, 1913	42.2	160,000
1914	Apr. 2, 1914	16.5	25,200
1915	Feb. 7, 1915	18.0	27,500
	July 12, 1915	14.0	21,500
1916	Dec. 22, 1915	14.7	22,600
	Jan. 6, 1916	18.9	28,800
	Jan. 18, 1916	24.5	37,800
	Jan. 26, 1916	13.4	20,600
	Feb. 4, 1916	32.0	59,600
	Apr. 25, 1916	13.4	20,600
1917	Jan. 11, 1917	18.0	(27,500)
	Mar. 19, 1917	19.6	(29,900)
	Apr. 10, 1917	14.0	(21,200)
	June 10, 1917	23.0	(35,100)
1918	Feb. 17, 1918	16.5	(25,200)
	May 17, 1918	23.2	(35,400)
1919	Dec. 15, 1918	15.7	(23,900)
	Mar. 22, 1919	26.2	(41,500)
1920	Nov. 3, 1919	18.2	(27,800)
	Mar. 20, 1920	21.7	(33,000)
	Apr. 25, 1920	28.6	(48,600)
	May 16, 1920	14.2	(21,500)
1921	Feb. 12, 1921	13.4	(20,200)
	Apr. 2, 1921	22.2	(33,800)
	Apr. 12, 1921	13.5	(20,400)
1922	Dec. 3, 1921	15.9	(24,200)
	Dec. 29, 1921	27.9	(46,200)
	Mar. 20, 1922	26.4	(42,000)
	Apr. 5, 1922	22.4	(34,100)
	Apr. 19, 1922	27.9	(46,200)
1923	Feb. 4, 1923	12.2	18,300
1924	Dec. 18, 1923	17.3	26,400
	Dec. 27, 1923	18.0	27,500
	Jan. 17, 1924	14.5	22,200
	Apr. 3, 1924	13.3	20,400
1925	Mar. 21, 1925	8.1	11,900
1926	Nov. 16, 1925	14.5	22,200
	Feb. 19, 1926	18.3	28,000
	Mar. 27, 1926	14.5	22,200
	Apr. 13, 1926	19.2	29,300
1927	Jan. 27, 1927	26.7	42,800
	Mar. 26, 1927	26.4	42,000
	Apr. 6, 1927	13.8	20,900
	May 14, 1927	16.2	24,700
	May 29, 1927	16.8	25,700
1928	Dec. 6, 1927	20.30	30,900
	Dec. 19, 1927	21.15	32,300
	Feb. 11, 1928	18.82	28,500
	Apr. 27, 1928	18.43	27,800
1929	Jan. 26, 1929	26.45	41,800
	Mar. 4, 1929	26.10	41,000
	Apr. 15, 1929	16.68	25,100
	May 9, 1929	14.18	21,100
	May 20, 1929	21.54	32,800
1930	Dec. 24, 1929	15.2	22,700
	Jan. 15, 1930	32.6	68,100
	Feb. 17, 1930	15.2	22,700
	Mar. 2, 1930	13.8	20,500
1931	Apr. 6, 1931	9.72	13,700
1932	Dec. 14, 1931	14.2	21,100
	Jan. 23, 1932	25.33	39,200
1933	Jan. 6, 1933	25.96	40,800
	Jan. 28, 1933	25.08	39,000
	Mar. 25, 1933	27.05	43,500
	Apr. 23, 1933	23.66	36,300
	May 19, 1933	29.47	52,000
1934	Mar. 31, 1934	10.56	15,600
1935	Mar. 26, 1935	17.07	25,200
1936	Mar. 28, 1936	14.56	21,700
	Apr. 11, 1936	13.66	20,200
1937	Nov. 10, 1936	14.68	22,300
	Jan. 25, 1937	37.02	99,800
	May 4, 1937	15.47	23,600
1938	Dec. 23, 1937	15.52	24,300
	Mar. 21, 1938	21.72	33,700
	Apr. 5, 1938	17.95	28,200
	Apr. 13, 1938	16.03	25,100
1939	Mar. 6, 1939	19.20	27,200
	Mar. 17, 1939	24.91	38,700
	Apr. 21, 1939	29.47	56,400
1940	Apr. 25, 1940	28.97	52,400
1941	June 12, 1941	8.81	11,700
1942	Mar. 15, 1942	14.25	20,400
	Apr. 15, 1942	19.97	28,400
1943	Mar. 23, 1943	31.17	63,500
	May 16, 1943	15.80	22,800
1944	Apr. 16, 1944	27.71	47,400
1945	Mar. 10, 1945	32.88	74,100
	Mar. 25, 1945	22.03	31,400
	Apr. 8, 1945	20.25	27,900
	Apr. 20, 1945	14.66	20,900
	June 23, 1945	22.31	32,000
1946	Feb. 18, 1946	16.48	23,500
1947	Apr. 12, 1947	14.02	20,200
	May 6, 1947	20.74	30,900
	May 22, 1947	17.29	25,600
	June 8, 1947	24.20	40,800
1948	Apr. 1, 1948	21.16	32,600
	Apr. 17, 1948	22.94	36,900
1949	Dec. 20, 1948	14.74	21,500
	Jan. 10, 1949	31.05	63,200
	Jan. 28, 1949	30.38	60,200
	Feb. 20, 1949	23.07	33,900
	Mar. 14, 1949	14.14	20,600
	Apr. 1, 1949	24.53	37,300
1950	Jan. 10, 1950	32.10	69,100
	Jan. 31, 1950	24.12	36,300
	Feb. 18, 1950	30.90	62,700
	Apr. 10, 1950	22.99	33,500

Peak stages and discharges of East Fork White River at Shoals, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 26, 1950	17.61	27,100	1956	Feb. 26, 1956	15.03	21,400
	Dec. 11, 1950	20.69	33,000		Apr. 8, 1956	16.33	23,600
	Jan. 8, 1951	13.87	20,600		June 4, 1956	21.36	34,200
	Jan. 20, 1951	22.64	37,200				
	Feb. 26, 1951	24.60	42,700	1957	Apr. 11, 1957	25.27	41,400
	Mar. 22, 1951	15.23	22,800		May 28, 1957	26.79	45,800
	Apr. 16, 1951	13.54	20,000		July 10, 1957	14.79	20,000
1952	Dec. 14, 1951	17.90	27,700	1958	Dec. 27, 1957	25.14	40,900
	Feb. 2, 1952	24.02	41,500		May 12, 1958	22.68	34,900
	Mar. 16, 1952	17.82	27,500		June 18, 1958	15.81	21,400
	Mar. 27, 1952	18.98	29,700		July 24, 1958	18.57	26,100
1953	May 21, 1953	13.30	19,900	1959	Jan. 27, 1959	32.07	68,200
					Feb. 16, 1959	20.07	29,000
1954	Apr. 12, 1954	5.51	5,580				
				1960	June 29, 1960	25.14	40,900
1955	Mar. 6, 1955	19.52	30,600				
	Mar. 22, 1955	15.97	24,300	1961	Mar. 11, 1961	22.90	35,400
					May 2, 1961	15.50	22,500
1956	Nov. 23, 1955	16.72	25,500		May 13, 1961	33.53	76,800
	Feb. 7, 1956	14.18	20,100				

3740. White River at Petersburg, Ind.
(Published as "at Hazleton" prior to October 1938)

Location.--Lat 38°30'39", long 87°17'22", in SW¼ sec.15, T.1 N., R.8 W., on left bank 300 ft downstream from bridge on State Highway 61, three-eighths of a mile upstream from Prides Creek, 1 mile north of Petersburg, and at mile 47.7.

Drainage area.--11,139 sq mi; 11,319 sq mi prior to October 1938.

Gage.--Nonrecording prior to Aug. 31, 1934; recording Aug. 31, 1934, to Sept. 30, 1938; nonrecording Oct. 1, 1938, to May 15, 1941; recording thereafter. At bridge 29 miles downstream at datum 16.77 ft lower prior to Oct. 1, 1938. Datum of present gage is 400.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 150,000 cfs at former site; defined by current-meter measurements at present site.

Bankfull stage.--16 ft (U.S. Weather Bureau).

Historical data.--Flood of Mar. 29, 1913, is maximum stage known, and reached a stage of 29.6 ft from floodmarks, at Hazleton.

Remarks.--Gage heights for 1925-27 furnished by Indiana Department of Conservation. Figures in parentheses are approximate values considered accurate within 15 percent. Base for partial-duration series, 30,000 cfs. Only annual peaks are shown for 1907, 1913, and 1927.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	January 1907	28.9	(190,000)	1928	Feb. 13, 1928	21.7	50,500
					Apr. 28, 1928	19.8	42,400
1913	Mar. 29, 1913	a29.5	b235,000		June 14, 1928	16.6	31,600
1925	Mar. 21, 1925	15.2	(27,400)	1929	Jan. 29, 1929	25.08	73,100
					Mar. 5, 1929	22.72	56,000
1926	Nov. 22, 1925	19.0	(39,600)		Apr. 17, 1929	21.28	48,500
	Feb. 19, 1926	18.1	(36,400)		May 9, 1929	19.36	41,000
	Mar. 28, 1926	16.7	(31,900)		May 25, 1929	23.53	60,900
	Apr. 16, 1926	22.4	(54,200)		June 1, 1929	16.21	30,400
	Sept.19, 1926	21.6	(50,000)		July 10, 1929	17.65	34,700
1927	Mar. 26, 1927	26.5	(102,000)	1930	Dec. 25, 1929	20.00	43,200
					Jan. 17, 1930	30.3	159,000
1928	Dec. 21, 1927	22.0	52,000		Feb. 16, 1930	18.15	36,800

a From floodmarks, present site and datum, by Corps of Engineers.
b Estimated.

Peak stages and discharges of White River at Petersburg, Ind.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 4, 1930	20.40	44,800
1931	Apr. 8, 1931	11.98	18,600
1932	Dec. 20, 1931	19.1	39,100
	Jan. 25, 1932	25.69	84,000
1933	Jan. 8, 1933	24.40	67,500
	Jan. 28, 1933	23.50	65,300
	Mar. 27, 1933	25.40	86,900
	Apr. 25, 1933	22.97	60,500
	May 21, 1933	27.36	114,000
1934	Apr. 1, 1934	14.56	25,200
1935	Mar. 17, 1935	17.48	32,900
	Mar. 29, 1935	18.40	35,600
	May 11,12,1935	21.68	48,500
1936	Mar. 5, 1936	19.22	38,300
	Mar. 31, 1936	17.61	33,200
	Apr. 11, 1936	17.17	32,100
1937	Nov. 11, 1936	17.57	33,200
	Jan. 22, 1937	31.58	183,000
	May 8, 1937	21.21	47,300
1938	Dec. 27, 1937	20.98	46,300
	Feb. 27, 1938	19.09	38,500
	Mar. 23, 1938	23.69	65,500
	Apr. 8, 1938	24.33	71,700
	Apr. 15, 1938	23.65	64,500
	July 11, 1938	17.98	34,600
1939	Feb. 6, 1939	21.00	50,000
	Mar. 18, 1939	23.32	74,300
	Apr. 23, 1939	24.87	104,000
1940	Apr. 26, 1940	23.27	77,400
1941	June 13, 1941	12.42	21,300
1942	Feb. 14, 1942	18.60	37,600
	Feb. 22, 1942	17.03	32,700
	Mar. 16, 1942	18.74	38,000
	Apr. 16, 1942	22.11	59,000
	June 23, 1942	16.4	31,000
1943	Mar. 25, 1943	24.13	97,800
	May 23, 1943	24.15	98,900
1944	Apr. 17, 1944	23.82	91,200
	Apr. 29, 1944	21.30	53,300
1945	Mar. 9, 1945	24.79	105,000
	Mar. 26, 1945	20.44	44,200
	Apr. 8, 1945	22.37	63,400
	Apr. 20, 1945	18.16	32,800
	June 24, 1945	23.43	78,700
1946	Jan. 2, 1946	17.33	33,800
	Feb. 20, 1946	19.88	45,500
	Mar. 23, 1946	18.41	38,300
	May 23, 1946	19.86	45,500
1947	Feb. 6, 1947	18.07	36,000
1947	Apr. 15, 1947	18.78	38,800
	May 3, 1947	21.69	56,900
	May 24, 1947	19.20	40,600
	June 12, 1947	21.96	60,200
1948	Apr. 2, 1948	23.10	77,000
	Apr. 15, 1948	22.93	67,400
1949	Dec. 21, 1948	17.07	31,400
	Jan. 12, 1949	24.70	94,500
	Jan. 26, 1949	25.34	110,000
	Feb. 22, 1949	22.50	62,500
	Mar. 14, 1949	17.29	30,900
	Apr. 2, 1949	22.48	62,500
1950	Jan. 11, 1950	26.27	140,000
	Feb. 20, 1950	24.82	114,000
	Apr. 4, 1950	22.65	67,900
1951	Nov. 27, 1950	20.86	51,300
	Dec. 12, 1950	21.84	59,000
	Jan. 21, 1951	21.86	60,000
	Feb. 28, 1951	22.69	69,300
	Mar. 24, 1951	18.48	36,500
	Apr. 18, 1951	18.70	37,300
1952	Dec. 12, 1951	19.87	43,500
	Jan. 6, 1952	18.24	35,600
	Feb. 4, 1952	23.20	76,500
	Mar. 18, 1952	21.54	56,200
	Mar. 25, 1952	21.35	55,300
	Apr. 10, 1952	18.38	36,200
1953	Mar. 10, 1953	19.38	40,500
1954	Apr. 11, 1954	8.02	12,300
1955	Mar. 7, 1955	20.20	45,600
	Mar. 24, 1955	19.07	39,000
1956	Nov. 24, 1955	19.98	44,200
	Mar. 3, 1956	20.69	49,600
	Apr. 10, 1956	18.96	38,500
	June 5, 1956	21.90	60,000
1957	Apr. 11, 1957	23.53	73,500
	May 28, 1957	23.54	84,000
	July 6, 1957	22.16	63,200
1958	Dec. 26, 1957	24.17	92,300
	May 12, 1958	20.70	47,600
	June 19, 1958	22.47	63,700
	July 18, 1958	19.63	40,100
	July 25, 1958	19.50	39,500
1959	Jan. 28, 1959	24.75	100,000
	Feb. 16, 1959	22.69	64,900
1960	Feb. 15, 1960	19.44	38,700
	June 30, 1960	22.14	57,900
1961	Mar. 20, 1961	22.14	57,900
	May 2, 1961	21.77	54,600
	May 13, 1961	26.14	132,000

3755. Patoka River at Jasper, Ind.

Location.--Lat 38°24'49", long 86°52'36", in SE¼ sec.20, T.1 S., R.4 W., on left bank, 0.3 mile upstream from unnamed outlet of Jasper Lake, 1.0 mile downstream from Coon Seitz Bridge, 1.2 miles downstream from Beaver Creek, and 3.3 miles northeast of Jasper.

Drainage area.--257 sq mi; 270 sq mi at former site.

Gage.--Nonrecording prior to Sept. 18, 1956; recording thereafter. Prior to Sept. 18, 1956, at site 5.6 miles downstream at datum 0.34 ft lower. Datum of gage is 446.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs at former site and below 1,500 cfs for present site.

Bankfull stage.--14 ft; 9 ft at former site.

Historical data.--Flood of March 1913 is maximum stage known. Maximum stage at present site for period 1925-57, 20 ft in 1925 (information from local resident).

Remarks.--Flow slightly regulated by Beaver Creek Reservoir. Base for partial-duration series, 2,000 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	March 1913	a15.9	16,000	1952	Mar. 14, 1952	10.78	3,880
1937	January 1937	a14.8	12,100		Mar. 26, 1952	8.85	2,190
1948	Mar. 31, 1948	9.13	2,400	1953	Mar. 8, 1953	7.90	1,640
	Apr. 15, 1948	11.57	4,920	1954	Mar. 2, 1954	-	c950
1949	Jan. 7, 1949	10.29	3,380	1955	Mar. 3, 1955	9.80	2,940
	Jan. 28, 1949	11.13	4,220		Mar. 25, 1955	9.01	2,300
	Feb. 18, 1949	10.41	3,480				
	Mar. 14, 1949	8.61	2,050	1956	Feb. 6, 1956	9.72	2,860
	Mar. 30, 1949	9.92	3,020		Feb. 21, 1956	9.49	2,700
					Feb. 29, 1956	9.98	3,100
1950	Jan. 7, 1950	12.37	6,300				
	Jan. 31, 1950	8.97	2,330	1957	Feb. 14, 1957	14.72	2,620
	Feb. 16, 1950	10.26	3,380		Apr. 8, 1957	15.09	3,580
	Feb. 26, 1950	8.98	2,330		May 25, 1957	17.87	6,900
	Mar. 30, 1950	10.33	3,380				
	Apr. 6, 1950	11.73	5,080	1958	Nov. 21, 1957	14.48	2,260
					Dec. 21, 1957	15.57	c4,250
1951	Nov. 24, 1950	9.98	3,100		May 11, 1958	14.57	c3,050
	Jan. 17, 1951	b11.88	3,980		July 25, 1958	14.64	2,460
	Feb. 17, 1951	8.60	2,050				
	Feb. 25, 1951	9.85	2,940	1959	Jan. 23, 1959	19.04	9,150
	Mar. 21, 1951	11.46	4,760				
	Apr. 26, 1951	8.83	2,190	1960	June 18, 1960	14.28	1,710
1952	Dec. 11, 1951	9.88	3,020	1961	Mar. 10, 1961	14.35	c2,100
	Dec. 26, 1951	8.7	2,120		Apr. 26, 1961	14.76	3,140
	Feb. 6, 1952	9.77	2,940		May 10, 1961	20.62	13,700

a From floodmark indicated by local residents.
b Backwater from construction.
c Daily mean discharge, estimated.

3765. Patoka River near Princeton, Ind.
(Published as "at Patoka" prior to Dec. 1, 1939)

Location.--Lat 38°23'30", long 87°32'55", in NE¼NW¼ sec.32, T.1 S., R.10 W., on left bank 75 ft upstream from dam of Princeton Water & Lighting Co., 270 ft upstream from bridge on State Highway 65, half a mile downstream from Indian Creek, and 2 miles northeast of Princeton.

Drainage area.--815 sq mi; 830 sq mi prior to Dec. 1, 1939.

Gage.--Nonrecording prior to Jan. 22, 1941; recording thereafter. At site 3 miles downstream at datum 387.15 ft above mean sea level, datum of 1929 (levels by Indiana Flood Control and Water Resources Commission) Aug. 29, 1934, to Nov. 30, 1939. Datum of present gage is 394.09 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944 (levels by Indiana Flood Control and Water Resources Commission).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs at former site; defined by current-meter measurements at present site.

Bankfull stage.--13 ft.

Historical data.--Flood of Jan. 26, 1937, reached a stage of 22.8 ft at present site according to information by Princeton Water & Lighting Co.

Remarks.--Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 23, 1935	15.2	2,710
	Mar. 20, 1935	22.43	8,820
	May 24, 1935	18.8	4,120
	June 24, 1935	17.4	3,500
1936	Apr. 9, 1936	16.43	3,300
1937	Jan. 26, 1937	26.80	18,700
	May 13, 1937	19.3	4,650
1938	Oct. 22, 1937	14.4	2,520
	Dec. 29, 1937	14.5	2,550
	Jan. 31, 1938	15.4	2,840
	Feb. 23, 1938	14.5	2,550
	Apr. 9, 1938	16.4	3,080
	May 31, 1938	17.0	3,270
	July 4, 1938	18.01	3,720
	July 22, 1938	15.9	2,920
	Aug. 16, 1938	16.8	3,210
1939	Feb. 15, 1939	19.6	4,960
	Mar. 12, 1939	20.4	5,840
	Apr. 20, 1939	21.06	6,740
1940	Mar. 6, 1940	10.2	2,400
	Apr. 27, 1940	17.60	8,600
1941	Apr. 25, 1941	7.74	1,860
1942	Mar. 27, 1942	13.51	3,360
	Apr. 21, 1942	13.15	3,230
	July 5, 1942	11.07	2,520
1943	Mar. 25, 1943	18.11	8,280
	May 23, 1943	14.02	3,540
1944	Apr. 25, 1944	15.46	4,450
1945	Mar. 8, 1945	21.11	15,400
	June 20, 1945	13.40	3,450
1946	Oct. 7, 1945	15.83	4,690
	Jan. 5, 1946	10.44	2,400
	Feb. 27, 1946	13.87	3,650
	May 16, 1946	12.54	3,110
1947	Jan. 20, 1947	10.78	2,520
1947	Apr. 25, 1947	13.81	3,610
1948	Apr. 23, 1948	15.10	4,230
1949	Jan. 30, 1949	18.77	9,700
	Mar. 31, 1949	15.59	4,530
1950	Jan. 15, 1950	19.98	12,600
	Feb. 22, 1950	17.64	7,250
	Apr. 6, 1950	17.88	7,670
	Sept. 6, 1950	11.45	2,720
1951	Dec. 3, 1950	13.15	3,100
	Jan. 22, 1951	16.58	5,600
	Feb. 26, 1951	15.53	4,710
	Mar. 26, 1951	16.00	5,060
1952	Dec. 17, 1951	15.7	4,840
	Feb. 15, 1952	13.78	3,600
	Mar. 24, 1952	17.43	6,680
1953	Mar. 18, 1953	10.69	2,360
1954	Apr. 21, 1954	4.57	1,030
1955	Mar. 24, 1955	14.79	4,210
	Apr. 23, 1955	12.33	2,920
1956	Feb. 29, 1956	16.56	5,600
1957	Apr. 18, 1957	14.98	4,350
	June 2, 1957	17.04	6,060
1958	Nov. 29, 1957	13.16	3,040
	Dec. 27, 1957	17.40	6,680
	Apr. 5, 1958	10.93	2,420
	May 9, 1958	12.97	3,200
	July 28, 1958	16.37	5,500
1959	Jan. 29, 1959	18.71	9,490
1960	Mar. 30, 1960	10.39	2,270
1961	Mar. 23, 1961	14.43	3,820
	May 16, 1961	20.58	12,900

3775. Wabash River at Mount Carmel, Ill.

Location.--Lat 38°24'07", long 87°45'10", in sec.28, T.1 S., R.12 W., on right bank on downstream side of Southern Railway bridge at Mount Carmel, Wabash County, and 0.1 mile downstream from Patoka River.

Drainage area.--28,600 sq mi, approximately.

Gage.--Nonrecording prior to Dec. 21, 1928; recording Dec. 21, 1928, to Sept. 30, 1933; nonrecording Oct. 1, 1933, to Feb. 8, 1935; recording thereafter. At New York Central Railroad bridge 3.0 miles downstream at datum 0.17 ft higher Oct. 1, 1933, to Sept. 30, 1949. Datum of gage is 371.46 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 310,000 cfs.

Bankfull stage.--17 ft (U.S. Weather Bureau) at present site; and 18 ft at New York Central Railroad bridge.

Historical data.--Flood of Mar. 30, 1913, is maximum known.

Remarks.--Gage heights for period Nov. 1, 1874, to Dec. 31, 1878, furnished by Corps of Engineers. Gage heights for period June 16, 1884, to Sept. 30, 1927, furnished by the U.S. Weather Bureau. Discharge figures for these periods were based on later defined ratings, assuming them to be applicable. Current-meter measurements by Geological Survey in 1909-10, and by Corps of Engineers in 1912-13, support this assumption. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1875	Aug. 9, 1875	28.3	320,000	1922	Apr. 23, 1922	26.0	232,000
				1923	Mar. 24, 1923	22.4	128,000
1876	Feb. 4, 1876	25.4	210,000	1924	Apr. 7, 1924	21.7	116,000
1877	Mar. 19, 1877	17.0	72,000	1925	Mar. 23, 1925	20.6	101,000
1878	Feb. 16, 1878	18.3	80,000				
				1926	Apr. 16, 1926	23.0	139,000
1885	Jan. 8, 1885	24.7	185,000	1927	June 2, 1927	24.9	192,000
				1928	Dec. 9, 1927	22.1	128,000
1886	May 22, 1886	19.8	92,000		Dec. 17, 1927	22.1	128,000
1887	Mar. 14, 1887	22.0	120,000	1929	May 24, 1929	23.68	155,000
1888	Apr. 4, 1888	20.8	104,000	1930	Jan. 17, 1930	27.06	279,000
1889	June 18, 1889	21.4	110,000				
1890	Jan. 14, 1890	25.2	200,000	1931	Apr. 8, 1931	8.50	30,500
				1932	Jan. 26, 1932	23.79	157,000
1891	Mar. 2, 1891	22.0	120,000	1933	May 21, 1933	26.08	232,000
1892	Apr. 13, 1892	21.5	112,000	1934	Apr. 2, 1934	10.21	43,400
1893	May 8, 1893	24.6	182,000	1935	May 14, 1935	19.93	122,000
1894	Feb. 15, 1894	14.4	57,000				
1895	Jan. 25, 1895	7.5	25,000	1936	Mar. 6, 1936	20.00	123,000
				1937	Jan. 22, 1937	25.10	285,000
1896	July 30, 1896	14.3	57,000	1938	Apr. 16, 1938	21.90	162,000
1897	Mar. 13, 1897	26.5	252,000	1939	Apr. 24, 1939	23.20	197,000
1898	Mar. 31, 1898	27.0	272,000	1940	Apr. 27, 1940	19.39	100,000
1899	Jan. 23, 1899	19.6	90,000				
1900	Mar. 15, 1900	19.0	86,000	1941	June 14, 1941	9.37	39,100
				1942	Apr. 18, 1942	a19.83	108,000
1901	Mar. 19, 1901	17.6	75,000	1943	May 25, 1943	25.17	305,000
1902	July 7, 1902	14.4	57,000	1944	Apr. 20, 1944	22.18	167,000
1903	Mar. 12, 1903	22.4	124,000	1945	Mar. 11, 1945	22.00	162,000
1904	Apr. 2, 1904	27.2	280,000				
1905	May 19, 1905	16.3	67,000	1946	Feb. 23, 1946	b19.9	92,100
				1947	June 14, 1947	19.84	110,000
1906	Apr. 8, 1906	23.7	154,000	1948	Apr. 3, 1948	21.99	162,000
1907	Jan. 28, 1907	24.6	182,000	1949	Jan. 28, 1949	23.81	236,000
1908	May 13, 1908	25.0	195,000	1950	Jan. 13, 1950	27.06	288,000
1909	Mar. 4, 1909	19.8	92,000				
1910	Mar. 9, 1910	22.0	120,000	1951	Mar. 2, 1951	24.09	164,000
				1952	Feb. 6, 1952	22.59	127,000
1911	Apr. 22, 1911	19.7	92,000	1953	Mar. 12, 1953	17.34	74,200
1912	Apr. 7, 1912	23.3	146,000	1954	Apr. 16, 1954	7.20	27,600
1913	Mar. 30, 1913	31.0	428,000	1955	Mar. 9, 1955	17.31	74,100
1914	Apr. 16, 1914	19.3	88,000				
1915	Feb. 11, 1915	18.8	84,000	1956	Mar. 4, 1956	19.74	91,500
				1957	Apr. 15, 1957	23.16	138,000
1916	Feb. 7, 1916	26.7	261,000	1958	June 22, 1958	24.64	186,000
1917	June 12, 1917	22.6	131,000	1959	Feb. 18, 1959	24.14	174,000
1918	Feb. 21, 1918	21.0	106,000	1960	July 1, 1960	21.19	107,000
1919	Mar. 25, 1919	24.0	164,000				
1920	Apr. 28, 1920	23.7	156,000	1961	May 14, 1961	26.38	250,000
1921	Apr. 5, 1921	22.1	122,000				

a Occurred Apr. 17, 1942. b At present site and datum.

3780. Bonpas Creek at Browns, Ill.

Location.--Lat 38°22'50", long 87°58'35", in SW¼SE¼ sec.33, T.1 S., R.14 W., at Browns, on left bank 30 ft upstream from concrete dam of Albion municipal waterplant, 100 ft upstream from Nigger Creek, 300 ft upstream from State Highway 15, and a quarter of a mile upstream from Southern Railway bridge.

Drainage area.--235 sq mi.

Gage.--Recording. Auxiliary nonrecording gage near mouth on Wabash River at Grayville. Datum of gage is 374.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 4, 1941	4.80	510	1952	Mar. 12, 1952	17.97	3,270
1942	June 23, 1942	a15.24	b2,640	1953	Mar. 5, 1953	16.47	2,620
1943	May 20, 1943	16.55	3,490	1954	Apr. 7, 1954	5.74	584
1944	Apr. 12, 1944	15.98	3,160	1955	Apr. 25, 1955	15.67	2,320
1945	Mar. 7, 1945	20.40	5,490				
				1956	May 9, 1956	15.76	2,360
1946	May 4, 1946	16.04	2,810	1957	Apr. 5, 1957	18.48	3,350
1947	June 2, 1947	c14.66	b2,080	1958	Dec. 20, 1957	18.40	3,300
1948	Jan. 3, 1948	16.25	2,520	1959	Jan. 23, 1959	15.52	2,140
1949	Jan. 25, 1949	19.91	4,260	1960	Jan. 16, 1960	13.36	1,580
1950	Jan. 5, 1950	20.35	4,580				
				1961	May 9, 1961	24.04	7,500
1951	Feb. 22, 1951	17.47	3,040				

a Occurred at different time than peak discharge.
b Computed using rate of change of stage as a factor.
c Occurred on Apr. 27, 1947.

3786.5. Second Creek tributary at Keptown, Ill.

Location.--Lat 39°04'50", long 88°39'55", in SW¼ sec.5, T.7 N., R.5 E., at culvert on U.S. Highway 40, 0.3 mile east of Keptown.

Drainage area.--1.62 sq mi. Mean altitude of basin, 600 ft.

Gage.--Crest-stage gage. Altitude of gage is 550 ft (from topographic map)

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 30, 1956	14.09	168	1960	Mar. 30, 1960	13.95	-
1957	July 15, 1957	17.36	479				
1958	Dec. 20, 1957	16.15	325	1961	July 29, 1961	17.02	-
1959	Feb. 10, 1959	15.30	227				

3795. Little Wabash River below Clay City, Ill.
(Published as "at Wilcox" prior to 1959)

Location.--Lat 38°38'05", long 88°17'50", in SE¼ sec.3, T.2 N., R.8 E., on right bank 300 ft downstream from highway bridge, 0.3 mile downstream from Big Muddy Creek, and 5 miles southeast of Clay City.

Drainage area.--1,130 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 3, 1947; recording thereafter. At highway bridge 300 ft upstream at same datum prior to Jan. 3, 1947. Datum of gage is 392.29 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 43,000 cfs.

Remarks.--Base for partial-duration series, 4,500 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Aug. 22, 1915	26.30	43,900	1950	Feb. 15, 1950	23.4	23,600
					Feb. 23, 1950	20.9	9,160
1916	Jan. 31, 1916	25.10	35,500		Mar. 29, 1950	20.2	6,520
1917	June 7, 1917	22.26	16,200		Apr. 8, 1950	19.8	5,550
1918	Apr. 23, 1918	22.81	19,400				
1919	Dec. 15, 1918	21.72	13,100	1951	Jan. 5, 1951	19.77	5,550
1920	Oct. 31, 1919	21.51	12,100		Jan. 16, 1951	19.58	5,160
					Feb. 8, 1951	-	b5,500
1921	Mar. 30, 1921	20.60	7,920		Feb. 22, 1951	22.03	14,600
1922	Mar. 16, 1922	23.80	26,400		Mar. 13, 1951	19.96	6,000
1923	Mar. 17, 1923	22.48	17,400		Apr. 14, 1951	19.55	5,160
1924	Apr. 2, 1924	20.00	6,000				
1925	Dec. 25, 1924	19.98	6,000	1952	Jan. 2, 1952	19.41	4,810
					Feb. 5, 1952	19.39	4,810
1926	Apr. 8, 1926	22.25	15,600		Mar. 13, 1952	20.65	8,120
1927	Mar. 21, 1927	24.00	27,800		Mar. 20, 1952	20.07	6,120
1928	Feb. 8, 1928	21.78	13,600		Apr. 6, 1952	20.66	8,120
1929	May 20, 1929	23.04	20,800		Apr. 18, 1952	19.21	4,500
1930	Jan. 15, 1930	23.44	23,600				
				1953	Mar. 6, 1953	19.36	4,810
1931	Sept. 4, 1931	19.69	5,350				
1932	Jan. 23, 1932	21.55	12,600	1954	Sept.21, 1954	13.05	1,440
1933	May 16, 1933	22.40	16,800				
1934	July 16, 1934	16.74	2,920	1955	Mar. 1, 1955	19.20	4,500
1935	May 5, 1935	21.94	14,100		Apr. 25, 1955	19.33	4,650
1936	Feb. 28, 1936	19.13	4,630	1956	Feb. 19, 1956	19.44	4,810
1937	Jan. 15, 1937	21.80	13,400		Feb. 27, 1956	20.21	6,520
1938	Apr. 2, 1938	23.57	25,100				
1939	Apr. 19, 1939	22.22	15,800	1957	Dec. 10, 1956	19.23	4,500
1940	Apr. 21, 1940	19.90	5,260		Jan. 25, 1957	19.25	4,500
					Apr. 6, 1957	22.99	20,800
1941	June 12, 1941	18.20	3,220		Apr. 24, 1957	19.98	6,000
1942	Apr. 11, 1942	20.6	7,600		May 24, 1957	20.97	9,380
1943	May 20, 1943	25.80	40,500		June 17, 1957	23.94	27,100
1944	Apr. 24, 1944	21.50	12,900		July 1, 1957	22.40	16,800
1945	Apr. 2, 1945	23.35	23,800		July 18, 1957	19.74	5,350
1946	May 4, 1946	23.00	20,800	1958	Nov. 20, 1957	19.48	4,980
1947	Feb. 1, 1947	a20.45	7,150		Dec. 21, 1957	23.87	27,100
					Jan. 23, 1958	20.41	7,180
1948	Jan. 2, 1948	21.3	11,200		Mar. 26, 1958	20.10	6,250
	Mar. 29, 1948	21.55	12,700		July 22, 1958	20.83	8,940
	Apr. 14, 1948	19.6	5,400		Aug. 3, 1958	20.21	6,520
1949	Nov. 6, 1948	19.2	4,810	1959	Jan. 23, 1959	-	b6,100
	Dec. 31, 1948	20.0	6,280		Feb. 13, 1959	21.90	14,100
	Jan. 6, 1949	20.9	9,370				
	Jan. 20, 1949	22.07	15,100	1960	Dec. 14, 1959	19.57	4,500
	Jan. 29, 1949	21.6	12,600		Jan. 16, 1960	19.05	4,500
	Feb. 18, 1949	21.8	13,600		Feb. 7, 1960	19.18	4,720
	Mar. 28, 1949	20.8	8,730		Apr. 1, 1960	20.50	7,540
					July 2, 1960	20.61	7,920
1950	Oct. 17, 1949	20.6	7,920				
	Dec. 28, 1949	20.6	7,920	1961	Mar. 8, 1961	20.12	6,250
	Jan. 5, 1950	26.67	47,000		Mar. 15, 1961	19.76	5,580
	Jan. 17, 1950	22.1	15,100		May 10, 1961	26.61	46,200
	Jan. 27, 1950	20.2	6,520		July 31, 1961	20.53	7,730

a Occurred Apr. 27, 1947.
b Estimated.

3796.5. Madden Creek near West Salem, Ill.

Location.--Lat 38°32'15", long 88°03'25", in NW¼ sec.12, T.1 N., R.10 E., at culvert on State Highway 130, 3 miles northwest of West Salem.

Drainage area.--1.54 sq mi. Mean altitude of basin, 480 ft.

Gage.--Crest-stage gage. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert and over road.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 7, 1956	a15.10	196	1960	June 13, 1960	17.52	1,060
1957	June 12, 1957	16.98	556				
1958	Nov. 18, 1957	14.72	252	1961	May 8, 1961	17.78	1,550
1959	May 21, 1959	15.63	318				

a Backwater from debris.

3803. Dums Creek tributary near Iuka, Ill.

Location.--Lat 38°37'35", long 88°49'20", in SW¼ sec.12, T.2 N., R.3 E., at culvert on U.S. Highway 50, 1.9 miles northwest of Iuka.

Drainage area.--0.078 sq mi. Mean altitude of basin, 535 ft.

Gage.--Crest-stage gage. Altitude of gage is 505 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Sept. 1, 1956	12.47	34	1960	June 30, 1960	13.13	52
1957	July 14, 1957	13.32	58				
1958	July 15, 1958	14.09	82	1961	July 28, 1961	16.15	152
1959	Sept. 1, 1959	12.28	30				

3804.5. White Feather Creek near Marlow, Ill.

Location.--Lat 38°20'40", long 88°46'50", in NE¼ sec.20, T.2 S., R.4 E., at culvert on former State Highway 15, 1.8 miles northeast of Marlow.

Drainage area.--0.446 sq mi. Mean altitude of basin, 550 ft.

Gage.--Crest-stage gage. Altitude of gage is 485 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 16, 1956	12.18	88	1960	May 29, 1960	11.51	47
1957	May 22, 1957	13.67	201				
1958	Dec. 19, 1957	13.82	214	1961	May 8, 1961	14.46	271
1959	May 18, 1959	12.54	112				

3805. Skillet Fork at Wayne City, Ill.

Location.--Lat 38°21'25", long 88°35'00", in SW¼ sec.7, T.2 S., R.6 E., on right bank an eighth of a mile downstream from Shoe Creek, half a mile downstream from bridge on State Highway 15, 0.9 mile upstream from Southern Railway bridge, and 1 mile north of Wayne City.

Drainage area.--475 sq mi.

Gage.--Nonrecording prior to Oct. 5, 1939; recording thereafter. At site 0.9 mile downstream at datum about 3.0 ft lower prior to Sept. 30, 1921. At site half a mile upstream at datum 2.8 ft lower June 11, 1928, to Oct. 4, 1939. Datum of gage is 383.15 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs. Peak of May 1961 affected by washout of railroad embankment; recession of loop rating defined by current-meter measurement at 49,000 cfs.

Remarks.--Base for partial-duration series, 2,800 cfs. Only annual peaks are shown prior to 1940.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Mar. 11, 1909	20.80	6,600
1910	Mar. 2, 1910	20.73	6,200
1911	Oct. 6, 1910	20.95	7,400
1912	Apr. 28, 1912	20.58	5,800
1913	March 1913	a26.5	-
1915	Aug. 22, 1915	23.12	15,800
1916	Jan. 31, 1916	23.08	15,800
1917	Jan. 6, 1917	21.30	8,600
1918	May 13, 1918	21.25	8,200
1919	Dec. 15, 1918	21.12	7,800
1920	Oct. 27, 1919	22.54	13,400
1921	Mar. 29, 1921	20.72	6,200
1929	May 15, 1929	22.81	7,500
1930	Jan. 14, 1930	23.80	12,300
1931	Sept. 3, 1931	21.85	4,880
1932	Jan. 23, 1932	22.97	8,300
1933	May 14, 1933	23.29	9,500
1934	Apr. 7, 1934	11.90	858
1935	Mar. 12, 1935	24.00	13,300
1936	Nov. 12, 1935	20.13	3,060
1937	Jan. 15, 1937	23.38	9,400
1938	Apr. 1, 1938	23.55	10,400
1939	Apr. 17, 1939	24.56	15,400
1940	Apr. 20, 1940	19.25	6,420
1941	Apr. 19, 1941	13.20	1,450
1942	Feb. 7, 1942	18.0	3,480
	Mar. 10, 1942	17.8	3,270
	Apr. 10, 1942	18.8	4,900
	July 10, 1942	18.99	5,370
1943	Apr. 24, 1943	17.0	2,930
	May 12, 1943	21.21	17,000
	May 20, 1943	21.21	17,000
1944	Apr. 12, 1944	19.2	6,650
	Apr. 24, 1944	20.88	15,100
1945	Mar. 7, 1945	19.95	10,500
	Mar. 21, 1945	17.9	3,680
	Apr. 2, 1945	19.8	9,500
	Apr. 15, 1945	18.9	5,590
	May 17, 1945	18.8	5,300
	Sept. 29, 1945	17.5	3,320
1946	Feb. 15, 1946	19.7	9,000
1946	May 3, 1946	19.3	7,050
	May 12, 1946	17.3	3,160
	May 21, 1946	17.5	3,320
	June 3, 1946	18.3	4,200
	Aug. 16, 1946	20.50	13,000
1947	Jan. 31, 1947	16.7	2,810
	Apr. 12, 1947	17.8	3,620
	Apr. 26, 1947	19.48	8,000
1948	Jan. 2, 1948	19.46	8,000
	Mar. 27, 1948	17.0	2,980
	Apr. 14, 1948	18.4	4,400
	July 29, 1948	17.7	3,520
1949	Dec. 30, 1948	17.2	3,110
	Jan. 5, 1949	19.0	5,900
	Jan. 19, 1949	20.6	13,500
	Jan. 25, 1949	20.85	14,500
	Feb. 16, 1949	19.9	10,000
	Mar. 28, 1949	19.0	5,900
1950	Oct. 7, 1949	17.3	3,180
	Oct. 13, 1949	17.2	3,110
	Oct. 23, 1949	17.9	3,720
	Dec. 23, 1949	17.9	3,720
	Jan. 5, 1950	22.16	20,000
	Jan. 16, 1950	18.8	5,300
	Jan. 27, 1950	18.9	5,590
	Feb. 14, 1950	20.3	12,000
	Feb. 23, 1950	19.0	5,900
	Mar. 28, 1950	18.5	4,590
	Apr. 5, 1950	19.0	5,900
	Apr. 30, 1950	18.0	3,830
	May 11, 1950	17.3	3,180
1951	Nov. 21, 1950	17.59	3,160
	Jan. 4, 1951	17.53	3,070
	Jan. 15, 1951	17.86	3,490
	Feb. 7, 1951	-	b3,200
	Feb. 17, 1951	17.25	2,860
	Feb. 21, 1951	19.53	8,250
	Mar. 13, 1951	17.61	3,160
	Mar. 18, 1951	17.90	3,490
1952	Mar. 12, 1952	19.07	5,980
	Mar. 19, 1952	17.80	3,370
	Apr. 6, 1952	18.49	4,450
	Apr. 14, 1952	17.81	3,370
1953	Mar. 5, 1953	18.19	3,910
1954	May 3, 1954	17.19	2,860
1955	Feb. 28, 1955	17.35	3,260

a Observed during flood; not necessarily peak.
b Estimated.

Peak stages and discharges of Skillet Fork at Wayne City, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 22, 1955	17.65	3,430	1958	May 7, 1958	17.34	3,180
	Apr. 14, 1955	17.10	3,040		July 19, 1958	16.71	2,810
	Apr. 24, 1955	18.77	5,300				
				1959	Jan. 23, 1959	18.10	3,950
1956	Feb. 26, 1956	17.14	3,040		Feb. 15, 1959	17.02	2,980
					Aug. 18, 1959	17.84	3,620
1957	Feb. 11, 1957	17.14	3,040				
	Feb. 27, 1957	16.94	2,920	1960	Dec. 13, 1959	17.93	3,720
	Apr. 4, 1957	21.07	16,000		Dec. 19, 1959	18.59	4,800
	May 23, 1957	21.24	16,500		Mar. 25, 1960	16.85	2,860
	June 18, 1957	18.20	4,080		Mar. 31, 1960	17.82	3,620
1958	Nov. 19, 1957	17.82	3,110	1961	Mar. 7, 1961	18.83	5,440
	Dec. 20, 1957	22.03	18,500		May 8, 1961	c26.68	-
	Dec. 26, 1957	17.38	3,040		May 9, 1961	25.8	51,000
	Jan. 22, 1958	18.53	4,700		July 30, 1961	18.49	4,590
	Mar. 25, 1958	18.23	4,080				

c From floodmarks.

3815. Little Wabash River at Carmi, Ill.

Location.--Lat 38°03'40", long 88°09'35", near center of E½ sec.25, T.5 S., R.9 E., on right bank at upstream side of Possum Bridge, 2.3 miles south of Main Street Bridge in Carmi, and 7¾ miles downstream from Skillet Fork.

Drainage area.--3,090 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 9, 1939; recording thereafter. At site 3.1 miles upstream at datum 0.4 ft higher prior to Dec. 31, 1912. Datum of gage is 339.91 ft above mean sea level, datum of 1929. Since Nov. 14, 1939, auxiliary recording gage 3.1 miles upstream.

Stage-discharge relation.--Defined by current-meter measurements. Fall between auxiliary gage and reference gage used as a factor in computing discharge.

Remarks.--Diversion through McHenry Slough 6 miles upstream from gage to Wabash River at extremely high stages. Only annual peaks are shown. Peak stage usually occurs at different time or on different day than peak discharge.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Mar. 16, 1909	28.1	-	1948	Jan. 10, 1948	25.09	12,000
1910	Mar. 9, 1910	27.2	-	1949	Jan. 29, 1949	34.36	32,800
				1950	Jan. 11, 1950	35.23	39,400
1911	Oct. 14, 1910	25.9	-				
1912	Apr. 7, 1912	28.9	-	1951	Feb. 28, 1951	30.14	15,400
				1952	Mar. 23, 1952	29.78	14,700
1937	January 1937	36.23	-	1953	Mar. 11, 1953	20.61	8,220
				1954	May 5, 1954	12.23	4,180
1940	Apr. 26, 1940	26.67	11,600	1955	Apr. 30, 1955	22.60	9,300
1941	Apr. 22, 1941	10.26	3,320	1956	Mar. 1, 1956	23.30	8,850
1942	Apr. 17, 1942	21.94	9,260	1957	Apr. 12, 1957	31.43	18,500
1943	May 25, 1943	34.20	33,100	1958	Dec. 28, 1957	32.92	23,700
1944	May 1, 1944	27.90	13,400	1959	Feb. 21, 1959	26.05	11,100
1945	Mar. 12, 1945	32.11	21,300	1960	Dec. 23, 1959	23.59	10,200
1946	May 22, 1946	28.83	14,700	1961	May 12, 1961	36.70	46,900
1947	May 5, 1947	24.98	11,400				

3820. Middle Fork Saline River near Harrisburg, Ill.

Location.--Lat 37°44'25", long 88°30'00", in NW¼SW¼ sec.13, T.9 S., R.6 E., at highway bridge 2 miles east of Harrisburg and 5 miles upstream from confluence with South Fork.

Drainage area.--198 sq mi.

Gage.--Nonrecording. Datum of gage is 337.89 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs. Affected at times by backwater from Ohio River.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Dec. 14, 1923	19.80	3,430	1929	Feb. 27, 1929	22.00	4,300
1925	Mar. 15, 1925	14.20	1,390	1930	Jan. 14, 1930	a20.60	-
1926	Nov. 8, 1925	19.10	3,150	1931	Mar. 8, 1931	17.68	2,440
				1932	Jan. 18, 1932	a18.06	3,170
1928	June 21, 1928	21.51	4,050				

a Backwater from Ohio River.

3825. Saline River near Junction, Ill.

Location.--Lat 37°41'52", long 88°16'00", in NE¼ sec.36, T.9 S., R.8 E., on right bank at old Island Ripple Bridge site, 2½ miles southwest of Junction, 4 miles downstream from North Fork, and 13¾ miles upstream from mouth.

Drainage area.--1,040 sq mi, approximately.

Gage.--Nonrecording prior to Dec. 13, 1939; recording thereafter. Auxiliary recording gage 3½ miles downstream at Eagle Ripple Ford since Dec. 27, 1939. Datum of gage is 320.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs. Fall between reference gage and auxiliary gage used as a factor in computing discharge.

Remarks.--Most annual peak gage heights caused by backwater from Ohio River, which frequently causes reverse flow at station, and at extremely high stages, causes diversion from Wabash River to Saline River just above station. Annual peak stage usually occurs at a different time or on different day than the annual peak discharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	February 1937	a55.8	-	1951	Feb. 22, 1951	30.39	12,000
				1952	Mar. 14, 1952	33.51	13,200
1940	May 5, 1940	33.83	10,400	1953	Mar. 5, 1953	18.86	6,700
				1954	Jan. 21, 1954	9.77	3,060
1941	July 11, 1941	10.90	3,860	1955	Mar. 23, 1955	33.45	10,100
1942	Apr. 11, 1942	24.75	12,100				
1943	Mar. 21, 1943	35.96	13,400	1956	Feb. 19, 1956	31.09	6,450
1944	Apr. 14, 1944	28.47	12,700	1957	May 26, 1957	31.93	21,900
1945	Mar. 19, 1945	44.03	37,400	1958	Dec. 22, 1957	30.61	11,300
				1959	Jan. 22, 1959	31.14	10,900
1946	Aug. 21, 1946	25.14	9,620	1960	Jan. 17, 1960	20.79	6,030
1947	Apr. 13, 1947	20.52	6,950				
1948	Apr. 15, 1948	36.79	11,600	1961	May 10, 1961	39.40	25,300
1949	Jan. 28, 1949	35.67	12,500				
1950	Jan. 24, 1950	43.84	34,600				

a Maximum stage known, approximate.

3830. Tradewater River at Olney, Ky.

Location.--Lat 37°13'26", long 87°46'53", on downstream side of left abutment of highway bridge at Olney, Hopkins County, 1.1 miles upstream from Cave Creek, 5.1 miles downstream from Flynn Creek, and 9½ miles northeast of Princeton.

Drainage area.--255 sq mi, of which about 246 sq mi contributes directly to surface runoff.

Gage.--Nonrecording prior to July 31, 1942; recording thereafter. Datum of gage is 362.80 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements and extended on basis of slope-area measurement at 17,000 cfs.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	January 1937	a19.27	17,000	1950	Apr. 6, 1950	14.15	2,400
1941	Dec. 29, 1940	11.20	1,440	1951	Jan. 7, 1951	13.92	2,280
					Jan. 16, 1951	16.39	6,260
1942	Apr. 11, 1942	15.9	5,180				
				1952	Nov. 27, 1951	14.97	3,240
1943	Mar. 20, 1943	14.79	2,960		Dec. 10, 1951	13.99	2,320
					Jan. 5, 1952	15.19	3,620
1944	May 8, 1944	13.69	1,950		Mar. 13, 1952	15.15	3,550
					Mar. 24, 1952	16.09	5,520
1945	January 1945	b15	3,320				
	Mar. 6, 1945	14.59	2,640	1953	Mar. 6, 1953	14.97	3,240
	Mar. 21, 1945	14.75	2,960		May 20, 1953	15.39	4,020
	Apr. 5, 1945	13.97	2,100				
	June 12, 1945	14.21	2,230	1954	May 11, 1954	13.18	1,670
1946	Jan. 12, 1946	14.74	2,790	1955	Feb. 25, 1955	13.81	2,050
	Feb. 8, 1946	15.37	4,100		Mar. 23, 1955	15.13	3,510
	Feb. 16, 1946	14.68	2,790				
				1956	Feb. 3, 1956	15.41	4,060
1947	Jan. 5, 1947	14.94	3,140		Feb. 20, 1956	14.40	2,560
	Apr. 12, 1947	14.78	2,960				
				1957	Apr. 9, 1957	14.80	3,000
1948	Feb. 17, 1948	13.81	2,060		May 25, 1957	16.52	6,020
	Mar. 30, 1948	14.37	2,440				
				1958	Nov. 19, 1957	17.53	7,960
1949	Dec. 19, 1948	14.50	2,550		Dec. 21, 1957	16.09	5,240
	Jan. 28, 1949	15.38	4,070				
	Feb. 16, 1949	16.78	7,120	1959	Jan. 22, 1959	14.94	3,200
	Mar. 30, 1949	13.73	2,020				
				1960	July 1, 1960	15.62	4,400
1950	Dec. 15, 1949	15.10	3,460				
	Jan. 6, 1950	15.50	4,260	1961	Feb. 26, 1961	14.34	2,500
	Jan. 14, 1950	15.41	4,060		Mar. 9, 1961	14.87	3,100
	Feb. 3, 1950	14.74	2,930		May 10, 1961	15.31	3,840
	Feb. 16, 1950	14.98	3,250				

a Maximum known.
b About.

3835. Tradewater River near Dalton, Ky.

Location.--Lat 37°16'28", long 87°47'48", at Wilson Bridge, on line between Hopkins and Caldwell Counties, 1.8 miles upstream from Donaldson Creek, 2.5 miles southwest of Dalton, Hopkins County.

Drainage area.--283 sq mi, of which about 274 sq mi contributes directly to surface runoff.

Gage.--Nonrecording. Datum of gage is 351.78 ft above mean sea level, general adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and by slope-area measurement at 17,500 cfs.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Tradewater River near Dalton, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	June 30, 1928	20.00	5,440	1937	Jan. 22, 1937	a24.10	17,500
1929	Feb. 27, 1929	18.09	2,900	1938	Mar. 17, 1938	17.5	2,390
1930	Jan. 10, 1930	20.52	6,400	1939	Apr. 18, 1939	18.15	3,000
				1940	Apr. 21, 1940	17.3	2,250
1931	Apr. 28, 1931	14.80	1,470				

a Maximum stage known.

3840. Rose Creek at Nebo, Ky.

Location.--Lat 37°22'58", long 87°37'59", on right bank at downstream side of bridge on alternate U.S. Highway 41A, 0.5 mile east of Nebo, Hopkins County, 4 miles upstream from mouth, and 8 miles northwest of Madisonville.

Drainage area.--2.10 sq mi.

Gage.--Recording. Datum of gage is 382.08 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 340 cfs. Only annual peak is shown for 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Mar. 21, 1952	6.66	624	1958	Dec. 20, 1957	6.45	440
1953	Mar. 3, 1953	6.81	722	1959	Jan. 21, 1959	6.84	712
	Mar. 14, 1953	6.23	344		Aug. 6, 1959	6.85	a1,000
	May 18, 1953	6.68	637		Aug. 17, 1959	5.20	a350
1954	Apr. 6, 1954	6.25	358	1960	Oct. 13, 1959	5.50	a410
					Jan. 14, 1960	5.70	a460
1955	Mar. 15, 1955	6.23	344		May 20, 1960	6.64	a850
	Apr. 23, 1955	6.47	500		July 1, 1960	6.72	a900
1956	Feb. 2, 1956	6.24	351	1961	Feb. 22, 1961	5.70	a460
	Feb. 15, 1956	7.06	884		Mar. 4, 1961	5.33	a370
	Feb. 24, 1956	6.33	410		Mar. 6, 1961	5.63	a450
	Mar. 7, 1956	6.30	390		Mar. 31, 1961	5.93	a530
	Apr. 15, 1956	6.48	507		Apr. 12, 1961	5.34	a380
					Apr. 21, 1961	6.05	a580
1957	Apr. 4, 1957	6.43	474		May 6, 1961	5.82	a500
	Apr. 8, 1957	6.43	474		May 7, 1961	6.40	a720
	June 1, 1957	6.76	689		May 8, 1961	6.68	a860
1958	Nov. 18, 1957	7.46	1,230				

a About.

OHIO RIVER MAIN STEM

3845. Ohio River at Golconda, Ill.

Location.--Lat 37°21'28", long 88°28'57", on right bank at lock and dam 51, at Golconda, Pope County, 0.5 mile upstream from McGilligan Creek, 0.7 mile downstream from Lusk Branch, and at mile 903.1.

Drainage area.--143,900 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 294.6 ft above mean sea level, Ohio River datum. Nonrecording auxiliary gage at lock and dam 50, 26.3 miles upstream.

Stage-discharge relation.--Defined by current-meter measurements; subject to changes owing to variable water-surface slope.

Remarks.--Peak stage usually occurs at different time than peak discharge. Only annual peaks are shown.

Peak stages and discharges of Ohio River at Golconda, Ill.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 2, 1937	a62.6	a1,470,000	1950	Jan. 19, 1950	54.4	987,000
1938	Apr. 19, 1938	37.7	503,000				
1939	Apr. 27, 1939	48.4	733,000	1951	Mar. 1, 1951	43.7	647,000
1940	May 1, 1940	45.71	714,000	1952	Feb. 10, 1952	46.5	726,000
				1953	Mar. 11, 1953	34.1	422,000
1941	June 13, 1941	26.4	278,000	1954	Apr. 25, 1954	25.2	269,000
1942	Mar. 24, 1942	39.4	523,000	1955	Mar. 14, 1955	45.6	737,000
1943	Mar. 29, 1943	48.6	802,000				
1944	Apr. 22, 1944	42.1	605,000	1956	Feb. 28, 1956	44.85	668,000
1945	Mar. 15, 1945	53.2	1,010,000	1957	Apr. 18, 1957	44.35	694,000
				1958	May 16, 1958	43.7	660,000
1946	Jan. 17, 1946	42.8	506,000	1959	Feb. 1, 1959	42.9	690,000
1947	Jan. 27, 1947	37.5	428,000	1960	Apr. 11, 1960	35.8	459,000
1948	Apr. 23, 1948	48.1	814,000				
1949	Feb. 5, 1949	48.5	768,000	1961	May 16, 1961	50.4	873,000

a Maximum known.

BAY CREEK BASIN

3850. Hayes Creek at Glendale, Ill.

Location.--Lat 37°27'25", long 88°40'05", in SW¼SW¼ sec.21, T.12 S., R.5 E., on left bank at downstream side of bridge on State Highway 145 at Glendale, 3 miles upstream from mouth.

Drainage area.--18.9 sq mi.

Gage.--Recording. Datum of gage is 375.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 4, 1950	14.32	3,020	1955	Mar. 20, 1955	13.51	2,400
	Jan. 10, 1950	14.2	2,950				
	Jan. 12, 1950	12.4	1,750	1956	Feb. 2, 1956	12.88	1,980
	Jan. 26, 1950	12.4	1,750		Feb. 15, 1956	10.75	828
	Feb. 13, 1950	14.0	2,810		Feb. 18, 1956	11.61	1,200
	Feb. 22, 1950	11.9	1,460		Mar. 7, 1956	10.93	898
	Mar. 27, 1950	12.6	1,870		Apr. 4, 1956	10.95	898
	Apr. 3, 1950	13.1	2,180				
	June 3, 1950	10.65	880	1957	Jan. 22, 1957	11.75	965
	Sept. 1, 1950	11.25	1,140		Apr. 4, 1957	13.63	2,120
					May 22, 1957	15.73	3,830
1951	Nov. 20, 1950	12.11	1,570				
	Dec. 3, 1950	10.53	840	1958	Nov. 13, 1957	13.12	1,370
	Jan. 10, 1951	10.43	800		Nov. 18, 1957	12.02	935
	Jan. 14, 1951	12.37	1,750		Dec. 7, 1957	11.57	815
	Feb. 20, 1951	12.45	1,750		Dec. 17, 1957	11.88	905
	Mar. 18, 1951	13.32	2,320		Jan. 21, 1958	11.98	935
	June 29, 1951	10.77	920		Mar. 24, 1958	11.56	815
					May 3, 1958	12.88	1,270
1952	Nov. 13, 1951	12.38	1,750		July 18, 1958	13.87	1,830
	Nov. 23, 1951	11.48	1,260		July 22, 1958	17.01	4,390
	Dec. 7, 1951	12.75	1,990				
	Dec. 20, 1951	10.78	940	1959	Jan. 21, 1959	16.68	4,120
	Jan. 4, 1952	11.01	1,020		May 27, 1959	11.87	905
	Feb. 2, 1952	12.22	1,630		Aug. 17, 1959	14.29	2,110
	Mar. 10, 1952	13.65	2,530				
	Mar. 22, 1952	12.47	1,810	1960	Jan. 14, 1960	11.65	815
1953	Mar. 2, 1953	12.38	1,750	1961	Feb. 22, 1961	12.05	935
					May 6, 1961	14.60	2,320
1954	Apr. 6, 1954	11.68	1,110		May 15, 1961	11.84	875

3855. Lake Glendale Inlet near Dixon Springs, Ill.

Location.--Lat 37°24'55", long 88°39'00", in NE¼SW¼ sec.3, T.13 S., R.5 E., 0.9 mile upstream from Lake Glendale Dam and 2.5 miles north of Dixon Springs.

Drainage area.--1.04 sq mi.

Gage.--Recording. Datum of gage is 418.39 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above on basis of flood-routing studies.

Remarks.--Base for partial-duration series, 160 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 20, 1955	2.84	560	1958	Dec. 17, 1957	1.86	223
	July 20, 1955	3.16	680		Dec. 19, 1957	1.69	172
					May 2, 1958	2.03	274
1956	Feb. 2, 1956	1.66	169		July 18, 1958	3.12	660
	Feb. 15, 1956	2.17	320		July 22, 1958	4.95	1,500
	Mar. 7, 1956	1.86	223				
	Apr. 3, 1956	1.83	214	1959	Jan. 21, 1959	3.55	840
					Aug. 17, 1959	2.14	309
1957	Jan. 22, 1957	2.08	289				
	Apr. 3, 1957	2.04	277	1960	Mar. 29, 1960	1.77	196
	May 22, 1957	3.58	860				
				1961	Dec. 11, 1960	1.81	208
1958	Nov. 13, 1957	-	a350		May 6, 1961	3.50	820
	Nov. 18, 1957	1.81	208				

a Estimated.

3860. Lake Glendale Outlet near Dixon Springs, Ill.

Location.--Lat 37°24'50", long 88°39'50", in SW¼SE¼ sec.4, T.13 S., R.5 E., 100 ft upstream from Lake Glendale Dam, 0.3 mile upstream from outlet to Sugar Creek, and 2.2 miles north of Dixon Springs.

Drainage area.--2.11 sq mi.

Gage.--Recording. Datum of gage is 415.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs and extended above on basis of weir formula.

Remarks.--Flow regulated by Lake Glendale (capacity, 39,200,000 cu ft). Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Mar. 20, 1955	4.32	252	1958	Mar. 24, 1958	3.84	124
	July 20, 1955	3.96	158		May 3, 1958	3.78	110
					July 18, 1958	4.58	319
1956	Feb. 2, 1956	3.85	123		July 22, 1958	5.76	725
	Feb. 18, 1956	3.78	108				
	Apr. 15, 1956	3.76	102	1959	Jan. 21, 1959	5.16	502
					Aug. 17, 1959	3.83	121
1957	Apr. 4, 1957	4.30	233				
	May 22, 1957	4.58	314	1960	May 20, 1960	3.56	72
1958	Jan. 21, 1958	3.80	115	1961	May 7, 1961	4.70	352

3865. Sugar Creek near Dixon Springs, Ill.

Location.--Lat 37°24'56", long 88°40'25", in NE¼SE¼ sec.5, T.13 S., R.5 E., on left bank at downstream side of abandoned highway bridge, 0.6 mile downstream from outlet of Lake Glendale, 2 miles north of Dixon Springs, and 6¾ miles upstream from mouth.

Drainage area.--9.70 sq mi.

Gage.--Recording. Datum of gage is 375.85 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended by logarithmic plotting.

Remarks.--Flows partly regulated by Lake Glendale (capacity, 39,200,000 cu ft) on tributary of Sugar Creek. Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 3, 1950	7.19	1,240	1956	Feb. 15, 1956	6.79	1,180
	Aug. 31, 1950	6.5	960		Feb. 17, 1956	5.18	768
					Mar. 7, 1956	5.77	912
1951	Nov. 20, 1950	7.36	1,320		Apr. 3, 1956	6.49	1,090
	Jan. 14, 1951	7.00	1,160		Apr. 14, 1956	5.06	744
	Feb. 20, 1951	7.64	1,400				
	Mar. 17, 1951	7.66	1,440	1957	Jan. 22, 1957	5.81	912
	Apr. 21, 1951	6.06	850		Apr. 4, 1957	7.21	1,300
	June 26, 1951	5.54	685		Apr. 8, 1957	5.56	864
	June 28, 1951	6.58	1,020		May 22, 1957	8.15	1,600
	June 29, 1951	6.61	1,020				
	June 30, 1951	6.80	1,090	1958	Nov. 13, 1957	7.05	1,240
	July 9, 1951	7.11	1,200		Nov. 18, 1957	5.45	816
					Dec. 17, 1957	6.30	1,040
1952	Nov. 13, 1951	7.61	1,400		Jan. 20, 1958	5.11	744
	Nov. 23, 1951	7.02	1,160		Mar. 23, 1958	4.98	720
	Dec. 6, 1951	7.73	1,440		May 3, 1958	7.46	1,390
	Dec. 14, 1951	5.86	760		July 18, 1958	7.95	1,540
	Dec. 20, 1951	5.98	820		July 22, 1958	9.10	1,870
	Jan. 4, 1952	6.04	820				
	Feb. 1, 1952	6.59	1,020	1959	Jan. 21, 1959	8.56	1,720
	Mar. 10, 1952	7.36	1,320		Aug. 6, 1959	4.96	720
	Mar. 21, 1952	6.87	1,120		Aug. 17, 1959	7.50	1,390
					Sept. 8, 1959	7.47	1,390
1953	Mar. 3, 1953	6.47	1,050				
				1960	Jan. 14, 1960	6.22	1,010
1954	Apr. 6, 1954	6.16	984				
	May 2, 1954	4.68	654	1961	Dec. 11, 1960	6.84	1,180
					Feb. 22, 1961	6.04	960
1955	Mar. 20, 1955	7.52	1,390		Mar. 6, 1961	4.79	676
	July 20, 1955	7.57	1,420		May 6, 1961	8.05	1,540
					May 8, 1961	5.02	720
1956	Feb. 2, 1956	6.76	1,180				

OHIO RIVER MAIN STEM

6110. Ohio River at Paducah, Ky.

Location.--Lat 37°05'22", long 88°35'40", at foot of Jefferson Street, Paducah, McCracken County, a quarter of a mile below mouth of Tennessee River (foot of Owens Island), 2.7 miles above highway bridge at Brookport, Ill., and 46.5 miles above mouth.

Drainage area.--202,700 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 10, 1934; recording thereafter. At site 400 ft upstream at same datum prior to Jan. 10, 1934. Datum of gage is 285.96 ft above mean sea level, datum of 1929.

Bankfull stage.--39 ft.

Remarks.--Only annual peak stages are shown. Records obtained from published Mississippi River Commission and U.S. Weather Bureau records prior to 1934. Most values of gage heights prior to 1934 are maximum observed values. Due to characteristically flat crests, differences from momentary maximum gage heights are probably negligible. Discharge records for Ohio River at Metropolis are applicable for this site.

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Peak stages of Ohio River at Paducah, Ky.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1867	Mar. 21, 1867	52.0	-	1918	Feb. 25, 1818	36.6	-
				1919	Mar. 22, 1919	42.8	-
1875	Mar. 21, 1875	44.3	-	1920	Mar. 28, 1920	45.3	-
1876	Feb. 5, 1876	44.9	-	1921	Feb. 17, 1921	34.5	-
1877	Jan. 27, 1877	38.8	-	1922	Mar. 24, 1922	48.8	-
1878	Apr. 29, 1878	29.0	-	1923	Feb. 11, 1923	42.8	-
1879	Jan. 25, 1879	38.8	-	1924	Jan. 13, 1924	42.7	-
1880	Mar. 22, 1880	44.0	-	1925	Feb. 26, 1925	33.6	-
1881	Feb. 23, 1881	40.6	-	1926	Jan. 29, 1926	35.0	-
1882	Feb. 26, 1882	50.0	-	1927	Apr. 18, 1927	47.2	-
1883	Feb. 25, 1883	50.7	-	1928	July 8, 1928	39.6	-
1884	Feb. 23, 1884	54.2	-	1929	Mar. 14, 1929	45.0	-
1885	Jan. 25, 1885	38.0	-	1930	Jan. 19, 1930	40.5	-
1886	Apr. 17, 1886	50.4	-	1931	Apr. 12, 1931	30.7	-
1887	Mar. 8, 1887	46.8	-	1932	Feb. 12, 1932	46.8	-
1888	Apr. 5, 1888	40.6	-	1933	Apr. 3, 1933	47.3	-
1889	Feb. 26, 1889	31.4	-	1934	Mar. 15, 1934	39.27	-
1890	Mar. 11, 1890	48.5	-	1935	Mar. 23, 1935	45.40	-
1891	Mar. 4, 1891	45.3	-	1936	Apr. 15, 1936	49.15	-
1892	Apr. 29, 1892	42.9	-	1937	Feb. 2, 1937	60.60	-
1893	Feb. 27, 1893	44.3	-	1938	Apr. 16, 1938	37.13	-
1894	Feb. 15, 1894	36.3	-	1939	Feb. 22, 1939	49.09	-
1895	Jan. 20, 1895	32.8	-	1940	May 2, 1940	41.84	-
1896	Apr. 11, 1896	37.3	-	1941	June 15, 1941	20.87	-
1897	Mar. 24, 1897	50.9	-	1942	Mar. 24, 1942	38.05	-
1898	Apr. 6, 1898	47.3	-	1943	Mar. 30, 1943	45.98	-
1899	Apr. 4, 1899	43.8	-	1944	Apr. 4, 1944	41.24	-
1900	Mar. 15, 1900	30.9	-	1945	Mar. 10, 1945	50.29	-
1901	May 1, 1901	39.4	-	1946	Jan. 19, 1946	45.87	-
1902	Mar. 15, 1902	39.7	-	1947	Jan. 28, 1947	39.20	-
1903	Mar. 15, 1903	47.6	-	1948	Feb. 22, 1948	45.58	-
1904	Apr. 4, 1904	44.7	-	1949	Feb. 4, 1949	46.13	-
1905	Mar. 17, 1905	33.6	-	1950	Feb. 13, 1950	53.31	-
1906	Apr. 8, 1906	40.5	-	1951	Feb. 26, 1951	42.78	-
1907	Jan. 28, 1907	45.7	-	1952	Feb. 8, 1952	44.03	-
1908	Feb. 26, 1908	40.9	-	1953	Mar. 9, 1953	33.88	-
1909	Mar. 5, 1909	44.5	-	1954	Jan. 27, 1954	30.25	-
1910	Mar. 12, 1910	36.2	-	1955	Mar. 29, 1955	47.47	-
1911	Apr. 20, 1911	42.6	-	1956	Feb. 26, 1956	42.94	-
1912	Apr. 10, 1912	49.9	-	1957	Feb. 10, 1957	45.05	-
1913	Apr. 7, 1913	54.3	-	1958	May 18, 1958	40.25	-
1914	Apr. 9, 1914	36.4	-	1959	Feb. 2, 1959	36.75	-
1915	Feb. 11, 1915	42.3	-	1960	Apr. 8, 1960	35.32	-
1916	Jan. 18, 1916	45.7	-	1961	May 18, 1961	46.94	-
1917	Mar. 25, 1917	47.1	-				

6115. Ohio River at Metropolis, Ill.

Location.--Lat 37°08'51", long 88°44'27", near center of span on downstream side of pier of Paducah & Illinois Railroad bridge at Metropolis, Massac County, 9½ miles downstream from Tennessee River and 37 miles upstream from mouth.

Drainage area.--203,000 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 10, 1934; recording thereafter. At Paducah, Ky., 9½ miles upstream at datum 9.69 ft higher prior to Dec. 22, 1936. Datum of present gage is 276.27 ft above mean sea level, datum of 1929. Nonrecording auxiliary gage at dam 53, 18½ miles downstream from present gage prior to May 29, 1936; recording thereafter at site 0.5 mile upstream from dam 53 and 18 miles downstream from present gage.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--43 ft.

Remarks.--Records for the period, 1928-33, from reports of Mississippi River Commission and U.S. Weather Bureau. Peak stage and peak discharge usually occur on different days. Only annual peaks are shown.

Peak stages and discharges of Ohio River at Metropolis, Ill.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Apr. 7, 1913	a54.3	b1,400,000	1945	Mar. 10, 1945	57.09	1,130,000
1928	July 7, 1928	39.6	a760,000	1946	Jan. 20, 1946	53.18	917,000
1929	Mar. 15, 1929	45.0	c975,000	1947	Jan. 28, 1947	45.93	771,000
1930	Jan. 19, 1930	40.5	c853,000	1948	Feb. 21, 1948	51.93	995,000
				1949	Feb. 4, 1949	53.08	971,000
1931	Apr. 11, 1931	30.7	c560,000	1950	Feb. 13, 1950	60.10	1,320,000
1932	Feb. 12, 1932	46.8	c1,147,000				
1933	Apr. 1, 1933	47.3	c1,050,000	1951	Feb. 26, 1951	50.26	820,000
1934	Mar. 15, 1934	39.27	774,000	1952	Feb. 8, 1952	51.05	895,000
1935	Mar. 23, 1935	45.40	936,000	1953	Mar. 9, 1953	41.07	621,000
				1954	Jan. 27, 1954	37.20	548,000
1936	Apr. 15, 1936	49.15	1,100,000	1955	Mar. 29, 1955	54.18	1,030,000
1937	Feb. 1, 1937	66.60	d1,850,000				
1938	Mar. 31, 1938	45.10	646,000	1956	Feb. 26, 1956	49.58	891,000
1939	Feb. 20, 1939	55.80	1,130,000	1957	Feb. 10, 1957	51.64	968,000
1940	May 2, 1940	48.89	846,000	1958	May 18, 1958	47.21	788,000
				1959	Feb. 2, 1959	43.61	708,000
1941	June 14, 1941	28.97	309,000	1960	Dec. 22, 1959	43.88	588,000
1942	Mar. 24, 1942	45.41	720,000				
1943	Mar. 29, 1943	52.98	967,000	1961	Mar. 11, 1961	54.52	972,000
1944	Apr. 4, 1944	48.96	798,000				

a At Paducah. b Estimated. c Maximum daily discharge. d Includes overflow through Bay Creek and Cache River Valley.

CACHE RIVER BASIN

6120. Cache River at Forman, Ill.

Location.--Lat 37°20'11", long 88°55'26", in NE¼NW¼ sec.6, T.14 S., R.3 E., at downstream side of highway bridge, 1¼ miles southwest of Forman.

Drainage area.--243 sq mi.

Gage.--Nonrecording prior to July 25, 1939; recording July 25, 1939, to Sept. 30, 1958; nonrecording thereafter. July 25, 1939, to Sept. 30, 1958, at site 2.6 miles upstream at datum 333.77 ft above mean sea level. Oct. 1, 1932, to July 24, 1939, at site 2.6 miles upstream at datum 1 ft lower but adjusted to above datum. Datum of gage is 318.47 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements at former site; below 4,800 cfs at present site.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Feb. 3, 1923	13.3	3,890	1928	June 22, 1928	14.5	5,630
	Mar. 18, 1923	11.4	1,820		June 29, 1928	14.2	5,180
	May 17, 1923	12.0	2,350				
	Sept.22, 1923	11.4	1,820	1929	Jan. 20, 1929	15.2	6,700
					Jan. 26, 1929	16.6	8,950
1924	Dec. 14, 1923	13.1	3,430		Feb. 27, 1929	14.5	5,630
	Dec. 24, 1923	13.1	3,430		Mar. 5, 1929	11.6	1,970
	June 15, 1924	11.3	1,750				
				1930	Jan. 10, 1930	13.8	4,590
1925	Mar. 17, 1925	9.2	1,040		Jan. 15, 1930	13.9	4,630
1926	Nov. 8, 1925	12.1	2,110	1931	Mar. 9, 1931	10.8	1,630
1927	Jan. 23, 1927	15.3	6,860	1932	Jan. 18, 1932	12.1	2,450
	Mar. 19, 1927	16.1	8,140		Jan. 19, 1932	12.1	2,180
	Apr. 16, 1927	14.4	5,480		Mar. 18, 1932	11.1	1,640
	May 11, 1927	12.2	2,560		Sept. 4, 1932	11.1	1,640
	May 26, 1927	12.0	2,350				
	June 4, 1927	12.2	2,560	1933	Dec. 27, 1932	11.8	2,150
	June 23, 1927	12.7	3,140		Jan. 1, 1933	15.3	6,860
					Jan. 23, 1933	11.9	2,250
1928	Nov. 18, 1927	11.7	2,060		Apr. 1, 1933	12.9	3,450
	Dec. 15, 1927	15.0	6,380		May 16, 1933	13.5	4,170
	Apr. 22, 1928	13.2	3,760				
	June 15, 1928	11.9	2,250	1934	Mar. 28, 1934	9.0	950

Peak stages and discharges of Cache River at Forman, Ill.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Nov. 24, 1934	14.4	5,480	1949	Jan. 26, 1949	14.8	5,880
	Jan. 22, 1935	12.4	2,780		Feb. 16, 1949	12.3	3,250
	Mar. 12, 1935	17.0	9,630		Mar. 19, 1949	9.5	1,860
	Mar. 13, 1935	16.7	9,120		Mar. 28, 1949	12.5	3,410
	Apr. 1, 1935	10.5	1,620				
	May 7, 1935	10.9	1,820	1950	Jan. 5, 1950	17.0	8,860
	June 18, 1935	13.9	4,730		Jan. 14, 1950	14.4	5,400
	June 22, 1935	15.4	7,020		Jan. 31, 1950	9.8	1,950
					Feb. 14, 1950	14.5	5,850
1936	Apr. 7, 1936	12.2	2,780		Feb. 23, 1950	9.5	1,860
					Mar. 29, 1950	12.0	3,020
1937	Jan. 16, 1937	16.4	8,620		Apr. 5, 1950	14.8	6,270
	Jan. 22, 1937	15.5	7,180		May 13, 1950	9.0	1,720
	May 4, 1937	12.8	3,260				
				1951	Jan. 16, 1951	13.10	4,040
1938	Apr. 1, 1938	12.8	3,260		Feb. 22, 1951	12.88	3,830
	June 14, 1938	10.5	1,620				
				1952	Nov. 25, 1951	8.85	1,650
1939	Feb. 11, 1939	12.6	3,040		Dec. 10, 1951	8.93	1,680
	Mar. 6, 1939	13.6	4,310		Feb. 4, 1952	9.49	1,860
	Apr. 19, 1939	12.1	2,580		Mar. 12, 1952	13.88	5,010
					Mar. 24, 1952	12.42	3,350
1940	Apr. 20, 1940	10.4	1,770				
	May 1, 1940	9.8	1,610	1953	Mar. 3, 1953	8.15	1,480
1941	Jan. 24, 1941	7.9	1,140	1954	Apr. 7, 1954	8.00	1,500
1942	Mar. 14, 1942	10.2	1,660	1955	Mar. 23, 1955	12.32	3,260
	Apr. 10, 1942	13.0	3,580				
	Aug. 24, 1942	10.1	1,690	1956	Feb. 19, 1956	9.64	1,900
					Apr. 16, 1956	8.52	1,620
1943	Mar. 20, 1943	16.25	7,840				
	May 14, 1943	12.70	3,030	1957	Jan. 24, 1957	9.26	1,830
	May 21, 1943	11.6	2,120		Apr. 6, 1957	14.16	4,990
					Apr. 18, 1957	8.41	1,600
1944	Apr. 12, 1944	14.2	4,910		May 24, 1957	16.63	8,250
1945	Feb. 28, 1945	13.2	3,620	1958	Nov. 15, 1957	12.36	2,860
	Mar. 7, 1945	16.1	7,680		Nov. 20, 1957	12.79	3,110
	Mar. 21, 1945	13.2	3,620		Dec. 21, 1957	12.97	3,790
	Apr. 3, 1945	14.0	4,650		Jan. 22, 1958	9.77	1,990
	Apr. 16, 1945	14.6	5,330		Mar. 26, 1958	12.32	3,250
	June 19, 1945	11.7	2,350		May 4, 1958	9.32	1,830
					July 20, 1958	14.34	5,110
1946	Jan. 10, 1946	9.9	1,690				
	Feb. 15, 1946	12.2	2,620	1959	Jan. 22, 1959	22.70	4,100
	May 27, 1946	12.7	3,050				
1947	Apr. 12, 1947	9.4	1,830	1960	Dec. 18, 1959	16.75	1,770
1948	Jan. 3, 1948	9.8	1,950	1961	Feb. 23, 1961	17.37	1,920
	Apr. 14, 1948	13.2	4,150		Mar. 8, 1961	16.75	1,770
	May 18, 1948	12.8	3,730		Mar. 14, 1961	17.39	1,920
1949	Jan. 7, 1949	12.1	3,090		May 9, 1961	26.85	6,650

6122. Q ditch tributary near Choat, Ill.

Location.--Lat 37°13'10", long 88°48'00", in NW¼ sec.17, T.15 S., R.4 E., at culvert on U.S. Highway 45, 0.4 mile north of Choat and 2½ miles northeast of Joppa.

Drainage area.--0.278 sq mi. Mean altitude of basin, 410 ft.

Gage.--Crest-stage gage. Altitude of gage is 360 ft (from topographic map).

Stage-discharge relation.--Defined by indirect measurements of peak flow through culvert.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 24, 1956	13.27	205	1960	Aug. 20, 1960	11.78	76
1957	May 23, 1957	13.64	244				
1958	July 16, 1958	14.06	292	1961	May 8, 1961	12.84	163
1959	Jan. 21, 1959	13.34	212				

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MAP OF OHIO RIVER BASIN, EXCEPT CUMBERLAND AND TENNESSEE RIVER BASINS SHOWING HYDROLOGIC AREAS, FLOOD REGIONS, AND GAGING STATIONS

SCALE 1:1 000 000

25 0 25 50 75 100 MILES

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Base compiled, with some modification, from River Basin Maps, IACWR, Subcommittee on Hydrology

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