

Prepared in cooperation with the Indiana Department of Environmental Management

Low-Flow Characteristics for Selected Streams in Indiana

By Kathleen K. Fowler and John T. Wilson



Scientific Investigations Report 2014–5242

Cover: Shepard Bridge on Old Michigan Road over Big Creek in Ripley County, Indiana. Photo by Jim Grey, 2008. More information available at <http://bridgehunter.com/in/ripley/6900032/>.

Low-Flow Characteristics for Selected Streams in Indiana

By Kathleen K. Fowler and John T. Wilson

Prepared in cooperation with the Indiana Department of Environmental Management

Scientific Investigations Report 2014–5242

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

U.S. Department of the Interior
SALLY JEWELL, Secretary

U.S. Geological Survey
Suzette M. Kimball, Acting Director

U.S. Geological Survey, Reston, Virginia: 2015

For more information on the USGS—the Federal source for science about the Earth, its natural and living resources, natural hazards, and the environment—visit <http://www.usgs.gov> or call 1-888-ASK-USGS.

For an overview of USGS information products, including maps, imagery, and publications, visit <http://www.usgs.gov/pubprod/>.

To order this and other USGS information products, visit <http://store.usgs.gov/>.

Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Although this information product, for the most part, is in the public domain, it also may contain copyrighted materials as noted in the text. Permission to reproduce copyrighted items must be secured from the copyright owner.

Suggested citation:

Fowler, K.K., and Wilson, J.T., 2015, Low-flow characteristics for selected streams in Indiana: U.S. Geological Survey Scientific Investigations Report 2014-5242, 353 p., <http://dx.doi.org/10.3133/sir20145242>.

ISSN 2328-0328 (online)

Contents

Abstract.....	1
Introduction	1
Purpose and Scope	1
Previous Studies	2
Description of Study Area	2
Physiography and Geology	4
Climate	4
Methods of Analysis at Gaging Stations.....	4
Low-Flow Frequency Analysis.....	4
Continuous-Record Stations.....	6
Partial-Record Stations	10
Data Limitations at Partial-Record Stations.....	12
Flow-Duration Analysis.....	13
Harmonic Mean Flow.....	14
Summary.....	14
References Cited.....	15

Figures

1. Map showing physiographic regions and major drainage basins in Indiana	3
2. Graph showing average annual precipitation and temperature in Indiana, by climatic division, for the period 1981–2010.....	5
3. Graph showing part of a hypothetical annual hydrograph showing periods for which the daily discharges are averaged to give the 1-day, 7-day, and 30-day low flows for that year	6
4. Map showing continuous-record streamgaging stations in Indiana	7
5. Graph showing continuous-record streamgaging stations in Marion County, Indiana ...	8
6. Graph showing low-flow frequency curve for Whitewater River near Hagerstown, Indiana	9
7. Map showing partial-record streamgaging stations in Indiana	11
8. Graphical method of estimating low-flow characteristics at a partial-record station from known characteristics at a continuous-record station	12
9. Graph showing flow-duration curves for a stream in southern Indiana (Big Creek) and a stream in northern Indiana (Pigeon Creek)	13

Tables

1. Low-flow characteristics for continuous-record streamgaging stations in Indiana	17
2. Low-flow characteristics for partial-record streamgaging stations in Indiana.....	290

Tables 1 and 2 in Excel file format are available at <http://dx.doi.org/10.3133/sir20145242>.

Acknowledgments

The authors wish to thank the many local, State, and Federal agencies that have cooperated in the funding for the operation and maintenance of the gages used for this study, especially the U.S. Army Corps of Engineers – Louisville District, the Indiana Department of Natural Resources, and the Indiana Department of Environmental Management. Special thanks are given to Indiana Department of Environmental Management for their cooperation in this study.

Conversion Factors

Inch-pound to International System of Units (SI)

Multiply	By	To obtain
Length		
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
Area		
square mile (mi ²)	2.590	square kilometer (km ²)
Flow rate		
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)

Horizontal coordinate information is referenced to the North American Datum of 1927 (NAD 27) or 1983 (NAD 83) as noted.

Low-Flow Characteristics for Selected Streams in Indiana

By Kathleen K. Fowler and John T. Wilson

Abstract

The management and availability of Indiana's water resources increase in importance every year. Specifically, information on low-flow characteristics of streams is essential to State water-management agencies. These agencies need low-flow information when working with issues related to irrigation, municipal and industrial water supplies, fish and wildlife protection, and the dilution of waste. Industrial, municipal, and other facilities must obtain National Pollutant Discharge Elimination System (NPDES) permits if their discharges go directly to surface waters. The Indiana Department of Environmental Management (IDEM) requires low-flow statistics in order to administer the NPDES permit program. Low-flow-frequency characteristics were computed for 272 continuous-record stations. The information includes low-flow-frequency analysis, flow-duration analysis, and harmonic mean for the continuous-record stations. For those stations affected by some form of regulation, low-flow frequency curves are based on the longest period of homogeneous record under current conditions. Low-flow-frequency values and harmonic mean flow (if sufficient data were available) were estimated for the 166 partial-record stations. Partial-record stations are ungaged sites where streamflow measurements were made at base flow.

Introduction

The management and availability of Indiana's water resources increase in importance every year. Knowledge of the magnitude and frequency of low flows for streams is essential for water-supply planning and design, waste-load allocation, reservoir design, maintenance of aquatic life, and understanding the quantity and quality of water that is used for irrigation and recreation. Industrial, municipal, and other facilities must obtain National Pollutant Discharge Elimination System (NPDES) permits if their discharges go directly to surface waters (U.S. Environmental Protection Agency, 2012a). As authorized by the Clean Water Act, the NPDES permit program limits water pollution by regulating point sources that discharge pollutants into waters of the United States. In Indiana, the NPDES permit program is administered by the

Indiana Department of Environmental Management (IDEM) on the basis of low-flow statistics.

The U.S. Geological Survey (USGS), in cooperation with State and Federal agencies, has collected daily streamflow data in Indiana since 1928. This continually growing data base is important in all aspects of water-resources investigations. Presented in this report are the low-flow characteristics for 272 continuous-record stations and 166 partial-record stations in Indiana. The information includes low-flow-frequency analysis (the annual 1-day, 10-year, 1Q10; the 7-day, 10-year, 7Q10; and the 30-day, 10-year, 30Q10 low flows), flow-duration analysis, and harmonic mean flow computations for the continuous-record sites. For the 166 partial-record stations, low-flow-frequency statistics (1Q10, 7Q10, and 30Q10 low flows) and the harmonic mean flow were estimated. Partial-record stations are ungaged sites where streamflow measurements were made at base flow. In this report "ungaged" means sites where there is no device that records the stage of the river or stream. The same low-flow characteristics estimated at partial-record stations were estimated for continuous-record stations where less than 10 years of record were available. Low-flow characteristics are based on available data through September 2011, except for selected short-term continuous-record stations, where data extending through September 2013 were used.

The analysis of low-flow characteristics of Indiana streams described and presented in this report was undertaken by the USGS in cooperation with IDEM.

Purpose and Scope

The purpose of this report is to present low-flow characteristics for 152 active continuous-record gaging stations, 120 inactive continuous-record gaging stations, and 166 partial-record stations at Indiana streams. This information is needed for management decisions by State and local officials concerned with water supplies, pollution management, and fish and wildlife preservation. In particular, this report develops low-flow statistics needed by IDEM for purposes including the development of Total Maximum Daily Loads (TMDLs), 305b/303d programs (U.S. Environmental Protection Agency, 2012b), watershed planning, and the administration of the Indiana NPDES permit program.

Low-flow characteristics were determined for 230 continuous-record stations with at least 10 years of record. An additional 42 continuous-record stations have less than 10 years of record; these sites were compared with an index site, and low-flow characteristics were estimated by correlation of concurrent flows at the short-term and long-term (index) stations. Continuous-record stations are streamgaging stations for which daily streamflow is computed and stored. Most of these stations currently are active; some have been discontinued. Natural flow conditions, based on the entire period of record, are represented for most sites. The analyses for stations at which flows are affected by significant regulation used only the period of record affected by regulation; the natural flow conditions prior to regulation were not included in the frequency, harmonic mean, and flow-duration analyses for regulated streams. For this report, streamflow is considered regulated if more than 10 percent of the contributing drainage area is subject to significant control of discharge (such as the control of outflow from reservoirs). When a stream is significantly regulated, the remarks section of table 1 specifies that only the current regulated period is used. Activities such as occasional water withdrawals, mining operations, or discharges into a stream also can affect flow but are not considered significant. Continuous-record stations with less than 10 years of record were treated as partial-record stations for estimating low-flow frequency and harmonic mean flows. The average daily discharge and percentiles for the flow-duration curve are provided for all of the continuous-record stations regardless of the length of the period of record, including records having less than 10 years. Frequency analysis for each of the continuous-record stations was done by fitting a log-Pearson type III curve to observed annual minimum data and by making a graphical adjustment to the fitted curve where the plotted data points and curve did not agree closely (Riggs, 1972). Calculations were based on the climatic year (April 1 through March 31).

Daily flow-duration information includes the percentage of days a particular discharge was equaled or exceeded. Duration tables for each continuous-record station were computed with the daily mean discharges for the entire period of record of complete water years. For those continuous-record stations having significant regulation, only the current, regulated period of record was used.

The terms “flow,” “streamflow,” and “discharge” are synonymous and are used interchangeably in this report. All three terms refer to the volume of water that passes a given point within a given period of time; all are expressed in units of cubic feet per second (ft³/s).

Previous Studies

Previous low-flow investigations of Indiana streams by the USGS include those by Hoggatt (1962), Rohne (1972), Stewart (1983), and Fowler and Wilson (1996). This report is similar to and is an update of these earlier reports. Arihood and Glatfelter (1986) presented a method for estimating 7-day low flows at the 10- and 2-year recurrence intervals (7Q10 and 7Q2) for ungaged streams in central and northern Indiana, using equations that require the contributing drainage area and a flow-duration ratio for the area of interest. The Arihood-Glatfelter equations were developed on the basis of the flow characteristics published in Stewart (1983). Arvin (1989) presented statistical summaries for streamflow data in Indiana that included flow-duration tables and annual low flows for selected consecutive days.

Statistical summaries like those presented in Arvin (1989) are available online for selected stations and are based on daily mean discharge through September 2006 (<http://in.water.usgs.gov/dvstats/>).

Description of Study Area

The State of Indiana spans 36,418 square miles (mi²) in the east-central United States. The study area (fig. 1) consists of the entire State. The major drainage basins in Indiana (fig. 1) are the Great Lakes Drainage Basin, which includes the St. Joseph Basin, the Lake Michigan Basin, and the Maumee Basin; the Upper Mississippi River Basin, which includes the Kankakee Basin; the Wabash Drainage Basin, which includes the upper, middle, and lower Wabash Basins, the West Fork White Basin, the East Fork White Basin, and the Patoka Basin; and the Ohio River Tributary Drainage Basin, which includes the Whitewater Basin and minor tributaries to the Ohio River (Ohio Basin).

Nearly eighty percent of Indiana is drained by streams that discharge into the Ohio River. The largest river in Indiana, the Wabash, drains 32,910 mi² (including parts of Ohio and Illinois). The White River, a tributary to the Wabash, has two subbasins of nearly equal size—the West Fork and the East Fork—with a total drainage area of 11,349 mi². The Whitewater River, which drains 1,369 mi², discharges into the Great Miami River in southern Ohio. The Kankakee and Iroquois Rivers are part of the Illinois River drainage; they drain about 7 percent of Indiana (2,581 mi²) and flow westward into Illinois. Approximately 10 percent of Indiana is drained by three rivers that are part of the Great Lakes Basin. The Calumet and St. Joseph Rivers drain into Lake Michigan, and the Maumee River drains into Lake Erie. Both Lake Michigan and Lake Erie are part of the Saint Lawrence River drainage. Streams in the extreme south and southeast area of the State drain directly into the Ohio River.



Base from U.S. Geological Survey digital data
GCS North American 1983

Figure 1. Physiographic regions and major drainage basins in Indiana.

Physiography and Geology

Indiana can be divided into four broad physiographic zones that are based on similarities in topography and geology (Gray, 2000) (fig. 1). The Northern Moraine and Lake Region is mostly glacial in origin and generally has more relief than the central zone. The Central Till Plain Region is a depositional plain of low relief underlain by thick glacial till that has been modified by postglacial stream erosion. The small eastern zone, the Maumee Lake Plain Region, is part of a larger zone in Ohio that is fairly flat with a few low ridges of beach silt and sand. Landforms in the southern zone, the Southern Hills and Lowlands Region, are formed from degradational processes, such as weathering and stream erosion. A detailed description of the subdivisions of each region can be found in [Indiana Geological Survey Special Report 61](#), “Physiographic Divisions of Indiana” (Gray, 2000).

Precipitation and geology directly influence the streams in Indiana. Streams in the northern, glaciated part of the State tend to have higher sustained base flows than those in the non-glaciated southern part.

Climate

Indiana climate is classified as continental and temperate; the summers tend to be hot and humid, whereas winters tend to be cold and damp. The transitional seasons of spring and fall are prone to frequent changes in weather. The growing season extends approximately from April through October. A well-defined, north-south climatic gradient across the State provides a cool, temperate climate in the north and a warm, temperate climate in the south. High humidity and frequent variations in temperature are characteristic.

Average annual precipitation ranges from 38.1 inches in northeast Indiana to 46.6 inches in the south-central area (fig. 2; National Oceanic and Atmospheric Administration, 2014). May is typically the wettest month of the year, with average rainfall between 4 and 5 inches across the State. Average rainfall decreases slightly as summer progresses. Autumn months are drier, with 3 inches of rainfall typical in each month. Indiana winters are the driest time of year, with less than 3 inches of precipitation commonly received each month. February is the driest month of the year statewide, then precipitation increases in March and April as the spring soil-moisture recharge season begins.

Annual precipitation is usually adequate for water needs, but an uneven distribution in the summer can limit crops. Mild to severe droughts occasionally occur in the summer when evaporation is highest and dependence on rainfall is greatest for crops. Groundwater storage is generally abundant in the north and central areas where there are glacial deposits. Underlying bedrock with shallow soils limits ground water storage in much of south-central Indiana (Scheeringa, 2002).

The average annual precipitation in figure 2 shows that precipitation increased from the period 1961–1990 (Fowler and Wilson, 1996) to the period 1981–2010. On average, annual precipitation increased about 1.7 inches in the northern divisions, 2.2 inches in the central divisions, and 1.3 inches in the southern divisions.

Average annual temperatures range from 49.9 degrees Fahrenheit (°F) in northeast Indiana to 54.9 °F in southwest Indiana. January is typically the coldest month of the year, with normal daily maximum temperatures ranging from 31 to 38 °F north to south across Indiana. Normal January minimums range between 15 and 21 °F north to south. July is the warmest month, with daily maximums averaging 80 to 83 °F and minimums 63 to 65 °F north to south (Scheeringa, 2002). The average annual temperatures in figure 2 show the temperatures have slightly increased from the period 1961–1990. In the northern divisions, temperature has increased about 0.6 °F; in the central division, 0.8 °F; and in the southern divisions, 0.1 °F.

Methods of Analysis at Gaging Stations

Streamflow is a continuous process that varies over time. Streamflow characteristics in river basins can change in response to climate changes and human alteration such as the installation of reservoirs and dams, withdrawals for water supply, and inputs from wastewater treatment facilities. These changes can affect low-flow statistics. For this study, low-flow characteristics were determined by frequency analysis, flow-duration analysis, and harmonic mean computation.

Low-Flow Frequency Analysis

Frequency curves relate the magnitude of a variable to the frequency of occurrence (Riggs, 1968). In low-flow investigations, the frequency curves relate the minimum average discharge for a given number of consecutive days (N -day) to the recurrence interval in years (T -year). To compute return period low-flow values, such as 7Q10, an annual time series of average consecutive 7-day minimum discharges was calculated for all continuous-record streamgaging stations.

For example, the 7-day, 10-year low flow (7Q10) is the minimum average discharge for 7 consecutive days, which has a 0.1 probability of not being exceeded in a given year. The recurrence interval is the reciprocal of the probability of recurrence. The recurrence interval also may be defined in general terms as the average interval of time between occurrences of low-flow events (for example, the 10-year low flow). Figure 3 is an example of how the 1-day, 7-day, and 30-day periods of minimum average discharge may look on a hydrograph.

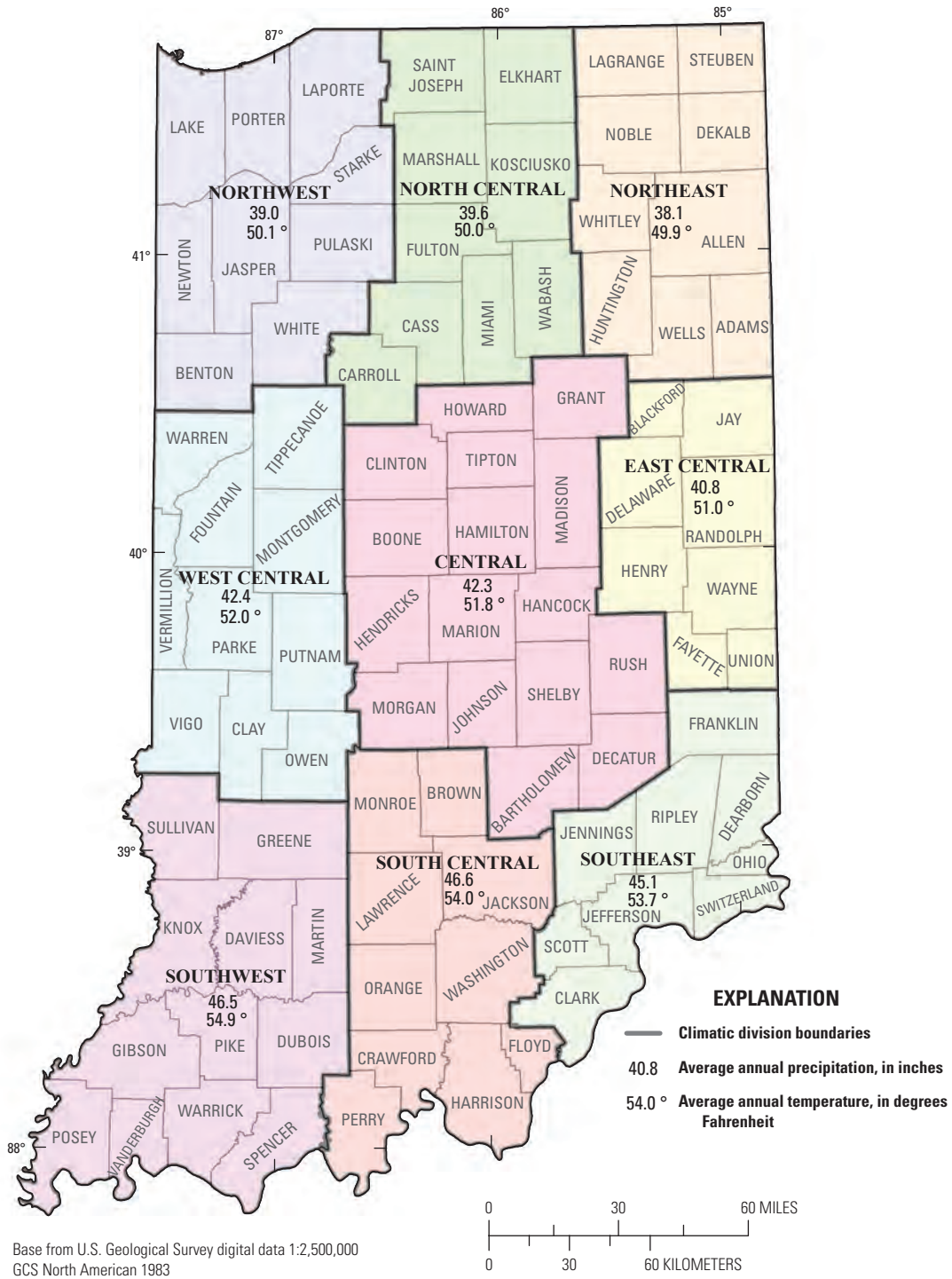


Figure 2. Average annual precipitation and temperature in Indiana, by climatic division, for the period 1981–2010.

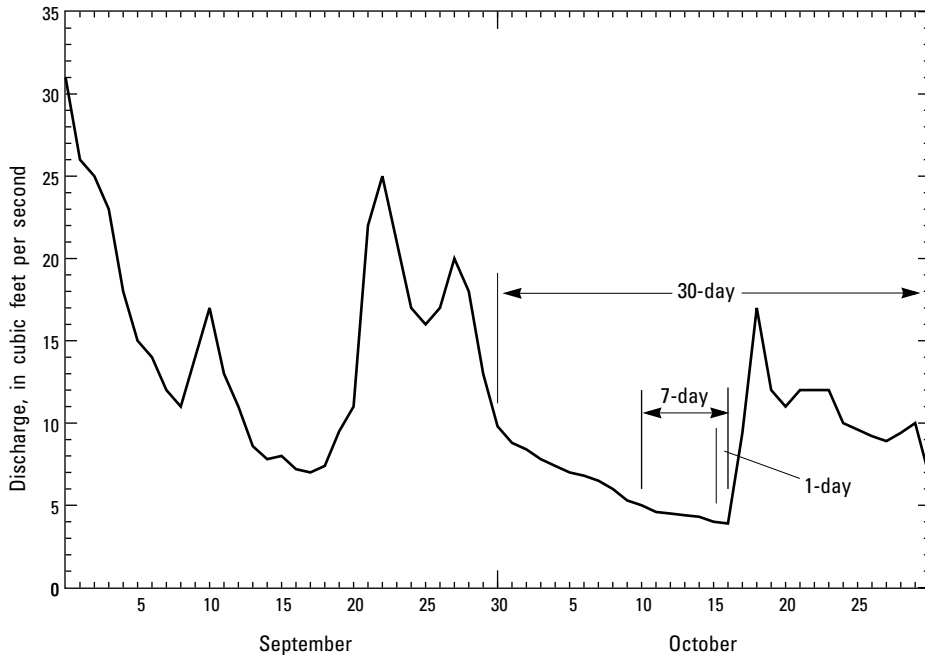


Figure 3. Part of a hypothetical annual hydrograph showing periods for which the daily discharges are averaged to give the 1-day, 7-day, and 30-day low flows for that year.

Continuous-Record Stations

Frequency analyses were computed for 230 continuous-record stations in Indiana with at least 10 years of record (figs. 4 and 5). Frequency curves were defined by using a mathematical procedure for fitting the data to a log-Pearson type III distribution (Riggs, 1972). Figure 6 is an example of a frequency curve of 7-day low flows. Selected N -day, T -year low-flow characteristics can be computed from the following equation

$$X_T = \bar{X} + KS \quad (1)$$

where

- X_T is selected N -day, T -year low flow,
- \bar{X} is mean of the logarithms of the N -day values,
- K is Pearson type III frequency factor for the value of skew coefficient computed for the data and a recurrence interval of T (nonexceedance probability of $p = 1/T$), and
- S is standard deviation of the logarithms of the N -day values.

The USGS Surface-Water Statistics (SWSTAT) software was used to select annual minimum flows; compute the mean, standard deviation, and coefficient of skew; plot the fitted log-Pearson type III probability distribution; and plot the selected minimum flows versus recurrence intervals (Hutchison, 1975;

Lumb and others, 1990; Flynn and others, 1995). Plotting positions were determined from the equation

$$RI = (n + 1)/m \quad (2)$$

where

- RI is recurrence interval in years,
- n is number of years of record, and
- m is numerical rank, with the lowest flow being 1.

This procedure produced acceptable fits to most sets of low-flow data; however, certain low-flow-frequency curves could not be fitted adequately for a complete dataset. Where the data points deviated significantly from the log-Pearson type III curve, a curve was drawn manually through the data points to provide better estimates of the flow characteristics. This method of graphical interpretation is illustrated in Riggs (1972, p. 5). The log-Pearson type III fitting procedure works best when the absolute value of skew of the logs is close to zero. (Skew is a measure of asymmetry of a frequency distribution.) In a few cases, calculations were not made because the N -day values varied over a large enough range that the absolute value of skew exceeded allowable limits. This situation typically occurred when extreme regulation dropped discharge for a short period of time to a fraction of the normal discharge. About 12 percent of the continuous-record stations had at least one of the three curves adjusted. Values determined from frequency analysis that were less than or equal to 0.05 ft³/s were rounded to zero; those that were between 0.05 and 0.1 ft³/s were rounded to 0.1 ft³/s.



Base from U.S. Geological Survey digital data
GCS North American 1983

Figure 4. Continuous-record streamgaging stations in Indiana.

8 Low-Flow Characteristics for Selected Streams in Indiana

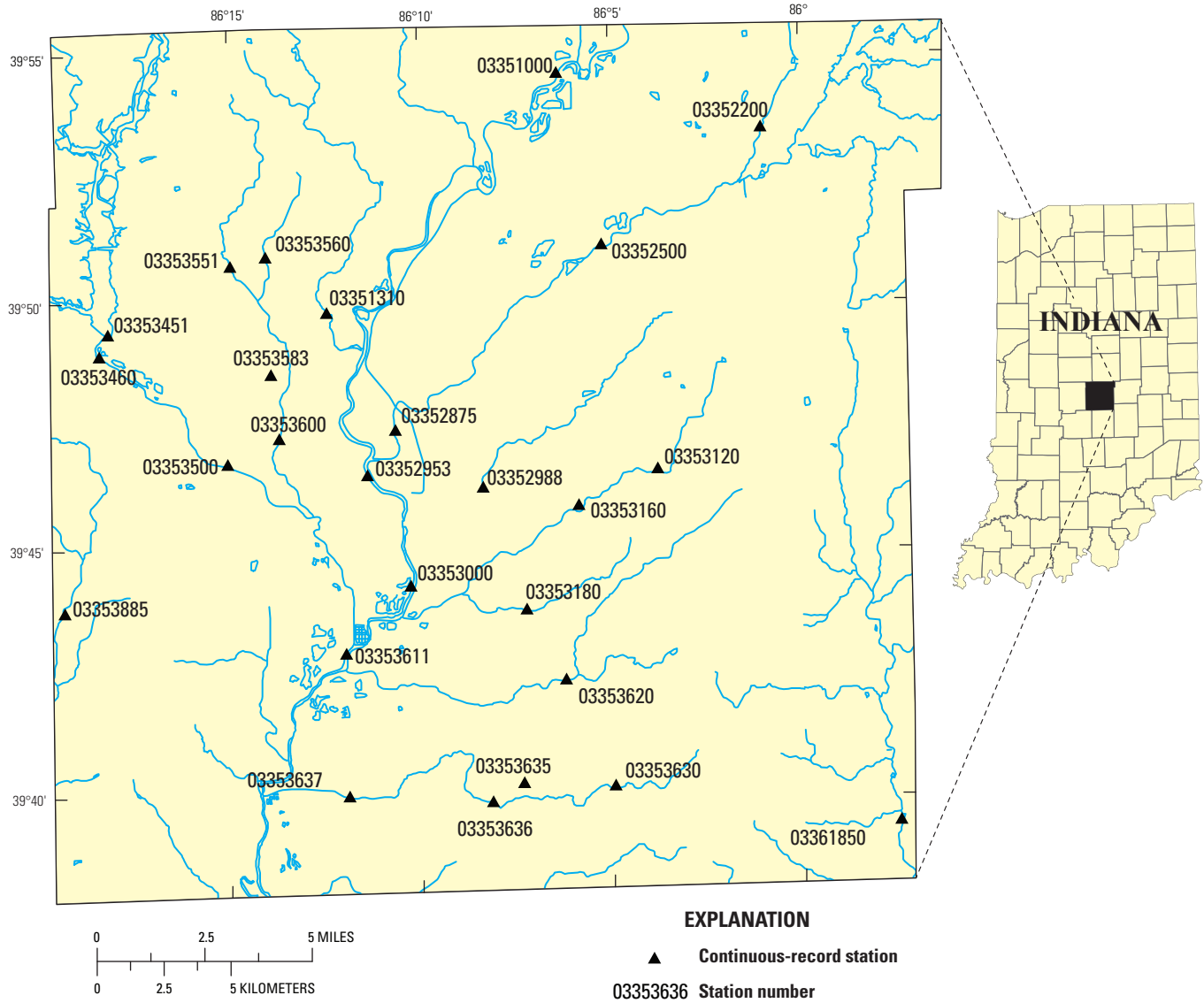


Figure 5. Continuous-record streamgaging stations in Marion County, Indiana.

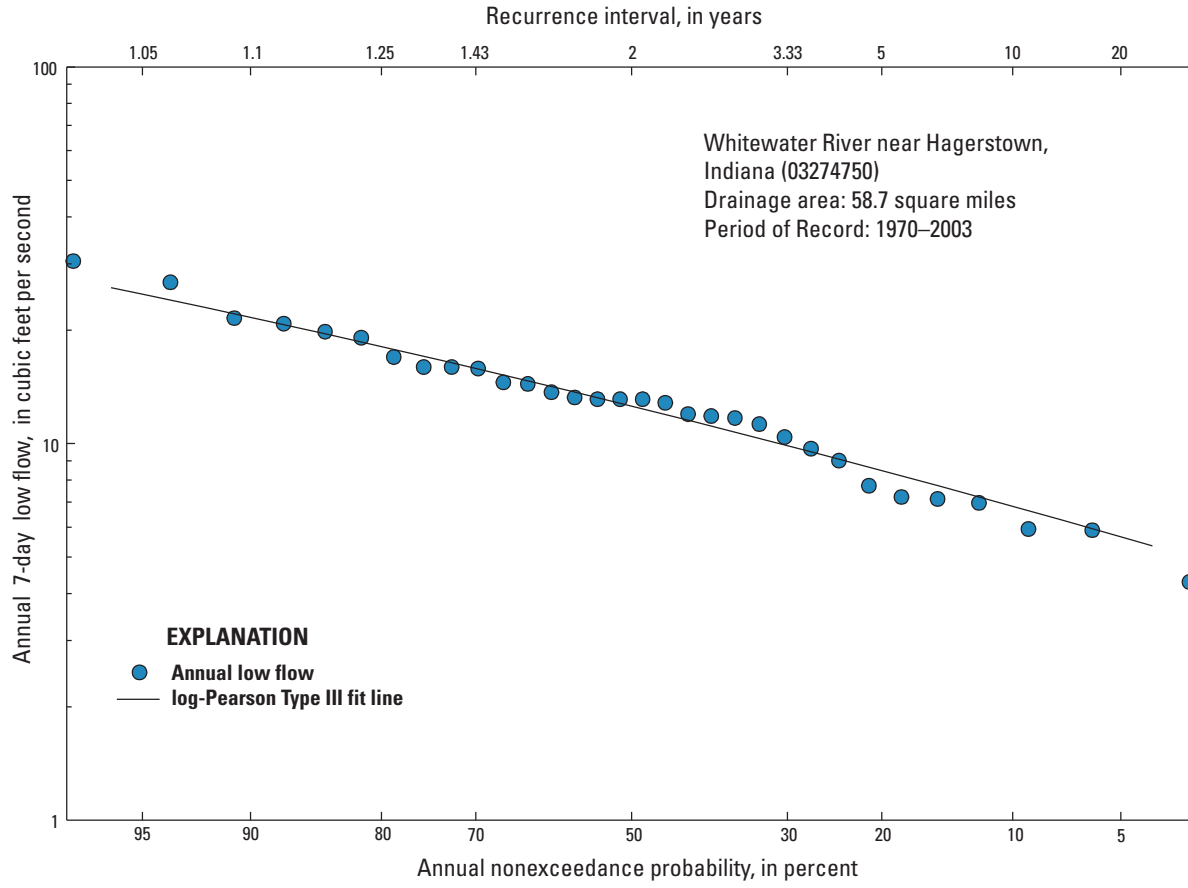


Figure 6. Low-flow frequency curve for Whitewater River near Hagerstown, Indiana.

Riggs (1972) indicated that the reliability of a low-flow frequency curve is closely related to the length of record. Ideally, the record would be representative of the long-term-flow characteristics. In general, the longer the period of record, the more reliable the low-flow estimates. The period of record is listed in table 1 for all the continuous-record stations, several of which have been discontinued. Low-flow characteristics for stations with less than 10 years of record were estimated with the methods described in the section "Partial-Record Stations." The estimated low-flow characteristics at a given station will change as the period of record changes, especially if drought years or unusually high flow years are added to the record. A comparison was made between 126 continuous-record stations (with comparable periods of record) to look at the difference between the calculated 7Q10 values of the 1996 study and this study. The 7Q10 was selected because it is the most commonly used hydrologically based frequency value. Sixty-four of the stations (52 percent) showed a positive change in the flow value, with a mean relative percent difference (RPD) of 8.8 percent. Thirty-six stations (28 percent) showed a negative change in the flow value, with a mean RPD of -15 percent. Twenty-six stations (20 percent) showed no change.

Several continuous-record stations are affected by some form of regulation or diversion, which is noted in the "Remarks" section of the affected stations in table 1. For those stations affected by some form of regulation, low-flow frequency curves are based on the longest period of homogeneous record under current conditions.

Partial-Record Stations

Partial-record stations and continuous-record stations with less than 10 years of streamflow record have insufficient data for fitting the log-Pearson distribution. Partial-record stations are ungaged sites at which measurements of base flow are made. The base flows are related to the concurrent daily mean flows of a nearby continuous-record station (index station) for which a low-flow frequency curve has been defined. Riggs (1972) indicated that, generally, 8 to 10 measurements made on different streamflow recessions and in more than 1 year should define the relation to concurrent flows at the index station. Riggs (1972) also indicated that fewer measurements may suffice if some were made during a significant drought. Ideally, the watershed for the index station should be of similar terrain, drainage area, and geologic characteristics as that for the partial-record station. With this in mind, regional physiography (fig. 1), the flow-duration ratio map of Arihood and Glatfelter (1986), and proximity were considered during the selection of index stations. The location of the partial-record stations is shown in figure 7.

Low-flow characteristics at partial-record stations were estimated by use of the mathematical technique described in Stedinger and Thomas (1985) or by the graphical correlation methods described in Riggs (1972). In both techniques, a

relation between base-flow measurements at the partial-record stations and concurrent daily flows at index stations (using logarithms of flows) is developed. The Stedinger-Thomas technique defines the relation by means of least-squares regression analysis. The regression analysis and low-flow statistics at the index station are used to estimate the desired flow characteristics at the partial-record station. One of the key assumptions of the Stedinger-Thomas technique is that the frequency factor for the index station and the frequency factor for the partial-record station are the same. It is assumed that the frequency factors will be approximately equal if the sites are in similar hydrologic settings and have similar drainage areas. This is an important assumption of the method that must be considered when choosing index stations.

The Stedinger-Thomas technique was used as the primary method for estimating low-flow characteristics at the partial-record stations because it is automated and, therefore, easily reproduced. However, hydrologic judgment is needed when selecting which measurements and concurrent daily flows to use because outliers can affect the slope of the linear regression. Ideally, it is recommended that there be at least 10 base-flow measurements at the partial-record station and that there be a linear relation between the base flows and the concurrent daily mean flows at the index station. Stedinger and Thomas (1985) recommend that the correlation coefficient exceed 0.70.

Also, the Stedinger-Thomas technique uses logarithms of flows; zero flows cannot be used.

The Stedinger-Thomas technique was originally designed to estimate only the 7Q10 but has been shown to adequately estimate other flow frequencies (1Q10 and 30Q10) (Thompson and Hoffman, 2006). The Stedinger-Thomas technique has been automated by the USGS and has the capability of using multiple index stations. The Stedinger-Thomas technique for partial-record stations is included in the regional hydrologic regression and NETWORK analysis using Generalized Least Squares (GLSNet) software (Tasker and Stedinger, 1989; Flynn and others, 1995).

The graphical correlation method (Riggs, 1972) was used to estimate low-flow characteristics for the partial-record stations with zero flows or where the relation between base flows and concurrent daily mean flows was not well defined. Base-flow measurements at the partial-record station are plotted on log-log scale against concurrent daily mean flows at the index station, and a best-fit line relating the two is drawn. Points from the frequency curve defined for the index station are transferred through the best-fit line to obtain estimates of analogous frequency points at the partial-record station. An example of an application of the graphical method is shown in figure 8.

The procedures outlined above also were used to estimate low-flow characteristics at continuous-record stations with less than 10 years of record (table 1). At some stations with a short period of record, daily values during base flow were used to augment the discharge measurements.



Base from U.S. Geological Survey digital data
GCS North American 1983

Figure 7. Partial-record streamgaging stations in Indiana.

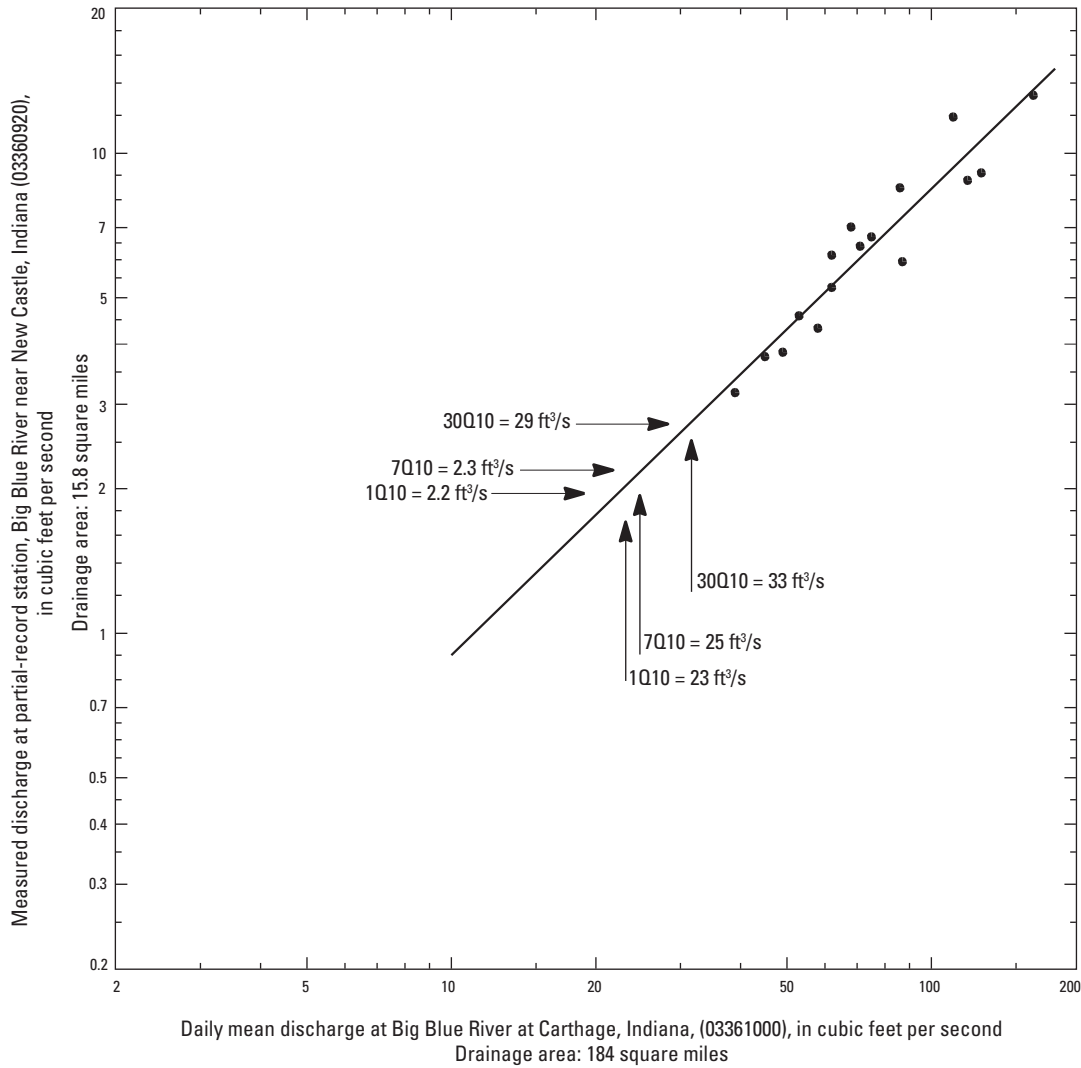


Figure 8. Graphical method of estimating low-flow characteristics at a partial-record station from known characteristics at a continuous-record station.

Low-flow characteristics were estimated at 166 partial-record stations in Indiana (table 2). The estimated flow characteristics are limited to the 1Q10, the 7Q10, and 30Q10. Estimates of 1Q10, 7Q10 and 30Q10 that were less than or equal to 0.05 ft³/s were rounded to zero; those that were between 0.05 and 0.1 ft³/s were rounded to 0.1 ft³/s.

Data Limitations at Partial-Record Stations

Most of the base-flow measurements at partial-record stations were made in the 1960s and 1970s, presumably when cooperative programs were in place that emphasized gathering low-flow data at ungaged sites. There was also a short period of renewed interest in gathering low-flow data in 1988 and 1989 as a result of drought conditions in Indiana, the effects

of which were documented by Fowler (1992). Therefore, it needs to be recognized that correlations between partial-record stations and index stations are based on data that are decades old. There is no guarantee that a linear relation (slope) between a partial-record station and an index station is the same today as it was 30, 40, or 50 years ago. Because few new base-flow measurements have been collected, estimates of low-flow statistics at partial-record stations can be updated only by using index stations that are active or were active until recently. With this in mind, a priority was placed on selecting active gages as index stations. However, at some partial-record stations, the only suitable correlation was with a gage that was discontinued sometime after base-flow measurements were made at the partial-record station.

Flow-Duration Analysis

A flow-duration curve is a cumulative frequency curve that shows the percentage of time that a specified discharge at a site was equaled or exceeded during a given period of record (Searcy, 1959). Flow-duration curves are useful for showing the flow characteristics of a stream throughout its range of discharge. The chronological sequence of flows is not a factor in the curve. This report contains flow-duration analyses for all of the continuous-record stations in Indiana (table 1). A flow-duration analysis applies only to the period of record used to develop the curve, and the flow-duration curve represents the average curve for the period of record.

Only complete years of record are used for flow-duration analysis. The years used do not need to be consecutive, but conditions in the basin (artificial storage, diversions, or other manmade influences) need to be the same. By arranging flows according to frequency of occurrence and by plotting the flow-duration curve, the combined effects of the factors influencing runoff are integrated into the curve. The shape of the curve is determined by the hydrologic and geologic characteristics of the drainage basin. The slope at the lower end of the curve is indicative of the perennial storage in the drainage basin; a gentle slope indicates a large amount of storage, and a steep slope indicates little storage. A gentle slope indicates sustained streamflow during dry periods. A curve with a steep slope indicates highly variable streamflow that is influenced by direct runoff. A flow-duration curve with a gentle slope indicates the presence of surface-water or groundwater storage; slow, constant release of the stored water tends to equalize the flow at the station (Searcy, 1959). Arihood and Glatfelter (1986) used the slope of the flow-duration curve between the 20-percent and 90-percent flow durations (F20/90) as an explanatory variable for estimating low-flow statistics at unregulated, ungaged streams, and referred to this as the flow-duration ratio.

In general, flow-duration curves with steep slopes are typical of streams in the hilly areas of southern Indiana, and curves with gentle slopes are typical of streams in the glaciated areas of northern Indiana. Figure 9 shows two flow-duration curves for streams with drainage areas of similar size, one from southern Indiana and one from northern Indiana. Despite the similar drainage areas, flow characteristics differ. Big Creek (Posey County, fig. 4) is in an area of exposed or shallow bedrock with some unconsolidated alluvial or loess deposits (Gray, 2000), and its flow is highly variable and periodically goes to zero. The steep slope of the curve for Big Creek is reflected in the flow-duration ratio of 300 (F20/90). Pigeon Creek (Steuben County, fig. 4) has a smaller range of flow that was sustained 99.5 percent of the time above 5 ft³/s. The gentler slope of the curve for Pigeon Creek is reflected in the flow-duration ratio of 7.2 (F20/90). This sustained flow can be attributed to the unconsolidated deposits in the area and contributing groundwater (Gray, 2000). Sustained flows in the Central Till Plain are generally lower than those in the north, except in localized areas of higher channel permeability. Flow-duration curves were generated with the SWSTAT software.

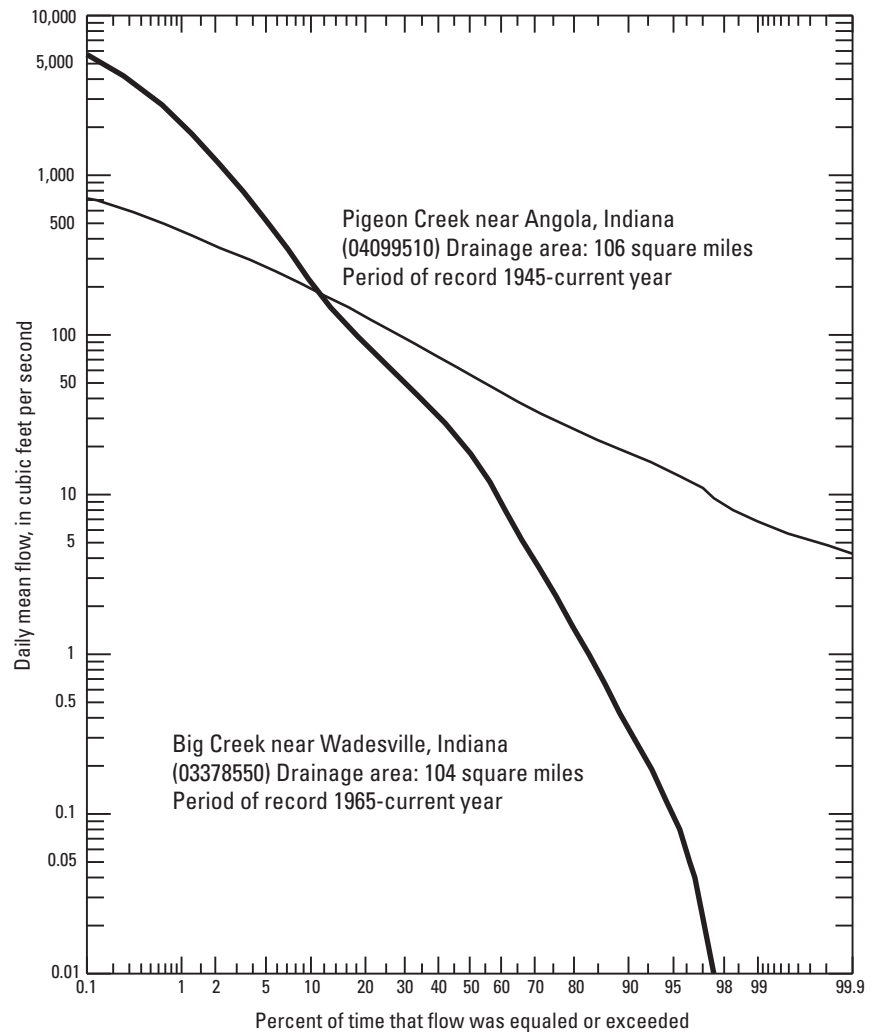


Figure 9. Flow-duration curves for a stream in southern Indiana (Big Creek) and a stream in northern Indiana (Pigeon Creek).

Harmonic Mean Flow

The harmonic mean flow statistic (Q_h) can serve as a design flow for human health criteria that are based on lifetime exposures because it can be used to calculate the average exposure concentration of a contaminant for an average contaminant loading rate (Rossman 1990a; Straub, 2001; Koltun and Whitehead, 2002). Design flows are used in water-pollution control programs to provide adequate protection against pollutant exposure periods of a given duration (Rossman, 1990b). The harmonic mean flow value was calculated for each of the 230 streamgages with at least 10 years of record from the daily mean discharge record by using a computer program based on DFLOW, a computer program developed by the U.S. Environmental Protection Agency (Rossman, 1990b). The period of record used was the same as was used for the frequency analysis (the entire record or current conditions after regulation). The exposure concentration will be greater and more harmful on days with low flow than on days with high flows. The Q_h statistic computed from a streamflow record generally is smaller than the corresponding arithmetic mean discharge, is adjusted for the days with zero flow, and gives greater weight to low daily mean discharges than high daily mean discharges. The Q_h streamflow statistic is calculated as:

$$Q_h = \left(\frac{N_{nz}}{N_t} \right) \left(N_{nz} / \sum_{i=1}^{N_{nz}} \frac{1}{Q_i} \right) \quad (6)$$

where Q_i is the mean streamflow for a given day, N_{nz} is the number of non-zero daily mean streamflows and N_t is the total number of daily mean streamflows. If no zero-flow days are in the record, the harmonic mean flow is equal to the reciprocal of the mean of the reciprocals of the daily mean streamflow data.

Harmonic mean flows at partial-record stations and continuous-record stations with less than 10 years of record were

estimated by use of linear relations between base-flow measurements at the partial-record stations and concurrent daily mean flows at the index stations. If the Stedinger-Thomas correlation technique was used, the logarithm of the harmonic mean at the index station was used in the linear equation to solve for the harmonic mean at the partial-record station. If the graphical correlation method was used, the harmonic mean at the index station was transferred to the partial-record station as shown in figure 8.

Summary

Low-flow characteristics for 272 continuous-record streamgaging stations and 166 partial-record stations in Indiana are presented in this report. A frequency analysis, flow-duration information, and the harmonic mean flow are computed for all continuous-record stations. For partial-record stations, the listed estimates are the 1-day, 7-day, and 30-day low flow at the 10-year recurrence interval and the harmonic mean flow (if sufficient data are available). Discussions of the statistical methods used are presented. The streams in Indiana are directly influenced by precipitation and geology. The average annual precipitation and temperature in Indiana increased from the period 1961–1990 to 1981–2010. Generally, streams in the glaciated northern zone of the State have higher sustained base flows than in the nonglaciated southern zone. Stream channels in northern Indiana tend to be highly permeable, and flows are more sustained because of the influence of groundwater. Sustained flows in the Central Till Plain are generally lower than those in the north, except in localized areas of higher channel permeability. The southern zone of the State has the most diverse physiography of the four zones. Throughout much of southern Indiana, however, there is little sustained base flow. In some areas of alluvial deposits, sustained flows are increased but are generally lowest in the south.

References Cited

- Arihood, L.D., and Glatfelter, D.R., 1986, Method for estimating low-flow characteristics of ungagged streams in Indiana: U.S. Geological Survey Open-File Report 86–323, 32 p.
- Arvin, D.V., 1989, Statistical summary of streamflow data for Indiana: U.S. Geological Survey Open-File Report 89–62, 964 p.
- Flynn, K.M., Hummel, P.R., Lumb, A.M., and Kittle, J.L., Jr., 1995, User's manual for ANNIE, Version 2, a computer program for interactive hydrologic data management: U.S. Geological Survey Water-Resources Investigations Report 95–4085, 211 p., <http://water.usgs.gov/software/ANNIE/code/doc/annie.pdf>.
- Fowler, K.K., 1992, Description and effects of 1988 drought on ground-water levels, streamflow, and reservoir levels in Indiana: U.S. Geological Survey Water-Resources Investigations Report 91–4100, 91 p.
- Fowler, K.K., and Wilson, J.T., 1996, Low-flow characteristics of Indiana streams: U.S. Geological Survey Water-Resources Investigations Report 96–4128, 313 p.
- Gray, H.H., 2000, Physiographic divisions of Indiana: Indiana Geological Survey Special Report 61, Indiana University, 15 p., 1 pl.
- Hoggatt, R.E., 1962, Low-flow characteristics of Indiana streams: Indiana Stream Pollution Control Board, 171 p.
- Hutchison, N.E., comp., 1975 (revised 1984), WATSTORE user's guide, Volume 1, National Water Data Storage and Retrieval System: U.S. Geological Survey Open-File Report 75–426 [variously paged].
- Koltun, G.F., and Whitehead, M.T., 2002, Techniques for estimating selected streamflow characteristics of rural, unregulated streams in Ohio: U.S. Geological Survey Water-Resources Investigations Report 02–4068, 50 p. (Also available at <http://oh.water.usgs.gov/reports/wrir/wrir02-4068.pdf>.)
- Lumb, A.M., Kittle, J.L., Jr., and Flynn, K.M., 1990, User's manual for ANNIE, a computer program for interactive hydrologic analyses and data management: U.S. Geological Survey Water-Resources Investigations Report 89–4080, 236 p.
- National Oceanic and Atmospheric Administration, 2014, Climatological data, annual summary, Indiana, 2010: Asheville, N.C., National Climatic Data Center.
- Riggs, H.C., 1968, Frequency curves: U.S. Geological Survey Techniques of Water-Resources Investigations, book 4, chap. A2, 15 p.
- Riggs, H.C., 1972, Low-flow investigations: U.S. Geological Survey Techniques of Water-Resources Investigations, book 4, chap. B1, 18 p.
- Rohne, P.B., Jr., 1972, Low-flow characteristics of Indiana streams: U.S. Geological Survey Open-File Report [unnumbered], 322 p.
- Rossman, L.A., 1990a, Design stream flows based on harmonic means: *Journal of Hydraulic Engineering*, v. 116, no. 7, p. 946–950.
- Rossman, L.A., 1990b, DFLOW user's manual: Cincinnati, Ohio, U.S. Environmental Protection Agency, Risk Reduction Engineering Laboratory, 26 p.
- Scheeringa, K., 2002, About Indiana climate: Indiana State Climate Office Web page, accessed October 28, 2014, at <http://iclimate.org/narrative.asp>.
- Searcy, J.K., 1959, Flow-duration curves: U.S. Geological Survey Water-Supply Paper 1542–A, 33 p.
- Stedinger, J.R., and Thomas, W.O., Jr., 1985, Low-flow frequency estimation using base-flow measurements: U.S. Geological Survey Open-File Report 85–95, 22 p.
- Stewart, J.A., 1983, Low-flow characteristics of Indiana streams: U.S. Geological Survey Open-File Report 82–1007, 277 p.
- Straub, D.E., 2001, Low-flow characteristics of streams in Ohio through water year 1997: U.S. Geological Survey Water-Resources Investigations Report 01–4140, 415 p. (Also available at <http://oh.water.usgs.gov/reports/wrir/wrir01-4140.pdf>.)
- Tasker, G.D., and Stedinger, J.R., 1989, An operational GLS model for hydrologic regression: *Journal of Hydrology*, v. 111, p. 361–375.
- Thompson, R.E., and Hoffman, S.A., 2006, Selected streamflow statistics and regression equations for predicting statistics at stream locations in Monroe County, Pennsylvania: U.S. Geological Survey Scientific Investigations Report 2006–5244, 45 p.
- U.S. Environmental Protection Agency, 2012a, National Pollutant Discharge Elimination System Compliance Monitoring: U.S. Environmental Protection Agency Web page, accessed October 28, 2014, at <http://www.epa.gov/compliance/monitoring/programs/cwa/npdes.html>.
- U.S. Environmental Protection Agency, 2012b, Information Concerning 2012 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions: U.S. Environmental Protection Agency Web page, accessed October 28, 2014, at http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/ir_memo_2012.cfm.

Table 1

1. Low-flow characteristics for continuous-record streamgaging stations in Indiana.

Tables 1 and 2 in Excel file format are available at <http://dx.doi.org/10.3133/sir20145242>.

Table 1. Low-flow characteristics for continuous-record streamgaging stations in Indiana.

The following data sheets list station descriptions and low-flow characteristics for 230 continuous-record stations in Indiana with at least 10 years of record and an additional 42 stations with less than 10 years of record. Low-flow characteristics are based on available data through September 2011, except for selected short-term continuous-record stations, where data extending through September 2013 were used. The information includes low-flow-frequency analysis, flow-duration analysis, and harmonic mean flows (human health design flow) for the continuous-record stations. Design flows are used in water-pollution control programs to provide adequate protection against pollutant exposure periods of a given duration (Rossman, 1990b). Each continuous-record station is linked to the USGS NWIS Web interface. For those stations affected by some form of regulation, low-flow frequency curves are based on the longest period of homogeneous record under current conditions.

Locational coordinates are given in degree-minute-second format. In addition to standard abbreviations for compass directions, the following abbreviations are used throughout the data sheets:

ft	feet
ft ³ /s	cubic feet per second
Lat	latitude
long	longitude
mi	mile
mi ²	square mile
R.	range
sec.	section
T.	township

Great Miami River Basin

03274650 WHITEWATER RIVER NEAR ECONOMY, IN

Location.— Lat 40°00'15", long 85°06'56" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.19, T.18 N., R.13 E., Wayne County, IN, Hydrologic Unit 05080003, on right bank 15 ft downstream from bridge on Wayne County Line Road, 1.7 mi upstream from Little Creek, 2.4 mi northwest of Economy, and at mile 91.9.

Drainage area.— 10.4 mi².

Period of record.— October 1970 to current year.

Average discharge.— 11.9 ft³/s.

Minimum daily discharge.— 0.0 ft³/s

Human health (harmonic mean) design flow.— 1.6 ft³/s

Remarks.— None.

Magnitude and frequency of annual low streamflow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.3	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	5.9
98	0.3	30	8.4
95	0.5	20	14
90	0.7	10	27
80	1.2	5	46
70	1.9	2	92
60	2.9	1	143
50	4.3		

Great Miami River Basin

03274750 WHITEWATER RIVER NEAR HAGERSTOWN, IN

Location.— Lat 39°52'25", long 85°09'47" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.3, T.16 N., R.12 E., Wayne County, IN, Hydrologic Unit 05080003, on left bank at downstream side of bridge on Jerry Meyers Road, 1.0 mi upstream from Pronghorn Run, 1.5 mi north of Interstate 70, 2.0 mi downstream from Nettle Creek, 2.6 mi south of Hagerstown, and at mile 84.9.

Drainage area.— 58.7 mi².

Period of record.— October 1970 to 2003.

Average discharge.— 69.4 ft³/s.

Minimum daily discharge.— 3.9 ft³/s

Human health (harmonic mean) design flow.— 28 ft³/s

Remarks.— None.

Magnitude and frequency of annual low streamflow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.2	6.8	8.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.9	40	48
98	8.4	30	60
95	12	20	79
90	15	10	129
80	19	5	222
70	24	2	451
60	31	1	686
50	38		

Great Miami River Basin

03274950 LITTLE WILLIAMS CREEK AT CONNERSVILLE, IN

Location.— Lat 39°18'16", long 85°10'20" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.27, T.14 N., R.12 E., Fayette County, IN, Hydrologic Unit 05080003, on downstream left bank wingwall of bridge on State Highway 44, 1.0 mi west of Connersville, and 2.6 mi upstream from mouth.

Drainage area.— 9.16 mi².

Period of record.— September 1968 to 1991.

Average discharge.— 9.90 ft³/s.

Minimum daily discharge.— 0.0 ft³/s

Human health (harmonic mean) design flow.— 2.0 ft³/s

Remarks.— None.

Magnitude and frequency of annual low streamflow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.3	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	6.6
98	0.4	30	9.0
95	0.7	20	13
90	1.0	10	19
80	1.6	5	31
70	2.5	2	64
60	3.7	1	107
50	4.9		

Great Miami River Basin

03275000 WHITEWATER RIVER NEAR ALPINE, IN

Location.— Lat 39°34'46", long 85°09'29" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.14, T.13 N., R.12 E., Fayette County, IN, Hydrologic Unit 05080003, on right bank 1117 ft upstream from Wilson Creek, 5.1 mi upstream from Bear Creek, 0.4 mi upstream from bridge on County Road 480 South, 2.0 mi northeast of Alpine, and at mile 54.8.

Drainage area.— 522 mi².

Period of record.— October 1928 to current year. Prior to October 1936, published as West Fork Whitewater River near Alpine.

Average discharge.— 589 ft³/s.

Minimum daily discharge.— 30 ft³/s

Human health (harmonic mean) design flow.— 203 ft³/s

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
48	54	62

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	53	40	382
98	59	30	512
95	73	20	716
90	91	10	1180
80	123	5	1970
70	164	2	3760
60	219	1	5700
50	291		

Great Miami River Basin

03275500 EAST FORK WHITEWATER RIVER AT RICHMOND, IN

Location.— Lat 39°48'24", long 84°54'26" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.8, T.13 N., R.1 W., Wayne County, IN, Hydrologic Unit 05080003, on left bank 50 ft downstream from highway bridge, 0.8 mi south of Richmond, 1.5 mi upstream from Short Creek, and at mi 33.4.

Drainage area.— 121 mi².

Period of record.— April 1949 to September 1978.

Average discharge.— 115 ft³/s.

Minimum daily discharge.— 1.2 ft³/s

Human health (harmonic mean) design flow.— 28 ft³/s

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.7	3.7	6.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	5.8	40	65
98	7.3	30	90
95	9.4	20	132
90	13	10	236
80	18	5	394
70	24	2	744
60	33	1	1260
50	47		

Great Miami River Basin

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

Location.— Lat 39°43'57", long 84°57'35" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.2, T.12 N., R.2 W., Wayne County, IN, Hydrologic Unit 05080003, 15 ft downstream of bridge on county road at Abington, 3 mi downstream from Elkhorn Creek, 8 mi southwest of Richmond, and at mile 26.7.

Drainage area.— 200 mi².

Period of record.— October 1965 to current year.

Average discharge.— 240 ft³/s.

Minimum daily discharge.— 10 ft³/s

Human health (harmonic mean) design flow.— 76 ft³/s

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
14	16	20

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	18	40	156
98	21	30	205
95	26	20	282
90	33	10	475
80	46	5	782
70	64	2	1490
60	90	1	2480
50	119		

Great Miami River Basin

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

Location.— Lat 39°26'02", long 85°00'12" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.20, T.9 N., R.2 W., Franklin County, IN, Hydrologic Unit 05080003, on right bank 100 ft upstream from bridge on State Highway 101, at Brookville, 0.4 mi downstream from Brookville Lake, and 1.8 mi upstream from mouth.

Drainage area.— 380 mi².

Period of record.— March 1954 to September 1981 (discharge). October 1981 to September 2001 (discharge provided by U.S. Army Corps of Engineers).

Average discharge.— 413 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 102 ft³/s.

Remarks.— Flow regulated by the U.S. Army Corps of Engineers from Brookville Lake since January 1974. Low-flow statistics are calculated for the regulated period, 1974 to 2001.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0	19	27

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	23	40	353
98	28	30	443
95	34	20	660
90	42	10	1060
80	55	5	1750
70	80	2	2700
60	142	1	3470
50	230		

Great Miami River Basin

03276500 WHITEWATER RIVER AT BROOKVILLE, IN

Location.— Lat 39°24'24", long 85°00'46" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.32, T.9 N., R.2 W., Franklin County, IN, Hydrologic Unit 05080003, on right bank at downstream side of highway bridge, 0.3 mi downstream from East Fork Whitewater River, 1.1 mi south of Brookville, and at mile 29.3.

Drainage area.— 1,224 mi².

Period of record.— June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year.

Average discharge.— 1,370 ft³/s.

Minimum daily discharge.— 60 ft³/s.

Human health (harmonic mean) design flow.— 528 ft³/s.

Remarks.— Flow regulated by the U.S. Army Corps of Engineers from Brookville Lake since January 1974. Low-flow statistics are calculated for the regulated period, 1974 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
100	108	119

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	113	40	1070
98	136	30	1480
95	171	20	2240
90	215	10	3670
80	328	5	5190
70	473	2	7660
60	626	1	10500
50	801		

Ohio River Basin

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IN

Location.— Lat 39°01'47", long 85°02'17", in SW1/4NW1/4 sec.7, T.4 N., R.2 W., Dearborn County, Hydrologic Unit 05090203, on left downstream abutment of bridge on county road at Dillsboro Station, 1.2 mi northeast of Dillsboro, and 1.5 mi downstream from Whitaker Creek.

Drainage area.— 38.1 mi².

Period of record.— July 1961 to September 1993.

Average discharge.— 43.3 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	14
98	0.0	30	24
95	0.0	20	40
90	0.1	10	86
80	0.7	5	192
70	2.2	2	441
60	4.8	1	664
50	8.6		

Ohio River Basin

03277000 LAUGHERY CREEK NEAR FARMERS RETREAT, IN

Location.— Lat 38°57'08", long 85°04'15", in NW ¼ SE ¼ sec.2, T.4 N., R.3 W., Ohio County, IN, on right bank 2.4 mi southeast of Farmers Retreat, and 3.8 mi downstream from Bear Creek.

Drainage area.— 248 mi².

Period of record.— October 1940 to September 1973.

Average discharge.— 272 ft³/s.

Minimum daily discharge.— No flow at times most years.

Human health (harmonic mean) design flow.— 2.7 ft³/s

Remarks.— Some regulation by mill upstream from station.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	89
98	0.0	30	160
95	0.2	20	271
90	1.0	10	581
80	4.9	5	1240
70	14	2	2670
60	29	1	3930
50	52		

Ohio River Basin

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN

Location.— Lat 38°52'41", long 85°15'26" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.13, T.5 N., R.11 E., Jefferson County, IN, Hydrologic Unit 05140101, on downstream end of left pier of bridge on State Highway 62, 1,500 ft upstream from Wilson Fork, 2.0 mi northeast of Canaan, and at mile 16.7.

Drainage area.— 27.5 mi².

Period of record.— October 1969 to current year.

Average discharge.— 39.2 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.5 ft³/s.

Remarks.— Some regulation by mill upstream from station.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	16
98	0.0	30	24
95	0.0	20	39
90	0.1	10	84
80	0.9	5	173
70	2.8	2	377
60	5.6	1	571
50	10		

Ohio River Basin

03294000 SILVER CREEK NEAR SELLERSBURG, IN

Location.— Lat 38°22'14", long 85°43'35" referenced to North American Datum of 1927, Clark County, IN, Hydrologic Unit 05140101, in lot 68, Clark Military Grant, on downstream side of Straws Mill bridge on Watson Road, 0.3 mi downstream from Pleasant Run, 2.4 mi southeast of Sellersburg, and 12.2 mi upstream from mouth.

Drainage area.— 189 mi².

Period of record.— October 1954 to current year.

Average discharge.— 234 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 5.1 ft³/s.

Remarks.— Some regulation by Deam Lake.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.1	0.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	100
98	0.5	30	158
95	1.3	20	255
90	3.1	10	515
80	8.1	5	982
70	17	2	2170
60	33	1	3340
50	59		

Ohio River Basin

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN

Location.— Lat 38°07'13", long 86°05'17" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.32, T.4 S., R.4 E., Harrison County, IN, Hydrologic Unit 05140104, on right bank at downstream side of bridge on State Highway 337, 0.6 mi downstream from South Fork Buck Creek, 3.6 mi southwest of New Middletown, and 14.6 mi upstream from mouth.

Drainage area.— 65.2 mi², of which 28.1 mi² does not contribute directly to surface runoff.

Period of record.— October 1969 to current year.

Average discharge.— 79.9 ft³/s.

Minimum daily discharge.— 0.52 ft³/s.

Human health (harmonic mean) design flow.— 8.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.7	0.8	1.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.9	40	43
98	1.3	30	62
95	2.1	20	96
90	3.3	10	180
80	6.0	5	302
70	11	2	577
60	18	1	888
50	29		

Ohio River Basin

03302300 LITTLE INDIAN CREEK NEAR GALENA, IN

Location.— Lat 38°19'19", long 85°55'53", in NE ¼ SW ¼ sec.23, T.2 S., R.5 E., Floyd County, IN, Hydrologic Unit 05140104, on right bank at downstream side of county road bridge, 2 mi south of Galena, 3.6 mi upstream from mouth, and 7.0 mi northwest of New Albany.

Drainage area.— 16.1 mi².

Period of record.— October 1968 to October 2003.

Average discharge.— 22.8 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	10.3
98	0.0	30	15.9
95	0.1	20	25
90	0.2	10	46
80	0.7	5	87
70	1.7	2	187
60	3.3	1	307
50	6.1		

Ohio River Basin

03302500 INDIAN CREEK NEAR CORYDON, IN

Location.— Lat 38°16'35", long 86°06'35", in SW ¼ SE ¼ sec.6, T.3 S., R.4 E., Harrison County, IN, Hydrologic Unit 05140104, on upstream side of bridge on State Highway 335, 0.6 mi upstream from Raccoon Branch, 4.5 mi north of Corydon, and at mile 33.7.

Drainage area.— 129 mi², of which 10.6 mi² does not contribute directly to surface runoff.

Period of record.— October 1943 to September 1993.

Average discharge.— 166 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 3.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	73
98	0.2	30	117
95	0.7	20	187
90	2.0	10	373
80	6.6	5	664
70	14	2	1350
60	26	1	2150
50	44		

Ohio River Basin

03302680 WEST FORK BLUE RIVER AT SALEM, IN

Location.— Lat 38°36'19", long 86°05'40" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.17, T.2 N., R.4 E., Washington County, IN, Hydrologic Unit 05140104, on left bank at downstream side of bridge on East Market Street, 0.35 mi east of County Court House in Salem, 6.0 mi upstream from Hoggatt Branch, and 6.9 mi upstream from mouth.

Drainage area.— 19.0 mi².

Period of record.— July 1970 to current year.

Average discharge.— 26.2 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.8 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	13
98	0.1	30	19
95	0.2	20	30
90	0.4	10	61
80	1.3	5	104
70	2.8	2	205
60	4.9	1	316
50	7.9		

Ohio River Basin

03302800 BLUE RIVER AT FREDERICKSBURG, IN

Location.— Lat 38°26'02", long 86°11'30" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.16, T.1 S., R.3 E., Washington County, IN, Hydrologic Unit 05140104, on downstream side of bridge on U.S. Highway 150 at Fredericksburg, 0.5 mi downstream from South Fork Blue River, and at mile 57.1.

Drainage area.— 283 mi², of which 76.9 mi² does not contribute directly to runoff.

Period of record.— July 1968 to current year.

Average discharge.— 347 ft³/s.

Minimum daily discharge.— 1.8 ft³/s.

Human health (harmonic mean) design flow.— 38 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.8	3.4	4.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.4	40	189
98	5.9	30	279
95	9.0	20	434
90	14	10	794
80	28	5	1270
70	48	2	2470
60	78	1	3990
50	124		

Ohio River Basin

03302849 WHISKEY RUN AT MARENGO, IN

Location.— Lat 38°22'32", long 86°20'41" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.6, T.2 S., R.2 E., Crawford County, IN, Hydrologic Unit 05140104, on left (north) bank approximately 100 ft upstream from bridge and the intersection of North Main Street and North Water Street in Marengo, known as Old Town, 0.1 mi northwest of the intersection of State Highway 64 and North Main Street in Marengo, and 0.6 mi west of the intersection of State Highway 64 and State Highway 66.

Drainage area.— 7.02 mi².

Period of record.— October 1968 to September 1993.

Average discharge.— 5.27 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	1.0
98	0.0	30	2.2
95	0.0	20	4.0
90	0.0	10	9.6
80	0.0	5	22
70	0.1	2	53
60	0.2	1	80
50	0.3		

03303000 BLUE RIVER NEAR WHITE CLOUD, IN

Location.— Lat 38°14'15", long 86°13'42" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.19, T.3 S., R.3 E., Harrison County, IN, Hydrologic Unit 05140104, on left bank 400 ft downstream from Spring Creek, 600 ft upstream from bridge on Interstate 64, 0.2 mi upstream from bridge on State Highway 62, 0.8 mi north of White Cloud, and at mile 14.7.

Drainage area.— 476 mi², of which 192 mi² does not contribute directly to surface runoff.

Period of record.— April 1931 to current year.

Average discharge.— 677 ft³/s.

Minimum daily discharge.— 9.4 ft³/s.

Human health (harmonic mean) design flow.— 109 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
13	14	19

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	17	40	407
98	20	30	578
95	27	20	861
90	39	10	1510
80	69	5	2480
70	113	2	4710
60	179	1	7140
50	277		

Ohio River Basin

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

Location.— Lat 38°08'20", long 86°43'16" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.27, T.4 S., R.3 W., Perry County, IN, Hydrologic Unit 05140201, on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 mi downstream from Coon Branch, 6.0 mi upstream from Sulphur Fork Creek, and at mile 14.1.

Drainage area.— 39.8 mi².

Period of record.— August 1961 to current year.

Average discharge.— 58 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.9 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	28
98	0.0	30	44
95	0.0	20	73
90	0.3	10	156
80	1.5	5	303
70	3.9	2	472
60	8.4	1	589
50	17		

Ohio River Basin

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

Location.— Lat 38°07'05", long 86°53'24", in SW ¼ SE ¼ sec.31, T.4 S., R.4 W., Spencer County, IN, Hydrologic Unit 05140201, on right bank at upstream side of bridge on county road, 1.3 mi east of Santa Claus Post Office, and 1.8 mi upstream from unnamed right-bank tributary.

Drainage area.— 7.86 mi².

Period of record.— October 1969 to October 2003.

Average discharge.— 11.3 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	3.0
98	0.0	30	5.2
95	0.0	20	9.8
90	0.0	10	23
80	0.1	5	49
70	0.3	2	115
60	0.9	1	180
50	1.8		

Ohio River Basin

03322011 PIGEON CREEK NEAR FORT BRANCH, IN

Location.— Lat 38°15'08", long 87°31'11", in NW ¼ SW ¼ sec.15, T.3 S., R.10 W., Gibson County, IN, Hydrologic Unit 05140202, on right bank 20 ft downstream from bridge on State Highway 168, 1.1 mi upstream from West Fork Pigeon Creek and 2.6 mi east of intersection of U.S. Highway 41 at Fort Branch.

Drainage area.— 35.4 mi².

Period of record.— October 1986 to October 2001.

Average discharge.— 38.0 ft³/s.

Minimum daily discharge.— 0.28 ft³/s.

Human health (harmonic mean) design flow.— 3.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.5	0.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.6	40	10
98	0.7	30	15
95	1.0	20	24
90	1.4	10	54
80	2.2	5	147
70	3.4	2	436
60	5.1	1	768
50	7.3		

Wabash River Basin

03322500 WABASH RIVER NEAR NEW CORYDON, IN

Location.— Lat 40°33'50", long 84°48'10", in NE ¼ SE ¼ sec. 3, T.24 N., R.15 E., Jay County, IN, Hydrologic Unit 05120101, on left bank 10 ft downstream from county bridge on Indiana-Ohio State line road, 2 mi east of New Corydon, 2.8 mi downstream from Beaver Creek, and at mile 466.0.

Drainage area.— 262 mi².

Period of record.— April 1951 to September 1988.

Average discharge.— 200 ft³/s.

Minimum daily discharge.— 0.80 ft³/s.

Human health (harmonic mean) design flow.— 19 ft³/s.

Remarks.— Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canals.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.9	2.3	4.1

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.6	40	82
98	4.3	30	145
95	5.6	20	258
90	7.3	10	478
80	11	5	908
70	16	2	1710
60	27	1	2350
50	47		

Wabash River Basin

03322900 WABASH RIVER AT LINN GROVE, IN

Location.— Lat 40°39'22", long 85°01'58" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.34, T.26 N., R.13 E., Adams County, IN, Hydrologic Unit 05120101, (from USGS topographic quadrangle LINN GROVE, IN), on right bank 10 ft downstream from bridge on State Highway 218, 800 ft downstream from Shoemaker Ditch, 0.8 mi north of Linn Grove, and 2.2 mi upstream from Rice Ditch, 0.8 mi east of junction of State Highways 116 and 218, and 0.8 mi north of Linn Grove.

Drainage area.— 453 mi².

Period of record.— September 1964 to current year.

Average discharge.— 433 ft³/s.

Minimum daily discharge.— 4.0 ft³/s.

Human health (harmonic mean) design flow.— 40 ft³/s.

Remarks.— Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canals.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.9	5.7	7.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.5	40	196
98	7.3	30	303
95	9.7	20	544
90	13	10	1280
80	23	5	2080
70	40	2	3270
60	71	1	4230
50	124		

Wabash River Basin

03322985 WABASH RIVER NEAR BLUFFTON, IN

Location.— Lat 40°43'41", long 85°08'12" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.11, T.26 N., R.12 E., Wells County, IN, Hydrologic Unit 05120101, on left bank 300 ft downstream of bridge on County Road 450 East (State Highway 201), 0.95 mi south of State Highway 124, 2.5 mi southeast of Bluffton, and at mile 436.6.

Drainage area.— 508 mi².

Period of record.— September 2001 to current year.

Average discharge.— 631 ft³/s.

Minimum daily discharge.— 5.9 ft³/s.

Human health (harmonic mean) design flow.— 61 ft³/s.

Remarks.— Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canals.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.0	6.8	9.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	9.7	40	290
98	12	30	488
95	14	20	973
90	20	10	1950
80	35	5	2920
70	62	2	4110
60	124	1	5200
50	196		

Wabash River Basin

03323000 WABASH RIVER AT BLUFFTON, IN

Location.— Lat 40°44'30", long 85°10'19", in NW ¼ NE ¼ sec.4, T.26 N., R.12 E., Wells County, IN, Hydrologic Unit 05120101, on downstream side of left abutment of Main Street (State Highway 1) bridge in Bluffton, 2 mi downstream from Sixmile Creek, and at mile 434.5.

Drainage area.— 532 mi².

Period of record.— October 1930 to September 1971.

Average discharge.— 387 ft³/s.

Minimum daily discharge.— 4.0 ft³/s.

Human health (harmonic mean) design flow.— 32 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.6	5.1	6.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.3	40	129
98	7.0	30	233
95	8.8	20	432
90	12	10	1180
80	18	5	2090
70	28	2	3230
60	47	1	4080
50	77		

Wabash River Basin

03323500 WABASH RIVER AT HUNTINGTON, IN

Location.— Lat 40°51'20", long 85°29'53" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.27, T.28 N., R.9 E., Huntington County, IN, Hydrologic Unit 05120101, on right bank at the Huntington Water and Light Plant, 2 mi south of Huntington, 2.4 mi downstream from Huntington Lake, 3.2 mi upstream from Little River, and at mile 409.0.

Drainage area.— 721 mi².

Period of record.— January 1951 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers).

Average discharge.— 604 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 101 ft³/s.

Remarks.— Flow regulated by Huntington Lake. Low-flow statistics are calculated for the regulated period, 1969 to 2001. Daily discharge computed from relation among discharge, head, and gate openings for Huntington Lake beginning Oct. 1, 1974.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
8.2	16	23

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	19	40	280
98	22	30	457
95	27	20	912
90	42	10	2040
80	68	5	3050
70	93	2	3930
60	128	1	4590
50	195		

Wabash River Basin

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

Location.— Lat 40°54'14", long 85°24'22" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.9, T.28 N., R.10 E., Huntington County, IN, Hydrologic Unit 05120101, on right bank on upstream side of former highway bridge, 0.5 mi upstream of County Road 200 East bridge, 5 mi east of Huntington, and at mile 7.5.

Drainage area.— 263 mi².

Period of record.— October 1943 to current year. Prior to January 1944, monthly discharge only.

Average discharge.— 247 ft³/s.

Minimum daily discharge.— 1.1 ft³/s.

Human health (harmonic mean) design flow.— 37 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.4	5.4	7.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.2	40	103
98	7.5	30	153
95	11	20	271
90	16	10	628
80	25	5	1240
70	35	2	2160
60	51	1	2750
50	73		

Wabash River Basin

03324200 SALAMONIE RIVER AT PORTLAND, IN

Location.— Lat 40°25'40", long 85°02'20", in NE ¼ SE ¼ sec.23, T.23 N., R.13 E., Jay County, IN, Hydrologic Unit 05120102, on right bank at downstream side of county road bridge, 2.3 mi downstream from Butternut Creek, 3.2 mi west of Portland, 3.7 mi downstream from Little Salamonie River, and at mile 70.5.

Drainage area.— 85.6 mi².

Period of record.— September 1959 to 1993.

Average discharge.— 75.3 ft³/s.

Minimum daily discharge.— 0.40 ft³/s.

Human health (harmonic mean) design flow.— 6.1 ft³/s.

Remarks.— Natural flow partially affected by effluent.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.6	1.0	1.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.2	40	20
98	1.4	30	32
95	1.8	20	61
90	2.3	10	156
80	3.5	5	356
70	5.3	2	817
60	8.1	1	1220
50	13		

Wabash River Basin

03324300 SALAMONIE RIVER NEAR WARREN, IN

Location.— Lat 40°42'45", long 85°27'13" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.12, T.26 N., R.9 E., Huntington County, IN, Hydrologic Unit 05120102, on right bank at downstream side of bridge on County Road 800 South, 0.4 mi downstream from Detamore Ditch, 0.4 mi downstream from Interstate 69, 0.8 mi upstream from concrete and stone dam, 2.4 mi northwest of Warren, and at mile 30.0.

Drainage area.— 425 mi².

Period of record.— March 1957 to current year.

Average discharge.— 418 ft³/s.

Minimum daily discharge.— 0.09 ft³/s.

Human health (harmonic mean) design flow.— 50 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.8	8.1	10

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	9.4	40	138
98	11	30	219
95	14	20	408
90	18	10	1070
80	31	5	2250
70	48	2	3870
60	69	1	4980
50	96		

Wabash River Basin

03324500 SALAMONIE RIVER AT DORA, IN

Location.— Lat 40°48'42", long 85°41'02" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.12, T.27 N., R.7 E., Wabash County, IN, Hydrologic Unit 05120102, on right bank, 0.4 mi downstream from Salamonie Lake, 1.5 mi northwest of Dora, and 3.0 mi upstream from mouth.

Drainage area.— 557 mi².

Period of record.— November 1923 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers).

Average discharge.— 515 ft³/s.

Minimum daily discharge.— 0.70 ft³/s.

Human health (harmonic mean) design flow.— 82 ft³/s.

Remarks.— Flow regulated by Salamonie Lake since April 1967. Low-flow statistics are calculated for the regulated period 1967 to 2001 and include periods of extreme regulation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
11	16	18

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	17	40	340
98	20	30	470
95	22	20	758
90	25	10	1590
80	47	5	2470
70	88	2	3570
60	136	1	4310
50	229		

Wabash River Basin

03325000 WABASH RIVER AT WABASH, IN

Location.— Lat 40°47'27", long 85°49'13" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.14, T.27 N., R.6 E., Wabash County, IN, Hydrologic Unit 05120101, on right bank 200 ft downstream of Wabash Street bridge in Wabash, 500 ft north of intersection of State Highway 15 and Columbus Street, 0.5 mi downstream from railroad bridge, 7 mi downstream from Salamonie River, 12 mi upstream from Mississinewa River, and at mi 387.2.

Drainage area.— 1,768 mi².

Period of record.— August 1923 to current year.

Average discharge.— 1,610 ft³/s.

Minimum daily discharge.— 17 ft³/s.

Human health (harmonic mean) design flow.— 425 ft³/s.

Remarks.— Flow regulated by Salamonie Lake beginning April 1967, Huntington Lake beginning October 1976, and Grand Lake Reservoir. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
58	64	80

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	74	40	1050
98	85	30	1830
95	116	20	3510
90	165	10	5060
80	282	5	6390
70	415	2	7860
60	544	1	8780
50	718		

Wabash River Basin

03325311 LITTLE MISSISSINEWA RIVER AT UNION CITY, IN

Location.— Lat 40°11'46", long 84°49'45" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.26, T.18 N., R.1 W., Randolph County, IN, Hydrologic Unit 05120103, on right bank 85 ft downstream from Westinghouse Road, 0.5 mi downstream from Little Ditch, 0.8 mi upstream from City Drain, and 1.2 mi west of the Post Office in Union City.

Drainage area.— 9.67 mi².

Period of record.— October 1982 to 1997.

Average discharge.— 10.1 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	4.3
98	0.0	30	6.5
95	0.0	20	12
90	0.1	10	28
80	0.4	5	50
70	1.1	2	79
60	1.9	1	106
50	2.9		

Wabash River Basin

03325500 MISSISSINEWA RIVER NEAR RIDGEVILLE, IN

Location.— Lat 40°16'48", long 84°59'33" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.17, T.21 N., R.14 E., Randolph County, IN, Hydrologic Unit 05120103, on left bank 800 ft upstream from county road bridge, 0.6 mi downstream from Mud Creek, 2 mi east of Ridgeville, and at mile 99.7.

Drainage area.— 133 mi².

Period of record.— August 1946 to current year.

Average discharge.— 137 ft³/s.

Minimum daily discharge.— 0.10 ft³/s.

Human health (harmonic mean) design flow.— 10 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.9	1.1	1.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.3	40	46
98	1.7	30	72
95	2.6	20	127
90	3.8	10	299
80	6.9	5	631
70	12	2	1330
60	20	1	2010
50	30		

Wabash River Basin

03326000 MISSISSINEWA RIVER NEAR EATON, IN

Location.— Lat 40°19'08", long 85°19'10" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.31, T.22 N., R.11 E., Delaware County, IN, on right bank at downstream side of bridge, 1.5 mi upstream from Estey Creek, and 2.5 mi southeast of Eaton.

Drainage area.— 310 mi².

Period of record.— March 1952 to September 1971.

Average discharge.— 266 ft³/s.

Minimum daily discharge.— 2.0 ft³/s.

Human health (harmonic mean) design flow.— 25 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.4	2.9	3.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.6	40	86
98	4.8	30	134
95	6.5	20	254
90	9.1	10	590
80	16	5	1330
70	25	2	2490
60	39	1	3580
50	59		

Wabash River Basin

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN

Location.— Lat 40°25'20", long 85°21'04" sec.23, T.23 N., R.10 E., Blackford County, IN, Hydrologic Unit 05120103, on right bank 6 ft downstream from bridge on County Road 100 East, and 2.0 mi southeast of Hartford City.

Drainage area.— 29.2 mi².

Period of record.— July 1971 to October 2003.

Average discharge.— 28.8 ft³/s.

Minimum daily discharge.— 0.19 ft³/s.

Human health (harmonic mean) design flow.— 3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.3	0.5	0.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.5	40	8.6
98	0.6	30	14
95	0.8	20	25
90	1.2	10	67
80	2.0	5	140
70	2.9	2	280
60	4.1	1	411
50	5.9		

Wabash River Basin

03326500 MISSISSINEWA RIVER AT MARION, IN

Location.— Lat 40°34'35", long 85°39'36" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.31, T.25 N., R.8 E., Grant County, IN, Hydrologic Unit 05120103, on left bank 12 ft downstream from Highland Avenue bridge in Marion, 0.1 mi downstream from old mill dam, 1.0 mi upstream from Hummel Creek, 4.6 mi downstream from Lugar Creek, and at mile 35.8.

Drainage area.— 682 mi².

Period of record.— September 1923 to current year.

Average discharge.— 654 ft³/s.

Minimum daily discharge.— 3.4 ft³/s.

Human health (harmonic mean) design flow.— 120 ft³/s.

Remarks.— Flow periodically regulated by dam 0.1 mile above station..

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.2	20	30

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	25	40	296
98	31	30	436
95	40	20	708
90	50	10	1540
80	70	5	2930
70	102	2	5260
60	146	1	7390
50	210		

Wabash River Basin

03327000 MISSISSINEWA RIVER AT PEORIA, IN

Location.— Lat 40°43'24", long 85°57'27" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.3, T.26 N., R.5 E., Miami County, IN, Hydrologic Unit 05120103, on right bank at Peoria, 0.6 mi downstream from Mississinewa Lake, 6.5 mi southeast of Peru, and 6.7 mi upstream from mouth.

Drainage area.— 808 mi².

Period of record.— October 1952 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers).

Average discharge.— 734 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.—169 ft³/s.

Remarks.— Flow regulated by Mississinewa Lake since April 1968. Low-flow statistics are calculated for the regulated period, 1968 to 2001. Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.0	16	21

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	26	40	474
98	33	30	659
95	47	20	1080
90	65	10	2190
80	115	5	3430
70	174	2	4670
60	248	1	5400
50	350		

Wabash River Basin

03327500 WABASH RIVER AT PERU, IN

Location.— Lat 40°45'00", long 86°04'00" referenced to North American Datum of 1983, in SE ¼ NE ¼ sec.32, T.27 N., R.4 E., Miami County, IN, Hydrologic Unit 05120101, on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mi southwest of Peru, 4.4 mi downstream from Mississinewa River, and at mile 370.5.

Drainage area.— 2,686 mi².

Period of record.— August 1943 to current year.

Average discharge.— 2,559 ft³/s.

Minimum daily discharge.— 72 ft³/s.

Human health (harmonic mean) design flow.—809 ft³/s.

Remarks.— Flow regulated by Mississinewa Lake since April 1968. Low-flow statistics are calculated for the regulated period, 1968 to 2001. Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
124	144	189

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	166	40	1770
98	188	30	2920
95	239	20	5070
90	323	10	7750
80	509	5	9570
70	705	2	11600
60	946	1	13100
50	1280		

Wabash River Basin

03327503 PRAIRIE DITCH AT PERU, IN

Location.— Lat 40°46'54", long 86°03'19" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.15, T.27 N., R.4 E., Miami County, IN, Hydrologic Unit 05120101, on downstream left edge near culvert on Lovers Lane, 200 ft south Highway 24, 0.24 mi northeast from intersection of Highways 19 and 24, and at mile 6.06.

Drainage area.— 2.0 mi².

Period of record.— September 2007 to current year.

Average discharge.— 0.94 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.—0.0 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	0.1
98	.0	30	.2
95	.0	20	.4
90	.0	10	1.0
80	.0	5	2.1
70	.0	2	7.5
60	.0	1	22
50	.1		

Wabash River Basin

03327507 PRAIRIE DITCH NEAR PERU, IN

Location.— Lat 40°45'49", long 86°07'43" referenced to North American Datum of 1927, in NE ¼ NW ¼ NW ¼ sec.30, T.27 N., R.4 E., Miami County, IN, Hydrologic Unit 05120101, on the downstream right edge abutment of bridge #B-076 on Division Road, 0.06 mi west of Hwy 31, 20.2 mi north of Kokomo and at mile 1.41.

Drainage area.— 11.1 mi².

Period of record.— September 2007 to current year.

Average discharge.— 13.0 ft³/s.

Minimum daily discharge.— 0.23 ft³/s.

Human health (harmonic mean) design flow.—4.4 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.3	1.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.6	40	9.8
98	1.0	30	14
95	1.8	20	20
90	2.4	10	30
80	3.2	5	42
70	4.0	2	59
60	5.1	1	90
50	6.7		

Wabash River Basin

03327520 PIPE CREEK NEAR BUNKER HILL, IN

Location.— Lat 40°40'06", long 86°05'44" referenced to North American Datum of 1983 in NE ¼ SE ¼ sec.29, T.26 N., R.4 E., Miami County, IN, Hydrologic Unit 05120101, on right bank 150 ft downstream from bridge on County Road 125 West, 0.5 mi northeast of Bunker Hill, and at mile 11.4.

Drainage area.— 159 mi².

Period of record.— May 1968 to October 2003.

Average discharge.— 152 ft³/s.

Minimum daily discharge.— 2.9 ft³/s.

Human health (harmonic mean) design flow.—28 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.1	4.7	5.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.9	40	76
98	6.0	30	111
95	7.8	20	180
90	11	10	369
80	17	5	654
70	28	2	1160
60	41	1	1550
50	56		

Wabash River Basin

03328000 EEL RIVER AT NORTH MANCHESTER, IN

Location.— Lat 40°59'38", long 85°46'53" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.6, T.29 N., R.7 E., Wabash County, IN, Hydrologic Unit 05120104, on right bank 300 ft upstream from New Wabash Road bridge in North Manchester, 400 ft downstream of New York Central railroad bridge, 0.4 mi downstream from Pony Creek, and at mile 51.0.

Drainage area.— 417 mi².

Period of record.— October 1929 to current year.

Average discharge.— 394 ft³/s.

Minimum daily discharge.— 16 ft³/s.

Human health (harmonic mean) design flow.—142 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
32	39	47

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	42	40	241
98	48	30	331
95	58	20	502
90	68	10	938
80	86	5	1570
70	109	2	2430
60	140	1	3060
50	182		

Wabash River Basin

03328430 WEESAU CREEK NEAR DEEDSVILLE, IN

Location.— Lat 40°54'34", long 86°07'36", in NW ¼ NW ¼ sec.6, T.28 N., R.4 E., Miami County, IN, Hydrologic Unit 05120104, on left bank 100 ft downstream from bridge on County Road 1000 North, and 1.5 mi west of Deedsville.

Drainage area.— 8.87 mi².

Period of record.— October 1970 to 2001.

Average discharge.— 10.5 ft³/s.

Minimum daily discharge.— 0.2 ft³/s.

Human health (harmonic mean) design flow.—2.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.3	0.4	0.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.5	40	5.8
98	0.6	30	8.3
95	0.8	20	13
90	1.0	10	25
80	1.5	5	44
70	2.2	2	73
60	3.1	1	99
50	4.3		

Wabash River Basin

03328500 EEL RIVER NEAR LOGANSPOET, IN

Location.— Lat 40°46'58", long 86°15'53" referenced to North American Datum of 1983, in NE ¼ SE ¼ sec.14, T.27 N., R.2 E., Cass County, IN, Hydrologic Unit 05120104, on right bank at upstream side of bridge on County Road 150 North, 5.5 mi northeast of Logansport, and 7.4 mi upstream from mouth.

Drainage area.— 789 mi².

Period of record.— July 1943 to current year.

Average discharge.— 789 ft³/s.

Minimum daily discharge.— 70 ft³/s.

Human health (harmonic mean) design flow.—330 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
98	105	117

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	104	40	533
98	115	30	706
95	135	20	1040
90	158	10	1800
80	200	5	2880
70	252	2	4430
60	322	1	5730
50	412		

Wabash River Basin

03329000 WABASH RIVER AT LOGANSPOET, IN

Location.— Lat 40°44'47", long 86°22'39" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.35, T.27 N., R.1 E., Cass County, IN, Hydrologic Unit 05120105, on left bank, 150 ft downstream from Cicott Street bridge in Logansport, 1,000 ft downstream from Eel River, 0.85 mi upstream of U.S. Highway 35, and at mile 353.7.

Drainage area.— 3,779 mi².

Period of record.— May 1923 to current year.

Average discharge.— 3,543 ft³/s.

Minimum daily discharge.— 135 ft³/s.

Human health (harmonic mean) design flow.— 1,420 ft³/s.

Remarks.— Flow partially regulated by Huntington Lake, Salamonie Lake, and Mississinewa Lake. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
278	304	379

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	340	40	2570
98	384	30	4140
95	484	20	6970
90	637	10	10600
80	886	5	13500
70	1140	2	16300
60	1430	1	18700
50	1860		

Wabash River Basin

03329400 RATTLESNAKE CREEK NEAR PATTON, IN

Location.— Lat 40°42'46", long 86°41'49", in NW ¼ SW ¼ sec.7, T.26 N., R.2 W., Carroll County, IN, Hydrologic Unit 05120105, on left bank 5 ft downstream from bridge on County Road 900 West, and 2.5 mi northeast of Patton.

Drainage area.— 6.83 mi².

Period of record.— October 1968 to September 1993.

Average discharge.— 7.0 ft³/s.

Minimum daily discharge.— 0.06 ft³/s.

Human health (harmonic mean) design flow.—1.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	4.2
98	0.2	30	5.9
95	0.3	20	8.6
90	0.5	10	17
80	1.0	5	28
70	1.6	2	47
60	2.2	1	64
50	3.1		

Wabash River Basin

03329500 WABASH RIVER AT DELPHI, IN

Location.— Lat 40°35'26", long 86°41'54", in SE ¼ SE ¼ sec.24, T.25 N., R.3 W., Carroll County, IN, on downstream side of second pier from left abutment of highway bridge, 1 mi west of Delphi, 1.6 mi upstream from Deer Creek, 8.6 mi upstream from Tippecanoe River, and at mile 330.8.

Drainage area.— 4,072 mi².

Period of record.— October 1939 to September 1971.

Average discharge.— 3,324 ft³/s.

Minimum daily discharge.— 158 ft³/s.

Human health (harmonic mean) design flow.—934 ft³/s.

Remarks.— Flow partially regulated by Huntington Reservoir, Salamonie Reservoir, and Mississinewa Reservoir.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
206	218	244

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	227	40	1910
98	270	30	2720
95	331	20	4350
90	408	10	8640
80	551	5	13800
70	753	2	22000
60	1020	1	29300
50	1400		

Wabash River Basin

03329700 DEER CREEK NEAR DELPHI, IN

Location.— Lat 40°35'25", long 86°37'17" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.27, T.25 N., R.2 W., Carroll County, IN, Hydrologic Unit 05120105, on downstream side of left wingwall of county road bridge, 0.85 mi south of Sharp Point Cemetery, 3.0 mi northeast of Delphi Post Office, and 4.5 mi upstream from mouth.

Drainage area.— 274 mi².

Period of record.— October 1943 to current year.

Average discharge.— 257 ft³/s.

Minimum daily discharge.— 6.2 ft³/s.

Human health (harmonic mean) design flow.—66 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
11	12	15

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	14	40	151
98	17	30	212
95	22	20	315
90	28	10	583
80	41	5	987
70	57	2	1730
60	81	1	2410
50	110		

Wabash River Basin

03330241 TIPPECANOE RIVER AT NORTH WEBSTER, IN

Location.— Lat 41°18'58", long 85°41'32" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.15, T.33 N., R.7 E., Kosciusko County, IN, Hydrologic Unit 05120106, on right upstream corner of State Road 13 bridge, at the intersection of State Road 13 and County Road 550 North, 0.4 mi southeast of North Webster, and 0.5 mi north of intersection of State Road 13 and 500 North.

Drainage area.— 49.3 mi².

Period of record.— May 1986 to current year.

Average discharge.— 47.6 ft³/s.

Minimum daily discharge.— 0.06 ft³/s.

Human health (harmonic mean) design flow.—12 ft³/s.

Remarks.— Flow regulated at times by dams at Webster Lake, 0.25 mi upstream.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.9	1.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.6	40	40
98	2.2	30	55
95	3.4	20	77
90	5.4	10	119
80	9.6	5	163
70	15	2	228
60	20	1	275
50	29		

Wabash River Basin

03330500 TIPPECANOE RIVER AT OSWEGO, IN

Location.— Lat 41°19'14", long 85°47'21" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.14, T.33 N., R.6 E., Kosciusko County, IN, Hydrologic Unit 05120106, on left bank 50 ft downstream from dam at Tippecanoe Lake Outlet in Oswego, 3 mi east of Leesburg, and at mile 158.9.

Drainage area.— 113 mi².

Period of record.— October 1949 to current year.

Average discharge.— 108 ft³/s.

Minimum daily discharge.— 0.08 ft³/s.

Human health (harmonic mean) design flow.—27 ft³/s.

Remarks.— Periodic regulation by gates at Tippecanoe Lake outlet.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.7	2.7	4.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.9	40	102
98	5.9	30	134
95	9.9	20	177
90	15	10	250
80	26	5	316
70	40	2	398
60	56	1	491
50	76		

Wabash River Basin

03331110 WALNUT CREEK NEAR WARSAW, IN

Location.— Lat 41°12'17", long 85°52'11" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.30, T.32 N., R.6 E., Kosciusko County, IN, Hydrologic Unit 05120106, on left bank 10 ft upstream from bridge on County Road 200 South, 0.3 mi downstream from small right-bank tributary, and 2.5 mi south of Court House in Warsaw.

Drainage area.— 19.6 mi².

Period of record.— October 1969 to October 2003.

Average discharge.— 17.0 ft³/s.

Minimum daily discharge.— 0.4 ft³/s.

Human health (harmonic mean) design flow.—4.8 ft³/s.

Remarks.— Flow occasionally regulated by lakes upstream.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.5	0.6	0.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.8	40	15
98	0.9	30	20
95	1.3	20	28
90	1.9	10	43
80	3.2	5	61
70	4.9	2	86
60	7.4	1	111
50	11		

Wabash River Basin

03331500 TIPPECANOE RIVER NEAR ORA, IN

Location.— Lat 41°09'26", long 86°33'49" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.6, T.31 N., R.1 W., Pulaski County, IN, Hydrologic Unit 05120106, on right bank at downstream side of bridge on County Road 700 East, 1.0 mi upstream from Bartee Ditch, 2.5 mi downstream from House Ditch. 1.3 mi southwest of Ora, and at river mile 78.5.

Drainage area.— 856 mi².

Period of record.— September 1943 to current year.

Average discharge.— 888 ft³/s.

Minimum daily discharge.— 87 ft³/s.

Human health (harmonic mean) design flow.— 471 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
133	138	153

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	142	40	781
98	156	30	1010
95	185	20	1350
90	223	10	1890
80	297	5	2470
70	378	2	3320
60	480	1	4180
50	616		

Wabash River Basin

03331753 TIPPECANOE RIVER AT WINAMAC, IN

Location.— Lat 41°02'59", long 86°35'57" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.13, T.30 N., R.2 W., Pulaski County, IN, Hydrologic Unit 05120106, on the northeast corner of the Washington Street bridge in Winamac, 0.3 mi downstream of the city park, 2 mi north of U.S. Highway 35 bridge, and at mile 70.3.

Drainage area.— 942 mi².

Period of record.— August 2001 to current year.

Average discharge.— 1,031 ft³/s.

Minimum daily discharge.— 4.8 ft³/s.

Human health (harmonic mean) design flow.— 451 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
183	185	198

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	191	40	980
98	205	30	1250
95	242	20	1620
90	290	10	2130
80	357	5	2650
70	446	2	3580
60	576	1	4430
50	758		

Wabash River Basin

03332300 LITTLE INDIAN CREEK NEAR ROYAL CENTER, IN

Location.— Lat 40°52'53", long 86°35'26" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.13, T.28 N., R.2 W., White County, IN, Hydrologic Unit 05120106, on right bank at downstream side of county road bridge, 2.9 mi upstream from mouth, 3.2 mi downstream from Fredericks Ditch, and 4.8 mi northwest of Royal Center Post Office.

Drainage area.— 35.0 mi².

Period of record.— July 1959 to September 1973.

Average discharge.— 28.7 ft³/s.

Minimum daily discharge.— 0.50 ft³/s.

Human health (harmonic mean) design flow.— 7.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.6	0.7	1.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.8	40	20
98	1.3	30	27
95	2.1	20	39
90	3.3	10	66
80	5.0	5	108
70	7.5	2	183
60	11	1	239
50	15		

Wabash River Basin

03332400 BIG MONON CREEK NEAR FRANCESVILLE, IN

Location.— Lat 40°59'03", long 86°51'43" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.10, T.29 N., R.4 W., Pulaski County, IN, Hydrologic Unit 05120106, on right bank at downstream side of county road bridge, 1.1 mi east of Francesville, 1.6 mi downstream from right bank tributary, and 10.2 mi upstream from mouth.

Drainage area.— 152 mi².

Period of record.— August 1959 to September 1973.

Average discharge.— 144 ft³/s.

Minimum daily discharge.— 8.50 ft³/s.

Human health (harmonic mean) design flow.— 55 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
9.1	9.9	13

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	13	40	108
98	15	30	144
95	18	20	199
90	23	10	308
80	36	5	464
70	51	2	748
60	69	1	1050
50	88		

Wabash River Basin

03332500 TIPPECANOE RIVER NEAR MONTICELLO, IN

Location.— Lat 40°46'48", long 86°45'36" referenced to North American Datum of 1927 in NW ¼ NE ¼ sec.21, T.27 N., R.3 W., White County, IN, Hydrologic Unit 05120106, at Norway plant of Northern Indiana Public Service Co., 2 mi north of Monticello, and at mile 32.0.

Drainage area.— 1,732 mi².

Period of record.— October 1931 to 1981.

Average discharge.— 1,508 ft³/s.

Minimum daily discharge.— 103 ft³/s.

Human health (harmonic mean) design flow.— 709 ft³/s.

Remarks.— Discharge computed on basis of records of operation of power plant and flow over dam.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
132	183	213

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	192	40	1220
98	212	30	1590
95	269	20	2190
90	331	10	3400
80	464	5	4730
70	587	2	6840
60	737	1	8580
50	952		

Wabash River Basin

03332555 TIPPECANOE RIVER AT NORWAY, IN

Location.— Lat 40°46'43", long 86°45'29" referenced to North American Datum of 1927 in NE ¼ NE ¼ sec.21, T.27 N., R.3 W., White County, IN, Hydrologic Unit 05120106, on upstream side of bridge on Francis St., 2.6 mi northeast of Monticello, 16.2 mi west of Logansport, and at river mile 31.9.

Drainage area.— 1,760 mi².

Period of record.— December 2008 to current year.

Average discharge.— 1,935 ft³/s.

Minimum daily discharge.— 205 ft³/s.

Human health (harmonic mean) design flow.— 920 ft³/s.

Remarks.— This site has less than 10 years of record. The extreme regulation by upstream dam causes unnatural flow conditions.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
204	246	304

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	256	40	1650
98	278	30	2120
95	329	20	2710
90	415	10	3800
80	522	5	5060
70	674	2	7230
60	968	1	9000
50	1240		

Wabash River Basin

03332605 TIPPECANOE RIVER BELOW OAKDALE DAM, IN

Location.— Lat 40°39'12", long 86°45'24" referenced to North American Datum of 1927 in NE ¼ SE ¼ sec.33, T.26 N., R.3 W., Carroll County, IN, Hydrologic Unit 05120106, on the downstream side of the bridge on CR 725 N, 0.6 mi west of Co. Rd. 1150 W, 0.9 mi east of Springboro Road, and 8.4 mi northwest of Delphi.

Drainage area.— 1,790 mi².

Period of record.— December 2008 to current year.

Average discharge.— 1,875 ft³/s.

Minimum daily discharge.— 179 ft³/s.

Human health (harmonic mean) design flow.— 963 ft³/s.

Remarks.— This site has less than 10 years of record. The extreme regulation by upstream dam causes unnatural flow conditions.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
188	231	291

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	265	40	1610
98	282	30	2150
95	312	20	2880
90	432	10	4080
80	543	5	5570
70	695	2	7800
60	950	1	9390
50	1230		

Wabash River Basin

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

Location.— Lat 40°35'38", long 86°46'12" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.21, T.25 N., R.3 W., Carroll County, IN, Hydrologic Unit 05120106, on left bank 20 ft upstream from bridge on State Highway 18, 1,400 ft east of Springboro, 5 mi west of Delphi, 8.1 mi downstream from Big Creek, and at mile 8.7.

Drainage area.— 1,869 mi².

Period of record.— October 1987 to current year.

Average discharge.— 2,075 ft³/s.

Minimum daily discharge.— 131 ft³/s.

Human health (harmonic mean) design flow.— 1,080 ft³/s.

Remarks.— Flow regulated by upstream reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
164	208	271

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	286	40	1870
98	329	30	2380
95	406	20	3070
90	495	10	4350
80	699	5	5750
70	913	2	7770
60	1170	1	9380
50	1480		

Wabash River Basin

03333450 WILDCAT CREEK NEAR JEROME, IN

Location.— Lat 40°26'29", long 85°55'08" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.14, T.23 N., R.5 E., Howard County, IN, Hydrologic Unit 05120107, on right bank at downstream side of bridge on County Road 1100 East, 0.5 mi downstream from Mud Creek, 1.5 mi southeast of Jerome, and at mile 79.9.

Drainage area.— 146 mi².

Period of record.— July 1961 to current year.

Average discharge.— 151 ft³/s.

Minimum daily discharge.— 0.47 ft³/s.

Human health (harmonic mean) design flow.— 13 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.2	1.4	1.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.6	40	71
98	2.0	30	107
95	3.0	20	180
90	4.7	10	387
80	8.8	5	660
70	18	2	1170
60	30	1	1640
50	47		

Wabash River Basin

03333500 WILDCAT CREEK AT GREENTOWN, IN

Location.— Lat 40°27', long 85°57', referenced to North American Datum of 1927, on line between secs. 9 and 10, T.23 N., R.5 E., Howard County, IN, Hydrologic Unit 05120107, on left bank at downstream side of bridge on State Highway 213, 1.5 mi south of Greentown.

Drainage area.— 168 mi².

Period of record.— October 1944 to June 1961.

Average discharge.— 152 ft³/s.

Minimum daily discharge.— 1.0 ft³/s.

Human health (harmonic mean) design flow.— 16 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.1	1.4	2.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.9	40	76
98	2.5	30	117
95	4.0	20	194
90	5.9	10	377
80	12	5	675
70	21	2	1190
60	35	1	1630
50	51		

Wabash River Basin

03333600 KOKOMO CREEK NEAR KOKOMO, IN

Location.— Lat 40°26'28", long 86°05'20" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.16, T.23 N., R.4 E., Howard County, IN, Hydrologic Unit 05120107, on left bank at upstream side of bridge on County Road 200 East, 0.5 mi south of County Road 200 South, 2.6 mi southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 mi upstream from mouth.

Drainage area.— 24.7 mi².

Period of record.— July 1959 to Jan. 2012.

Average discharge.— 24.4 ft³/s.

Minimum daily discharge.— 0.01 ft³/s.

Human health (harmonic mean) design flow.— 1.96 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	12
98	0.3	30	18
95	0.5	20	30
90	0.8	10	60
80	1.7	5	106
70	2.9	2	193
60	5.1	1	274
50	7.8		

Wabash River Basin

03333700 WILDCAT CREEK AT KOKOMO, IN

Location.— Lat 40°28'15.3", long 86°09'10.6" referenced to North American Datum of 1983, in SW ¼ NE ¼ sec.2, T.23 N., R.3 E., Howard County, IN, Hydrologic Unit 05120107, on right bank on property of Kokomo Sewage Treatment Plant in Kokomo, 250 ft downstream from Kokomo Creek, 1.0 mi upstream from Dixon Road bridge, and at mile 62.9.

Drainage area.— 242 mi².

Period of record.— October 1955 to current year.

Average discharge.— 249 ft³/s.

Minimum daily discharge.— 7.2 ft³/s.

Human health (harmonic mean) design flow.— 59 ft³/s.

Remarks.— Some regulation by Kokomo Reservoirs Nos. 1 and 2 (combined capacity 4,170 acre-ft, used for municipal water supply) and by Kokomo Sewage Treatment Plant. Prior to May 9, 1986, recording gage at site 0.4 mi downstream at present datum.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
12	14	16

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	14	40	130
98	17	30	191
95	21	20	306
90	25	10	600
80	34	5	1020
70	47	2	1770
60	66	1	2480
50	92		

Wabash River Basin

03334000 WILDCAT CREEK AT OWASCO, IN

Location.— Lat 40°27'50", long 86°38'15" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.4, T.23 N., R.2 W., Carroll County, IN, Hydrologic Unit 05120107, on left bank 200 ft downstream from bridge on State Highway 39, 0.5 mi northwest of Owasco, 8.7 mi south of Delphi, and 15 mi upstream from South Fork Wildcat Creek.

Drainage area.— 396 mi².

Period of record.— October 1943 to September 1973, and October 1988 to current year.

Average discharge.— 397 ft³/s.

Minimum daily discharge.— 12 ft³/s.

Human health (harmonic mean) design flow.— 104 ft³/s.

Remarks.— Some regulation at low stages for municipal water supply by Kokomo Water Company since 1955.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
18	21	25

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	24	40	240
98	27	30	336
95	35	20	507
90	44	10	936
80	63	5	1550
70	90	2	2560
60	128	1	3390
50	175		

Wabash River Basin

03334500 SOUTH FORK WILDCAT CREEK NEAR LAFAYETTE, IN

Location.— Lat 40°25'04", long 86°46'05" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.21, T.23 N., R.3 W., Tippecanoe County, IN, Hydrologic Unit 05120107, on right bank 40 ft upstream from bridge on State Highway 26, 0.5 mi upstream from Middle Fork, 4.4 mi upstream from mouth, and 5 mi east of Lafayette.

Drainage area.— 243 mi².

Period of record.— October 1943 to current year.

Average discharge.— 245 ft³/s.

Minimum daily discharge.— 15 ft³/s.

Human health (harmonic mean) design flow.— 79 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
19	20	23

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	22	40	150
98	24	30	202
95	29	20	296
90	36	10	536
80	48	5	902
70	64	2	1580
60	86	1	2250
50	114		

Wabash River Basin

03335000 WILDCAT CREEK NEAR LAFAYETTE, IN

Location.— 40°26'26", long 86°49'45" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.13, T.23 N., R.4 W., Tippecanoe County, IN, Hydrologic Unit 05120107, on right bank about 200 ft downstream of bridge on County Road 2A East, 2.8 mi downstream from South Fork Wildcat Creek, 3.7 mi northeast of courthouse in Lafayette, and 4.8 mi upstream from mouth.

Drainage area.— 794 mi².

Period of record.— May 1954 to current year.

Average discharge.— 804 ft³/s.

Minimum daily discharge.— 47 ft³/s.

Human health (harmonic mean) design flow.— 260 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
59	63	74

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	67	40	497
98	76	30	686
95	94	20	1030
90	115	10	1840
80	156	5	3070
70	211	2	5090
60	283	1	6580
50	376		

Wabash River Basin

03335500 WABASH RIVER AT LAFAYETTE, IN

Location.— Lat 40°25'19", long 86°53'49" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.20, T.23 N., R.4 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on right bank 20 ft downstream from Brown St. in Lafayette, 0.2 mi upstream from Main St. bridge, 0.3 mi downstream from Harrison Memorial Bridge, 5.1 mi downstream from Wildcat Creek, and at river mile 311.9.

Drainage area.— 7,267 mi².

Period of record.— October 1953 to current year.

Average discharge.— 6,871 ft³/s.

Minimum daily discharge.— 399 ft³/s.

Human health (harmonic mean) design flow.— 3,520 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs and power development. Low-flow statistics are calculated for the regulated period, 1969 to 1993.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
824	897	1080

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	933	40	5720
98	1100	30	8050
95	1360	20	12000
90	1660	10	18100
80	2230	5	24100
70	2830	2	31400
60	3540	1	37600
50	4440		

Wabash River Basin

03335671 ELLIOTT DITCH NEAR LAFAYETTE, IN

Location.— Lat 40°22'58", long 87°50'52", referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.2, T.22 N., R.4 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on left bank in the northwest corner of Tippecanoe County Highway Department property, 3.5 mi southeast of Lafayette courthouse, 3.6 mi southwest of I-65, and at river mile 4.58.

Drainage area.— 11.8 mi².

Period of record.— April 2008 to current year.

Average discharge.— 6.9 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0	40	3.6
98	0	30	5.1
95	0.2	20	8.2
90	0.3	10	16
80	0.7	5	28
70	1.2	2	50
60	1.8	1	70
50	2.6		

Wabash River Basin

033356725 ELLIOTT DITCH NEAR ELSTON, IN

Location.— Lat 40°22'15", long 86°54'34" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.7, T.22 N., R.4 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on downstream side of bridge, 1.3 mi southwest of Old 231, 7.5 mi southwest of I-65.

Drainage area.— 18.0 mi².

Period of record.— March 2009 to current year.

Average discharge.— 14.6 ft³/s.

Minimum daily discharge.— 0.31 ft³/s.

Human health (harmonic mean) design flow.— 3.4 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.3	0.3	0.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.4	40	8.8
98	0.5	30	12
95	0.9	20	17
90	1.3	10	28
80	2.4	5	47
70	3.5	2	91
60	5.1	1	140
50	6.8		

Wabash River Basin

03335673 LITTLE WEA CREEK AT SOUTH RAUB, IN

Location.— Lat 40°18'05", long 86°55'25", referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.1, T.21 N., R.5 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on upstream side of bridge on CR 800 South, 1.0 mi west of Hwy 231, 0.52 mi west of South Raub, 8.3 mi south-southwest of courthouse in Lafayette, and 7.0 mi upstream from mouth.

Drainage area.— 17.3 mi².

Period of record.— March 2009 to current year.

Average discharge.— 22.1 ft³/s.

Minimum daily discharge.— 1.5 ft³/s.

Human health (harmonic mean) design flow.— 8.3 ft³/s.

Remarks.— This site has less than 10 years of record. -- indicates that there was poor correlation with the index station: no values determined.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
--	--	--

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.1	40	16
98	2.4	30	19
95	3.3	20	26
90	4.0	10	43
80	5.0	5	73
70	6.2	2	138
60	8.5	1	196
50	12		

Wabash River Basin

03335677 MARSHALL DITCH NEAR MONTMORENCI, IN

Location.— Lat 40°30'42", long 87°01'10", referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.20, T.24 N., R.5 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on right bank at mile 1.7, and 2.9 mi northeast of Montmorenci.

Drainage area.— 1.58 mi².

Period of record.— October 1990 to 1995.

Average discharge.— 1.49 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.—0.2 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	0.7
98	0.0	30	0.9
95	0.0	20	1.3
90	0.0	10	2.5
80	0.1	5	5.0
70	0.2	2	12
60	0.4	1	20
50	0.5		

Wabash River Basin

03335678 INDIAN CREEK NEAR MONTMORENCI, IN

Location.— Lat 40°25'53", long 87°02'16", referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.13, T.23 N., R.6 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on right bank 1.8 mi upstream from mouth, 1.4 mi downstream from Goose Creek and 3.0 mi southwest of Montmorenci.

Drainage area.— 27.8 mi².

Period of record.— October 1990 to September 1994.

Average discharge.— 27.9 ft³/s.

Minimum daily discharge.— 0.08 ft³/s.

Human health (harmonic mean) design flow.— 2.6 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	15
98	0.3	30	20
95	0.7	20	29
90	1.4	10	55
80	3.0	5	108
70	5.5	2	192
60	8.2	1	312
50	12		

Wabash River Basin

033356786 LITTLE PINE CREEK NEAR MONTMORENCI, IN

Location.— Lat 40°28'02", long 87°03'29", referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.2, T.23 N., R.6 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on downstream side of bridge, 1.5 mi west of CR 350 N, 2 mi southwest of Montmorenci, and 15.5 mi west of I-65.

Drainage area.— 21.7 mi².

Period of record.— March 2009 to current year.

Average discharge.— 23.0 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0	40	13
98	0	30	18
95	0.1	20	29
90	0.4	10	57
80	1	5	93
70	2.6	2	156
60	5.2	1	249
50	8.8		

Wabash River Basin

03335679 LITTLE PINE CREEK AT GREEN HILL, IN

Location.— Lat 40°24'34", long 87°06'53", referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.29, T.23 N., R.6 W., Warren County, IN, Hydrologic Unit 05120108, on right bank at southwest edge of Green Hill, 1.2 mile downstream from Armstrong Creek and at river mile 6.1.

Drainage area.— 42.3 mi².

Period of record.— October 1990 to September 1995.

Average discharge.— 49.0 ft³/s.

Minimum daily discharge.— 0.55 ft³/s.

Human health (harmonic mean) design flow.— 7.8 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.7	1.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.9	40	32
98	1.1	30	44
95	1.6	20	64
90	2.7	10	114
80	6.8	5	197
70	13	2	293
60	18	1	370
50	25		

Wabash River Basin

03335690 MUD PINE CREEK NEAR OXFORD, IN

Location.— Lat 40°31'24", long 87°20'30" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.17, T.24 N., R.8 W., Benton County, IN, Hydrologic Unit 05120108, on right bank 5 ft downstream from county road bridge, 0.3 mi north of Chase, 2 mi east of Boswell, and 5 mi west of Oxford.

Drainage area.— 39.4 mi².

Period of record.— June 1971 to October 2003.

Average discharge.— 42.8 ft³/s.

Minimum daily discharge.— 0.01 ft³/s.

Human health (harmonic mean) design flow.—2.7 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	24
98	0.4	30	35
95	0.6	20	54
90	0.9	10	101
80	2.3	5	161
70	5.4	2	299
60	10	1	462
50	16		

Wabash River Basin

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IN

Location.— Lat 40°19'03", long 87°17'26" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.26, T.22 N., R.8 W., Warren County, IN, Hydrologic Unit 05120108, on downstream side of county road bridge, 1.6 mi north of Williamsport city limits, and 3.7 mi upstream from mouth.

Drainage area.—323 mi².

Period of record.—October 1955 to September 1987.

Average discharge.—270 ft³/s.

Minimum daily discharge.—6.5 ft³/s.

Human health (harmonic mean) design flow.—52 ft³/s.

Remarks.—None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.6	8.1	10

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.9	40	168
98	11	30	236
95	15	20	353
90	19	10	635
80	31	5	1080
70	52	2	1790
60	83	1	2330
50	122		

Wabash River Basin

03336000 WABASH RIVER AT COVINGTON, IN

Location.— Lat 40°08'24", long 87°24'24" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.35, T.20 N., R.9 W., Warren County, IN, Hydrologic Unit 05120108, on right approach to old U.S. Highway 136 bridge at Covington, 2.9 mi downstream from Oppossum Run, 3.6 mi upstream from Spring Creek, and at river mile 271.1.

Drainage area.— 8,218 mi².

Period of record.— October 1939 to current year.

Average discharge.— 7,902 ft³/s.

Minimum daily discharge.— 487 ft³/s.

Human health (harmonic mean) design flow.— 4,120 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1020	1080	1290

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1190	40	6600
98	1320	30	9180
95	1620	20	13600
90	1960	10	20700
80	2600	5	26800
70	3250	2	33200
60	4100	1	39500
50	5170		

Wabash River Basin

03339108 EAST FORK COAL CREEK NEAR HILLSBORO, IN

Location.— Lat 40°06'06", long 87°07'54" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.8, T.19 N., R.6 W., Fountain County, IN, Hydrologic Unit 05120108, at center pier on downstream side of bridge on County Road 700 East, 1.5 mi east of Hillsboro, 3.7 mi northwest of Waynetown, and 9.6 mi upstream from mouth.

Drainage area.— 33.4 mi².

Period of record.— September 1968 to September 1991.

Average discharge.— 37.3 ft³/s.

Minimum daily discharge.— 2.1 ft³/s.

Human health (harmonic mean) design flow.— 14 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.1	3.4	4.3

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.0	40	24
98	4.5	30	30
95	5.5	20	42
90	6.9	10	72
80	9.2	5	120
70	12	2	235
60	15	1	351
50	19		

Wabash River Basin

03339120 COAL CREEK AT COAL CREEK, IN

Location.— Lat 40°01'42", long 87°22'30" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec. 6, T.18N., R.8.W., Fountain County, IN, on downstream side of county road bridge, 0.7 mile southeast of Coal Creek.

Drainage area.— 214 mi².

Period of record.— October 1964 to September 1972.

Average discharge.— 178 ft³/s.

Minimum daily discharge.— 6.0 ft³/s.

Human health (harmonic mean) design flow.— 47 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.6	8.3	10

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.3	40	104
98	9.7	30	140
95	14	20	199
90	22	10	347
80	31	5	579
70	43	2	1180
60	60	1	1850
50	80		

Wabash River Basin

03339150 LITTLE VERMILLION CREEK NEAR NEWPORT, IN

Location.— Lat 39°53'32", long 87°25'42" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec. 27, T.17N., R.9W., Vermillion County, IN, on downstream side of bridge on State Highway 63, 1.2 mi northwest of Newport, and 6 mi upstream from mouth.

Drainage area.— 237 mi².

Period of record.— October 1964 to September 1972.

Average discharge.— 186 ft³/s.

Minimum daily discharge.— 5.2 ft³/s.

Human health (harmonic mean) design flow.— 5.5 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.2	0.4

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	112
98	0.4	30	162
95	2.3	20	234
90	5.4	10	431
80	12	5	693
70	27	2	1310
60	48	1	1950
50	77		

Wabash River Basin

03339280 PRAIRIE CREEK NEAR LEBANON, IN

Location.— Lat 40°06'16", long 86°31'22" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.10, T.19 N., R.1 W., Boone County, IN, Hydrologic Unit 05120110, on right bank 50 ft upstream from bridge on County Road 450 North, 4.0 mi upstream from Deer Creek, 4.9 mi northwest of Lebanon, and 7.7 mi upstream from mouth.

Drainage area.— 33.2 mi².

Period of record.— October 1987 to current year.

Average discharge.— 41.0 ft³/s.

Minimum daily discharge.— 0.03 ft³/s.

Human health (harmonic mean) design flow.— 6.7 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.3	0.5	1.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.8	40	21
98	1.3	30	29
95	2.1	20	47
90	3.0	10	87
80	4.9	5	150
70	7.4	2	305
60	11	1	494
50	15		

Wabash River Basin

03339500 SUGAR CREEK AT CRAWFORDSVILLE, IN

Location.— Lat 40°02'56", long 86°53'58" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.32, T.19 N., R.4 W., Montgomery County, IN, Hydrologic Unit 05120110, on left bank 327 ft upstream from Crawfordsville Electric Light and Power Co. dam at Crawfordsville, 700 ft upstream from bridge on U.S. Highway 231, 1.0 mi downstream from Walnut Fork Sugar Creek, and at mile 40.4.

Drainage area.— 509 mi².

Period of record.— June 1938 to current year.

Average discharge.— 507 ft³/s.

Minimum daily discharge.— 2.4 ft³/s.

Human health (harmonic mean) design flow.— 76 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
8.0	8.9	12

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	12	40	258
98	15	30	379
95	21	20	605
90	30	10	1210
80	50	5	2110
70	83	2	3820
60	128	1	5470
50	184		

Wabash River Basin

03340000 SUGAR CREEK NEAR BYRON, IN

Location.— Lat 39°55'52", long 87°07'33" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.8, T.17 N., R.6 W., Parke County, IN, Hydrologic Unit 05120110, on right bank 30 ft upstream from county highway bridge, 2.5 mi northwest of Byron, 5 mi downstream from Indian Creek.

Drainage area.— 670 mi².

Period of record.— October 1940 to September 1971.

Average discharge.— 628 ft³/s.

Minimum daily discharge.— 12 ft³/s.

Human health (harmonic mean) design flow.— 130 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
21	22	28

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	25	40	328
98	31	30	466
95	41	20	718
90	54	10	1410
80	78	5	2430
70	113	2	4710
60	163	1	6910
50	233		

Wabash River Basin

03340500 WABASH RIVER AT MONTEZUMA, IN

Location.— Lat 39°47'33", long 87°22'26" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.35, T.16 N., R.9 W., Parke County, IN, Hydrologic Unit 05120108, on left bank 20 ft upstream from bridge on U.S. Highway 36 at Montezuma, 2.0 mi upstream from Big Raccoon Creek, 4.9 mi downstream from Sugar Creek, and at mile 240.0.

Drainage area.— 11,118 mi².

Period of record.— October 1927 to current year.

Average discharge.— 10,440 ft³/s.

Minimum daily discharge.— 571 ft³/s.

Human health (harmonic mean) design flow.— 5,190 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
981	1050	1580

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1310	40	9250
98	1520	30	12700
95	1900	20	18500
90	2340	10	27700
80	3240	5	35700
70	4200	2	48400
60	5490	1	59400
50	7100		

Wabash River Basin

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN

Location.— Lat 39°48'45", long 86°57'14" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.22, T.16 N., R.5 W., Putnam County, IN, Hydrologic Unit 05120108, on downstream side of County Road 1000N bridge, 1.6 mi upstream from Ramp Creek, 3.7 mi west-northwest of Fincastle, 19.7 mi southwest of Crawfordsville.

Drainage area.— 139 mi².

Period of record.— August 1957 to current year.

Average discharge.— 149 ft³/s.

Minimum daily discharge.— 0.85 ft³/s.

Human health (harmonic mean) design flow.— 17 ft³/s.

Remarks.— Prior to October 1963, published as Raccoon Creek near Fincastle.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.6	1.9	2.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.0	40	78
98	2.6	30	111
95	3.8	20	171
90	6.2	10	319
80	12	5	544
70	23	2	1090
60	38	1	1800
50	55		

Wabash River Basin

03340900 BIG RACCOON CREEK AT FERNDALE, IN

Location.— Lat 39°42'41", long 87°04'17" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec. 28, T.15 N., R.6 W., Parke County, IN, Hydrologic Unit 05120108, on right bank at upstream side of bridge on New Discovery Road, 0.5 mi downstream from Cecil M. Harden Lake, 3.7 mi upstream from Rocky Fork Creek, and at mile 33.3.

Drainage area.— 222 mi².

Period of record.— October 1956 to September 2001.

Average discharge.— 225 ft³/s.

Minimum daily discharge.— 2.7 ft³/s. No flow at times due to regulation.

Human health (harmonic mean) design flow.— 50 ft³/s.

Remarks.— Flow regulated by Cecil M. Harden Lake since December 1960. Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976. Low-flow statistics are calculated for the regulated period, 1961 to 2001.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
9.4	13	15

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	15	40	132
98	16	30	210
95	18	20	364
90	20	10	677
80	28	5	962
70	39	2	1280
60	55	1	1530
50	91		

Wabash River Basin

03341000 BIG RACCOON CREEK AT MANSFIELD, IN

Location.— Lat 39°41'00", long 87°07'00" referenced to North American Datum of 1927, in sec.8, T.14 N., R.6 W., Parke County, Hydrologic Unit 05120108, at bridge on State Highway 59 at Mansfield, 1 mi downstream from Rocky Fork.

Drainage area.— 240 mi².

Period of record.— 1939 to 1958.

Average discharge.— 230 ft³/s.

Minimum daily discharge.— 1.4 ft³/s due to regulation.

Human health (harmonic mean) design flow.— 28 ft³/s.

Remarks.— Some regulation at low flow by mill upstream of the gage.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.4	3.1	3.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.7	40	124
98	3.8	30	175
95	7.2	20	256
90	13	10	457
80	20	5	790
70	34	2	1680
60	55	1	2740
50	85		

Wabash River Basin

03341200 LITTLE RACCOON CREEK NEAR CATLIN, IN

Location.— Lat 39°40'38", long 87°13'38" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.7, T.14 N., R.7 W., Parke County, IN, Hydrologic Unit 05120108, on left bank at downstream side of county road bridge, 300 ft downstream from small left-bank tributary, 0.4 mi upstream from Sunderland Branch, 1.2 mi northeast of Catlin, 2.4 mi upstream from Weisner Branch, and 3.8 mi upstream from mouth.

Drainage area.— 134 mi².

Period of record.— October 1957 to September 1971.

Average discharge.— 117 ft³/s.

Minimum daily discharge.— 4.1 ft³/s.

Human health (harmonic mean) design flow.— 20 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.2	4.5	5.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.9	40	64
98	5.4	30	94
95	6.8	20	136
90	9.0	10	238
80	14	5	385
70	20	2	723
60	30	1	1320
50	45		

Wabash River Basin

03341300 BIG RACCOON CREEK AT COXVILLE, IN

Location.— Lat 39°39'09", long 87°17'37" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.15, T.14 N., R.8 W., Parke County, IN, Hydrologic Unit 05120108, on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mi upstream from Rock Run, 1.5 mi downstream from Little Raccoon Creek, 2.1 mi northwest of Rosedale, and at mile 13.1.

Drainage area.— 448 mi².

Period of record.— October 1956 to September 1988, October 1992 to current year.

Average discharge.— 513 ft³/s.

Minimum daily discharge.— 6.5 ft³/s.

Human health (harmonic mean) design flow.— 170 ft³/s.

Remarks.— Flow regulated by Cecil M. Harden Lake. Low-flow statistics are calculated for the regulated period, 1962 to 1988 and 1992 to 2011. Prior to October 1963, published as Raccoon Creek at Coxville.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
33	34	40

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	38	40	399
98	44	30	561
95	55	20	822
90	70	10	1240
80	103	5	1620
70	154	2	2280
60	212	1	3090
50	285		

Wabash River Basin

03341500 WABASH RIVER AT TERRE HAUTE, IN

Location.— Lat 39°28'33", long 87°25'08" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.21, T.12 N., R.9 W., Vigo County, IN, Hydrologic Unit 05120111, on left bank at Indiana America Water Company, Inc., 1st and Elm Streets in Terre Haute, 3.0 mi upstream from Sugar Creek, and 3.6 mi downstream from Lost Creek, and at mile 215.

Drainage area.— 12,263 mi².

Period of record.— February 1905 to July 1906, October 1927 to current year.

Average discharge.— 11,460 ft³/s.

Minimum daily discharge.— 701 ft³/s.

Human health (harmonic mean) design flow.— 5,890 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1200	1300	1700

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1490	40	10400
98	1800	30	14000
95	2190	20	20300
90	2690	10	30500
80	3710	5	38300
70	4760	2	49600
60	6180	1	59300
50	7930		

Wabash River Basin

03342000 WABASH RIVER AT RIVERTON, IN

Location.— Lat 39°01'13", long 87°34'07" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.30, T.7 N., R.10 W., Sullivan County, IN, Hydrologic Unit 05120111, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.5 mi downstream from Turtle Creek, 2 mi south of Merom, and at mile 162.0.

Drainage area.— 13,161 mi².

Period of record.— October 1938 to current year.

Average discharge.— 12,730 ft³/s.

Minimum daily discharge.— 858 ft³/s.

Human health (harmonic mean) design flow.— 6,520 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1969 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1550	1660	1940

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1720	40	11,500
98	1990	30	15,500
95	2430	20	22,600
90	2980	10	34,000
80	4070	5	42,700
70	5240	2	54,400
60	6750	1	64,100
50	8710		

Wabash River Basin

03342100 BUSSERON CREEK NEAR HYMERA, IN

Location.— Lat 39°12'54", long 87°18'41" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.21, T.9 N., R.8 W., Sullivan County, IN, Hydrologic Unit 05120111, on right bank at downstream side of bridge on County Road 900 North, 1.3 mi upstream from East Fork Busseron Creek, 1.9 mi northwest of Hymera, 4.1 mi upstream from West Fork Busseron Creek, and at mile 30.3.

Drainage area.— 16.7 mi².

Period of record.— June 1966 to October 2003.

Average discharge.— 18.5 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	6.5
98	0.0	30	12
95	0.0	20	21
90	0.1	10	45
80	0.4	5	79
70	1.0	2	153
60	2.0	1	252
50	3.7		

Wabash River Basin

03342150 WEST FORK BUSSERON CREEK NEAR HYMERA, IN

Location.— Lat 39°11'10", long 87°19'44" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 32, T.9 N., R.8 W., Sullivan County, IN, Hydrologic Unit 05120111, on right bank at downstream side of bridge on State Highway 48; 1.4 mi upstream from mouth, 1.5 mi west of Hymera, and 3.7 mi east of U.S. Highway 41.

Drainage area.— 14.4 mi².

Period of record.— October 1966 to September 1986.

Average discharge.— 13.8 ft³/s.

Minimum daily discharge.— No flow at times most years.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	4.1
98	0.0	30	6.8
95	0.1	20	12
90	0.1	10	29
80	0.3	5	60
70	0.8	2	137
60	1.4	1	230
50	2.5		

Wabash River Basin

03342250 MUD CREEK NEAR DUGGER, IN

Location.— Lat 39°06'28", long 87°16'42" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.27, T.8 N., R.8 W., Sullivan County, Hydrologic Unit 05120111, on right bank at downstream side of bridge on County Road 700 East, 0.6 mi north of County Road 100 North, 1.7 mi upstream from mouth, and 2.5 mi northwest of Dugger.

Drainage area.— 11.9 mi².

Period of record.— June 1966 to September 1981.

Average discharge.— 14.1 ft³/s.

Minimum daily discharge.— 0.40 ft³/s.

Human health (harmonic mean) design flow.— 3.7 ft³/s.

Remarks.— Flow affected by surface-mined areas.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.7	0.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.7	40	8.7
98	1.0	30	12
95	1.3	20	17
90	1.7	10	29
80	2.5	5	50
70	3.5	2	99
60	4.9	1	149
50	6.6		

Wabash River Basin

03342300 BUSSERON CREEK NEAR SULLIVAN, IN

Location.— Lat 39°04'33", long 87°23'11" referenced to North American Datum of 1927 in SE ¼ NW ¼ sec.2, T.7 N., R.9 W., Sullivan County, IN, Hydrologic Unit 05120111, on left bank at upstream side of bridge on State Highway 54, 1.5 mi southeast of Sullivan, 1.6 mi east of intersection of U.S. Highway 41 and State Highway 54, 1.7 mi upstream from Buttermilk Creek, and at mile 16.7.

Drainage area.— 138 mi².

Period of record.— June 1966 to September 1986.

Average discharge.— 154 ft³/s.

Minimum daily discharge.— 0.90 ft³/s.

Human health (harmonic mean) design flow.— 15 ft³/s.

Remarks.— Flow affected by surface-mined areas.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.7	2.2	3.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.6	40	67
98	2.9	30	107
95	4.0	20	181
90	5.9	10	389
80	11	5	717
70	18	2	1290
60	28	1	1690
50	43		

Wabash River Basin

03342500 BUSSERON CREEK NEAR CARLISLE, IN

Location.— Lat 38°58'27", long 87°25'33" referenced to North American Datum, in NW ¼ survey 17, Vincennes Tract, Sullivan County, IN, Hydrologic Unit 05120111, on left downstream side of bridge on State Highway 58, 1.5 mi northwest of Carlisle, and 6.7 mi upstream from mouth.

Drainage area.— 228 mi².

Period of record.— October 1943 to October 2003, February 2007 to current year.

Average discharge.— 239 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 10 ft³/s.

Remarks.— Flow affected by surface-mined areas.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.6	0.9	1.4

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.7	40	93
98	1.4	30	154
95	3.3	20	270
90	6.1	10	668
80	13	5	1240
70	23	2	1990
60	37	1	2680
50	60		

Wabash River Basin

03343000 WABASH RIVER AT VINCENNES, IN

Location.— Lat 38°42'19", long 87°31'14" referenced to North American Datum, in T.3 N., R.10 W., Lawrence County, IL, Hydrologic Unit 05120111, on right bank 30 ft east of Illinois State Highway 33, 300 ft upstream from Kelso Creek, 570 ft downstream from U.S. Highway 50 bridge, 5.1 mi downstream from Maria Creek, 7.5 mi upstream from Embarras River, and at mile 129.6.

Drainage area.— 13,706 mi².

Period of record.— October 1929 to September 1994.

Average discharge.— 12,370 ft³/s.

Minimum daily discharge.— 770 ft³/s.

Human health (harmonic mean) design flow.— 6,980 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1969 to 1994.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1750	1830	2000

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1780	40	12300
98	2100	30	16300
95	2580	20	22800
90	3160	10	33000
80	4420	5	40400
70	5800	2	50800
60	7360	1	57700
50	9450		

Wabash River Basin

03347000 WHITE RIVER AT MUNCIE, IN

Location.— Lat 40°12'15", long 85°23'14" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.9, T.20 N., R.10 E., Delaware County, IN, Hydrologic Unit 05120201, on right bank 200 ft downstream from Walnut Street bridge in Muncie, 6 mi upstream from Bell Creek, and at mile 315.8.

Drainage area.— 241 mi².

Period of record.— November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie.

Average discharge.— 232 ft³/s.

Minimum daily discharge.— 1.1 ft³/s.

Human health (harmonic mean) design flow.— 31 ft³/s.

Remarks.— Natural flow affected by regulation of Prairie Creek Reservoir and by diversion of municipal water supply by Muncie Water Works Co. above gage.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.1	2.9	4.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.5	40	119
98	4.6	30	176
95	7.9	20	270
90	14	10	522
80	24	5	953
70	37	2	1810
60	56	1	2530
50	82		

Wabash River Basin

03347500 BUCK CREEK NEAR MUNCIE, IN

Location.— Lat 40°08'05", long 85°22'25" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.34, T.20 N., R.10 E., Delaware County, IN, Hydrologic Unit 05120201, on left bank at downstream side of bridge on County Road 400 South, 1.0 mi upstream from Muncie Water Works Co. pumping station, 4.2 mi southeast of Court House in Muncie, and at mile 10.6.

Drainage area.— 35.5 mi².

Period of record.— October 1954 to October 2003.

Average discharge.— 38.5 ft³/s.

Minimum daily discharge.— 4.7 ft³/s.

Human health (harmonic mean) design flow.— 22 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.7	7.5	8.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.0	40	30
98	8.6	30	36
95	10	20	45
90	12	10	68
80	16	5	108
70	19	2	193
60	22	1	272
50	25		

Wabash River Basin

03348000 WHITE RIVER AT ANDERSON, IN

Location.— Lat 40°06'20", long 85°40'16" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.18, T.19 N., R.8 E., Madison County, IN, Hydrologic Unit 05120201, on downstream side of abandoned Twelfth Street bridge abutment, 250 ft upstream from municipal water-supply plant in Anderson, 1 mi upstream from Killbuck Creek, and at mile 293.3.

Drainage area.— 406 mi².

Period of record.— October 1931 to September 1993.

Average discharge.— 394 ft³/s.

Minimum daily discharge.— 9.1 ft³/s.

Human health (harmonic mean) design flow.— 135 ft³/s.

Remarks.— Prior to Sept. 15, 1973, the City of Anderson diverted water for its municipal supply above the gage then in use.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
25	29	36

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	30	40	246
98	38	30	332
95	50	20	492
90	64	10	917
80	87	5	1520
70	112	2	2720
60	145	1	3840
50	187		

Wabash River Basin

03348020 KILLBUCK CREEK NEAR GASTON, IN

Location.— Lat 40°15'45", long 85°30'53" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.16, T.21 N., R.9 E., Delaware County, IN, Hydrologic Unit 05120201, on right bank 30 ft upstream from bridge on County Road 500 North, 3.6 mi southwest of Gaston, and at mile 15.6.

Drainage area.— 25.5 mi².

Period of record.— June 1968 to September 1991.

Average discharge.— 26.4 ft³/s.

Minimum daily discharge.— 0.76 ft³/s.

Human health (harmonic mean) design flow.— 6.9 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.0	1.1	1.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.2	40	16
98	1.5	30	22
95	2.0	20	33
90	3.0	10	59
80	4.7	5	100
70	6.4	2	179
60	8.7	1	253
50	12		

White River Basin

03348130 WHITE RIVER AT RAIBLE AVENUE AT ANDERSON, IN

Location.— Lat 40°06'38", long 85°42'39" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.11, T.19 N., R.7 E., Madison County, IN, Hydrologic Unit 05120201, on the upstream side of bridge in southeast quadrant of Raible Avenue and White River, 0.3 mi upstream of waste-water treatment plant, 2 mi downstream of Killbuck Creek, and 3.0 mi downstream of the municipal power plant in Anderson.

Drainage area.— 519 mi².

Period of record.— September 1999 to current year.

Average discharge.— 660 ft³/s.

Minimum daily discharge.— 62 ft³/s.

Human health (harmonic mean) design flow.— 253 ft³/s.

Remarks.— Flow may be affected at times by upstream regulation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
69	72	80

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	78	40	433
98	85	30	558
95	96	20	781
90	114	10	1330
80	154	5	2240
70	202	2	4160
60	262	1	6360
50	338		

Wabash River Basin

03348350 PIPE CREEK AT FRANKTON, IN

Location.— Lat 40°13'38", long 85°45'58" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.31, T.21 N., R.7 E., Madison County, IN, Hydrologic Unit 05120201, on right bank 20 ft downstream from bridge on County Road 500 West, at northeast edge of Frankton, 1.88 mi downstream of Plummer Brook mouth, and at mile 10.35.

Drainage area.— 113 mi².

Period of record.— May 1968 to October 2003.

Average discharge.— 109 ft³/s.

Minimum daily discharge.— 2.0 ft³/s.

Human health (harmonic mean) design flow.— 23 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.6	4.0	4.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.3	40	56
98	5.5	30	79
95	7.2	20	124
90	9.2	10	251
80	15	5	463
70	21	2	847
60	30	1	1170
50	41		

Wabash River Basin

03348500 WHITE RIVER NEAR NOBLESVILLE, IN

Location.— Lat 40°07'46", long 85°57'46" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.4, T.19 N., R.5 E., Hamilton County, IN, Hydrologic Unit 05120201, near center of span on downstream side of highway bridge, 1 mi west of Strawtown, 7 mi northeast of Noblesville, 9.5 mi upstream from Cicero Creek, and at mile 277.4.

Drainage area.— 828 mi².

Period of record.— May 1915 to September 1926, October 1928 to September 1974.

Average discharge.— 794 ft³/s.

Minimum daily discharge.— 39 ft³/s.

Human health (harmonic mean) design flow.— 252 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
60	66	76

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	67	40	470
98	77	30	659
95	94	20	993
90	114	10	1820
80	147	5	2980
70	192	2	5260
60	255	1	7550
50	350		

Wabash River Basin

03349000 WHITE RIVER AT NOBLESVILLE, IN

Location.— Lat 40°02'49", long 86°01'02" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.36, T.19 N., R.4 E., Hamilton County, IN, Hydrologic Unit 05120201, on right bank at downstream side of Logan Street bridge in Noblesville, 1.5 mi upstream from Cicero Creek, 5.1 mi downstream from dam at Clare, and at mile 263.5.

Drainage area.— 858 mi².

Period of record.— October 1946 to current year.

Average discharge.— 906 ft³/s.

Minimum daily discharge.— 44 ft³/s.

Human health (harmonic mean) design flow.— 316 ft³/s.

Remarks.— Flow partially regulated by the power plant above the station.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
70	82	96

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	90	40	571
98	100	30	780
95	118	20	1140
90	142	10	2050
80	187	5	3410
70	248	2	5590
60	327	1	7710
50	430		

White River Basin

03349210 CICERO CREEK AT TIPTON, IN

Location.— Lat 40°16'37", long 86°02'33", referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.11, T.21 N., R.4 E., Tipton County, IN, Hydrologic Unit 05120201, on left downstream northeast corner of brick building, 400 ft west of S.R. 19 bridge, 0.3 mi south southwest of courthouse, and at mile 27.9.

Drainage area.— 81.3 mi².

Period of record.— October 2007 to current year.

Average discharge.— 111 ft³/s.

Minimum daily discharge.— 0.06 ft³/s.

Human health (harmonic mean) design flow.— 3.6 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.5	0.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.5	40	50
98	0.6	30	74
95	0.9	20	136
90	1.4	10	304
80	3.0	5	508
70	7.6	2	888
60	20	1	1210
50	34		

Wabash River Basin

03349500 CICERO CREEK NEAR ARCADIA, IN

Location.— Lat 40°10'34", long 85°59'43" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.20, T.20 N., R.5 E., Hamilton County, IN, Hydrologic Unit 05120201, on left bank at downstream side of bridge, 1.5 mi east of Arcadia, 12.5 mi upstream from Morse Dam, and at mile 17.2.

Drainage area.— 131 mi².

Period of record.— October 1954 to September 1976.

Average discharge.— 122 ft³/s.

Minimum daily discharge.— 0.50 ft³/s.

Human health (harmonic mean) design flow.— 10 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.8	1.1	1.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.2	40	61
98	1.6	30	94
95	2.1	20	153
90	3.4	10	309
80	7.7	5	548
70	15	2	904
60	25	1	1270
50	40		

Wabash River Basin

03349510 CICERO CREEK AT ARCADIA, IN

Location.— Lat 40°10'28", long 86°00'02" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.19, T.20 N., R.5 E., Hamilton County, IN, Hydrologic Unit 05120201, affixed to the southeast abutment of the Mt. Pleasant Road bridge over Cicero Creek, 600 ft south of 266th Street, 3500 ft east of State Road 19, 0.9 mi north of 256th Street, and 1.2 mile west of Fall Road.

Drainage area.— 131 mi².

Period of record.— July 12, 2004, to current year.

Average discharge.— 167 ft³/s.

Minimum daily discharge.— 0.73 ft³/s.

Human health (harmonic mean) design flow.— 12 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.9	1.0	1.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.5	40	81
98	1.9	30	122
95	2.7	20	210
90	4.5	10	413
80	8.3	5	782
70	18	2	1480
60	34	1	1960
50	56		

Wabash River Basin

03349700 LITTLE CICERO CREEK NEAR ARCADIA, IN

Location.— Lat 40°10'32", long 86°02'45" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.23, T.20 N., R.4 E., Hamilton County, IN, Hydrologic Unit 05120201, on left bank at downstream side of county road bridge, 0.5 mi downstream from Taylor Creek, 1.3 mi west of Arcadia, 3.9 mi upstream from mouth, and 9.3 mi northwest of Noblesville.

Drainage area.— 40.4 mi².

Period of record.— October 1955 to September 1976.

Average discharge.— 39.7 ft³/s.

Minimum daily discharge.— No flow at times during many years.

Human health (harmonic mean) design flow.— 2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	18
98	0.0	30	28
95	0.3	20	50
90	0.8	10	97
80	1.8	5	172
70	3.5	2	320
60	6.8	1	466
50	11		

Wabash River Basin

03350100 HINKLE CREEK NEAR CICERO, IN

Location.— Lat 40°06'05", long 86°05'10" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.16, T.19 N., R.4 E., Hamilton County, IN, Hydrologic Unit 05120201, on left bank at downstream side of county road bridge, 3.7 mi above mouth, 4.0 mi upstream from Morse Reservoir Dam, 4.2 mi southwest of Cicero, and 5.7 mi northwest of Noblesville.

Drainage area.— 18.5 mi².

Period of record.— October 1955 to September 1976.

Average discharge.— 19.6 ft³/s.

Minimum daily discharge.— 0.07 ft³/s.

Human health (harmonic mean) design flow.— 2.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	9.5
98	0.4	30	14
95	0.6	20	21
90	0.9	10	43
80	1.5	5	74
70	2.5	2	146
60	4.1	1	250
50	6.4		

Wabash River Basin

03350500 CICERO CREEK AT NOBLESVILLE, IN

Location.— Lat 40°03'20", long 86°02'30" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.35, T.19 N., R.4 E., Hamilton County, IN, Hydrologic Unit 05120201, on right bank 150 ft downstream from bridge on Stage Highway 38, 1.0 mi northwest of Noblesville, 1.6 mi downstream from Morse Reservoir, 1.9 mi downstream from Hinkle Creek, and 3.2 mi upstream from mouth.

Drainage area.— 216 mi².

Period of record.— July 1950 to September 1980 and October 1985 to September 1992.

Average discharge.— 197 ft³/s.

Minimum daily discharge.— 0.25 ft³/s.

Human health (harmonic mean) design flow.— 9.5 ft³/s.

Remarks.— Flow regulated by Morse Reservoir. Low-flow statistics are calculated for the regulated period 1958 to 1980, and 1985 to 1992.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.6	0.8	1.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.9	40	105
98	1.1	30	153
95	1.7	20	241
90	2.6	10	479
80	11	5	848
70	26	2	1490
60	46	1	2090
50	72		

White River Basin

03350655 STONY CREEK AT FISHERSBURG, IN

Location.— Lat 40°03'58", long 85°51'47" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.29, T.19 N., R.6 E., Hamilton County, IN, Hydrologic Unit 05120201, on middle of bridge on CR 1000W, 1 mi from Lapel, 5.8 mi northwest of I-69, and at river mile 11.71

Drainage area.— 17.5 mi².

Period of record.— October 2008 to current year.

Average discharge.— 21.7 ft³/s.

Minimum daily discharge.— 0.27 ft³/s.

Human health (harmonic mean) design flow.— 3.0 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	12
98	0.6	30	16
95	0.8	20	26
90	1.0	10	50
80	2.4	5	86
70	3.6	2	151
60	5.6	1	219
50	8.5		

White River Basin

03350660 WILLIAM LOCK DITCH NEAR DURBIN, IN

Location.— Lat 40°04'25", long 85°55'30" referenced to North American Datum of 1927, in SW ¼ SE ¼ SE ¼ sec.23, T.19 N., R.5 E., Hamilton County, IN, Hydrologic Unit 05120201, on the downstream side middle of two concrete culverts at on Mystic Road, 2.4 mi from 196th St., 8.8 mi from Highway 37, and at mile 0.35.

Drainage area.— 11.0 mi².

Period of record.— September 2008 to current year.

Average discharge.— 16.4 ft³/s.

Minimum daily discharge.— 0.27 ft³/s.

Human health (harmonic mean) design flow.— 5.1 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.3	0.4	0.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.1	40	12
98	1.4	30	16
95	1.8	20	24
90	2.4	10	42
80	3.5	5	59
70	4.6	2	94
60	6.1	1	129
50	8.7		

Wabash River Basin

03350700 STONEY CREEK NEAR NOBLESVILLE, IN

Location.— Lat 40°01'44", long 85°59'44" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.7, T.18 N., R.5 E., Hamilton County, IN, Hydrologic Unit 05120201, on right bank, between dual bridges on State Road 37, 1.2 mi south of intersection of State Road 38 and State Road 37, 1.4 mi upstream from mouth, and 1.4 mi southeast of Noblesville.

Drainage area.— 50.8 mi².

Period of record.— July 1967 to current year.

Average discharge.— 54.2 ft³/s.

Minimum daily discharge.— 0.88 ft³/s.

Human health (harmonic mean) design flow.— 15 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.4	2.6	3.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.0	40	34
98	3.5	30	47
95	4.6	20	69
90	6.2	10	122
80	9.2	5	194
70	13	2	337
60	18	1	508
50	25		

White River Basin

03350800 WHITE RIVER AT 146TH ST NEAR NOBLESVILLE, IN

Location.— Lat 40°00'01", long 86°01'21" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.13, T.17 N., R.4 E., Hamilton County, IN, Hydrologic Unit 05120201, on the southeast corner of the 146th Street bridge, 25 feet south of centerline of eastbound lanes, 1035 ft west of Allisonville Road, and at mile 258.96.

Drainage area.— 1,142 mi².

Period of record.— July 2006 to current year.

Average discharge.— 1,518 ft³/s.

Minimum daily discharge.— 150 ft³/s.

Human health (harmonic mean) design flow.— 403 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
84	99	116

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	158	40	990
98	166	30	1380
95	183	20	2080
90	206	10	3480
80	258	5	5970
70	332	2	9400
60	469	1	12600
50	711		

Wabash River Basin

03351000 WHITE RIVER NEAR NORA, IN

Location.— Lat 39°54'38", long 86°06'20" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.20, T.17 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on right upstream corner of bridge on 82nd Street, 2 mi east of Nora, 3.75 mi upstream of the Indianapolis Water Company dam at Broad Ripple, 14 mi upstream from Fall Creek, and at mile 247.9.

Drainage area.— 1,219 mi².

Period of record.— October 1929 to current year.

Average discharge.— 1,201 ft³/s.

Minimum daily discharge.— 49 ft³/s.

Human health (harmonic mean) design flow.— 442 ft³/s.

Remarks.— Prior to October 1948, published as West Fork White River near Nora. Flow partially regulated by Morse Reservoir. Low-flow statistics calculated for regulated period, 1957 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
114	123	139

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	132	40	822
98	141	30	1140
95	163	20	1650
90	191	10	2900
80	257	5	4690
70	348	2	7680
60	464	1	10300
50	614		

White River Basin

03351072 WILLIAMS CREEK AT 96TH STREET, INDIANAPOLIS, IN

Location.— Lat 39°55'37", long 86°10'20" referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec.10, T.17 N., R.3 E., Hamilton County, IN, Hydrologic Unit 05120201, on upstream left edge of bridge, 0.63 mi east of 96th Street and Ditch Road, 0.75 mi west of 96th Street and Highway 31, and at mile 5.13.

Drainage area.— 16.3 mi².

Period of record.— August 2007 to current year.

Average discharge.— 26.4 ft³/s.

Minimum daily discharge.— 0.08 ft³/s.

Human health (harmonic mean) design flow.— 2.9 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	15
98	0.4	30	21
95	0.6	20	34
90	0.9	10	62
80	2.8	5	102
70	5.1	2	172
60	7.3	1	256
50	10		

Wabash River Basin

03351310 CROOKED CREEK AT INDIANAPOLIS, IN

Location.— Lat 39°49'47", long 86°12'22" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.16, T.16 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on left bank 150 ft downstream from 42nd Street bridge in Indianapolis, at river mile 1.6, 2.3 mi west-northwest of burial plot of John Dillinger in Crown Hill Cemetery, and 2.35 mi northeast of Indianapolis Motor Speedway.

Drainage area.— 17.9 mi².

Period of record.— June 1969 current year.

Average discharge.— 20.3 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 3.8 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.4	0.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.5	40	11
98	0.7	30	16
95	1.1	20	23
90	1.7	10	42
80	2.8	5	71
70	4.2	2	135
60	5.9	1	225
50	8.0		

Wabash River Basin

03351400 SUGAR CREEK NEAR MIDDLETOWN, IN

Location.— Lat 40°02'27", long 85°31'30" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.5, T.18 N., R.9 E., Henry County, IN, Hydrologic Unit 05120201, on right bank 90 ft upstream from bridge on County Road 750 North, 1 mi southeast of Middletown.

Drainage area.— 5.8 mi².

Period of record.— October 1968 to September 1989.

Average discharge.— 5.76 ft³/s.

Minimum daily discharge.— 0.02 ft³/s.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	2.4
98	0.1	30	3.6
95	0.1	20	5.9
90	0.2	10	13
80	0.3	5	25
70	0.5	2	49
60	0.9	1	73
50	1.5		

Wabash River Basin

03351500 FALL CREEK NEAR FORTVILLE, IN

Location.— Lat 39°57'17", long 85°52'03" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.5, T.17 N., R.6 E., Hamilton County, IN, Hydrologic Unit 05120201, on right bank 100 ft downstream from bridge on State Highway 238, 0.2 mi downstream from Lick Creek, 2 mi northwest of Fortville, and at mile 26.1.

Drainage area.— 169 mi².

Period of record.— July 1941 to current year.

Average discharge.— 184 ft³/s.

Minimum daily discharge.— 7.0 ft³/s.

Human health (harmonic mean) design flow.— 68 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
15	16	19

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	18	40	125
98	21	30	164
95	26	20	231
90	33	10	380
80	43	5	607
70	57	2	1070
60	75	1	1590
50	96		

Wabash River Basin

03352200 MUD CREEK AT INDIANAPOLIS, IN

Location.— Lat 39°53'30", long 86°00'57" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.25, T.17 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on left bank at downstream side of Lantern Road bridge, 0.2 mi northeast of 75th Street and Sargent Road intersection, 1.5 mi upstream from mouth, and 2.0 mi southeast of Castleton.

Drainage area.— 42.4 mi².

Period of record.— May 1958 to September 1976.

Average discharge.— 37.2 ft³/s.

Minimum daily discharge.— 0.2 ft³/s.

Human health (harmonic mean) design flow.— 5.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.5	0.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.6	40	20
98	0.9	30	28
95	1.6	20	45
90	2.4	10	89
80	4.0	5	153
70	5.9	2	274
60	8.8	1	422
50	14		

Wabash River Basin

03352500 FALL CREEK AT MILLERSVILLE, IN

Location.— Lat 39°51'07", long 86°05'15" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.9, T.16 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on right bank at downstream side of Emerson Way bridge at Millersville, 2.4 mi upstream of Keystone Avenue, 2.9 mi downstream of Interstate 465, and 9.2 mi upstream from mouth.

Drainage area.— 298 mi².

Period of record.— October 1929 to current year.

Average discharge.— 307 ft³/s.

Minimum daily discharge.— 7.8 ft³/s.

Human health (harmonic mean) design flow.— 114 ft³/s.

Remarks.— Flow regulated by Geist Reservoir. Low-flow statistics calculated for the regulated period, 1943 to 1993.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
34	36	41

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	36	40	203
98	41	30	279
95	47	20	413
90	55	10	719
80	67	5	1150
70	82	2	2000
60	108	1	2750
50	149		

White River Basin

03352875 FALL CREEK AT 16TH STREET AT INDIANAPOLIS, IN

Location.— Lat 39°47'20", long 86°10'40" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.35, T.16 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on left bank 120 ft upstream from 16th Street on Aqueduct Street, 1.3 mi upstream from mouth.

Drainage area.— 317 mi².

Period of record.— October 1985 to September 1991.

Average discharge.— 337 ft³/s.

Minimum daily discharge.— 18 ft³/s.

Human health (harmonic mean) design flow.— 110 ft³/s.

Remarks.— This site has less than 10 years of record. Natural flow affected by regulation of Geist Reservoir and by diversion of municipal water supply of Indianapolis.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
18	23	28

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	26	40	249
98	29	30	322
95	36	20	437
90	46	10	739
80	63	5	1250
70	93	2	2000
60	136	1	2640
50	188		

White River Basin

03352953 WHITE RIVER AT MICHIGAN STREET AT INDIANAPOLIS, IN

Location.— Lat 39°46'29", long 86°11'23" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.3, T.15 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on the southwest corner of the Michigan Street bridge, 0.34 mi downstream of 10th Street bridge, 0.38 mi downstream of the mouth of Fall Creek, 1.7 mi northwest of Monument Circle, and at mile 233.3.

Drainage area.— 1,622 mi².

Period of record.— September 2004 to current year.

Average discharge.— 2,083 ft³/s.

Minimum daily discharge.— 52 ft³/s.

Human health (harmonic mean) design flow.— 383 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
57	68	88

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	119	40	1400
98	132	30	1880
95	156	20	2780
90	199	10	4790
80	317	5	7970
70	479	2	12700
60	722	1	17400
50	1050		

White River Basin

03352988 POGUES RUN AT VERMONT STREET AT INDIANAPOLIS, IN

Location.— Lat 39°46'20", long 86°08'22" referenced to North American Datum of 1927, in SW ¼ NW ¼ SW ¼ sec.6, T.15 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on the downstream left edge bank at bridge, 0.2 mi east of I-65/I-70, 0.4 mi north of Washington Street, and at river mile 2.43.

Drainage area.— 9.74 mi².

Period of record.— January 2007 to current year.

Average discharge.— 7.33 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0	0	0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0	40	3.3
98	0	30	4.9
95	0	20	8.3
90	0.2	10	17
80	0.6	5	32
70	1.2	2	58
60	1.8	1	85
50	2.4		

Wabash River Basin

03353000 WHITE RIVER AT INDIANAPOLIS, IN

Location.— Lat 39°44'14", long 86°10'08" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.14, T.15 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on left bank under Raymond Street bridge in Indianapolis, 2.3 mi upstream from Eagle Creek, 2.9 mi upstream from Indianapolis Power and Light Company dam, 3.7 mi downstream from Fall Creek, and at mile 229.2.

Drainage area.— 1,635 mi².

Period of record.— March 1904 to July 1906 and April 1930 to current year.

Average discharge.— 1,532 ft³/s.

Minimum daily discharge.— 8.0 ft³/s.

Human health (harmonic mean) design flow.— 414 ft³/s.

Remarks.— Stage-discharge relation affected at times by large releases from Eagle Creek and by variable leakage at Indianapolis Power and Light Company dam. Natural flow affected by regulation of Morse Reservoir and Geist Reservoir and by diversion of municipal water supply by the Indianapolis Water Company. Low-flow statistics are calculated for the regulated period, 1943 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
62	73	95

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	78	40	1040
98	93	30	1450
95	121	20	2130
90	160	10	3760
80	249	5	6050
70	380	2	10,100
60	545	1	13,200
50	753		

Wabash River Basin

03353120 PLEASANT RUN AT ARLINGTON AVENUE AT INDIANAPOLIS, IN

Location.— Lat 39°46'33", long 86°03'50" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.2, T.15 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on right bank 46 ft upstream from Arlington Avenue bridge in Indianapolis, 0.5 mi downstream from small left-bank tributary, and at mile 7.9.

Drainage area.— 7.58 mi².

Period of record.— December 1959 to current year.

Average discharge.— 8.76 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.1	0.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	2.9
98	0.2	30	4.5
95	0.3	20	7.6
90	0.5	10	19
80	0.8	5	39
70	1.1	2	80
60	1.5	1	126
50	2.0		

Wabash River Basin

03353160 PLEASANT RUN AT BROOKVILLE ROAD AT INDIANAPOLIS, IN

Location.— Lat 39°45'52", long 86°05'43" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.9, T.15 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on right bank at downstream side of Brookville Road bridge in Indianapolis, 2.2 mi downstream from Arlington Avenue, and at mile 5.7.

Drainage area.— 10.1 mi².

Period of record.— November 1959 to May 1981.

Average discharge.— 10.1 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	3.5
98	0.0	30	5.2
95	0.0	20	8.7
90	0.4	10	21
80	0.8	5	42
70	1.3	2	93
60	1.8	1	152
50	2.5		

Wabash River Basin

03353180 BEAN CREEK AT INDIANAPOLIS, IN

Location.— Lat 39°43'45", long 86°07'14" referenced to North American Datum of 1927 in NW ¼ SW ¼ sec.20, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on left bank 80 ft upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis, and at mile 1.8.

Drainage area.— 4.4 mi².

Period of record.— October 1970 to September 1993.

Average discharge.— 5.37 ft³/s.

Minimum daily discharge.— 0.30 ft³/s.

Human health (harmonic mean) design flow.— 2.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.5	0.6	0.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.7	40	3.3
98	0.8	30	4.2
95	1.0	20	6.1
90	1.3	10	11
80	1.7	5	19
70	2.0	2	33
60	2.3	1	48
50	2.7		

Wabash River Basin

03353200 EAGLE CREEK AT ZIONSVILLE, IN

Location.— Lat 39°56'47", long 86°15'37" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.2, T.17 N., R.2 E., Boone County, IN, Hydrologic Unit 05120201, on right upstream end of Zionsville Road bridge over Eagle Creek, 0.15 mi south of Highway 334, 0.34 mi downstream from Long Branch Ditch, 1.0 mi downstream from Little Eagle Creek, and at mile 24.4.

Drainage area.— 106 mi².

Period of record.— October 1957 to current year.

Average discharge.— 106 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 2.7 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	50
98	0.0	30	75
95	0.6	20	122
90	1.7	10	237
80	5.1	5	441
70	12	2	850
60	21	1	1360
50	33		

White River Basin

03353460 EAGLE CREEK AT CLERMONT, IN

Location.— Lat 39°48'52", long 86°18'19" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.22, T.16 N., R.2 E., Marion County, IN, Hydrologic Unit 05120201, on right bank at bridge abutment at the end of Salt Lake Road, 400 ft north of intersection of Salt Lake Road and Dandy Trail, 0.9 mi northeast of Clermont, and at mile 11.4.

Drainage area.— 164 mi².

Period of record.— June 2006 to current year.

Average discharge.— 213 ft³/s.

Minimum daily discharge.— 6.5 ft³/s.

Human health (harmonic mean) design flow.— 26 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.5	8.6	9.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.3	40	93
98	8.8	30	171
95	10	20	271
90	12	10	511
80	14	5	925
70	16	2	1580
60	18	1	2370
50	38		

Wabash River Basin

03353500 EAGLE CREEK AT INDIANAPOLIS, IN

Location.— Lat 39°46'40", long 86°15'01" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.6, T.15 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on the upstream side of bridge on Lynhurst Drive, approximately 600 ft south of intersection of West 10th Street and Lynhurst Drive, 0.5 mi downstream from West 10th Street bridge, 1.0 mi upstream from Vermont Street bridge, 3.0 mi upstream from Little Eagle Creek, and 7.1 mi upstream from mouth.

Drainage area.— 174 mi².

Period of record.— November 1938 to current year.

Average discharge.— 163 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 22 ft³/s.

Remarks.— Flow regulated since November 1969 by Eagle Creek Reservoir, 4.7 mi upstream (see station 03353450). Low-flow statistics are calculated for the regulated period, 1970 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.2	3.9	5.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.6	40	76
98	4.8	30	136
95	7.1	20	213
90	9.7	10	422
80	14	5	736
70	17	2	1390
60	24	1	2040
50	35		

Wabash River Basin

03353551 LITTLE EAGLE CREEK AT 52ND STREET AT INDIANAPOLIS, IN

Location.— Lat 39°50'45", long 86°14'55" referenced to North American Datum of 1927 in NE ¼ SW ¼ sec.7, T.16 N., R.2 E., Marion County, IN, Hydrologic Unit 05120201, on right bank at downstream side of West 52nd Street, 0.4 mi east of Lafayette Road, 1.1 mi upstream from Guion Creek, and at mile 7.2

Drainage area.— 6.28 mi².

Period of record.— October 1989 to September 2000.

Average discharge.— 9.78 ft³/s.

Minimum daily discharge.— 0.10 ft³/s.

Human health (harmonic mean) design flow.— 1.7 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	4.2
98	0.3	30	6.0
95	0.5	20	9.5
90	0.7	10	20
80	1.1	5	38
70	1.7	2	80
60	2.4	1	136
50	3.2		

Wabash River Basin

03353560 GUION CREEK ABOVE 52ND STREET AT INDIANAPOLIS, IN

Location.— Lat 39°50'45", long 86°13'57" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.08., T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank 25 ft upstream from private bridge, 0.2 mi north of West 52nd Street along Guion Road, and 1.25 mi upstream of the confluence with Little Eagle Creek.

Drainage area.— 4.10 mi².

Period of record.— October 1989 to September 2001.

Average discharge.— 4.72 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	2.1
98	0.0	30	3.1
95	0.1	20	4.9
90	0.2	10	9.9
80	0.4	5	20
70	0.7	2	40
60	1.0	1	60
50	1.5		

Wabash River Basin

03353583 FALCON CREEK AT 30TH STREET AT INDIANAPOLIS, IN

Location.— Lat 39°48'33", long 86°13'56" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.29, T.16 N., R.03 E., Marion County, IN, Hydrologic Unit 05120201, on left bank, 150 ft downstream from bridge on West 30th Street, 0.6 mi west of Lafayette Road, and 0.6 mi upstream of confluence with Little Eagle Creek.

Drainage area.— 4.15 mi².

Period of record.— October 1989 to September 2001.

Average discharge.— 4.30 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	1.6
98	0.1	30	2.5
95	0.2	20	4.2
90	0.3	10	9.5
80	0.4	5	19
70	0.6	2	37
60	0.8	1	57
50	1.2		

Wabash River Basin

03353600 LITTLE EAGLE CREEK AT SPEEDWAY, IN

Location.— Lat 39°47'15", long 86°13'43" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.32, T.16 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on right bank at downstream side of 16th Street bridge in Speedway, 0.6 mi upstream from Dry Run, and 2.3 mi upstream from mouth.

Drainage area.— 24.3 mi², including 5.57 mi² from Dry Run basin. Since June 1964, part of the flow from the 5.57 mi² of Dry Run basin has been diverted into Little Eagle Creek above gage.

Period of record.— October 1959 to current year.

Average discharge.— 27.2 ft³/s (for water years 1965 to current year).

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 2.9 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	13
98	0.4	30	18
95	0.8	20	29
90	1.4	10	57
80	2.6	5	104
70	4.2	2	198
60	6.1	1	305
50	8.7		

Wabash River Basin

03353611 WHITE RIVER AT STOUT GEN. STN. AT INDIANAPOLIS, IN

Location.— Lat 39°42'52", long 86°12'02" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.28, T.15 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on right bank 0.34 mi above confluence with Lick Creek, 0.63 mi west of South Harding Street, 1.42 mi east of Lockburn Street and 1.46 mi south of Raymond Street, and at mile 226.3.

Drainage area. — 1,898 mi².

Period of record.— October 1992 to current year.

Average discharge.— 2,162 ft³/s.

Minimum daily discharge.— 150 ft³/s.

Human health (harmonic mean) design flow.— 752 ft³/s.

Remarks.— Natural flow affected by regulation of Morse Reservoir, Geist Reservoir, and Eagle Creek Reservoir and by diversion of municipal water supply by the Indianapolis Water Company.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
152	171	222

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	189	40	1520
98	212	30	2030
95	263	20	2890
90	318	10	4880
80	439	5	7870
70	615	2	12600
60	838	1	16900
50	1130		

Wabash River Basin

03353620 LICK CREEK AT INDIANAPOLIS, IN

Location.— Lat 39°42'21", long 86°06'13" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.32, T.15 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on left bank, at upstream side of Sherman Drive bridge in Indianapolis, 0.35 mi downstream of Beach Creek mouth, 5.1 mi west of Wanamaker, IN, and at mile 6.2.

Drainage area. — 15.6 mi².

Period of record.— October 1970 to current year.

Average discharge.— 21.1 ft³/s.

Minimum daily discharge.— 0.05 ft³/s.

Human health (harmonic mean) design flow.— 2.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	10
98	0.4	30	15
95	0.7	20	23
90	1.2	10	47
80	2.4	5	84
70	3.7	2	167
60	5.2	1	243
50	7.2		

Wabash River Basin

03353630 LITTLE BUCK CREEK NEAR SOUTHPORT, IN

Location.— Lat 39°40'11", long 86°04'57" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.10, T.14 N., T.4 E., Marion County, Hydrologic Unit 05120201, on right bank 5 ft upstream from Emerson Avenue bridge in Indianapolis, 1.1 mi downstream from Bunker Creek, and 2.5 mi upstream from Derbyshire Creek.

Drainage area. — 5.75 mi².

Period of record.— October 1989 to September 2000.

Average discharge.— 8.54 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 0.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	3.5
98	0.0	30	5.2
95	0.0	20	8.3
90	0.1	10	17
80	0.4	5	36
70	0.8	2	78
60	1.5	1	119
50	2.4		

Wabash River Basin

03353635 DERBYSHIRE CREEK AT SOUTHPORT, IN

Location.— Lat 39°40'15", long 86°07'21" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.07, T.14 N., R.04 E., Marion County, IN, Hydrologic Unit 05120201, on left bank, 10 ft downstream from bridge on Derbyshire Road, 0.25 mi south of Fairhope Drive, and 0.3 mi upstream from mouth.

Drainage area. — 1.76 mi².

Period of record.— September 1989 to December 2001.

Average discharge.— 2.68 ft³/s.

Minimum daily discharge.— 0.03 ft³/s.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	1.3
98	0.1	30	1.7
95	0.1	20	2.5
90	0.2	10	4.7
80	0.4	5	10
70	0.6	2	22
60	0.7	1	31
50	0.9		

Wabash River Basin

03353636 LITTLE BUCK CREEK AT SOUTHPORT, IN

Location.— Lat 39°39'54", long 86°08'11" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.7, T.14 N., R.4 E., Marion County, IN, Hydrologic Unit 05120201, on left bank 50 ft downstream from Southport Road bridge in Indianapolis, 0.6 mi west of U.S. Highway 31, and at mile 9.52.

Drainage area. — 10.8 mi².

Period of record.— October 1989 to December 2001.

Average discharge.— 16.3 ft³/s.

Minimum daily discharge.— 0.09 ft³/s.

Human health (harmonic mean) design flow.— 1.7 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	8.0
98	0.2	30	12
95	0.4	20	18
90	0.7	10	33
80	1.6	5	61
70	2.7	2	134
60	4.1	1	181
50	5.8		

Wabash River Basin

03353637 LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN

Location.— Lat 39°40'00", long 86°11'47" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.10, T.14 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on right bank, 10 ft upstream from bridge on South Belmont Street, 0.75 mi west of State Road 37, 1.5 mi south of Interstate 465, and 2.2 mi above mouth.

Drainage area. — 17.0 mi².

Period of record.— October 1989 to current year.

Average discharge.— 23.5 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 1.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	13
98	0.0	30	18
95	0.0	20	26
90	0.0	10	49
80	1.7	5	87
70	4.0	2	179
60	6.1	1	280
50	8.8		

White River Basin

03353660 WHITE RIVER AT WAVERLY, IN

Location.— Lat 39°33'35", long 86°16'29" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.23., T.13., R.2E., Morgan County, IN, Hydrologic Unit 05120201, on left bank 82 ft upstream from bridge on State Highway 144, 0.6 mi downstream from North Bluff Creek, and at mile 211.0.

Drainage area. — 2,026 mi².

Period of record.— July 1986 to September 1988.

Average discharge.— 1,253 ft³/s.

Minimum daily discharge.— 247 ft³/s.

Human health (harmonic mean) design flow.— 743 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
268	279	296

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	247	40	1070
98	262	30	1340
95	281	20	1790
90	308	10	2500
80	361	5	3270
70	506	2	5000
60	779	1	7000
50	921		

Wabash River Basin

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN

Location.— Lat 39°45'39", long 86°30'54" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.3., T.15 N., R.1 W., Hendricks County, IN, Hydrologic Unit 05120201, at Danville Filtration Plant, 600 ft upstream of U.S. Highway 36 bridge, 0.6 mi upstream from small left-bank tributary, and 7 mi west of Avon.

Drainage area. — 28.8 mi².

Period of record.— May 1958 to October 2003.

Average discharge.— 31.4 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.5 ft³/s.

Remarks.— Low flow affected by releases from Danville Filtration Plant.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	14
98	0.0	30	21
95	0.1	20	35
90	0.2	10	74
80	0.8	5	136
70	2.2	2	250
60	4.8	1	384
50	8.4		

Wabash River Basin

03353800 WHITE LICK CREEK AT MOORSEVILLE, IN

Location.— Lat 39°36'28", long 86°22'56" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.35, T.14 N., R.1 E., Morgan County, IN, Hydrologic Unit 05120201, on bridge rail center of upstream side of bridge on State Highway 42 at Mooresville, 0.9 mi downstream from McCracken Creek, 2.0 mi upstream from East Fork White Lick Creek, and at mile 11.4.

Drainage area. — 212 mi².

Period of record.— August 1957 to current year.

Average discharge.— 234 ft³/s.

Minimum daily discharge.— 0.68 ft³/s.

Human health (harmonic mean) design flow.— 36 ft³/s.

Remarks.— Pumpage from a well field upstream of gage may affect low flows.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.0	3.9	5.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.6	40	133
98	6.1	30	185
95	9.4	20	280
90	15	10	505
80	27	5	834
70	42	2	1580
60	66	1	2570
50	96		

White River Basin

03353885 EAST FORK WHITE LICK CREEK AT BRIDGEPORT, IN

Location.— Lat 39°43'45", long 86°19'22" referenced to North American Datum of 1927, in sec.21, T.15 N., R.2 E., Marion County, IN, Hydrologic Unit 05120201, on the left upstream side of abandoned bridge, on the west side of Bridgeport, 3.2 mi west of I-465 and at river mile 11.48.

Drainage area.— 23.6 mi².

Period of record.— October 2006 to current year.

Average discharge.— 38.5 ft³/s.

Minimum daily discharge.— 1.0 ft³/s.

Human health (harmonic mean) design flow.— 5.3 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.7	0.8	1.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.5	40	24
98	1.8	30	32
95	2.2	20	45
90	2.8	10	76
80	4.7	5	124
70	8.3	2	232
60	13	1	395
50	18		

White River Basin

03353890 EAST FORK WHITE LICK CREEK NEAR CAMBY, IN

Location.— Lat 39°41'22", long 86°20'00" referenced to North American Datum of 1927, in SE ¼ SW ¼ NE ¼ sec.5, T.14 N., R.2 E., Hendricks County, IN, Hydrologic Unit 05120201, on right upstream wingwall of bridge, 0.15 mi north of intersection of I-70 and 6 Points Road (Ronald Regan Expressway), 1 mi north of U.S Hwy 40, 3 mi west of Indianapolis and at river mile 8.24.

Drainage area.— 33.0 mi².

Period of record.— November 2006 to current year.

Average discharge.— 57.7 ft³/s.

Minimum daily discharge.— 1.1 ft³/s.

Human health (harmonic mean) design flow.— 7.7 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.6	1.9	2.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.7	40	33
98	2	30	47
95	3	20	70
90	4.1	10	116
80	6.6	5	194
70	11	2	371
60	17	1	643
50	24		

White River Basin

03353910 EAST FORK WHITE LICK CREEK NEAR MOORSEVILLE, IN

Location.— Lat 39°37'42", long 86°21'26" referenced to North American Datum of 1927, in SE ¼ NE ¼ NW ¼ sec.30, T.14 N., R.2 E., Morgan County, IN, Hydrologic Unit 05120201, on right bank 150 ft upstream of covered footbridge in Pioneer Park, 25 ft downstream of Silon Creek, 8.7 mi southwest of Old 67 and at 2.86 river mile.

Drainage area.— 48.0 mi².

Period of record.— March 2007 to current year.

Average discharge.— 76.6 ft³/s.

Minimum daily discharge.— 3.3 ft³/s.

Human health (harmonic mean) design flow.— 11 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.4	1.8	2.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.4	40	48
98	4.9	30	61
95	5.6	20	82
90	6.8	10	142
80	11	5	255
70	19	2	486
60	28	1	846
50	38		

Wabash River Basin

03354000 WHITE RIVER NEAR CENTERTON, IN

Location.— Lat 39°29'51", long 86°24'02" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.10, T.12 N., R.1 E., Morgan County, IN, Hydrologic Unit 05120201, on right bank at upstream side of bridge on Blue Bluff Road, 0.8 mi downstream from White Lick Creek, 1 mi south of Centerton, and at mile 199.3.

Drainage Area .— 2,444 mi².

Period of record.— October 1930 to March 1932, October 1946 to current year.

Average discharge.— 2,670 ft³/s.

Minimum daily discharge.— 138 ft³/s

Human health (harmonic mean) design flow.— 1001 ft³/s.

Remarks.— Flow may be affected by upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1948 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
260	274	297

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	283	40	1870
98	302	30	2500
95	353	20	3570
90	427	10	6030
80	598	5	9530
70	813	2	15500
60	1090	1	20000
50	1420		

Wabash River Basin

03354500 BEANBLOSSOM CREEK AT BEANBLOSSOM, IN

Location.— Lat 39°15'45", long 86°14'55" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.31, T.10 N., R.3 E., Brown County, IN, Hydrologic Unit 05120202, on right bank 25 ft upstream from bridge on State Highway 135, 0.3 mi south of Beanblossom, 2.7 mi upstream from North Fork Beanblossom Creek, and at mile 42.1.

Drainage area.— 14.6 mi².

Period of record.— October 1951 to September 1993.

Average discharge.— 16.0 ft³/s.

Minimum daily discharge.— 0.0 ft³/s

Human health (harmonic mean) design flow.— 0.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	6.4
98	0.0	30	11
95	0.0	20	18
90	0.0	10	35
80	0.3	5	64
70	0.8	2	135
60	1.9	1	228
50	3.6		

Wabash River Basin

03355000 BEAR CREEK NEAR TREVLAC, IN

Location.— Lat 39°16'40", long 86°20'45" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.30, T.10 N., R.2 E., Brown County, IN, Hydrologic Unit 05120202, on left bank 15 ft west of Bear Creek Road, 100 ft upstream from Slippery Elm Shoot Road ford, 1.1 mi northwest of Trevlac, and 1.3 mi upstream from mouth.

Drainage area.— 6.94 mi².

Period of record.— May 1952 to September 1973.

Average discharge.— 6.69 ft³/s.

Minimum daily discharge.— 0.0 ft³/s

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	2.2
98	0.0	30	4.0
95	0.0	20	7.2
90	0.0	10	16
80	0.1	5	30
70	0.2	2	62
60	0.5	1	103
50	1.2		

Wabash River Basin

03356000 BEANBLOSSOM CREEK AT DOLAN, IN

Location.— Lat 39°14'30", long 86°29'57" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.2, T.9 N., R.1 W., Monroe County, IN, Hydrologic Unit 05120202, on downstream side of pier of highway bridge at Dolan, 5.8 mi northeast of Bloomington, 8.2 mi downstream from Lake Lemon, and 21.5 mi upstream from mouth.

Drainage area.— 100 mi².

Period of record.— April 1946 to September 1978.

Average discharge.— 111 ft³/s.

Minimum daily discharge.— 0.0 ft³/s

Human health (harmonic mean) design flow.— 18 ft³/s.

Remarks.— Flow regulated by Lake Lemon 8.2 mi upstream. Low-flow statistics calculated for the regulated period, 1953 to 1978.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.6	2.9	8.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.4	40	37
98	6.5	30	63
95	11	20	110
90	13	10	232
80	16	5	419
70	19	2	820
60	22	1	1220
50	26		

Wabash River Basin

03357000 WHITE RIVER AT SPENCER, IN

Location.— Lat 39°16'52", long 86°45'44" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.29, T.10 N., R.3 W., Owen County, IN, Hydrologic Unit 05120202, on right bank at upstream side of county road bridge at the south edge of Spencer, 3.3 mi upstream from McBrides Creek, 14 mi northwest of Bloomington, and at mile 165.9.

Drainage area.— 2,988 mi².

Period of record.— July 1925 to September 1971.

Average discharge.— 2,961 ft³/s.

Minimum daily discharge.— 135 ft³/s

Human health (harmonic mean) design flow.— 936 ft³/s.

Remarks.— Natural flow of stream affected by storage reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
215	226	259

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	237	40	1930
98	277	30	2690
95	329	20	3900
90	402	10	6900
80	542	5	11500
70	730	2	18300
60	1020	1	24100
50	1410		

Wabash River Basin

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN

Location.— Lat 39°48'58", long 86°45'12" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.21, T.16 N., R.3 W., Putnam County, IN, Hydrologic Unit 05120203, on right upstream bank at County Road 1100S bridge, 3.4 mi southeast of Roachdale, 9.06 mi upstream from confluence with Plum Creek, and at mile 39.16.

Drainage area.— 131 mi².

Period of record.— October 2001 to current year.

Average discharge.— 171 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 20 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.3	1.4	1.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.5	40	100
98	2.2	30	140
95	5.0	20	216
90	7.7	10	378
80	16	5	639
70	31	2	1210
60	52	1	1960
50	74		

Wabash River Basin

03357350 PLUM CREEK NEAR BAINBRIDGE, IN

Location.— Lat 39°45'42", long 86°43'46" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.3, T.15 N., R.3 W., Putnam County, IN, Hydrologic Unit 05120203, on right upstream wingwall of bridge on U.S. Highway 36, 0.5 mi west of Groveland, and 4.5 mi east of Bainbridge.

Drainage area.— 3.0 mi².

Period of record.— July 1969 to current year.

Average discharge.— 3.71 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	1.6
98	0.0	30	2.6
95	0.0	20	4.2
90	0.0	10	7.8
80	0.1	5	14
70	0.3	2	31
60	0.6	1	52
50	1.1		

Wabash River Basin

03357500 BIG WALNUT CREEK NEAR REELSVILLE, IN

Location.— Lat 39°32'11", long 86°58'35" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.28, T.13 N., R.5 W., Putnam County, IN, Hydrologic Unit 05120203, on left bank at downstream side of county highway bridge, 1.5 mi southwest of Reelsville, 3.8 mi southwest of Manhattan, and 4.1 mi upstream from Mill Creek.

Drainage area.— 326 mi².

Period of record.— July 1949 to September 2002.

Average discharge.— 353.8 ft³/s.

Minimum daily discharge.— 1.4 ft³/s.

Human health (harmonic mean) design flow.— 54 ft³/s.

Remarks.— Flow partly regulated by U.S. Soil Conservation Service control structures on tributaries to Little Walnut Creek beginning in 1971. Published as Eel River near Reelsville, October 1952 to September 1956.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.8	4.6	5.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	5.6	40	209
98	8.1	30	291
95	14	20	436
90	22	10	781
80	43	5	1280
70	70	2	2440
60	106	1	3810
50	151		

Wabash River Basin

03358000 MILL CREEK NEAR CATARACT, IN

Location.— Lat 39°26'00", long 86°45'48" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.32, T.12 N., R.3 W., Owen County, IN, Hydrologic Unit 05120203, on right bank at downstream side of bridge on U.S. Highway 231, 3 mi east of Cataract, 5.7 mi south of Cloverdale, and at mile 17.5.

Drainage area.— 245 mi².

Period of record.— July 1949 to current year.

Average discharge.— 281 ft³/s.

Minimum daily discharge.— 0.10 ft³/s.

Human health (harmonic mean) design flow.— 21 ft³/s.

Remarks.— Nov. 8, 1949 to Sept. 22, 1968, water-stage recorder at site 100 ft upstream at same datum.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.4	1.8	2.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.6	40	129
98	3.4	30	194
95	5.2	20	304
90	8.2	10	626
80	18	5	1280
70	34	2	2510
60	57	1	3550
50	89		

Wabash River Basin

03359000 MILL CREEK NEAR MANHATTAN, IN

Location.— Lat 39°29'15", long 86°55'29" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.11, T.12 N., R.5 W., Putnam County, IN, Hydrologic Unit 05120203, on left bank 0.3 mi upstream from Cagles Mill Dam, 0.4 mi downstream from Cagles Mill Lake, 1.3 mi upstream from Deer Creek, 5.0 mi south of Manhattan, and at mile 2.3.

Drainage area.— 294 mi².

Period of record.— October 1938 to September 2001.

Average discharge.— 321 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 21 ft³/s.

Remarks.— Flow regulated by U.S. Army Corps of Engineers from Cagles Mill Lake since July 1953. Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976. Low-flow statistics calculated for the regulated period, 1953 to 2001.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.9	1.4	2.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.8	40	132
98	2.4	30	227
95	4.3	20	487
90	13	10	1210
80	22	5	1690
70	44	2	2110
60	77	1	2340
50	102		

Wabash River Basin

03359500 DEER CREEK NEAR PUTNAMVILLE, IN

Location.— Lat 39°34'04", long 86°52'00" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.16, T.13 N., R.4 W., Putnam County, IN, Hydrologic Unit 05120203, on right bank at downstream side of bridge on State Highway 243, 0.4 mi southwest of Putnamville, 0.4 mi downstream from small left-bank tributary, and 0.8 mi downstream from Limestone Creek.

Drainage area.— 59.0 mi².

Period of record.— October 1954 to September 1965, October 1967 to September 1972.

Average discharge.— 59.9 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 2.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	27
98	0.2	30	39
95	0.6	20	59
90	1.2	10	108
80	3.1	5	204
70	6.1	2	477
60	11	1	879
50	18		

Wabash River Basin

03360000 EEL RIVER AT BOWLING GREEN, IN

Location.— Lat 39°22'58", long 87°01'14" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.24, T.11 N., R.6 W., Clay County, IN, Hydrologic Unit 05120203, on left bank 500 ft downstream from bridge on State Highway 46 at Bowling Green, 0.2 mi downstream from Jordan Creek, 15 mi northwest of Spencer, and at mile 38.4.

Drainage area.— 830 mi².

Period of record.— January 1931 to current year.

Average discharge.— 930 ft³/s.

Minimum daily discharge.— 11 ft³/s.

Human health (harmonic mean) design flow.— 175 ft³/s.

Remarks.— Flow regulated by Cagles Mill Lake. Low-flow statistics calculated for the regulated period, 1953 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
22	23	27

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	24	40	729
98	30	30	1210
95	43	20	1690
90	65	10	2260
80	118	5	2880
70	189	2	4530
60	298	1	6620
50	449		

Wabash River Basin

03360500 WHITE RIVER AT NEWBERRY, IN

Location.— Lat 38°55'39", long 87°00'41" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.30, T.6 N., R.5 W., Greene County, IN, Hydrologic Unit 05120202, on left bank, 0.4 mi upstream from bridge on State Highway 57 at Newberry, 2.0 mi downstream from Doans Creek, and at mile 112.4.

Drainage area.— 4,688 mi².

Period of record.— September 1928 to current year.

Average discharge.— 5,084 ft³/s.

Minimum daily discharge.— 200 ft³/s.

Human health (harmonic mean) design flow.— 1,779 ft³/s.

Remarks.— Flow regulated upstream reservoirs. Low-flow statistics are calculated for the regulated period, 1943 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
377	393	433

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	402	40	4060
98	441	30	5570
95	549	20	7690
90	713	10	12400
80	1080	5	18600
70	1530	2	26700
60	2170	1	34000
50	2950		

Wabash River Basin

03361000 BIG BLUE RIVER AT CARTHAGE, IN

Location.— Lat 39°44'38", long 85°34'33" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.18, T.15 N., R.9 E., Rush County, IN, Hydrologic Unit 05120204, on right bank 300 ft upstream from highway bridge, 0.5 mi northwest of Carthage, 2.2 mi downstream from Three Mile Creek, and at mile 50.7.

Drainage area.— 184 mi².

Period of record.— October 1950 to March 2004.

Average discharge.— 205 ft³/s.

Minimum daily discharge.— 17 ft³/s.

Human health (harmonic mean) design flow.— 98 ft³/s.

Remarks.— Flow partly regulated by Big Blue River Conservancy District control structures on tributaries to Big Blue River beginning in 1969. Prior to October 1961, published as Blue River at Carthage.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
23	25	33

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	30	40	142
98	34	30	182
95	42	20	248
90	51	10	407
80	65	5	641
70	78	2	1110
60	95	1	1610
50	117		

Wabash River Basin

03361500 BIG BLUE RIVER AT SHELBYVILLE, IN

Location.— Lat 39°31'43", long 85°46'56" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.31, T.13 N., R.7 E., Shelby County, IN, Hydrologic Unit 05120204, on left bank 0.2 mi downstream from bridge on State Highway 9 in Shelbyville, 0.6 mi downstream from Little Blue River, and at mile 23.9.

Drainage area.— 421 mi².

Period of record.— September 1943 to current year.

Average discharge.— 492 ft³/s.

Minimum daily discharge.— 27 ft³/s.

Human health (harmonic mean) design flow.— 174 ft³/s.

Remarks.— Prior to October 1961, published as Blue River at Shelbyville.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
40	43	48

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	43	40	328
98	48	30	437
95	61	20	623
90	77	10	1060
80	104	5	1720
70	141	2	3040
60	192	1	4310
50	252		

Wabash River Basin

03361638 LEARY-WEBER DITCH AT MOHAWK, IN

Location.— Lat 39°50'33", long 85°49'30" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.11, T.16 N., R.6 E., Hancock County, IN, Hydrologic Unit 05120204, 60 ft upstream of bridge on County Road 400N, 0.33 mi upstream of Sugar Creek, 0.70 mi east of Mohawk, and 3.06 mi southwest of Maxwell.

Drainage area.— 2.79 mi².

Period of record.— July 2002 to October 2007, November 6, 2009, to current year.

Average discharge.— 3.24 ft³/s.

Minimum daily discharge.— 0.00 ft³/s.

Human health (harmonic mean) design flow.— 0.2 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow			
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1			
1	7	30	
0	0	0	

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	1.2
98	0.0	30	1.9
95	0.0	20	3.4
90	0.0	10	8.4
80	0.0	5	17
70	0.2	2	29
60	0.5	1	42
50	0.8		

Wabash River Basin

03361650 SUGAR CREEK AT NEW PALESTINE, IN

Location.— Lat 39°42'51", long 85°53'08" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.29, T.15 N., R.6 E., Hancock County, IN, Hydrologic Unit 05120204, on left bank 10 ft downstream from bridge on County Road 450 West, 0.5 mi south of New Palestine, 3.1 mi upstream from Little Sugar Creek, and at mile 37.3.

Drainage area.— 93.9 mi².

Period of record.— October 1967 to current year.

Average discharge.— 108 ft³/s.

Minimum daily discharge.— 0.11 ft³/s.

Human health (harmonic mean) design flow.— 20 ft³/s.

Remarks.— Prior to October 1961, published as Blue River at Shelbyville.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.7	2.3	3.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.2	40	65
98	3.9	30	93
95	5.9	20	142
90	8.4	10	265
80	15	5	453
70	23	2	768
60	35	1	1010
50	48		

Wabash River Basin

03361850 BUCK CREEK AT ACTON, IN

Location.— Lat 39°39'25", long 85°57'27" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.15, T.14 N., R.5 E., Marion County, IN, Hydrologic Unit 05120204, on left bank, 30 ft downstream from McGregor Road bridge, 0.5 mi east of Acton, and 4.1 mi upstream from mouth.

Drainage area.— 78.8 mi².

Period of record.— October 1967 to current year.

Average discharge.— 97.3 ft³/s.

Minimum daily discharge.— 0.20 ft³/s.

Human health (harmonic mean) design flow.— 14 ft³/s.

Remarks.— Low flow is affected by regulation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.8	1.4	2.4

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.7	40	50
98	2.3	30	72
95	3.8	20	116
90	5.9	10	222
80	11	5	401
70	18	2	744
60	26	1	1150
50	36		

Wabash River Basin

03362000 YOUNGS CREEK NEAR EDINBURGH, IN

Location.— Lat 39°25'08", long 86°00'18" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.5, T.11 N., R.5 E., Johnson County, IN, Hydrologic Unit 05120204, on right bank at downstream side of County Road 400S bridge, 0.5 mi southwest of Amity, 2.0 mi upstream from mouth, and 5.0 mi northwest of Edinburgh.

Drainage area.— 107 mi².

Period of record.— October 1942 to current year.

Average discharge.— 119 ft³/s.

Minimum daily discharge.— 0.50 ft³/s.

Human health (harmonic mean) design flow.— 14 ft³/s.

Remarks.— Prior to June 30, 1955, non-recording gage at same site and datum.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.3	1.7	2.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.1	40	60
98	2.6	30	87
95	3.6	20	139
90	5.1	10	268
80	9.0	5	464
70	17	2	879
60	27	1	1360
50	42		

Wabash River Basin

03362500 SUGAR CREEK NEAR EDINBURGH, IN

Location.— Lat 39°21'39.3", long 85°59'53.1" referenced to North American Datum of 1983, in SW ¼ SE ¼ sec.29, T.11 N., R.5 E., Johnson County, IN, Hydrologic Unit 05120204, on upstream side of bridge of E800S going into Camp Atterbury, 1.3 mi upstream from confluence with Blue River, 1.5 mi northwest of Edinburgh, and at mile 1.3.

Drainage area.— 474 mi².

Period of record.— October 1942 to current year.

Average discharge.— 531 ft³/s.

Minimum daily discharge.— 9.2 ft³/s.

Human health (harmonic mean) design flow.— 121 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
18	20	24

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	23	40	312
98	26	30	436
95	35	20	661
90	48	10	1200
80	73	5	2070
70	110	2	3690
60	163	1	5170
50	228		

Wabash River Basin

03363000 DRIFTWOOD RIVER NEAR EDINBURGH, IN

Location.— Lat 39°20'21", long 85°59'11" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.4, T.10 N., R.5 E., Bartholomew County, IN, Hydrologic Unit 05120204, on downstream side of Hendricks Ford Road bridge, 0.8 mi downstream from confluence of Big Blue River and Sugar Creek, 1.5 mi southwest of Edinburgh, and at mile 14.1.

Drainage area.— 1,060 mi².

Period of record.— October 1941 to September 1990, February 2011 to current year.

Average discharge.— 1,186 ft³/s.

Minimum daily discharge.— 50 ft³/s.

Human health (harmonic mean) design flow.— 378 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
88	93	103

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	97	40	781
98	110	30	1090
95	134	20	1580
90	164	10	2720
80	227	5	4370
70	310	2	7030
60	430	1	9570
50	583		

Wabash River Basin

03363500 FLATROCK RIVER AT ST. PAUL, IN

Location.— Lat 39°25'03", long 85°38'03" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.9, T.11 N., R.8 E., Shelby County, IN, Hydrologic Unit 05120205, on right bank 500 ft downstream from county road bridge, 0.8 mi southwest of St. Paul, 1.5 mi downstream from Mill Creek, and at mile 34.4.

Drainage area.— 303 mi².

Period of record.— October 1930 to current year.

Average discharge.— 339 ft³/s.

Minimum daily discharge.— 0.60 ft³/s.

Human health (harmonic mean) design flow.— 36 ft³/s.

Remarks.— Prior to October 1958, published as Flatrock Creek at St. Paul.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.0	2.5	4.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.1	40	203
98	5.4	30	290
95	9.9	20	443
90	16	10	798
80	30	5	1320
70	54	2	2270
60	94	1	3310
50	142		

Wabash River Basin

03363900 FLATROCK RIVER AT COLUMBUS, IN

Location.— Lat 39°14'06", long 85°55'36" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.9 N., R.5 E., Bartholomew County, IN, Hydrologic Unit 05120205, on left bank at downstream side of bridge on U.S. Highway 31, 0.2 mi northwest of Columbus city limits, and 2.6 mi upstream from mouth.

Drainage area.— 534 mi².

Period of record.— October 1967 to current year.

Average discharge.— 636 ft³/s.

Minimum daily discharge.— 13 ft³/s.

Human health (harmonic mean) design flow.— 163 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
28	29	32

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	29	40	440
98	35	30	588
95	45	20	827
90	60	10	1390
80	101	5	2200
70	164	2	3880
60	246	1	5590
50	331		

Wabash River Basin

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN

Location.— Lat 39°12'00", long 85°55'32" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.25, T.9 N., R.5 E., Bartholomew County, IN, Hydrologic Unit 05120205, on left bank at abutment of abandoned bridge at west end of Second Street in Columbus, 0.6 mi downstream from confluence of Driftwood River and Flatrock River, 1.3 mi upstream from Haw Creek, and at mile 238.7.

Drainage area.— 1,707 mi².

Period of record.— October 1947 to current year.

Average discharge.— 1,981 ft³/s.

Minimum daily discharge.— 85 ft³/s.

Human health (harmonic mean) design flow.— 626 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
129	134	148

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	135	40	1360
98	158	30	1840
95	204	20	2630
90	261	10	4440
80	372	5	6970
70	535	2	11800
60	763	1	16200
50	1040		

East Fork White River Basin

03364042 HAW CREEK AT HOPE, IN

Location.— Lat 39°18'14", long 85°46'29" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.20, T.10 N., R.7 E., Bartholomew County, IN, Hydrologic Unit 05120205, on the upstream side of the bridge over Haw Creek, 600 ft west of S.R. 9 on Jackson St., 14.5 mi southeast from I-65, 18 mi south of Shelbyville, and at river mile 13.5.

Drainage area.— 17.9 mi².

Period of record.— June 2010 to current year.

Average discharge.— 21.4 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.2 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0	0	0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0	40	8.3
98	0	30	15
95	0	20	24
90	0	10	49
80	0	5	89
70	0.2	2	201
60	2.1	1	351
50	4.8		

Wabash River Basin

03364200 HAW CREEK NEAR CLIFFORD, IN

Location.— Lat 39°16'04", long 85°51'22" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.34, T.10 N., R.6 E., Bartholomew County, IN, Hydrologic Unit 05120205, on downstream side of bridge on County Road 450 North, 1.2 mi southeast of Clifford, 5.8 mi northeast of Columbus, and 7.6 mi above mouth.

Drainage area.— 47.5 mi².

Period of record.— July 1967 to June 1992, June 22, 2010, to current year.

Average discharge.— 50.7 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 5.8 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.5	0.6	0.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.7	40	28
98	0.9	30	40
95	1.5	20	60
90	2.3	10	108
80	4.2	5	185
70	7.9	2	362
60	14	1	610
50	20		

Wabash River Basin

03364500 CLIFTY CREEK AT HARTSVILLE, IN

Location.— Lat 39°16'29", long 85°42'06" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.36, T.10 N., R.7 E., Bartholomew County, IN, Hydrologic Unit 05120206, at downstream side of left abutment of County Road 1150 E bridge, 0.2 mi north of Hartsville, 5.9 mi upstream from Duck Creek, and at mile 22.0.

Drainage area.— 91.4 mi².

Period of record.— February 1948 to current year.

Average discharge.— 105 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	51
98	0.0	30	77
95	0.0	20	124
90	0.8	10	234
80	4.0	5	410
70	11	2	807
60	21	1	1280
50	35		

Wabash River Basin

03364650 CLIFTY CREEK NEAR COLUMBUS, IN

Location.— Lat 39°11'07", long 85°52'30" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.33, T.9 N., R.6 E., Bartholomew County, IN, Hydrologic Unit 05120206, on left bank, at downstream side of left abutment of county highway bridge, 0.2 mi north of Hartsville, and 5.9 mi upstream from Duck Creek, and at mile 3.62.

Drainage area.— 202 mi².

Period of record.— June 2006 to current year.

Average discharge.— 286 ft³/s.

Minimum daily discharge.— 1.8 ft³/s.

Human health (harmonic mean) design flow.— 16 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.8	2.0	2.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.2	40	140
98	2.5	30	193
95	3.1	20	304
90	4.3	10	618
80	8.6	5	1260
70	22	2	2480
60	62	1	3570
50	101		

Wabash River Basin

03365000 SAND CREEK NEAR BREWERSVILLE, IN

Location.— Lat 39°05'03", long 85°39'32", in NW ¼ NE ¼ sec.5, T.7 N., R.8 E., Jennings County, IN, Hydrologic Unit 05120206, on left bank at downstream side of county highway bridge, 2.5 mi west of Brewersville, 5.7 mi upstream from Wyaloosing Creek, and 16.0 mi upstream from mouth.

Drainage area.— 155 mi².

Period of record.— February 1948 to September 1986.

Average discharge.— 173 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 6.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	77
98	0.1	30	114
95	1.6	20	186
90	3.8	10	380
80	9.4	5	738
70	18	2	1430
60	30	1	2110
50	49		

Wabash River Basin

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN

Location.— Lat 38°58'57", long 85°53'57" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.7, T.6 N., R.6 E., Jackson County, IN, Hydrologic Unit 05120206, on left bank 1,700 ft downstream from county road highway bridge, 1 mi north of Seymour, 9.5 mi downstream from Sand Creek, and at mile 214.6.

Drainage area.— 2,341 mi².

Period of record.— October 1927 to current year.

Average discharge.— 2,688 ft³/s.

Minimum daily discharge.— 86 ft³/s.

Human health (harmonic mean) design flow.— 775 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
168	179	195

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	180	40	1760
98	202	30	2440
95	247	20	3530
90	310	10	6110
80	442	5	9770
70	656	2	16900
60	957	1	24100
50	1310		

Wabash River Basin

03366000 GRAHAM CREEK NEAR VERNON, IN

Location.— Lat 38°55'47", long 85°33'45" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.30, T.6 N., R.9 E., Jennings County, IN, Hydrologic Unit 05120207, on right bank 10 ft upstream from State Highway 7, 4.7 mi southeast of Vernon, and 8.0 mi downstream from Little Graham Creek.

Drainage area.— 77.2 mi².

Period of record.— June 1955 to September 1973.

Average discharge.— 93.2 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	26
98	0.0	30	43
95	0.0	20	78
90	0.3	10	188
80	1.5	5	416
70	4.2	2	964
60	8.8	1	1510
50	15		

Wabash River Basin

03366200 HARBERTS CREEK NEAR MADISON, IN

Location.— Lat 38°46'55", long 85°29'08" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.14, T.4 N., R.9 E., Jefferson County, IN, Hydrologic Unit 05120207, attached to left downstream wingwall of bridge on County Road 533 West, 0.2 mi west of Smyrna, 3.7 mi upstream from Big Creek, and 4 mi northwest of Madison.

Drainage area.— 9.31 mi².

Period of record.— August 1968 to October 2003.

Average discharge.— 13.6 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	4.1
98	0.0	30	6.6
95	0.0	20	12
90	0.1	10	27
80	0.4	5	62
70	0.8	2	140
60	1.5	1	225
50	2.5		

Wabash River Basin

03366500 MUSCATATUCK RIVER NEAR DEPUTY, IN

Location.— Lat 38°48'15", long 85°40'26" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.7, T.4 N., R.8 E., Jefferson County, IN, Hydrologic Unit 05120207, on left bank approximately 100 ft downstream of highway bridge, 1.4 mi northwest of Deputy, 1.9 mi upstream from Coffee Creek, 2.4 mi downstream from confluence of Graham Creek and Big Creek, and at mile 50.0.

Drainage area.— 293 mi².

Period of record.— November 1947 to current year.

Average discharge.— 373 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 5.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	139
98	0.2	30	222
95	1.1	20	372
90	3.8	10	805
80	13	5	1630
70	27	2	3480
60	51	1	5550
50	86		

Wabash River Basin

03368000 BRUSH CREEK NEAR NEBRASKA, IN

Location.— Lat 39°04'13", long 85°29'10" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.11, T.7 N., R.9 E., Jennings County, IN, Hydrologic Unit 05120207, at upstream side of bridge on right bank on County Road 675 E, 1.5 mi northwest of Nebraska, 2.9 mi northeast of Butlerville, and 3.6 mi upstream from Brush Creek Dam.

Drainage area.— 11.4 mi².

Period of record.— May 1955 to current year.

Average discharge.— 14.7 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	3.9
98	0.0	30	6.2
95	0.0	20	11
90	0.0	10	26
80	0.2	5	64
70	0.6	2	158
60	1.4	1	265
50	2.4		

Wabash River Basin

03369000 VERNON FORK MUSCATATUCK RIVER NEAR BUTLERVILLE, IN

Location.— Lat 39°02'55", long 85°32'40" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.17, T.7 N., R.9 E., Jennings County, IN, Hydrologic Unit 05120207, on left bank 0.3 mi downstream from Muscatatuck State School dam, 1.1 mi downstream from Brush Creek, 2 mi northwest of Butlerville, and at mile 50.6.

Drainage area.— 85.9 mi².

Period of record.— February 1942 to December 2001.

Average discharge.— 95.5 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 3.5 ft³/s.

Remarks.— Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir. Low-flow statistics are calculated for the regulated period, 1943 to 2002. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville..

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	34
98	0.4	30	53
95	0.8	20	87
90	1.5	10	186
80	3.3	5	385
70	6.6	2	875
60	12	1	1480
50	21		

Wabash River Basin

03369500 VERNON FORK MUSCATATUCK RIVER AT VERNON, IN

Location.— Lat 38°58'35", long 85°37'11" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.10, T.6 N., R.8 E., Jennings County, IN, Hydrologic Unit 05120207, at left upstream side of bridge, 1 mi southwest of Vernon, 3.1 mi downstream from Otter Creek, and at mile 36.4.

Drainage area.— 198 mi².

Period of record.— October 1939 to current year.

Average discharge.— 234 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 6.2 ft³/s.

Remarks.— Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diversion returned above gage as sewage effluent by North Vernon Sewage Treatment Plant. Some regulation at times at low flow by Old Timbers Lake on Jefferson Proving Grounds and Brush Creek Reservoir.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.2	0.3	0.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.3	40	85
98	0.6	30	134
95	1.4	20	225
90	2.9	10	486
80	7.6	5	1000
70	17	2	2200
60	32	1	3400
50	54		

Wabash River Basin

03371500 EAST FORK WHITE RIVER NEAR BEDFORD, IN

Location.— Lat 38°46'13", long 86°24'35" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.21, T.4 N., R.1 E., Lawrence County, IN, Hydrologic Unit 05120208, on right downstream side of county road bridge, 0.4 mi upstream from Mill Creek, 2.9 mi downstream from Sugar Creek, 3.9 mi northeast of Mitchell, 7.8 mi southeast of Bedford, and at mile 153.3.

Drainage area.— 3,861 mi².

Period of record.— May 1939 to current year.

Average discharge.— 4,517 ft³/s.

Minimum daily discharge.— 138 ft³/s.

Human health (harmonic mean) design flow.— 1,290 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
253	272	290

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	267	40	3250
98	300	30	4540
95	387	20	6720
90	492	10	11100
80	749	5	15600
70	1170	2	23600
60	1690	1	32100
50	2370		

Wabash River Basin

03371520 BACK CREEK AT LEESVILLE, IN

Location.— Lat 38°50'48", long 86°18'06" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.21, T.5 N., R.2 E., Lawrence County, IN, Hydrologic Unit 05120208, on left bank at downstream side of county road bridge, 0.9 mi west of Leesville, 2.5 mi upstream from Jones Defeat Hollow, and 7 mi upstream of mouth.

Drainage area.— 24.1 mi².

Period of record.— October 1970 to October 2003.

Average discharge.— 36.1 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	15
98	0.0	30	24
95	0.0	20	40
90	0.3	10	79
80	1.1	5	151
70	2.7	2	311
60	5.1	1	464
50	9.2		

Wabash River Basin

03371600 SOUTH FORK SALT CREEK AT KURTZ, IN

Location.— Lat 38°57'46", long 86°12'12" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.9, T.6 N., R.3 E., Jackson County, IN, Hydrologic Unit 05120208, on right bank at downstream side of county road bridge, at north edge of Kurtz, 0.8 mi upstream from right-bank tributary, and 6.1 mi upstream from Little Salt Creek.

Drainage area.— 38.2 mi².

Period of record.— October 1960 to September 1971.

Average discharge.— 39.9 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	8.4
98	0.0	30	17
95	0.0	20	35
90	0.0	10	79
80	0.0	5	161
70	0.5	2	386
60	1.7	1	688
50	4.2		

Wabash River Basin

03371650 NORTH FORK SALT CREEK AT NASHVILLE, IN

Location.— Lat 39°12'06", long 86°14'51" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.19, T.9 N., R.3 E., Brown County, IN, Hydrologic Unit 05120208, on right bank 90 ft downstream from bridge on State Highway 46, 800 ft downstream from Greasy Creek, 0.4 mi south of center of Nashville, and at mile 32.5.

Drainage area.— 76.1 mi².

Period of record.— July 1962 to September 1976.

Average discharge.— 78.9 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	29
98	0.0	30	53
95	0.1	20	92
90	0.5	10	185
80	1.7	5	329
70	3.9	2	610
60	7.9	1	1110
50	16		

Wabash River Basin

03372000 NORTH FORK SALT CREEK NEAR BELMONT, IN

Location.— Lat 39°09'00", long 86°20'14" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.5, T.8 N., R.2 E., Brown County, IN, Hydrologic Unit 05120208, on right bank 15 ft downstream from bridge on State Highway 46, 100 ft upstream Schooner Creek, 0.7 mi northeast of Belmont, 6.5 mi upstream from Brummett Creek, and 20 mi upstream from mouth.

Drainage area.— 120 mi².

Period of record.— April 1946 to September 1971.

Average discharge.— 130 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.8 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	42
98	0.1	30	78
95	0.1	20	135
90	0.5	10	275
80	2.6	5	542
70	5.7	2	1270
60	12	1	1850
50	23		

Wabash River Basin

03372300 STEPHENS CREEK NEAR BLOOMINGTON, IN

Location.— Lat 39°10'11", long 86°25'07" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.4, T.8 N., R.1 E., Monroe County, IN, Hydrologic Unit 05120208, on downstream side of right pier of bridge on State Highway 46, 0.2 mi downstream from Kerr Creek, 4.0 mi west of Belmont, and 6.1 mi east of Bloomington.

Drainage area.— 10.9 mi².

Period of record.— October 1970 to September 1991.

Average discharge.— 14.0 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.4 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	6.5
98	0.0	30	11
95	0.0	20	18
90	0.1	10	34
80	0.5	5	60
70	1.2	2	111
60	2.2	1	172
50	3.9		

Wabash River Basin

03372500 SALT CREEK NEAR HARRODSBURG, IN

Location.— Lat 39°00'16", long 86°30'31" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.34, T.7 N., R.1 W., Monroe County, IN, Hydrologic Unit 05120208, on right bank 0.25 mi downstream from Monroe Lake, 0.9 mi upstream from Clear Creek, 2.2 mi southeast of Harrodsburg, and 25.7 mi upstream from mouth.

Drainage area.— 432 mi².

Period of record.— May 1955 to September 2001.

Average discharge.— 495 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 99 ft³/s.

Remarks.— Flow regulated by U.S. Army Corps of Engineers from Monroe Lake since April 1966. Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976. Low-flow statistics are calculated for the regulated period, 1967 to 2001. The 1Q10 (--) was not calculated on account of high skew.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
--	44	46

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	43	40	226
98	44	30	526
95	46	20	1090
90	50	10	1790
80	53	5	2020
70	56	2	2260
60	60	1	2390
50	189		

Wabash River Basin

03372700 CLEAR CREEK NEAR HARRODSBURG, IN

Location.— Lat 39°02'03", long 86°34'03" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.19, T.7 N., R.1 W., Monroe County, IN, Hydrologic Unit 05120208, on left bank at downstream side of county road bridge, 1.9 mi northwest of Harrodsburg, 3.9 mi upstream from Little Clear Creek, and 5.1 mi upstream from mouth.

Drainage area.— 55.2 mi², of which 6.4 mi² does not contribute directly to surface runoff.

Period of record.— September 1960 to September 1971.

Average discharge.— 72.0 ft³/s.

Minimum daily discharge.— 5.4 ft³/s.

Human health (harmonic mean) design flow.— 24 ft³/s.

Remarks.— Flow regulated by effluent from sewage treatment plant of the city of Bloomington and possibly by pumpage from several rock quarries.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.0	7.7	9.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.1	40	39
98	8.5	30	55
95	9.7	20	83
90	12	10	149
80	15	5	237
70	18	2	449
60	22	1	749
50	30		

Wabash River Basin

03373200 INDIAN CREEK NEAR SPRINGVILLE, IN

Location.— Lat 38°57'01", long 86°40'30" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.18, T.6 N., R.2 W., Lawrence County, IN, Hydrologic Unit 05120208, on left bank at downstream side of bridge on State Highway 54, 0.2 mi downstream from Popcorn Creek, and 4 mi northwest of Springville.

Drainage area.— 60.7 mi².

Period of record.— September 1961 to September 1973.

Average discharge.— 55.3 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 2.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	20
98	0.1	30	34
95	0.3	20	58
90	0.9	10	119
80	2.3	5	213
70	4.0	2	448
60	7.1	1	876
50	12		

Wabash River Basin

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

Location.— Lat 38°40'01", long 86°47'31" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.30, T.3 N., R.3 W., Martin County, IN, Hydrologic Unit 05120208, on upstream left bank, 30 ft upstream of Highway 50 bridge at Shoals, 1.0 mi upstream from Beaver Creek, 6.5 mi downstream from Indian Creek, and at mile 105.4.

Drainage area.— 4,927 mi².

Period of record.— June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year.

Average discharge.— 5,772 ft³/s.

Minimum daily discharge.— 64 ft³/s.

Human health (harmonic mean) design flow.— 1,450 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
194	275	315

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	280	40	4200
98	326	30	5970
95	411	20	8810
90	542	10	15,000
80	827	5	21,100
70	1270	2	30,900
60	1890	1	39,000
50	2870		

Wabash River Basin

03373508 BEAVER CREEK NEAR SHOALS, IN

Location.— Lat 38°40'23", long 86°44'42" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.21, T.3 N., R.3 W., Martin County, IN, Hydrologic Unit 05120208, on right bank inside National Gypsum Property, 70 ft upstream of confluence with small tributary on right, 3.8 mi east of Shoals, and at river mile 7.08.

Drainage area.— 62.1 mi², of which 21.5 mi² probably is noncontributing.

Period of record.— June 2007 to current year.

Average discharge.— 44.7 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.3 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0	0	0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	13
98	0.0	30	20
95	0.0	20	37
90	0.1	10	100
80	0.6	5	188
70	2.1	2	449
60	4.4	1	784
50	8.1		

Wabash River Basin

03373530 LOST RIVER NEAR LIEPSIC, IN

Location.— Lat 38°38'11", long 86°21'55" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.2, T.2 N., R.1 E., Orange County, IN, Hydrologic Unit 05120208, on left bank at county road bridge on County Road 500 E, about 0.1 mi above Carter Creek tributary, 2.6 mi south of Leipsic, and 6.3 mi southeast of Orleans.

Drainage area.— 34.8 mi² (75.94 river miles), up to a gage height of 12.5 ft; 44 mi² above a gage height of 12.5 ft.

Period of record.— October 1992 to September 2001, October 20, 2010 to present.

Average discharge.— 45.4 ft³/s.

Minimum daily discharge.— 0.39 ft³/s.

Human health (harmonic mean) design flow.— 5.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.4	0.5	0.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.6	40	25
98	0.9	30	36
95	1.5	20	56
90	2.1	10	96
80	3.6	5	157
70	6.3	2	308
60	10	1	504
50	17		

East Fork White River Basin

03373560 LOST RIVER NEAR PROSPECT, IN

Location.— Lat 38°34'52", long 86°35'56" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.26, T.2 N., R.2 W., Orange County, IN, Hydrologic Unit 05120208, on downstream side of bridge on Hwy 50/150 at 0.75 mi east of Prospect, 9 mi west of Paoli, 22 mi southwest of Mitchell, 32 mi southwest of Bedford, and at river mile 38.66.

Drainage area.— 175 mi².

Period of record.— January 2010 to current year.

Average discharge.— 253 ft³/s.

Minimum daily discharge.— 4.3 ft³/s.

Human health (harmonic mean) design flow.— 42 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.9	5.7	7.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	5.9	40	153
98	6.8	30	232
95	9.8	20	336
90	14	10	549
80	18	5	894
70	28	2	1920
60	58	1	2800
50	106		

East Fork White River Basin

03373610 LICK CREEK AT PAOLI, IN

Location.— Lat 38°33'21", long 86°28'33" referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.1, T.1 N., R.1 W., Orange County, IN, Hydrologic Unit 05120208, on the middle of the bridge over Highway 56, 0.5 mi west of Highway 37, 9.5 mi east of West Baden Springs, and 23.5 mi south of Bedford.

Drainage area.— 21.5 mi².

Period of record.— October 2010 to current year.

Average discharge.— 51.6 ft³/s.

Minimum daily discharge.— 0.28 ft³/s.

Human health (harmonic mean) design flow.— 4.7 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.5	0.6	0.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.4	40	25
98	0.6	30	38
95	1	20	56
90	1.4	10	125
80	2	5	222
70	2.9	2	407
60	5.7	1	757
50	12		

East Fork White River Basin

03373686 FRENCH LICK CREEK AT FRENCH LICK, IN

Location.— Lat 38°32'29", long 86°36'45" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.10, T.1 N., R.2 W., Orange County, IN, Hydrologic Unit 05120208, on upstream side of bridge on 100S, 300 ft south of Highway 145, 1.2 mi east of Highway 56, and 12.5 mi west of Paoli.

Drainage area.— 25.1 mi².

Period of record.— January 2010 to current year.

Average discharge.— 48.3ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.8 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0	40	20
98	0	30	33
95	0	20	53
90	0.5	10	105
80	2.1	5	167
70	3.8	2	403
60	6.8	1	637
50	12		

Wabash River Basin

03373695 FRENCH LICK CREEK AT WEST BADEN SPRINGS, IN

Location.— Lat 38°33'48", long 86°37'00" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.34, T.2 N., R.2 W., Orange County, IN, Hydrologic Unit 05120208, on the upstream side of the bridge over French Lick Creek, 0.2 mi west of Highway 56, at river mile 0.9, 1.3 mi south of Prospect, and 10.1 mi west of Paoli.

Drainage area.— 32.9 mi².

Period of record.— August 26, 2010 to current year.

Average discharge.— 72.1 ft³/s.

Minimum daily discharge.— 0.07 ft³/s.

Human health (harmonic mean) design flow.— 1.6 ft³/s.

Remarks.— This site has less than 10 years of record. -- indicates that there is poor correlation with the index stations, no values determined.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
--	--	--

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	23
98	0.2	30	38
95	0.3	20	57
90	0.7	10	94
80	2	5	159
70	3.9	2	684
60	7.4	1	1180
50	14		

Wabash River Basin

03373700 LOST RIVER NEAR WEST BADEN SPRINGS, IN

Location.— Lat 38°35'10", long 86°38'03" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.21, T.2 N., R.2 W., Orange County, IN, Hydrologic Unit 05120208, on left bank 20 ft downstream from bridge on U.S. Highway 150, 1.7 mi northwest of West Baden Springs, 3.8 mi downstream from Lick Creek, and at mile 34.8.

Drainage area.— 287 mi².

Period of record.— December 1964 to September 1993.

Average discharge.— 355 ft³/s.

Minimum daily discharge.— 5.9 ft³/s.

Human health (harmonic mean) design flow.— 60 ft³/s.

Remarks.— Prior to October 1965, published as Lost River near West Baden.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
8.1	8.9	11

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	10	40	215
98	12	30	331
95	16	20	498
90	22	10	908
80	34	5	1470
70	58	2	2240
60	92	1	2820
50	141		

Wabash River Basin

03374000 WHITE RIVER AT PETERSBURG, IN

Location.— Lat 38°30'39", long 87°17'22" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.15, T.1 N., R.8 W., Pike County, IN, Hydrologic Unit 05120202, on the downstream rail on the State Highway 61 bridge, 0.4 mi upstream from Prides Creek, 1.4 mi north of Petersburg, 2.0 mi west of Arda, and at mile 45.7.

Drainage area.— 11,125 mi².

Period of record.— October 1927 to current year.

Average discharge.— 12,660 ft³/s.

Minimum daily discharge.— 573 ft³/s.

Human health (harmonic mean) design flow.— 3,990 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs. Published as "at Hazelton" October 1927 to September 1938.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
791	837	925

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	851	40	9790
98	967	30	13500
95	1210	20	19300
90	1580	10	30800
80	2370	5	43600
70	3400	2	62800
60	4900	1	79700
50	7020		

Wabash River Basin

03374455 PATOKA RIVER NEAR HARDINSBURG, IN

Location.— Lat 38°26'41", long 86°23'14" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.10, T.1 S., R.1 E., Orange County, IN, Hydrologic Unit 05120209, on downstream edge of center pier of county road bridge, 0.3 mi downstream from Fudge Creek, 0.7 mi northeast of Valeene, 6.0 mi southwest of Hardinsburg, and at mile 158.0.

Drainage area.— 12.8 mi².

Period of record.— October 1968 to October 2003.

Average discharge.— 25.2 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	8.9
98	0.0	30	15
95	0.1	20	26
90	0.2	10	54
80	0.7	5	110
70	1.6	2	230
60	2.9	1	369
50	5.2		

Wabash River Basin

03375500 PATOKA RIVER AT JASPER, IN

Location.— Lat 38°24'49", long 86°52'36" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.20, T.1 S., R.4 W., Dubois County, IN, Hydrologic Unit 05120209, on left bank 0.3 mi upstream from unnamed outlet of Idlewild Lake, 1.2 mi downstream from county road bridge, 1.2 mi downstream from Beaver Creek, 3.3 mi northeast of Jasper, and at mile 91.5.

Drainage area.— 262.0 mi².

Period of record.— November 1947 to current year.

Average discharge.— 371 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 100 ft³/s.

Remarks.— Flow regulated by Beaver Creek Reservoir beginning Oct. 11, 1955, and by Patoka Lake beginning Feb. 13, 1978. Low-flow statistics are calculated for the regulated period, 1978 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
13	17	21

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	20	40	294
98	23	30	427
95	29	20	663
90	37	10	993
80	56	5	1240
70	97	2	1630
60	152	1	2010
50	213		

Wabash River Basin

03375800 HALL CREEK NEAR ST. ANTHONY, IN

Location.— Lat 38°21'45", long 86°49'43" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.11, T.2 S., R.4 W., Dubois County, IN, Hydrologic Unit 05120209, on right bank 10 ft downstream of bridge on County Road 125 South, 0.7 mi upstream from Grassy Fork, 3.3 mi north of St. Anthony, and at mile 4.1.

Drainage area.— 21.8 mi².

Period of record.— October 1970 to December 2001.

Average discharge.— 31.6 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	11
98	0.0	30	17
95	0.0	20	29
90	0.3	10	63
80	0.9	5	129
70	2.1	2	307
60	4.1	1	499
50	7.0		

Wabash River Basin

03376260 FLAT CREEK NEAR OTWELL, IN

Location.— Lat 38°26'12", long 87°07'52" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.12, T.1 S., R.7 W., Pike County, IN, Hydrologic Unit 05120209, on right bank at upstream side of bridge on State Highway 56; 2.2 mi west of intersection of State Highways 56 and 257; 2.5 mi southeast of Otwell, 6.2 mi east of intersection of State Highways 56 and 61, and at mile 10.9.

Drainage area.— 21.3 mi².

Period of record.— October 1964 to April 1982.

Average discharge.— 22.8 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.8 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	7.0
98	0.0	30	11
95	0.0	20	20
90	0.2	10	46
80	0.9	5	95
70	2.0	2	239
60	3.1	1	398
50	4.7		

Wabash River Basin

03376300 PATOKA RIVER AT WINSLOW, IN

Location.— Lat 38°22'49", long 87°13'00" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.32, T.1 S., R.7 W., Pike County, IN, Hydrologic Unit 05120209, on right bank at abandoned bridge abutment, 65 ft upstream from bridge on State Highway 61, 100 ft downstream from dam of Winslow Water Company, and 41.3 mi above mouth.

Drainage area.— 603 mi².

Period of record.— October 1963 to current year.

Average discharge.— 809 ft³/s.

Minimum daily discharge.— 0.50 ft³/s.

Human health (harmonic mean) design flow.— 162 ft³/s.

Remarks.— Minor diversion by municipal water supply 100 ft above gage. Flow regulated by Patoka Lake. Low-flow statistics are calculated for the regulated period, 1987 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
20	22	28

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	25	40	694
98	30	30	1060
95	39	20	1500
90	57	10	2210
80	106	5	2940
70	181	2	4360
60	276	1	5520
50	419		

Wabash River Basin

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Location.— Lat 38°17'50", long 87°15'39" referenced to North American Datum of 1927 in SE ¼ NE ¼ sec.35, T.2 S., R.8 W., Pike County, IN, Hydrologic Unit 05120209, on right bank at downstream side of bridge on State Highway 61, 0.5 mi north of Enos Corner, 3.1 mi north of Spurgeon, and at mile 8.0.

Drainage area.— 42.8 mi².

Period of record.— October 1964 to September 1986.

Average discharge.— 52.0 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 14 ft³/s.

Remarks.— Regulation by coal-washing operation and strip mining above gage.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.9	3.2	4.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.4	40	30
98	4.3	30	42
95	5.4	20	61
90	6.6	10	113
80	9.0	5	190
70	12	2	352
60	17	1	510
50	22		

Wabash River Basin

03376500 PATOKA RIVER NEAR PRINCETON, IN

Location.— Lat 38°23'25", long 87°32'56" referenced to North American Datum of 1927, in sec.107, T.1 S., R.10 W., Gibson County, IN, Hydrologic Unit 05120209, on right downstream side of bridge on State Highway 65, 0.5 mi downstream from Indian Creek, 2 mi northeast of Princeton, and at mile 21.4.

Drainage area.— 822 mi².

Period of record.— August 1934 to current year.

Average discharge.— 1,066 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 250 ft³/s.

Remarks.— Flow regulated by Patoka Lake. Low-flow statistics are calculated for the regulated period, 1978 to 2011.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
33	37	45

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	39	40	1010
98	46	30	1520
95	59	20	2060
90	87	10	2860
80	161	5	3710
70	259	2	4960
60	387	1	6690
50	600		

Wabash River Basin

03377500 WABASH RIVER AT MOUNT CARMEL, IL

Location.— Lat 38°23'54", long 87°45'23" referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.28, T.1 S., R.12 W., Wabash County, IL, Hydrologic Unit 05120113, on upstream right side of SR 64 bridge at Mount Carmel, 0.4 mi downstream from Patoka River, 0.2 mi downstream of Southern Railway bridge, and at mile 94.2.

Drainage area.— 28,635 mi².

Period of record.— October 1927 to current year.

Average discharge.— 29,280 ft³/s.

Minimum daily discharge.— 1,650 ft³/s.

Human health (harmonic mean) design flow.— 11,050 ft³/s.

Remarks.— Flow partially regulated by upstream reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2480	2580	2880

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2560	40	24100
98	2850	30	32800
95	3580	20	46600
90	4570	10	69400
80	6640	5	93700
70	9210	2	130000
60	12900	1	157000
50	17600		

Wabash River Basin

03378550 BIG CREEK NEAR WADEVILLE, IN

Location.— Lat 38°04'58", long 87°46'10" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.16, T.5 S., R.12 W., Posey County, IN, Hydrologic Unit 05120113, on left bank at downstream side of bridge on State Highway 66, 0.6 mi northwest of Blairsville, 0.8 mi upstream from County Road 250 North, and 1.6 mi southeast of Wadesville.

Drainage area.— 104 mi².

Period of record.— July 1965 to current year.

Average discharge.— 122 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	32
98	0.0	30	52
95	0.1	20	90
90	0.3	10	217
80	1.5	5	523
70	3.9	2	1280
60	9.0	1	2210
50	18		

Lake Michigan Basin

04093000 DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN

Location.— Lat 41°32'10", long 87°15'25" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.32, T.36 N., R.7 W., Lake County, IN, Hydrologic Unit 04040001, on left bank at upstream side of bridge on Ridge Road in Hobart, 300 ft upstream from Duck Creek, and 400 ft downstream from Lake George Dam, and 3.3 mi north of Ainsworth, IN.

Drainage area.— 124 mi².

Period of record.— April 1947 to current year.

Average discharge.— 122 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 22 ft³/s.

Remarks.— Flow subject to regulation by operation of Lake George Dam. The 1Q10 and the 7Q10 low-flow values (--) could not be computed due to zero flows caused by extreme regulation and dam construction. These values caused statistical skews to exceed allowable limits.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
--	--	9.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.6	40	70
98	8.3	30	100
95	11	20	152
90	14	10	296
80	21	5	505
70	28	2	836
60	38	1	1090
50	51		

Lake Michigan Basin

04094000 LITTLE CALUMET RIVER AT PORTER, IN

Location.— Lat 41°37'18", long 87°05'13" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.34, T.37 N., R.6 W., Porter County, IN, Hydrologic Unit 04040001, on right bank at downstream end of county road bridge, 200 ft upstream from bridge on U.S. Highway 20, 0.8 mi northwest of Porter, and 4.5 mi upstream from Salt Creek.

Drainage area.— 66.2 mi².

Period of record.— May 1945 to current year.

Average discharge.— 79.6 ft³/s.

Minimum daily discharge.— 17 ft³/s.

Human health (harmonic mean) design flow.— 48 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
20	21	23

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	21	40	60
98	23	30	71
95	26	20	91
90	29	10	144
80	34	5	230
70	39	2	390
60	44	1	557
50	51		

Lake Michigan Basin

04094400 SALT CREEK AT VALPARAISO, IN

Location.— Lat 41°27'53", long 87°04'14" referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.23, T.35 N., R.6 W., Porter County, IN, Hydrologic Unit 04040001, on downstream side of Factory Street Bridge, 0.4 mi upstream from southeast corner of treatment plant property, 0.4 mi from mouth of Sagers Lake Outlet, 14.1 mi east of Merrillville, and at river mile 18.4.

Drainage area.— 16.1 mi².

Period of record.— March 2009 to current year.

Average discharge.— 17.5 ft³/s.

Minimum daily discharge.— 4.8 ft³/s.

Human health (harmonic mean) design flow.— 12 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.8	5.0	5.5

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	5.5	40	15
98	5.7	30	17
95	6.3	20	21
90	7.0	10	30
80	8.2	5	44
70	9.6	2	81
60	11	1	121
50	13		

Lake Michigan Basin

04094500 SALT CREEK NEAR MCCOOL, IN

Location.— Lat 41°35'48", long 87°08'40" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.6, T.36 N., R.6 W., Porter County, IN, Hydrologic Unit 04040001, on left bank on downstream side of highway bridge, 50 ft downstream from Conrail Railroad bridge, 1.2 mi north of McCool, and 1.6 mi upstream from Little Calumet River.

Drainage area.— 74.6 mi².

Period of record.— May 1945 to September 1991.

Average discharge.— 76.6 ft³/s.

Minimum daily discharge.— 10 ft³/s.

Human health (harmonic mean) design flow.— 46 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
18	19	22

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	20	40	57
98	23	30	69
95	25	20	89
90	28	10	140
80	32	5	226
70	37	2	382
60	42	1	520
50	49		

Lake Michigan Basin

04095090 PORTAGE-BURNS WATERWAY AT PORTAGE, IN

Location.— Lat 41°37'20", long 87°10'33" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.36, T.37 N., R.7 W., Porter County, IN, Hydrologic Unit 04040001, on right bank at an industrial road bridge, 1,300 feet north of U.S. Highway 12, 0.7 mi south of the mouth, 1.2 mi west of the State Road 249 overpass over U.S. Highway 12, 2.4 mi east of County Line Road, and 3.2 mi north of the intersection of Central Avenue and Willow Creek Road in Portage.

Drainage area.— 331 mi².

Period of record.— February 1995 to October 2011.

Average discharge.— 553 ft³/s.

Minimum daily discharge.— 83 ft³/s.

Human health (harmonic mean) design flow.— 384 ft³/s.

Remarks.— Prior to October 2011, published as Burns Ditch at Portage, IN.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
84	100	125

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	125	40	474
98	145	30	547
95	186	20	675
90	235	10	949
80	293	5	1380
70	336	2	2070
60	379	1	2720
50	423		

Lake Michigan Basin

04095300 TRAIL CREEK AT MICHIGAN CITY, IN

Location.— Lat 41°43'00", long 86°51'35" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.27, T.38 N., R.4 W., LaPorte County, IN, Hydrologic Unit 04040001, on right upstream side of bridge on Springland Avenue in Michigan City, 1.0 mi upstream from Otter Creek, and 4.2 mi upstream from mouth.

Drainage area.— 54.1 mi².

Period of record.— June 1969 to October 1994.

Average discharge.— 76.2 ft³/s.

Minimum daily discharge.— 20 ft³/s.

Human health (harmonic mean) design flow.— 55 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
21	23	26

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	27	40	65
98	29	30	75
95	31	20	92
90	34	10	129
80	40	5	192
70	45	2	322
60	51	1	463
50	58		

Lake Michigan Basin

04095380 TRAIL CREEK AT MICHIGAN CITY HARBOR, IN

Location.— Lat 41°43'22", long 86°54'15" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.29, T.38 N., R.4 W., LaPorte County, IN, Hydrologic Unit 04040001, on right bank in the northeast drawbridge tower, 2000 ft north of Michigan Street, 2,600 ft southeast of lake end of west breakwater, 0.5 mi southwest of Washington Park, and 3000 ft downstream of U.S. Highway 12 bridge in Michigan City.

Drainage area.— 59.1 mi².

Period of record.— October 1994 to current year.

Average discharge.— 116 ft³/s.

Minimum daily discharge.— -95 ft³/s.

Human health (harmonic mean) design flow.— 73 ft³/s.

Remarks.— Positive discharge values indicate flow towards Lake Michigan; negative discharge values indicate flow away from Lake Michigan. The 1-day and 7-day annual low flow values (--) are not valid due to negative flows caused by backwater from Lake Michigan.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
--	--	17

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	17	40	114
98	27	30	131
95	40	20	147
90	51	10	188
80	66	5	246
70	79	2	357
60	91	1	513
50	103		

Lake Michigan Basin

04096100 GALENA RIVER NEAR LAPORTE, IN

Location.— Lat 41°44'54", long 86°40'30" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.17, T.38 N., R.2 W., LaPorte County, Hydrologic Unit 04040001, on left bank at downstream side of bridge on County Road 125 East, 1.3 mi upstream from Indiana-Michigan State line, 7.5 mi west of the LaPorte-St. Joseph County line, and 9.8 mi north of the Court House in LaPorte.

Drainage area.— 17.2 mi², of which 2.30 mi² does not contribute directly to surface runoff.

Period of record.— October 1969 to October 2003.

Average discharge.— 25.9 ft³/s.

Minimum daily discharge.— 6.7 ft³/s.

Human health (harmonic mean) design flow.— 20 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.5	8.1	9.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.8	40	24
98	9.4	30	27
95	11	20	32
90	12	10	42
80	15	5	56
70	17	2	88
60	19	1	119
50	21		

Streams Tributary to Lake Michigan

04097970 LIME LAKE OUTLET AT PANAMA, IN

Location.— Lat 41°42'46", long 85°07'10" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 35, T.38 N., R.12 E., Steuben County, IN, Hydrologic Unit 04050001, on right bank 10 ft downstream from dam for Lime Lake, 30 ft upstream from bridge on Orland Road, and 0.7 mi northwest of Panama.

Drainage area.— 17.5 mi², of which 3.68 mi² does not contribute directly to surface runoff.

Period of record.— October 1969 to September 1986.

Average discharge.— 8.06 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.9 ft³/s.

Remarks.— Occasional regulation by control structure for Lime Lake. Low-flow statistics are calculated for the regulated period, 1969 to 1986.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	8.6
98	0.0	30	11
95	0.2	20	14
90	0.5	10	20
80	1.6	5	25
70	2.7	2	31
60	4.3	1	39
50	6.2		

Lake Michigan Basin

04099510 PIGEON CREEK NEAR ANGOLA, IN

Location.— Lat 41°38'04", long 85°06'35" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.26, T.37 N., R.12 E., Steuben County, IN, Hydrologic Unit 04050001, on left bank 5 ft upstream from bridge on U.S. Highway 20, 1.3 mi downstream from outlet of Hogback Lake, 1.3 mi southeast of Flint, and 5.8 mi west of Angola.

Drainage area.— 106 mi², of which 22.5 mi² probably is noncontributing.

Period of record.— October 1945 to current year.

Average discharge.— 87.2 ft³/s.

Minimum daily discharge.— 3.4 ft³/s.

Human health (harmonic mean) design flow.— 37 ft³/s.

Remarks.— Prior to October 1947, published as "near Flint." Published as Pigeon Creek at Hogback Lake Outlet near Angola, October 1947 to September 1971, and Pigeon Creek and Hogback Lake near Angola, October 1971 to September 1974.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.7	8.0	9.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.8	40	73
98	8.6	30	96
95	14	20	130
90	18	10	196
80	26	5	270
70	34	2	363
60	44	1	453
50	57		

Lake Michigan Basin

04099610 PRETTY LAKE INLET NEAR STROH, IN

Location.— Lat 41°34'49", long 85°14'59" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.15, T.36 N., R.11 E., Lagrange County, IN, Hydrologic Unit 04050001, on left bank 400 ft upstream from mouth, 2.6 miles west of Stroh.

Drainage area.— 1.96 mi², of which 1.32 mi² does not contribute directly to surface runoff.

Period of record.— June 1963 to September 1980.

Average discharge.— 0.48 ft³/s.

Minimum daily discharge.— 0.1 ft³/s.

Human health (harmonic mean) design flow.— 0.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	0.4
98	0.0	30	0.5
95	0.0	20	0.7
90	0.1	10	1.1
80	0.1	5	1.5
70	0.1	2	2.3
60	0.2	1	3.3
50	0.3		

Lake Michigan Basin

04099750 PIGEON RIVER NEAR SCOTT, IN

Location.— Lat 41°44'56", long 85°34'35" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.14, T.38 N., R.8 E., LaGrange County, IN, Hydrologic Unit 04050001, on right bank 20 ft downstream from bridge on County Road 750 North, 1,200 ft downstream from Page Ditch, 0.7 mi south of Indiana-Michigan State line, and 1.2 mi northwest of Scott.

Drainage area.— 361 mi², of which 54 mi² probably is noncontributing.

Period of record.— June 1968 to current year.

Average discharge.— 371 ft³/s.

Minimum daily discharge.— 42 ft³/s.

Human health (harmonic mean) design flow.— 258 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
79	90	105

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	94	40	350
98	106	30	419
95	126	20	514
90	145	10	696
80	176	5	875
70	209	2	1190
60	247	1	1390
50	295		

Lake Michigan Basin

04099808 LITTLE ELKHART RIVER AT MIDDLEBURY, IN

Location.— Lat 41°40'31", long 85°42'01" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.10, T.37 N., R.7 E., Elkhart County, IN, Hydrologic Unit 04050001, on left bank 15 ft downstream from bridge on County Road 1, 0.1 mi east of Middlebury, 0.4 mi upstream from intersection of State Road 13 bridge and Little Elkhart River, and 1.7 mi downstream from Rowe Eden Ditch.

Drainage area.— 97.6 mi², of which 5.89 mi² does not contribute directly to surface runoff.

Period of record.— October 1979 to October 2003.

Average discharge.— 97.0 ft³/s.

Minimum daily discharge.— 22 ft³/s.

Human health (harmonic mean) design flow.— 69 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
27	29	32

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	32	40	87
98	34	30	101
95	38	20	122
90	41	10	164
80	48	5	220
70	56	2	327
60	66	1	454
50	76		

Lake Michigan Basin

04099850 PINE CREEK NEAR ELKHART, IN

Location.— Lat 41°40'53", long 85°52'57" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.7, T.37 N., R.6 E., Elkhart County, IN, Hydrologic Unit 04050001, on right bank 50 ft upstream from bridge on County Road 14, 0.3 mi east of the intersection of County Roads 17 and 14, 3.1 mi east of Elkhart, and at mile 2.0.

Drainage area.— 31.0 mi², of which 8.75 mi² does not contribute directly to surface runoff.

Period of record.— October 1979 to October 2003.

Average discharge.— 18.6 ft³/s.

Minimum daily discharge.— 1.8 ft³/s.

Human health (harmonic mean) design flow.— 12 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.9	3.4	4.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.7	40	17
98	4.4	30	20
95	5.8	20	24
90	7.0	10	31
80	8.8	5	42
70	11	2	63
60	13	1	92
50	15		

Lake Michigan Basin

04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN

Location.— Lat 41°28'54", long 85°28'32" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.22, T.35 N., R.9 E., Noble County, IN, Hydrologic Unit 04050001, on right bank at downstream side of bridge on County Road 900 North at Cosperville, 1,300 ft downstream from Boyd Ditch, 1.7 mi upstream from Hustin Ditch, and 3.1 mi downstream from Waldron Lake.

Drainage area.— 142 mi².

Period of record.— October 1979 to current year.

Average discharge.— 139 ft³/s.

Minimum daily discharge.— 0.76 ft³/s.

Human health (harmonic mean) design flow.— 61 ft³/s.

Remarks.— Flow regulated at times by dam at Waldron Lake.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
4.8	6.4	12

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	9.4	40	134
98	14	30	166
95	20	20	211
90	29	10	297
80	45	5	369
70	62	2	475
60	84	1	589
50	108		

Lake Michigan Basin

04100252 FORKER CREEK NEAR BURR OAK, IN

Location.— Lat 41°19'58", long 85°25'25" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.12, T.33 N., R.9 E., Noble County, IN, Hydrologic Unit 04050001, on right bank 300 ft downstream from bridge on State Highway 9, 400 ft downstream from Miller Lake Outlet, 0.8 mi northeast of Burr Oak, and 4.5 mi south of Albion.

Drainage area.— 19.2 mi².

Period of record.— June 1969 to October 2003.

Average discharge.— 17.0 ft³/s.

Minimum daily discharge.— 0.10 ft³/s.

Human health (harmonic mean) design flow.— 2.1 ft³/s.

Remarks.— Occasional regulation at Miller Lake Outlet. Low-flow statistics are calculated for the regulated period, 1969 to 2003.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.2	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.2	40	13
98	0.3	30	18
95	0.5	20	26
90	0.8	10	43
80	1.7	5	66
70	3.3	2	98
60	5.6	1	123
50	8.6		

Lake Michigan Basin

04100295 RIMMEL BRANCH NEAR ALBION, IN

Location.— Lat 41°23'07", long 85°22'14" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.21, T.34 N., R.10 E., Noble County, IN, Hydrologic Unit 04050001, on right bank 900 ft downstream from culvert on County Road 300 East, 0.75 mi south of State Highway 8, and 3.0 mi east of intersection of State Highway 9 and State Highway 8 in Albion.

Drainage area.— 10.7 mi².

Period of record.— November 1979 to October 2001.

Average discharge.— 9.97 ft³/s.

Minimum daily discharge.— 0.02 ft³/s.

Human health (harmonic mean) design flow.— 1.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	5.8
98	0.2	30	7.9
95	0.3	20	12
90	0.4	10	23
80	0.9	5	40
70	1.7	2	72
60	2.8	1	107
50	4.2		

Lake Michigan Basin

04100377 SOLOMON CREEK NEAR SYRACUSE, IN

Location.— Lat 41°27'30", long 85°43'12" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.28, T.35 N., R.7 E., Elkhart County, IN, Hydrologic Unit 04050001, on right bank 40 ft upstream from County Road 52 East bridge over Solomon Creek, and 2.5 mi northeast of Syracuse.

Drainage area.— 36.1 mi².

Period of record.— October 1987 to October 2003.

Average discharge.— 35.6 ft³/s.

Minimum daily discharge.— 6.3 ft³/s.

Human health (harmonic mean) design flow.— 25 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.3	8.3	10

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	10	40	35
98	11	30	43
95	12	20	51
90	14	10	65
80	17	5	79
70	21	2	101
60	25	1	122
50	30		

Lake Michigan Basin

04100465 TURKEY CREEK NEAR SYRACUSE, IN

Location.— Lat 41°25'35", long 85°45'16" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.6, T.34 N., R.7 E., Kosciusko County, IN, Hydrologic Unit 04050001, on right bank 75 ft upstream from Main Street bridge in Syracuse and 1,500 ft downstream from dam at outlet of Syracuse Lake.

Drainage area.— 43.8 mi².

Period of record.— October 1969 to September 1987.

Average discharge.— 38.2 ft³/s.

Minimum daily discharge.— 0.82 ft³/s.

Human health (harmonic mean) design flow.— 10 ft³/s.

Remarks.— Flow regulated by dam on Syracuse Lake.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.5	1.8	2.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.1	40	42
98	2.4	30	58
95	3.1	20	73
90	3.8	10	91
80	5.2	5	104
70	7.7	2	132
60	14	1	150
50	25		

Lake Michigan Basin

04100500 ELKHART RIVER AT GOSHEN, IN

Location.— Lat 41°35'36", long 85°50'55" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.8, T.36 N., R.6 E., Elkhart County, IN, Hydrologic Unit 04050001, on right bank 20 ft downstream from River Avenue bridge at Goshen, 0.4 mi upstream from Rock Run, 9.1 mi northwest of Millersburg, and at mile 16.1.

Drainage area.— 594 mi².

Period of record.— April 1931 to current year.

Average discharge.— 547 ft³/s.

Minimum daily discharge.— 7.0 ft³/s.

Human health (harmonic mean) design flow.— 305 ft³/s.

Remarks.— Occasional low-flow regulation at Goshen Dam, 3.4 mi upstream.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
43	85	101

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	82	40	495
98	98	30	623
95	127	20	817
90	157	10	1140
80	204	5	1440
70	253	2	1980
60	315	1	2440
50	394		

Lake Michigan Basin

04101000 ST. JOSEPH RIVER AT ELKHART, IN

Location.— Lat 41°41'30", long 85°58'30" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.5, T.37 N., R.5 E., Elkhart County, IN, Hydrologic Unit 04050001, on left bank 30 ft upstream from Main Street bridge located at the intersection of Main Street and Pottawatomie Drive in Elkhart, 370 ft downstream from mouth of Elkhart River, 2,170 ft downstream from mouth of Christiana Creek, and 0.53 mi downstream from Elkhart Hydroelectric Plant.

Drainage area.— 3,370 mi².

Period of record.— August 1947 to current year.

Average discharge.— 3,309 ft³/s.

Minimum daily discharge.— 336 ft³/s.

Human health (harmonic mean) design flow.— 2,440 ft³/s.

Remarks.— The flow is regulated by Elkhart Hydroelectric Plant.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
673	875	1010

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	864	40	3290
98	1000	30	3860
95	1180	20	4630
90	1400	10	5930
80	1720	5	7090
70	2060	2	8640
60	2420	1	9930
50	2830		

Lake Michigan Basin

04101370 JUDY CREEK NEAR SOUTH BEND, IN

Location.— Lat 41°43'43", long 86°15'46" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.23, T.38 N., R.2 E., St. Joseph County, IN, Hydrologic Unit 04050001, on right bank at downstream side of bridge on access road to Izaak Walton League property, 0.1 mi south of Darden Road in Roseland, 0.5 mi northeast of intersection of St. Joseph River and Interstate 80/90, and 0.6 mi from mouth.

Drainage area.— 38 mi².

Period of record.— October 1992 to current year.

Average discharge.— 17.3 ft³/s.

Minimum daily discharge.— 0.59 ft³/s.

Human health (harmonic mean) design flow.— 11 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.6	1.8	2.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.4	40	18
98	3.0	30	22
95	4.0	20	25
90	5.5	10	32
80	8.0	5	39
70	11	2	48
60	14	1	57
50	16		

Lake Erie Basin

04177720 FISH CREEK AT HAMILTON, IN

Location.— Lat 41°31'56", long 84°54'13" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.34, T.36 N., R.14 E., Steuben County, IN, Hydrologic Unit 04100003, on left bank 6 ft upstream from bridge on County Road 775 South, 0.5 mi downstream from Hamilton Lake outlet, 0.5 mi northeast of SR 1 and SR 427 junction, and 0.5 mi southeast of Hamilton.

Drainage area.— 37.5 mi².

Period of record.— October 1969 to current year.

Average discharge.— 34.8 ft³/s.

Minimum daily discharge.— 0.33 ft³/s.

Human health (harmonic mean) design flow.— 7.9 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.9	1.1	1.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.5	40	24
98	1.7	30	33
95	2.2	20	49
90	3.0	10	84
80	4.9	5	132
70	7.7	2	212
60	12	1	282
50	17		

Lake Erie Basin

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN

Location.— Lat 41°23'07", long 84°48'06" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.18, T.5 N., R.1 E., Defiance County, OH, Hydrologic Unit 04100003, on left downstream side at bridge on Ohio State Highway 249, 3.5 mi northeast of Newville, 6.5 mi northwest of Hicksville, OH, and at mile 42.3.

Drainage area.— 610 mi².

Period of record.— October 1946 to current year.

Average discharge.— 557 ft³/s.

Minimum daily discharge.— 14 ft³/s.

Human health (harmonic mean) design flow.— 131 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
21	22	27

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	24	40	350
98	28	30	523
95	39	20	840
90	52	10	1530
80	79	5	2190
70	114	2	3070
60	170	1	3850
50	246		

Lake Erie Basin

04179000 ST. JOSEPH RIVER AT CEDARVILLE, IN

Location.— Lat 41°11'46", long 85°01'27" referenced to North American Datum of 1927, in J. Hackley Reserve, T.32 N., R.13 E., Allen County, IN, Hydrologic Unit 04100003, on left bank 700 ft upstream from highway bridge, 0.4 mi south of Cedarville, 0.5 mi upstream from Cedar Creek, 0.6 mi downstream from Cedarville Dam, and at mile 13.9.

Drainage area.— 763 mi².

Period of record.— January 1931 to May 1932, October 1955 to September 1981.

Average discharge.— 620 ft³/s.

Minimum daily discharge.— 1.6 ft³/s.

Human health (harmonic mean) design flow.— 140 ft³/s.

Remarks.— Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Low-flow statistics calculated for the regulated period, 1956 to 1981.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
10	19	36

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	30	40	376
98	36	30	554
95	46	20	911
90	60	10	1710
80	86	5	2570
70	125	2	3580
60	180	1	4480
50	260		

Lake Erie Basin

04179500 CEDAR CREEK AT AUBURN, IN

Location.— Lat 41°21'57", long 85°03'08" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.32, T.34 N., R.13 E., DeKalb County, Hydrologic Unit 04100003, on right bank 15 ft downstream from Ninth Street bridge in Auburn, and 2 mi upstream from John Diehl Ditch.

Drainage area.— 87.3 mi².

Period of record.— July 1943 to September 1973.

Average discharge.— 68.5 ft³/s.

Minimum daily discharge.— 0.70 ft³/s.

Human health (harmonic mean) design flow.— 12 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.3	1.8	2.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.2	40	39
98	2.8	30	58
95	3.7	20	94
90	4.8	10	180
80	7.5	5	296
70	12	2	471
60	18	1	600
50	27		

Lake Erie Basin

04179520 CEDAR CREEK AT 18TH STREET AT AUBURN, IN

Location.— Lat 41°21'36", long 85°02'57" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.32, T.34 N., R.13 E., DeKalb County, IN, Hydrologic Unit 04100003, on top of right upstream wingwall of the bridge on 18th Street, 0.3 mi east of downtown Auburn, 1.46 mi above John Diehl Ditch, and at mile 20.94.

Drainage area.— 90.2 mi².

Period of record.— September 2001 to current year.

Average discharge.— 95.2 ft³/s.

Minimum daily discharge.— 2.4 ft³/s.

Human health (harmonic mean) design flow.— 19 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.9	3.3	4.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.8	40	58
98	4.3	30	84
95	5.6	20	134
90	7.1	10	251
80	10	5	395
70	17	2	592
60	27	1	777
50	40		

Lake Erie Basin

04180000 CEDAR CREEK NEAR CEDARVILLE, IN

Location.— Lat 41°13'08", long 85°04'35" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.19, T.32 N., R.13 E., Allen County, IN, Hydrologic Unit 04100003, on left bank at downstream side of bridge on Tonkle Road, 3 mi northwest of Cedarville, 5.8 mi upstream from mouth, and 10 mi south of Auburn.

Drainage area.— 270 mi².

Period of record.— October 1946 to current year.

Average discharge.— 263 ft³/s.

Minimum daily discharge.— 13 ft³/s.

Human health (harmonic mean) design flow.— 79 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
19	21	24

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	22	40	158
98	24	30	224
95	28	20	340
90	33	10	626
80	45	5	1030
70	62	2	1700
60	88	1	2250
50	118		

Lake Erie Basin

04180500 ST. JOSEPH RIVER NEAR FORT WAYNE, IN

Location.— Lat 41°10'38", long 85°03'21" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.3, T.31 N., R.13 E., Allen County, IN, Hydrologic Unit 04100003, on left bank 0.8 mi downstream from Ely Run, 1.3 mi upstream from Mayhew Road bridge, 8.0 mi northeast of the Fort Wayne Court House, and at mile 10.71.

Drainage area.— 1,060 mi².

Period of record.— October 1983 to current year. August 1941 to September 1955, gage located 1.3 mi downstream at Ely Bridge.

Average discharge.— 1,079 ft³/s.

Minimum daily discharge.— 35 ft³/s.

Human health (harmonic mean) design flow.— 281 ft³/s.

Remarks.— Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
46	54	70

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	62	40	671
98	72	30	990
95	92	20	1560
90	118	10	2780
80	169	5	4080
70	229	2	5770
60	331	1	7000
50	469		

Lake Erie Basin

04181500 ST. MARYS RIVER AT DECATUR, IN

Location.— Lat 40°50'53", long 84°56'16" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.27, T.28 N., R.14 E., Adams County, IN, Hydrologic Unit 04100004, on left downstream side of bridge on U.S. Highway 27, 0.5 mi upstream from Holthouse Ditch, 1.3 mi north of Decatur, and at mile 29.1.

Drainage area.— 621 mi².

Period of record.— October 1946 to current year.

Average discharge.— 538 ft³/s.

Minimum daily discharge.— 5.4 ft³/s.

Human health (harmonic mean) design flow.— 64 ft³/s.

Remarks.— Flow regulated by Grand Lake. There can be a slight diversion from or into the Wabash River Basin and into the Miami and Erie Canal.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
9.5	11	14

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	13	40	223
98	15	30	395
95	19	20	745
90	24	10	1570
80	35	5	2550
70	54	2	3880
60	86	1	4970
50	136		

Lake Erie Basin

04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN

Location.— Lat 41°59'16", long 85°06'43" referenced to North American Datum of 1927, in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, Hydrologic Unit 04100004, on left bank 130 ft downstream from Anthony Boulevard Extension, 0.8 mi downstream from Houk Ditch, 5 mi south of Fort Wayne, and 10.8 mi upstream from mouth.

Drainage area.— 762 mi².

Period of record.— October 1930 to current year.

Average discharge.— 650 ft³/s.

Minimum daily discharge.— 3.4 ft³/s.

Human health (harmonic mean) design flow.— 70 ft³/s.

Remarks.— The flow is sometimes regulated by Grand Lake. The can be a slight diversion from or into the Wabash River Basin and into Miami and Erie Canal.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
8.9	10	14

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	13	40	265
98	15	30	470
95	20	20	874
90	26	10	1900
80	41	5	3200
70	64	2	4770
60	101	1	6050
50	160		

Lake Erie Basin

04182590 HARBER DITCH AT FORT WAYNE, IN

Location.— Lat 41°00'27", long 85°10'58" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.33, T.30 N., R.12 E., Allen County, IN, Hydrologic Unit 04100004, on left bank 50 ft upstream from bridge on Baer Road in Fort Wayne, 3.2 mi upstream from mouth. The stream name changes to Fairfield Ditch 0.7 mi downstream at bridge on Lower Huntington Road.

Drainage area.— 21.9 mi².

Period of record.— May 1964 to September 1991.

Average discharge.— 18.6 ft³/s.

Minimum daily discharge.— 0.04 ft³/s.

Human health (harmonic mean) design flow.— 1.1 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	6.1
98	0.2	30	11
95	0.3	20	20
90	0.4	10	44
80	0.8	5	87
70	1.5	2	168
60	2.5	1	253
50	3.9		

Lake Erie Basin

04182769 ST. MARYS RIVER AT MAIN ST. AT FORT WAYNE, IN

Location.— Lat 41°04'43", long 85°09'16" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.3, T.30 N., R.12 E., Allen County, IN, Hydrologic Unit 04100004, on downstream side of Main St. bridge, 2.6 mi west of Wells St, 3.2 mi south of intersection of Coliseum Blvd and Lima Road, 5.4 mi northeast of I-69 and at river mile 1.67.

Drainage area.— 823 mi².

Period of record.— October 2009 to current year.

Average discharge.— 859 ft³/s.

Minimum daily discharge.— 12 ft³/s.

Human health (harmonic mean) design flow.— 81 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
10	12	16

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	22	40	378
98	24	30	650
95	28	20	1230
90	33	10	2560
80	50	5	4320
70	74	2	6470
60	124	1	7390
50	229		

Lake Erie Basin

04182808 SPY RUN CREEK NEAR PARK DRIVE AT FORT WAYNE, IN

Location.— Lat 41°06'17", long 85°09'28" referenced to North American Datum of 1927, in SE ¼ SE ¼ SW ¼ sec.27, T.31 N., R.12 E., Allen County, IN, Hydrologic Unit 04100004, on right bank at top of stairs, 0.5 mi from entrance to Franke Park, 2.5 mi from I-69, and at river mile 2.66.

Drainage area.— 13.5 mi².

Period of record.— May 2008 to current year.

Average discharge.— 17.3 ft³/s.

Minimum daily discharge.— 0.27 ft³/s.

Human health (harmonic mean) design flow.— 2.6 ft³/s.

Remarks.— This site has less than 10 years of record.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.6	0.6	0.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.4	40	5.1
98	0.6	30	7.6
95	0.9	20	15
90	1.1	10	38
80	1.7	5	78
70	2.3	2	162
60	3	1	244
50	3.9		

Lake Erie Basin

04182810 SPY RUN CREEK AT FORT WAYNE, IN

Location.— Lat 41°06'18", long 85°09'12" referenced to North American Datum of 1927, in SW1/4SW1/4 sec.26, T.31 N., R.12 E., Allen County, Hydrologic Unit 04100004, on right bank 50 ft upstream from Sherman Boulevard bridge in Fort Wayne, and at mile 2.2.

Drainage area.— 14.0 mi².

Period of record.— October 1983 to October 2001.

Average discharge.— 18.0 ft³/s.

Minimum daily discharge.— 0.93 ft³/s.

Human health (harmonic mean) design flow.— 5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.1	1.4	2.0

Percentage of time streamflow was equaled or exceeded for the period of record			
Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.6	40	7.5
98	1.8	30	11
95	2.1	20	18
90	2.5	10	35
80	3.2	5	70
70	3.7	2	154
60	4.5	1	240
50	5.6		

Lake Erie Basin

04182950 MAUMEE RIVER AT COLISEUM BLVD AT FORT WAYNE, IN

Location.— Lat 41°04'47", long 85°05'15" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.5, T.30 N., R.13 E., Allen County, IN, Hydrologic Unit 04100003, on left bank and downstream side of Coliseum Blvd. bridge, 0.4 mi north of intersection of State Road 14 and Coliseum Blvd., 1.5 mi downstream of Anthony Blvd., 2.7 mi below confluence of St. Joseph and St. Marys Rivers, and at mile 133.4.

Drainage area.— 1,930 mi².

Period of record.— November 2003 to current year.

Average discharge.— 2,124 ft³/s.

Minimum daily discharge.— 41 ft³/s.

Human health (harmonic mean) design flow.— 460 ft³/s.

Remarks.— This site has less than 10 years of record. Flow is regulated by hydropower plant on the St. Joseph River 5.9 mi upstream from the station. Flow is slightly regulated by upstream reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
56	89	112

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	95	40	1300
98	106	30	1900
95	124	20	3230
90	163	10	6100
80	248	5	9030
70	392	2	13010
60	579	1	15370
50	849		

Lake Erie Basin

04183000 MAUMEE RIVER AT NEW HAVEN, IN

Location.— Lat 41°05'06", long 85°01'20" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.2, T.30 N., R.13 E., Allen County, IN, Hydrologic Unit 04100005, on left bank 600 ft upstream from bridge on Landin Road, 1,400 ft upstream from the Norfolk and Western Railroad bridge, 1.1 mi northwest of New Haven, 2.8 mi upstream from Sixmile Creek, and at mile 129.0.

Drainage area.— 1,967 mi².

Period of record.— October 1956 to current year.

Average discharge.— 1,867 ft³/s.

Minimum daily discharge.— 48 ft³/s.

Human health (harmonic mean) design flow.— 432 ft³/s.

Remarks.— The flow is regulated by hydropower plant on the St. Joseph River 10.3 mi upstream from station. Flow is slightly regulated by upstream reservoirs.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
70	84	101

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	88	40	1160
98	102	30	1740
95	128	20	2850
90	162	10	5080
80	252	5	7610
70	374	2	10700
60	555	1	13100
50	798		

Illinois River Basin

05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN

Location.— Lat 41°33'50", long 86°29'50" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.23, T.36 N., R.1 W., St. Joseph County, IN, Hydrologic Unit 07120001, on left bank at downstream side of bridge on county highway named "New Road," 2.7 mi upstream from Little Kankakee River, 4 mi northwest of North Liberty, and at mile 126.9.

Drainage area.— 174 mi², of which 58.2 mi² does not contribute directly to surface runoff.

Period of record.— January 1951 to October 2003.

Average discharge.— 158 ft³/s.

Minimum daily discharge.— 44 ft³/s.

Human health (harmonic mean) design flow.— 129 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
52	57	64

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	61	40	155
98	66	30	174
95	74	20	203
90	83	10	259
80	96	5	322
70	109	2	416
60	123	1	488
50	137		

Illinois River Basin

05515400 KINGSBURY CREEK NEAR LAPORTE, IN

Location.— Lat 41°32'49", long 86°43'48" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.23, T.36 N., R.3 W., LaPorte County, Hydrologic Unit 07120001, on left bank at upstream side of bridge on County Road 400 South, 0.5 mi east of State Highway 39, 1.5 mi west of U.S. Highway 35, and 3 mi south of LaPorte city limits.

Drainage area.— 7.08 mi², of which 4.07 mi² does not contribute directly to surface runoff.

Period of record.— October 1970 to September 1986.

Average discharge.— 4.26 ft³/s.

Minimum daily discharge.— 0.83 ft³/s.

Human health (harmonic mean) design flow.— 3.2 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.1	1.2	1.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.4	40	4.2
98	1.5	30	4.8
95	1.6	20	5.6
90	1.9	10	7.4
80	2.3	5	9.0
70	2.7	2	12
60	3.2	1	15
50	3.7		

Illinois River Basin

05515500 KANKAKEE RIVER AT DAVIS, IN

Location.— Lat 41°24'00", long 86°42'04" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.13, T.34 N., R.3 W., Starke County, IN, Hydrologic Unit 07120001, on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mi downstream from Mill Creek, 4 mi east of Hanna, and at mile 110.9.

Drainage area.— 537 mi², of which 137 mi² does not contribute directly to surface runoff.

Period of record.— October 1924 to current year.

Average discharge.— 528 ft³/s.

Minimum daily discharge.— 147 ft³/s.

Human health (harmonic mean) design flow.— 433 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
184	191	211

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	206	40	517
98	220	30	594
95	248	20	705
90	277	10	899
80	322	5	1070
70	363	2	1260
60	407	1	1410
50	455		

Illinois River Basin

05516000 YELLOW RIVER NEAR BREMEN, IN

Location.— Lat 41°25'11", long 86°10'14" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.10, T.34 N., R.3 E., Marshall County, Hydrologic Unit 07120001, on left bank at downstream side of bridge on East 4th Road, 0.5 mi downstream from Bunch ditch, 2 mi southwest of Bremen, and 4 mi upstream from Dausman ditch.

Drainage area.— 135 mi².

Period of record.— August 1955 to September 1973.

Average discharge.— 104 ft³/s.

Minimum daily discharge.— 6.2 ft³/s.

Human health (harmonic mean) design flow.— 25 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
6.0	6.3	6.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	7.2	40	54
98	7.5	30	78
95	8.4	20	130
90	10	10	257
80	14	5	472
70	21	2	810
60	29	1	950
50	39		

Illinois River Basin

05516500 YELLOW RIVER AT PLYMOUTH, IN

Location.— Lat 41°20'25", long 86°18'16" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.13, T.33 N., R.2 E., Marshall County, IN, Hydrologic Unit 07120001, on left bank 50 ft upstream from LaPorte Street footbridge in Plymouth, 1.1 mi downstream from Elmer Seltenright (formerly Baker) Ditch, 8.1 mi upstream from Wolf Creek, and at mile 40.3.

Drainage area.— 294 mi², of which 22 mi² does not contribute directly to surface runoff.

Period of record.— July 1948 to current year.

Average discharge.— 273 ft³/s.

Minimum daily discharge.— 13 ft³/s.

Human health (harmonic mean) design flow.— 94 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
21	23	27

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	25	40	179
98	28	30	244
95	34	20	365
90	41	10	677
80	57	5	1080
70	77	2	1610
60	103	1	1990
50	135		

Illinois River Basin

05517000 YELLOW RIVER AT KNOX, IN

Location.— Lat 41°18'10", long 86°37'14" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.14, T.33 N., R.2 W., Starke County, IN, Hydrologic Unit 07120001, on right bank 40 ft upstream from bridge on U.S. Highway 35 in Knox, 0.3 mi north of Knox, 1.4 mi downstream from Eagle Creek, and at mile 11.6.

Drainage area.— 435 mi², of which 51 mi² does not contribute directly to surface runoff.

Period of record.— August 1943 to October 2011.

Average discharge.— 415 ft³/s.

Minimum daily discharge.— 37 ft³/s.

Human health (harmonic mean) design flow.— 226 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
64	71	83

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	81	40	338
98	87	30	432
95	99	20	585
90	114	10	891
80	142	5	1240
70	176	2	1810
60	220	1	2200
50	271		

Illinois River Basin

05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN

Location.— Lat 41°13'12", long 86°58'06" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.15, T.32 N., R.5 W., Porter County, IN, Hydrologic Unit 07120001, on right bank at downstream side of county road 500E bridge at Dunns Bridge, 1.8 mi north of Tefft, 3.6 mi upstream from Davis Ditch, and at mile 90.8.

Drainage area.— 1,352 mi², of which 192 mi² does not contribute directly to surface runoff.

Period of record.— July 1948 to current year.

Average discharge.— 1,393 ft³/s.

Minimum daily discharge.— 280 ft³/s.

Human health (harmonic mean) design flow.— 988 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
337	352	395

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	372	40	1360
98	401	30	1630
95	462	20	2040
90	541	10	2680
80	667	5	3190
70	803	2	3760
60	968	1	4270
50	1160		

Illinois River Basin

05517530 KANKAKEE RIVER NEAR KOUTS, IN

Location.— Lat 41°15'14", long 87°02'02" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.6, T.32 N., R.5 W., Jasper County, IN, Hydrologic Unit 07120001, on left bank, 20 ft downstream from bridge on State Highway 49, 0.7 mi upstream from Cook Ditch, 4.5 mi south of Kouts, and at mile 86.7.

Drainage area.— 1,376 mi², of which 194 mi² does not contribute directly to surface runoff.

Period of record.— October 1974 to current year.

Average discharge.— 1,488 ft³/s.

Minimum daily discharge.— 273 ft³/s.

Human health (harmonic mean) design flow.— 1,060 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
334	362	431

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	406	40	1470
98	441	30	1750
95	504	20	2160
90	581	10	2860
80	712	5	3450
70	857	2	4110
60	1050	1	4540
50	1260		

Illinois River Basin

05517890 COBB DITCH NEAR KOUTS, IN

Location.— Lat 41°20'19", long 87°04'30" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec. 2, T.33 N., R.6 W., Porter County, IN, Hydrologic Unit 07120001, on left bank 15 ft upstream from bridge on County Road 50 West, 1.6 mi upstream from mouth, 3 mi northwest of Kouts, and 6.5 mi northeast of Hebron.

Drainage area.— 30.3 mi².

Period of record.— July 1968 to October 2003.

Average discharge.— 33.1 ft³/s.

Minimum daily discharge.— 6.0 ft³/s.

Human health (harmonic mean) design flow.— 21 ft³/s.

Remarks.— Prior to October 1971, published as State Ditch near Kouts.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
8.6	9.4	10

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	9.5	40	25
98	10	30	30
95	12	20	37
90	13	10	57
80	15	5	88
70	17	2	158
60	19	1	242
50	22		

Illinois River Basin

05518000 KANKAKEE RIVER AT SHELBY, IN

Location.— Lat 41°10'58", long 87°20'25" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.33, T.32 N., R.8 W., Newton County, IN, Hydrologic Unit 07120001, on right bank at upstream side of Highway 55 bridge, 1.0 mi south of Shelby, 7.8 mi upstream from Beaver Lake Ditch, and at mile 68.0.

Drainage area.— 1,779 mi², of which 201 mi² does not contribute directly to surface runoff.

Period of record.— October 1922 to current year.

Average discharge.— 1,720 ft³/s.

Minimum daily discharge.— 260 ft³/s.

Human health (harmonic mean) design flow.— 1,180 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
393	416	468

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	450	40	1670
98	489	30	2030
95	555	20	2580
90	640	10	3420
80	789	5	4020
70	951	2	4670
60	1150	1	5110
50	1390		

Illinois River Basin

05519000 SINGLETON DITCH AT SCHNEIDER, IN

Location.— Lat 41°12'44", long 87°26'44" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.22, T.32 N., R.9 W., Lake County, IN, Hydrologic Unit 07120001, on left bank 15 ft upstream from bridge on Ackerman Avenue, 0.5 mi upstream from Bruce Ditch, 1.5 mi downstream from Cedar Creek, 1.6 mi north of Schneider, and at mile 10.1.

Drainage area.— 123 mi².

Period of record.— July 1948 to October 2001.

Average discharge.— 115 ft³/s.

Minimum daily discharge.— 3.6 ft³/s.

Human health (harmonic mean) design flow.— 41 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
7.4	7.9	9.4

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	8.6	40	80
98	10	30	107
95	14	20	152
90	19	10	254
80	27	5	411
70	36	2	696
60	48	1	922
50	62		

Illinois River Basin

05519500 WEST CREEK NEAR SCHNEIDER, IN

Location.— Lat 41°12'52", long 87°29'36" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.19, T.32 N., R.9 W., Lake County, IN, Hydrologic Unit 07120001, on left bank at downstream side of county highway bridge, 1.2 mi upstream from Singleton Ditch, and 2.8 mi northwest of Schneider.

Drainage area.— 54.7 mi².

Period of record.— July 1948 to December 1951, January 1954 to September 1972.

Average discharge.— 41.4 ft³/s.

Minimum daily discharge.— 2.6 ft³/s.

Human health (harmonic mean) design flow.— 14 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.8	4.6	5.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.8	40	21
98	5.2	30	29
95	6.2	20	44
90	7.3	10	82
80	9.0	5	159
70	11	2	306
60	14	1	442
50	17		

Illinois River Basin

05521000 IROQUOIS RIVER AT ROSEBUD, IN

Location.— Lat 41°02'00", long 87°10'49" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.24, T.30 N., R.7 W., Jasper County, IN, Hydrologic Unit 07120002, on right bank 100 ft downstream from bridge on county road 700W, 0.5 mi north of Rosebud, 0.5 mi downstream from confluence of Swain and Dexter Ditches, 1.5 mi upstream from Davidson Ditch, 2 mi east of Parr, and at mile 93.5.

Drainage area.— 35.6 mi².

Period of record.— July 1948 to October 2003.

Average discharge.— 28.7 ft³/s.

Minimum daily discharge.— 0.50 ft³/s.

Human health (harmonic mean) design flow.— 10 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.2	2.4	3.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.3	40	23
98	2.8	30	31
95	3.5	20	41
90	4.4	10	64
80	6.2	5	93
70	8.8	2	148
60	13	1	196
50	18		

Illinois River Basin

05522000 IROQUOIS RIVER NEAR NORTH MARION, IN

Location.— Lat 41°58'12", long 87°06'50" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.16, T.29 N., R.6 W., Jasper County, IN, Hydrologic Unit 07120002, on downstream side of county highway bridge, 1.2 mi upstream from Ryan Ditch, 2 mi east of North Marion, 3.5 mi northeast of Rensselaer, and at mile 87.7.

Drainage area.— 144 mi².

Period of record.— December 1948 to October 1993.

Average discharge.— 139 ft³/s.

Minimum daily discharge.— 1.6 ft³/s.

Human health (harmonic mean) design flow.— 34 ft³/s.

Remarks.— Water from Oliver Ditch, an upstream tributary, can be diverted to Ryan Ditch and enter the Iroquois River below the station. Streamflow affected by irrigation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.6	4.4	5.9

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.9	40	104
98	6.2	30	141
95	9.5	20	205
90	14	10	346
80	23	5	510
70	35	2	750
60	54	1	941
50	76		

Illinois River Basin

05522500 IROQUOIS RIVER AT RENSSELAER, IN

Location.— Lat 40°56'00", long 87°07'44" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.29, T.29 N., R.6 W., Jasper County, IN, Hydrologic Unit 07120002, on right bank 20 ft downstream from bridge on State Highway 114, 0.8 mi east of Rensselaer, 1.5 mi downstream from Ryan Ditch, 5.5 mi upstream from Slough Creek, and at mile 84.9.

Drainage area.— 203 mi².

Period of record.— July 1948 to current year.

Average discharge.— 189 ft³/s.

Minimum daily discharge.— 2.2 ft³/s.

Human health (harmonic mean) design flow.— 45 ft³/s.

Remarks.— Stream flow is affected by irrigation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
5.8	6.7	8.6

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	6.7	40	133
98	8.8	30	186
95	13	20	275
90	18	10	473
80	29	5	721
70	46	2	1110
60	69	1	1370
50	97		

Illinois River Basin

05523000 BICE DITCH NEAR MARION, IN

Location.— Lat 40°52'00", long 87°05'32" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.22, T.28 N., R.6 W., Jasper County, IN, Hydrologic Unit 07120002, on left bank at upstream side of bridge on State Highway 16, 2.3 mi upstream from mouth, 3 mi southeast of South Marion, and 5 mi southeast of Rensselaer.

Drainage area.— 21.8 mi².

Period of record.— December 1948 to September 1993.

Average discharge.— 18.2 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.2 ft³/s.

Remarks.— Low flows in summer may be affected by irrigation.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.1	0.1	0.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.1	40	8.2
98	0.1	30	14
95	0.2	20	22
90	0.4	10	46
80	1.0	5	78
70	1.9	2	137
60	3.2	1	205
50	5.1		

Illinois River Basin

05523500 SLOUGH CREEK NEAR COLLEGEVILLE, IN

Location.— Lat 40°53'30", long 87°09'17" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.12, T.28 N., R.7 W., Jasper County, IN, Hydrologic Unit 07120002, on right bank at downstream side of bridge on State Highway 53, 1.5 mi south of Collegeville, 2.2 mi downstream from Bice Ditch, 2.9 mi upstream from Carpenter Creek, and 3.2 mi upstream from mouth.

Drainage area.— 83.7 mi².

Period of record.— July 1948 to December 1951, October 1952 to September 1982.

Average discharge.— 70.1 ft³/s.

Minimum daily discharge.— 0.70 ft³/s.

Human health (harmonic mean) design flow.— 11 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.3	1.4	1.8

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	1.6	40	34
98	2.0	30	52
95	3.0	20	87
90	4.4	10	176
80	7.1	5	299
70	11	2	518
60	16	1	711
50	23		

Illinois River Basin

05524000 CARPENTER CREEK AT EGYPT, IN

Location.— Lat 40°51'58", long 87°12'20" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.15, T.28 N., R.7 W., Jasper County, IN, Hydrologic Unit 07120002, on left bank at downstream side of bridge on State Highway 16, 0.5 mi north of Egypt, 4 mi southwest of Collegeville, and at mile 4.0.

Drainage area.— 44.8 mi².

Period of record.— July 1948 to December 1951, October 1952 to September 1982.

Average discharge.— 38.3 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 1.6 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.0

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	18
98	0.1	30	28
95	0.2	20	47
90	0.5	10	97
80	1.3	5	171
70	3.0	2	313
60	6.1	1	435
50	11		

Illinois River Basin

05524500 IROQUOIS RIVER NEAR FORESMAN, IN

Location.— Lat 40°52'14", long 87°18'24" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.15, T.28 N., R.8 W., Newton County, IN, Hydrologic Unit 07120002, on right bank at downstream side of bridge on State Highway 55, 0.2 mi north of intersection of State Highways 16 and 55, 0.5 mi downstream from Mosquito Creek, 0.6 mi west of Foresman, 3 mi east of Brook, and at mile 72.7.

Drainage area.— 449 mi².

Period of record.— July 1948 to current year.

Average discharge.— 420 ft³/s.

Minimum daily discharge.— 6.3 ft³/s.

Human health (harmonic mean) design flow.— 86 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
11	12	15

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	13	40	289
98	16	30	416
95	22	20	660
90	33	10	1110
80	56	5	1580
70	90	2	2340
60	144	1	2940
50	205		

Illinois River Basin

05536179 HART DITCH AT DYER, IN

Location.— Lat 41°30'28", long 87°30'36" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.12, T.35 N., R.10 W., Lake County, IN, Hydrologic Unit 07120003, on right bank, 50 ft upstream from 213th Street in Dyer, 0.8 mi upstream from Dyer Ditch, 0.8 mi east of Illinois State line, 3.5 mi east of intersection of U.S. Highway 30 and Interstate 394.

Drainage area.— 37.6 mi².

Period of record.— October 1989 to current year.

Average discharge.— 43.4 ft³/s.

Minimum daily discharge.— 0.61 ft³/s.

Human health (harmonic mean) design flow.— 9.7 ft³/s.

Remarks.— Low flow affected by sewage effluent.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
1.2	1.7	2.7

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	2.4	40	20
98	2.9	30	29
95	3.5	20	46
90	4.2	10	100
80	5.7	5	184
70	7.8	2	338
60	11	1	517
50	15		

Illinois River Basin

05536190 HART DITCH AT MUNSTER, IN

Location.— Lat 41°33'40", long 87°28'50" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.20, T.36 N., R.9 W., Lake County, IN, Hydrologic Unit 07120003, on left bank, 0.2 mi downstream from Ridge Road, 0.4 mi upstream from mouth, and 0.9 mi south of intersection of Interstate 80/90 and U.S. Highway 41.

Drainage area.— 70.7 mi².

Period of record.— September 1942 to October 2011.

Average discharge.— 75.8 ft³/s.

Minimum daily discharge.— 1.6 ft³/s.

Human health (harmonic mean) design flow.— 16 ft³/s.

Remarks.— Low flow affected by sewage effluent.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
2.5	3.0	4.1

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	3.5	40	38
98	4.1	30	54
95	5.1	20	82
90	6.4	10	162
80	10	5	308
70	15	2	603
60	20	1	869
50	28		

Illinois River Basin

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

Location.— Lat 41°34'39", long 87°31'20" referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.13, T.36 N., R.10 W., Lake County, IN, Hydrologic Unit 07120003, on Hohman Avenue bridge at north city limits of Munster, 0.4 mi upstream from Indiana-Illinois State line, and 4.6 mi upstream from Thorn Creek

Drainage area.— 90.0 mi².

Period of record.— June 1958 to current year.

Average discharge.— 69.4 ft³/s.

Minimum daily discharge.— 1.9 ft³/s.

Human health (harmonic mean) design flow.— 22 ft³/s.

Remarks.— Flow from eastern part of Little Calumet River Basin is diverted to Lake Michigan by Burns Ditch.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
3.6	4.1	6.3

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	4.7	40	44
98	5.8	30	61
95	7.4	20	95
90	9.5	10	175
80	14	5	275
70	19	2	438
60	25	1	556
50	33		

Illinois River Basin

05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN

Location.— Lat 41°37'28", long 87°31'05" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.36, T.37 N., R.10 W., Lake County, IN, Hydrologic Unit 07120003, on left bank, 20 feet upstream of Hohman Avenue, 1,000 feet east of Indiana-Illinois State line, 0.57 mi downstream of U.S. Highway 41, and 0.7 mi north of St. Margaret's Hospital (Hohman Avenue).

Drainage area.— Indeterminate.

Period of record.— October 1991 to current year.

Average discharge.— 22.4 ft³/s.

Minimum daily discharge.— 0.0 ft³/s.

Human health (harmonic mean) design flow.— 0.5 ft³/s.

Remarks.— None.

Magnitude and frequency of annual low flow		
Lowest average streamflow, in ft ³ /s, for indicated period of consecutive days at an annual nonexceedance probability of 0.1		
1	7	30
0.0	0.0	0.2

Percentage of time streamflow was equaled or exceeded for the period of record

Percentage of time	Daily mean streamflow (ft ³ /s)	Percentage of time	Daily mean streamflow (ft ³ /s)
99	0.0	40	21
98	0.0	30	28
95	0.2	20	42
90	0.7	10	62
80	2.4	5	81
70	5.5	2	104
60	8.9	1	117
50	15		

Table 2

2. Low-flow characteristics for partial-record streamgaging stations in Indiana.

Tables 1 and 2 in Excel file format are available at <http://dx.doi.org/10.3133/sir20145242>.

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03274800	Martindale Creek near Cambridge City, IN	58.1	Lat 39°49'50", long 85°08'32", on a line between Secs 13 and 24, T.16N., R.12E., Wayne County, 1.25 miles upstream from U.S. Highway 40, and 1.75 miles northeast of Cambridge City	1.5	1.7	2.2	14.7
03274900	Greens Fork at Greens Fork, IN	66.7	Lat 39°53'35", long 85°02'39", in NE1/4 SW1/4 Sec 26, T.17N., R.13E., Wayne County, at State Highway 38 bridge at west edge of Greens Fork.	2	2.3	2.7	12.4
03275200	Salt Creek near Metamora, IN	115	Lat 39°26'35", long 85°11'01", in SW1/4 Sec 34, T.12N., R.12E., Franklin County, 0.3 mile south of U.S. Highway 52, and 2.75 miles west of Metamora.	0.4	0.5	0.7	5.8
03275700	Silver Creek near Liberty, IN	9.67	Lat 39°39'36", long 84°55'39", on line between Sec 31, T.12N., R.1W., and Sec 36, T.12N, R.2W., Union County, at bridge on U.S. Highway 27, 1.5 miles north of Liberty.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03275850	Hanna Creek near Roseburg, IN	22.3	Lat 39°34'58", long 84°56'48", in SW1/4 SW1/4 Sec 25, T.11N., R.2W., Union County, at bridge on State Highway 101, 0.5 mile south of Roseburg.	0.1	0.2	0.3	8.7
03276630	Tanners Creek near Guilford, IN	84.1	Lat 39°09'15", long 84°53'50", E1/2 Sec 29, T.6N., R.1W., Dear- born County, on Pribble Road low- water bridge crossing 2.3 miles southeast of Guilford.	0	0	0	3.6
03276750	Laughery Creek near Ballstown, IN	39.8	Lat 39°14'42", long 85°14'52", in SW1/4 NE1/4 Sec 12, T.9N., R.11E., Ripley County, at bridge on State Highway 229, 0.6 mile south of Ballstown.	0	0	0	0.2
03291800	Indian-Kentuck Creek near Manville, IN	121	Lat 38°47'10", long 85°16'58", in SE 1/4 Sec 15, T.4N., R.11E., Jef- ferson County, southeast of Man- ville, 0.2 mile below mouth of west fork Indian-Kentuck Creek.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03292400	Fourteenmile Creek near Charlestown, IN	97	Lat 38°27'58", long 85°37'04", in SE1/4 SE1/4 of Lot 120, T.2S., R.9E., Clark County, Clark military grant at bridge on State Highway 62, 3 miles northeast of Charlestown.	0	0	0	—
03302600	Little Indian Creek near Corydon, IN	32.5	Lat 38°11'59", long 86°05'44", NE1/4 Sec 5, T.4S., R.4E., Harrison County, at bridge on County Highway, 0.2 mile south of State Highway 62, 1.75 miles east of Corydon.	0.2	0.2	0.2	2.6
03302700	Middle Fork Blue River near Salem, IN	38.4	Lat 38°32'36", long 86°05'37", in NE1/4 Sec 8, T.1N., R.4E., Washington County, at bridge on State Highway 135, 1.7 miles upstream from confluence with west fork Blue River and 3.8 miles south of Salem.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03302730	South Fork Blue River near Palmyra, IN	64.3	Lat 38°28'07", long 86°4'55", in SW1/4 NE1/4 NW1/4 Sec 4, T.1S., R.4E., Washington County at bridge on Old Palmyra Road, 0.2 mile north of State Highway 135, 4.7 miles north of Junction of U.S. Highway 150 and State Highway 135 at Palmyra.	0	0	0	2.8
03302850	Whiskey Run at Milltown, IN	39.8	Lat 38°21'08", long 86°17'01", in SE 1/4 SW1/4 Sec 10, T.2S., R.2E., Crawford County, at bridge on County Road, 0.25 mile south of State Highway 64 and 0.8 mile north of intersection of Main and Station in Milltown.	0.1	0.1	0.1	2.1
03302900	Spring Creek near White Cloud, IN	36.6	Lat 38°14'20", long 86°13'45", SE1/4 Sec 19, T.35S., R.3E., Harrison County, at county bridge 0.8 mile north of White Cloud.	5.4	6	7.5	32.4

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03303050	Bird Hollow Creek near English, IN	9.31	Lat 38°21'02", long 86°28'01", in SE1/4 NW1/4 NW1/4 Sec 13, T.2S., R.1W., Crawford County, at bridge on State Highway 37, 0.7 mile north of Highway 64.	0	0	0	0.4
03303160	Little Blue River near Grantsburg, IN	54.4	Lat 38°16'53", long 86°28'03", in SW1/4 SE1/4 Sec 1, T.3S., R.1W., Crawford County, at bridge on State Highway 37, 0.5 mile south of Grantsburg.	0.1	0.1	0.2	3.8
03303190	Little Blue River near Beechwood, IN	128	Lat 38°10'01", long 86°24'57", SW1/4 NE1/4 SE1/4 Sec 16, T.4S., R.1E., Crawford County, 0.5 mile above confluence with Turkey Fork, at county, road 3.0 miles south of Beechwood.	0.1	0.1	0.1	6.8
003303240	Deer Creek near Cannelton, IN	8.70	Lat 37°58'16", long 86°38'40", in SW1/4 SE1/4 SE1/4 Sec 20 T.6S., R.2W., Perry County, at county road bridge, 6.8 miles northeast of Cannelton.	0	0	0	0.1

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03303950	Otter Creek near De Gonia Springs, IN	30.1	Lat 38°02'24", long 87°12'22", in SE1/4 SE1/4 NE1/4 Sec 32 T.5S., R.7W., Warrick County, at bridge on State Highway 62, 1.5 miles southwest of De Gonia Springs.	0.6	0.6	0.8	2.3
03304000	Little Pigeon Creek near Tennyson, IN	150	Lat 38°02'43", long 87°07'08", in NW1/4 Sec 31, T.5S., R.6W., Spencer County, at bridge operated as continuous-record streamgage, on State Highway 161 or East 650 Road, 2.3 miles south of Tennyson.	0	0	0	—
03322050	Pigeon Creek near Buckskin, IN	190	Lat 38°11'38", long 87°25'28", on line between Secs 4 and 9, T.4S. R.9W., Warrick County, at bridge on State Highway 68, 2.3 miles south of Buckskin and 6.4 miles west of Lynnville.	0	0	0	—
03322800	Bear Creek near Bryant, IN	14.5	Lat 40°30'53", long 84°58'23", SE 1/4 Secs 19, T.24N., R.14E., Jay County, at bridge on U.S. Highway 27, 1.2 miles south of Bryant.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03322860	Loblolly Creek at Geneva, IN	67.2	Lat 40°34'59", long 84°57'38", NW1/4 NE1/4 Sec 32, T.25N., R.14E., Adams County, 200 feet upstream from bridge on U.S. Highway 27, at south edge of Geneva.	0.3	0.4	0.5	3.2
03322880	Limberlost Creek at Geneva, IN	41.7	Lat 40°34'59", long 84°57'38", NW1/4 Sec 32, T.25N., R.14E. Adams County, 200 feet upstream from bridge on U.S. Highway 27, at south edge of Geneva.	0.1	0.2	0.2	1.6
03322980	Sixmile Creek near Bluffton, IN	30.0	Lat 40°42'24", long 85°05'16", in NE1/4 NE1/4 SW1/4 Sec 14, T.26N., R.12E., Wells County, on County Road 250 south, about 3 miles southeast of Bluffton.	0.1	0.2	0.2	2.4
03323700	Aboite Creek near Aboite, IN	52.7	Lat 40°59'23", long 85°21'00", on line between Secs 1 and 12, T.29N., R.10E., Huntington County, on County Road 1100 north, 0.5 mile east of State Highway 37, 800 feet above mouth, 2.25 miles northeast of Roanoke.	0.6	0.8	1.1	6

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03323800	Eightmile Creek at Zanesville, IN	45.8	Lat 40°54'40", long 85°17'30", in Sec 4, T.28N., R.11E., Wells County, at bridge on State Highway 3, 0.7 mile southwest of Zanesville.	0.2	0.2	0.3	2
03324050	Clear Creek near Huntington, IN	49.0	Lat 40°54'57", long 85°32'31", in NE1/4 NW1/4 NW1/4 Sec 5, T.28N., R.9E., Huntington County, at bridge on State Highway 16, 0.75 mile west of State Highway 5.	0	0	0.1	2.8
03324250	Salamonie River at Montpelier, IN	253	Lat 40°33'33", long 85°16'43", NE 1/4 NE1/4 SE 1/4 Sec 4, T.24N., R.11E., Blackford County, at bridge on State Highway 303, on north edge of Montpelier.	2.7	3.2	4.3	24.7
03324280	Black Creek near Warren, IN	47.0	Lat 40°38'55", long 85°26'02", in NW1/4 SE1/4 NE1/4 Sec 6, T.25N., R.10E., Wells County, at bridge on County Road 1120 West about 2 miles south of Warren.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03325700	Halfway Creek near Albany, IN	19.1	Lat 40°19'37", long 85°12'56", in NW1/4 NW1/4 SE1/4 Sec 29, T.22N., R.12E., Delaware County, at bridge on County Road 15 East, 1.0 mile north of State Highway 67, 1.5 miles northeast of Albany.	0	0	0	—
03326375	Deer Creek at Marion, IN	45.2	Lat 40°30'30", long 85°38'15", in the NE1/4 Sec 29, T.24N., R.8E., Grant County, on Lincoln Boulevard, at the south edge of Marion.	0	0.2	0.3	2.6
03326480	Lugar Creek at Marion, IN	30.0	Lat 40°32'20", long 85°37'40", in SW1/4 SE1/4 SW1/4 Sec 9, T.24N., R.8E., Grant County, at bridge on Stone Road, 2.0 miles east of Marion.	0.2	0.5	0.7	2.7
033275554	Johnson Drain near Churubusco, IN	8.67	Lat 41°11'13", long 85°17'32", SE1/4 NE1/4 Sec 31, T.32N., R.11E., Allen County, at bridge on State Road 33, 3.3 miles southeast of Churubusco.	0.2	0.3	0.4	—

300 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03327590	Eel River near Columbia City, IN	77.4	Lat 41°08'33", long 85°27'25", NW1/4 SE1/4 NE1/4 Sec 13, T.13N., R.9E., Whitley County, at bridge on Old U.S. Highway 30, 1.5 miles east of junction 9 and 30.	3.7	5	6.5	32
03327620	Blue River near Churubusco, IN	35.8	Lat 41°13'49", long 85°23'27", in E1/2 Sec 17, T.32N., R.10E., Whitley County, at bridge on Anderson Road, 4 miles west of Churubusco and 0.75 mile east of County Road 450 East.	1.3	1.4	1.6	6.2
03327770	Blue River near Columbia City, IN	61.0	Lat 41°10'52", long 85°27'24", in SW1/4 Sec 35, T.32N., R.9E., Whitley County, 2.6 miles east of State Highway 9, 2.2 miles northeast of Columbia City, 2.5 miles downstream from Thorn Creek.	3.3	3.6	4	12.1

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03327853	Spring Creek near Columbia City, IN	8.12	Lat 41°09'55", long 85°34'05", in SE1/4 SE1/4 Sec. 1, T.31N., R.8E., Whitley County, at bridge on County Road 400 West, 1 mile south of Highway 30 and 4.1 miles west of intersection of U.S. Highways 30 and 109 in Columbia City.	0	0	0	0.7
03327875	Clear Creek above Spring Creek at South Whitley, IN	9.58	Lat 41°05'39", long 85°37'20", in SE1/4 NW1/4 SW1/4 Sec 34, T.31N., R.8E., in Whitley County, upstream of bridge on State Road 205, approximately 0.5 mile north of South Whitley.	0	0	0	0.5
03327876	Spring Creek below Clear Creek at South Whitley, IN	44.0	Lat 41°05'39", long 85°37'20", in SW1/4 of Sec 34, T.31N., R.8E., in Whitley County, on State Highway 205 at the northeast edge of South Whitley.	2.4	2.8	3.1	7.3

302 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03327900	Sugar Creek at South Whitley, IN	30.7	Lat 41°04'31", long 85°36'54", on line between Secs 3 and 10 T.30N., R.8E., Whitley County, at bridge on Highway 14, 0.3 mile east of intersection of State Highways 5 and 105 on the southeast edge of South Whitley.	0.4	0.6	0.7	4
03328420	Paw Paw Creek near Roann, IN	31.2	Lat 40°53'40", long 85°53'19", in SW1/4 NW1/4 NW1/4 Sec 8, T.28N., R.6E., Wabash County, at bridge on State Highway 15, 3.5 miles northwest of intersection of State Highways 115 and 15 near Roann.	0.2	0.2	0.3	2.8
03328470	Twelve Mile Creek near Hoover, IN	53.0	Lat 40°48'31", long 86°13'22", in NE1/4 SE1/4, T.27., R.3E., Cass County, at bridge on County Road 300 North, 1.2 miles west of Hoover.	3.7	3.9	4.5	16.4

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03329100	Crooked Creek near Royal Center, IN	35.9	Lat 40°48'23", long 86°29'31", in NW1/4 Sec 11, T.27N., R.1W., Cass County, at triple culverts on 625 West Road, 4 miles south of Royal Center.	2.8	3	3.5	15.4
03329150	Crooked Creek near Logansport, IN	54.2	Lat 40°45'51", long 86°29'54", in NW1/4 Sec 26, T.27N., R.1W., Cass County, at bridge on U.S. Highway 24, 2.5 miles west of County Road 600 West, 6.5 miles west of Logansport.	11	12	13	33
03329300	Rock Creek near Rockfield, IN	80.8	Lat 40°39'10", long 86°33'30", in SE1/4 Sec 22, T.26N., R.1E., Carroll County, at bridge on State Highway 25, 1.25 miles northeast of Rockfield.	0.6	0.7	1	11
03329510	Deer Creek near Lincoln, IN	56.5	Lat 40°36'11", long 86°12'10", SW1/4 NW1/4 Sec 35, T.25N., R.4E., Cass County, 1 mile south of Lincoln.	0.5	0.5	0.8	7.8

304 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03329530	South Fork Deer Creek at Galveston, IN	31.6	Lat 40°34'54", long 86°11'23", SE1/4 NW1/4 SE1/4 Sec 28, T.25N., R.3E., Cass County, at bridge on Highway 35, at north edge of Galveston.	0.4	0.5	0.6	4.5
03329580	Little Deer Creek near Camden, IN	52.9	Lat 40°35'26", long 86°28'02", in SW1/4 SW1/4 SW1/4 Sec 19, T.25N., R.1E., Carroll County, at North Road bridge, approximately 4 miles southeast of Camden.	1	1	1.3	8.9
03329600	Bachelor Run near Flora, IN	13.5	Lat 40°32'50", long 86°29'30", on line between Secs 2 and 11, T.24N., R.1W., Carroll County, at bridge on State Highway 18, 1.2 miles east of Flora.	0.2	0.2	0.3	1.5
03331350	Big Yellow Creek near Mentone, IN	47.8	Lat 41°10'18", long 86°07'16", in NE1/4 NW1/4 Sec 6. T.31N., R.4E., Fulton County, at bridge on State Highway 25, 0.1 mile south of junction of State Highway 110 about 4.5 miles west of Mentone.	1.8	1.9	2.2	12

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03331375	Chippewanuck Creek near Rochester, IN	43.7	Lat 41°06'43", long 86°11'09", NW1/4 NW1/4 NW1/4 Sec 27, T.31N., R.3E., Fulton County, at bridge on State Highway 25, 3.5 miles north of Rochester.	5.3	5.5	6	17
03331430	Mud Creek near Bruce Lake, IN	66.9	Lat 41°03'10", long 86°19'39", on line between Secs 8 and 17, T.30N., R.2E., Fulton County, at bridge on State Highway 14, 4.5 miles east of Bruce Lake and 5.5 miles west of Rochester.	2.9	3	3.5	18
03331750	Quigley Marsh Ditch at Winamac, IN	14.8	Lat 41°03'20", long 86°36'12", on line between Secs 11 and 12, T.30N., R.2W., Pulaski County, at north edge of Winamac at Indian Head Motel on U.S. Highway 35 bridge, 0.3 mile north of State Highway 14 East of Winamac.	6.2	6.3	6.6	12

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03331780	Mill Creek near Fulton, IN	24.8	Lat 40°57'28", long 86°20'06", in S1/2 NW1/4 SW1/4 Sec 17, T.29N., R.2E., at bridge on Fulton County Road, 1 mile north of State Road 114, and 5 miles west of Fulton and 0.75 mile north of Marshtown.	1.6	1.9	2.2	7
03332250	Indian Creek near Thornhope, IN	56.6	Lat 40°55'12", long 86°31'42", NE1/4 SE1/4 NE1/4 Sec 33. T.29N., R.1W., Pulaski County, at bridge on U.S. Highway 35, 1/3 mile south of Thornhope.	5.6	6.6	7.8	29
03332350	Big Monon Creek near Medaryville, IN	69.6	Lat 41°03'21", long 86°50'02", in NW1/4 NW1/4 Sec 13, T.30N., R.4W., Pulaski County, at bridge on State Highway 14, 3 miles east of Junction of U.S. Highway 421, 3.5 miles southeast of Medaryville.	12	13	14	35

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03332440	Hoagland Ditch near Monon, IN	72.8	Lat 40°48'52", long 86°48'51", in NE1/4 NE1/4 SE1/4 Sec 1, on line with Sec 6, T.27N., R.4W., at bridge on White County Road, 3.75 miles south of State Road 16, 1 mile west of confluence at Lake Schaefer, and 7 miles southeast of Monon.	0.4	0.4	0.5	6.5
03332480	Honey Creek near Reynolds, IN	38.4	Lat 40°46'53", long 86°48'52", on line between Secs 19 and 24, T.27N., and on line between R.3W., and 4W., White County, at bridge on County Road 300 East, about 5 miles northwest of Monticello.	0.3	0.3	0.3	2.3
03332550	Pike Creek near Norway IN	20.6	Lat 40°46'51", long 86°44'42", in NE1/4 NE1/4 NW1/4 Sec 22, T.27N., R.3W., White County, at bridge on State Highway 39, 2.0 miles north of U.S. Highway 24.	2.9	3	3.6	12

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03332800	Big Creek near Monticello, IN (previously published as "near Chalmers")	55.3	Lat 40°40'16", long 86°47'14", in NW1/4 SW1/4 Sec 9, T.26N., R.3W., White County, at bridge on county road 4.8 miles east of State Highway 43 in Chalmers.	0.8	0.9	1.3	14
03333100	Moots Creek near Brookston, IN	42.7	Lat 40°34'18", long 86°48'42", on line between Sec 36, T.25N., R.4W., and Sec 31, T.25N., R.3W., White County, at bridge on County Road 300 East, 3.5 miles southwest of Brookston.	0.4	0.4	0.6	6.2
03333400	Mud Creek near Windfall, IN	74.8	Lat 40°24'23", long 85°56'48", in NW1/4 NE1/4 Sec 34, T.23N., R.5E., Tipton County, at bridge on 500 South Road along Tipton-Howard County line 0.5 mile east of State Highway 213 and 3.3 miles north of Windfall.	0.3	0.3	0.4	3.5
03334300	Kilmore Creek at Kilmore, IN	62.6	Lat 40°20'40", long 86°30'25", in SW1/4 Sec 14, T.22N., R.1W., Clinton County, at county highway bridge 0.2 mile south of Kilmore.	0	0	—	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03334330	Kilmore Creek near Frankfort, IN	77.4	Lat 40°19'41", long 86°37'05", in the NE1/4 Sec 27, T.22N., R.2W., Clinton County, on Gasline Road 6.3 miles northwest of Frankfort.	0.4	0.4	0.5	8.3
03334700	Middle Fork Wildcat Creek near Rossville, IN	54.0	Lat 40°25'47", long 86°36'15", NE1/4 NE1/4 Sec 23, T.23N., R.2W., Clinton County, at bridge on U.S. Highway 421, 1.0 mile northwest of junction of U.S. Highway 421 and State Highway 26, in Rossville.	1.7	1.8	2.3	12
03334750	Campbells Run near Rossville, IN	18.3	Lat 40°24'46", long 86°35'41", in SE1/4 NW1/4 Sec 25, T.23N., R.2W., Clinton County, at bridge on U.S. Highway 421, 0.3 mile south of junction U.S. Highway 326 in Rossville.	0.2	0.2	0.3	2.5
03335670	Wea Creek near Lafayette, IN	105	Lat 40°21'46", long 86°54'17", in SE1/4 Sec 7, T.23N., R.4W., Tippecanoe County, at bridge on State Highway 43, 4.0 miles south of Lafayette.	7.8	8.2	9.3	—

310 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03335674	Little Wea Creek near Lafayette, IN	22.6	Lat 40°19'36", long 86°54'17", in the NE1/4 of Sec 30, T.22N., R.4W., Tippecanoe County, on Tippecanoe County Road 6C, 6.5 miles south of Lafayette.	1.7	1.7	2	7.9
03335681	Flint Creek near West Point, IN	29.9	Lat 40°20'25", long 87°04'02", in SE1/4 NW1/4 Sec 23, T.22N., R.6W., Tippecanoe County, at bridge on County Road 510 South, 1.2 miles west of State Highway 25 in Westpoint.	0	0.1	0.1	6.6
03335682	Indian Creek near Green Hill, IN	29.0	Lat 40°25'03", long 87°02'31", in SE1/4 SW1/4 SE1/4 Sec 24, T.23N., R.6W., Tippecanoe County, at bridge on South River Road, 6.5 miles west of West Lafayette, 0.2 mile west of County Road 700 West.	0	0	0.1	1.9
03335683	Kickapoo Creek near Attica, IN	36.4	Lat 40°19'27", long 87°14'05", in SE1/4 NW1/4 Sec 29, T.22N., R.7W., Warren County, at bridge on Kickapoo Road, 0.5 mile north of Independence Road.	2.5	2.6	2.8	5.9

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03335800	Big Shawnee Creek near Attica, IN	42.0	Lat 40°14'30", long 87°14'12", in SW1/4 NE1/4 NW1/4 Sec 29, T.21N., R.7W., Fountain County, at concrete bridge on County Road 3.7 miles southeast of Attica and State Highway 55 at Rob Roy.	6.1	6.4	7.2	19
03335950	Bear Creek at Fountain, IN	10.4	Lat 40°13'11", long 87°20'23", in SE1/4 Sec 32, T.21N., R.8W., Fountain County, on county road at the southwest edge of Fountain.	1.2	1.3	1.4	2.5
03339100	Coal Creek near Veedersburg, IN	77.6	Lat 40°08'33", long 87°15'00", on line between Secs 30 and 31, T.20N., R.7W., Fountain County, at bridge on County Road, 0.25 mile west of U.S. Highway 41, 2.2 miles northeast of Veedersburg.	3.9	4.1	4.8	23

312 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03339110	East Fork Coal Creek near Veedersburg, IN	60.1	Lat 40°05'48", long 87°14'34", in NW1/4 NW1/4 NW1/4 Sec 17, T.19N., R.7W., Fountain County at concrete bridge on relocated U.S. Highway 41, 1.5 miles southeast of Veedersburg, 0.5 mile south of intersection of U.S. Highways 41 and 136.	4.7	5.2	6.4	23
03339200	Sugar Creek near Kirclin, IN	41.4	Lat 40°12'29", long 86°22'03", SE1/4 NW1/4 Sec 1, T.20N., R.1E., Clinton County, at bridge on U.S. Highway 421, 1 mile north of Kirclin.	0.1	0.2	0.2	4.6
03339300	Prairie Creek at Thorntown, IN	46.9	Lat 40°07'46", long 86°36'01", SE1/4 SE1/4 Sec 35, T.20N., R.2W., Boone County, at bridge on State Highway 47, 0.5 mile east of junction of State Highways 47 and 375 at east edge of Thorntown.	1.5	1.7	2	7.9

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03339408	Little Potato Creek near Darlington, IN	31.8	Lat 40°09'48", long 86°45'08", on line between Secs 21 and 22, T.20N., R.3W., Montgomery County, on County Road 800 E, 150 feet north of intersection with County Road 850 N, 5 miles north-east of Darlington.	0	0	0	—
03339460	Walnut Fork Sugar Creek near Crawfordsville, IN	44.8	Lat 40°02'49", long 86°51'33", in SE1/4 NW1/4 Sec 34, T.19N., R.4W., Montgomery County, at bridge on State Highway 32, 2.5 miles east of Crawfordsville.	0.2	0.2	0.3	3.4
03340200	Sugar Mill Creek near Wallace, IN	39.5	Lat 39°58'03", long 87°10'28", in SW1/4 SW1/4 SE1/4 Sec 26, T.18N., R.7W., Fountain County at bridge on State Road 234, 1.4 miles west of State Road 341.	0.3	0.4	0.7	11

314 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03340651	Big Raccoon Creek near Ladoga, IN	46.4	Lat 39°54'32", long 86°47'58", in SE1/4 SE1/4 SW1/4 Sec 18, T.17N., R.3W., Montgomery County, at bridge on county road, 0.25 mile south of Ladoga, and 200 feet downstream from Monon RR.	0	0	0	7
03341420	Brouillettes Creek near Universal, IN	331	Lat 39°37'09", long 87°26'08", in SW1/4 NE1/4 Sec 32, T.14N., R.9W., Vermillion County, on downstream side of bridge on State Highway 63, 0.7 mile east of Universal.	1.1	1.3	1.9	21
03341580	Honey Creek near Terre Haute, IN	64.0	Lat 39°23'40", long 87°23'54", SW1/4 Sec 15, T.11N., R.9W., Vigo County, at bridge on U.S. Highway 41, at north edge of Allendale and about 3 miles south of the south city limits of Terre Haute.	0.2	0.3	0.5	3.6
03341800 (391650087295 300)	Prairie Creek near Prairie Creek, IN	22.4	Lat 39°16'50", long 87°29'53", NW1/4 SW1/4 Sec 26, T.10N., R.10W., Vigo County, at bridge on State Highway 63, 0.3 mile north of Prairie Creek.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03341920	Turman Creek near Farmersburg, IN	13.0	Lat 39°14'40", long 87°24'28", at corner of Secs 3, 4, 9, and 10, T.9N., R.9W., Sullivan County, at bridge on County Road 1100 North, 1.5 miles southeast of Farmersburg.	0	0	0	0
03342700	Maria Creek near Emison, IN	88.0	Lat 38°46'05", long 87°28'21", N1/2 Sec 24, T.4N., R.10W., Knox County, at bridge on U.S. Highway 41, 2.0 miles south of Emison.	0.3	0.5	0.6	6
03346700	White River near Harrisville, IN	21.3	Lat 40°10'32", long 84°53'23", NE1/4 NE1/4 Sec 19, T.20N., R.15E., Randolph County, at bridge on State Highway 32, 0.8 mile southwest of Harrisburg.	0.3	0.3	0.4	4.5
03346835	Stoney Creek at Windsor, IN	51.7	Lat 40°09'16", long 85°12'28", in NW1/4 SE1/4 Sec 29, T.20N., R.12E., Randolph County, at bridge on Windsor Pike just east of Windsor.	0.8	1	1.6	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03347595	Bell Creek near Yorktown, IN	44.7	Lat 40°08'43", long 85°27'03", in SW1/4 NE1/4 Sec 36, T.20N., R.9E., Delaware County at bridge on Bell Creek Road, 0.2 mile west of County Road 325 West.	1	1.1	1.4	11
03348100	Killbuck Creek near Anderson, IN	97.8	Lat 40°08'18", long 85°39'44", in SW1/4 Sec 31, T.20N., R.8E., Madison County, at bridge on State Road 109, 2.3 miles northeast of Anderson.	7.2	7.8	9	28
03348300	Pipe Creek near Alexandria, IN	44.8	Lat 40°16'40", long 85°38'34", on line between Secs 7 and 8, T.21N., R.8E., Madison County, at bridge on State Highway 28, 2 miles northeast of Alexandria.	1.4	1.6	2	9.2
03348400	Duck Creek at Strawtown, IN	98.9	Lat 40°08'17", long 85°56'22", on line between Secs 34 and 35, T.20N., R.5E., Hamilton County, at bridge on State Highway 213, 600 feet upstream from White River, 0.6 mile south of East 246th Street.	0.9	1.1	1.5	19

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03349200	Cicero Creek near Tipton, IN	80.2	Lat 40°16'16", long 86°03'02", SE1/4 NE1/4 Sec 15, T.21N., R.4E., Tipton County, 45 feet west of bridge on County Road 200 West, 0.5 mile west of State Highway 19, and County Home.	0.4	0.4	0.6	4.8
03351300	Crooked Creek at Augusta, IN	7.01	Lat 39°53'43", long 86°12'53", in NE1/4 NW1/4 Sec 29 T.17N., T.3E., Marion County, at bridge on U.S. Highway 421, 0.4 mile north of Augusta.	0	0	0	—
03351490	Lick Creek near Fortville, IN	36.6	Lat 39°57'22", long 85°50'36", on line between Secs 3 and 4, T.17N., R.6E., Madison County, at bridge on State Highway 13, 1.5 miles north of U.S. Highway 36 in Fortville.	1.1	1.3	1.8	20
03351900	Indian Creek near Oaklandon, IN	18.3	Lat 39°51'51", long 85°58'07", in SW1/4 NW1/4 Sec 3, T.16N., R.5E., Marion County, at bridge on Old Highway 67, 1 mile southwest of Oaklandon.	0	0	0	—

318 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03353631	Little Buck Creek near Southport, IN	8.28	Lat 39°39'55", long 86°06'06", on line between Secs 8 and 17, T.14N., R.4E., Marion County, at bridge on Southport Road, 0.5 mile east of Southport.	0	0	0	—
03353650	Pleasant Run at Greenwood, IN	4.93	Lat 39°37'53", long 86°06'58", in NW1/4 Sec 29, T.14N., R.4E., Johnson County, at bridge on State Highway 431, 0.5 mile north of Greenwood.	0	0	0	—
03353665	Stotts Creek near Martinsville, IN	60.1	Lat 39°30'02", long 86°19'57", NW1/4 NE1/4 Sec 8, T.12N., R.8E., Morgan County, at 220-foot concrete bridge on State Highway 37, 7.2 miles northeast of Martinsville and 250 feet from confluence with White River.	0.2	0.2	0.4	4.6

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03353670	White Lick Creek near Brownsburg, IN	28.7	Lat 39°51'56", long 86°23'42" on line between Secs 2 and 34, T.16N., R.1E., Hendricks County, at bridge on county highway, 0.5 mile north of Brownsburg.	0	0	0	—
03353900	East Fork White Lick Creek near Mooresville, IN	37.4	Lat 39°38'47", long 86°20'47", in SE1/4 Sec 18, T.134N., R.2E., Hendricks County, at bridge on Mooresville Road, 0.8 mile west of Friendswood, 3.0 miles northeast of Mooresville.	0.7	0.9	1.2	5.9
03354140	Lambs Creek near Martinsville, IN	31.0	Lat 39°25'26", long 86°28'01", in NE1/4 NW1/4 Sec 1, T.11N., R.1W., Morgan County, on county road parallel to and upstream from State Highway 67, 2.5 miles west of Martinsville and 0.5 mile northeast of intersection with Mosier Road.	0	0	0	2

320 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03354200	Indian Creek near Morgantown, IN	19.4	Lat 39°22'05", long 86°13'50", in NW1/4 Sec 29, T.11N., R.3E., Johnson County, at bridge on Highway 100 upstream from Barnes Creek, 1.6 miles east of Morgantown.	0	0	0	—
03357180	Fish Creek near Freedom, IN	49.4	Lat 39°12'45", long 86°53'48", in SW1/4 SE1/4 Sec 18, T.9N., R.4W., Owen County, at bridge on county road 2 miles west of Freedom, Ind.	0	0	0	—
03357300	Big Walnut Creek near Barnard, IN	119	Lat 39°49'51", long 86°41'15", in NW1/4 Sec 18, T.16N., R.2W., Hendricks County, at bridge on Putnam-Hendricks County line, 1.25 miles southeast of Barnard.	1.3	1.5	1.9	14

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03357385	Miller Creek near Fillmore, IN	11.0	Lat 39°42'52", long 86°45'04", in NW1/4 NE1/4 Sec 33, T.15N., R.3W., Putnam County, on county road 2 miles north of Fillmore, 0.1 mile east of Fillmore Road and 0.5 mile upstream from confluence with Clear Creek	0.1	0.1	0.1	0.7
03357400	Big Walnut Creek near Greencastle, IN	199	Lat 39°40'43", long 86°48'39", in SW1/4 Sec 1, T.14N., R.4W., at Pinhook Bridge, 0.5 mile upstream from Monon railroad bridge and 2.5 miles northeast of Greencastle.	0.9	1.2	1.5	18
03357700	Mud Creek near Little Point, IN	34.8	Lat 39°34'34", long 86°37'54", on line between Secs 9 and 10, T.13N., R.2W., Morgan County, at bridge on County Road 1100 West, 0.8 mile north of Little Point and 1.7 miles south of the Hendricks-Morgan County Line.	0.8	0.9	1.2	4.6

322 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03359980	Jordan Creek near Jordan, IN	25.9	Lat 39°24'09", long 86°55'33", in NW1/4 SE1/4 Sec 11., T.11N., R.4W., Owen County, at bridge on county road 0.9 mile east of Owen-Clay County line, and 0.5 mile northwest of Jordan.	0.4	0.5	0.8	4.4
03360050	Birch Creek near Ashboro, IN	40.0	Lat 39°24'14", long 87°06'41", in NE1/4 SE1/4 SE1/4 Sec 7, T.11N., R.6W., Clay County, at bridge on State Highway 59, 0.5 mile northwest of Ashboro.	0.5	0.6	0.9	4.5
03360076	Birch Creek near Old Hill, IN	71.3	Lat 39°19'36", long 87°10'47", in SE1/4 NE1/4 NW1/4 Sec 10, T.10N., R.7W., Clay County, at county road bridge and 0.7 mile from the mouth.	0.7	0.8	1.1	4.9
03360115	Lick Creek near Coal City, IN	47.0	Lat 39°10'48", long 86°59'47", in SW1/4 SW1/4 Sec 29, T.9N., R.5W., Owen County, on Owen County Road, 1.5 miles upstream from confluence with Beech Creek and 4.1 miles southeast of Coal City.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03360120	Connelly Ditch near Jasonville, IN	31.0	Lat 39°12'45", long 87°07'40", in NE1/4 NE1/4 NE1/4, Sec 24, T.9N., R.7W., Clay County, on Clay County Road 1.75 miles above mouth and 7.5 miles northeast of Jasonville.	0.2	0.2	0.3	—
03360200	Lattas Creek near Switz City, IN	32.7	Lat 39°02'40", long 87°02'38", in SW1/4 Sec 14, T.7N., R.6W., Greene County, at bridge on State Highway 67, 0.9 mile northeast of Switz City.	0	0	0	—
03360800	Prairie Creek near Washington, IN	120	Lat 38°43'01", long 87°10'00", in SW1/4 SW1/4 Sec 2, T.3N., R.7W., Daviess County, at bridge on State Highway 57, 4.0 miles north of Washington.	0	0	—	—
03360920	Big Blue River near New Castle, IN	15.8	Lat 40°00'15", long 85°20'48", on line between Secs 23 and 24, T.18N., R.10E., Henry County, 100 feet downstream from U.S. Highway 36 bridge, 5.5 miles north of New Castle.	2.2	2.3	2.9	8

324 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03360965 (395246085280 400)	Duck Creek at Greensboro, IN	24.9	Lat 39°52'46", long 85°28'03", in SW1/4 NE1/4 Sec 35, T.17N., R.9E., Henry County, at bridge on County Road 350 South at west side of Greensboro.	1.8	2	2.7	9
03361400	Little Blue River near Rays Crossing, IN	97.0	Lat 39°33'16", long 85°43'08", on line between Secs 23 and 26, T.13N., R.7E., Shelby County, at bridge on County Highway, 2.8 miles west of Rays Crossing.	0.6	0.8	1	—
03361600	Brandywine Creek near Maxwell, IN	24.3	Lat 39°51'30", long 85°44'17", on line between Secs 3 and 10, T.16N., R.7E., Hancock County, at county highway bridge 1.6 miles east of Maxwell.	0	0	0.1	2
03361700	Sugar Creek near Pleasant View, IN	130	Lat 39°38'49", long 85°55'09", in E1/2 Sec 24, T.14N., R.5E., Shelby County, tributary to Drift- wood River south of I-74 bridge, 1.75 miles southeast of Pleasant View.	5.4	5.9	6.9	30

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03361800	Buck Creek near New Bethel, IN	51.0	Lat 39°43'34", long 85°58'21", on line between Secs 21 and 28, T.15N., R.5E., Marion County, at bridge on East Troy Avenue 2.4 miles northeast of New Bethel.	0.1	0.1	0.2	10
03361900	Hurricane Creek near Franklin, IN	14.0	Lat 39°29'53", long 86°01'34", on line between Secs 7 and 12, T.12N., R.5E., Johnson County, 400 East Road at bridge 1.0 mile north- east of Franklin.	0	0	0	—
03363200	Flatrock River near Lewisville, IN	47.8	Lat 39°48'24", long 85°21'29", NW1/4 SE1/4 Sec 25, T.16N., R.10E., Henry County, at bridge on U.S. Highway 40 at Lewisville.	2.3	2.6	3.1	14
03363400	Flatrock River near Rushville, IN	167	Lat 39°36'15", long 85°26'39", NW1/4 SW1/4 Sec 5, T.13N., R.10E., Rush County, at bridge on U.S. Highway 52, 0.3 mile south of court house in Rushville.	4.2	4.8	5.8	24

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03363450	Little Flatrock River at Milroy, IN	34.8	Lat 39°29'49", long 85°28'24", in NW1/4 NE1/4 NW1/4 Sec 13, T.21N., R.9E., Rush County, at bridge on State Highway 244, 800 feet east of State Highway 3 at the west edge of Milroy.	0	0	0	2.3
03364711	Little Sand Creek near Elizabethtown, IN	43.1	Lat 39°07'44", long 85°51'21", in NE1/4 NE1/4 Sec.21, T.8N., R.6E., Bartholomew County, at bridge on county road, 1.1 miles west of U.S. Highway 31, and 2.5 miles west of Elizabethtown.	0	0	0.1	1
03364800	Sand Creek near Greensburg, IN	91.6	Lat 39°20'55", long 85°26'51", NE1/4 Sec 6, T.10N., R.10E., Decatur County, at county highway bridge 2.5 miles northeast of Greensburg.	0	0	0	—
03365600	White Creek near Cortland, IN	96.2	Lat 38°58'46", long 86°00'58", on line between Secs 6 and 7, T.6N., R.5E., Jackson County, at bridge on State Highway 258, 3 miles west of Cortland.	0	0	0	0.9

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03366300	Big Creek near Volga, IN	96.9	Lat 38°46'47", long 85°32'57", NE1/4 NW1/4 Sec 20, T.4N., R.9E., Jefferson County, at county highway bridge, 1.7 miles west of Volga.	0	0	0.1	1.4
033673005	Stucker Fork at Scottsburg, IN	76.2	Lat 38°41'41", long 85°45'24", on line between Secs 16 and 17, T.3N., R.7E., Scott County, at county highway bridge, 0.6 mile north of State Highway 56, 1 mile east of Scottsburg.	0	0	—	—
0336940050	Otter Creek near Vernon, IN (formerly called South Fork Vernon Fork)	70.7	Lat 38°59'20", long 85°34'32", in SE1/4 Sec 1, T.6N., R.8E., Jen- nings County, 500 feet below bridge on county road, 2 miles east of Vernon Bridge known as Hinchman's Ford Bridge.	0	0	0	1.3
03371525	Guthrie Creek near Tunnelton, IN	68.9	Lat 38°47'22", long 86°21'33", SW1/4 SE1/4 SW1/4, Sec 12, T.4N., R.11E., 100 feet below county road bridge, 0.8 mile north of intersection with road from Buddha to Tunnelton, 1.1 miles northwest of Tunnelton.	0	0	0	1.2

328 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
03371530	Leatherwood Creek at Bedford, IN	37.6	Lat 38°50'23", long 86°28'38", SE1/4 SW1/4 NW1/4 Sec. 25, T.5N., R.1W., Lawrence County at bridge on county road, 1.6 miles southeast from court house in Bedford.	0.1	0.1	0.1	1.4
03371550	Middle Fork Salt Creek at Story, IN	38.3	Lat 39°05'37", long 86°12'30", in SE1/4 SE1/4 Sec 9, T.8N., R.3E., Brown County, Ohio River Basin at Bridge on State Highway 135, 0.5 mile southeast of Story.	0	0	0	—
03373600	Lick Creek near Paoli, IN	18.9	Lat 38°32'42", long 86°26'56", SW1/4 Sec 6, T.1N., R.1E., Orange County, at bridge on county road, 1.3 miles southeast of Paoli.	0.3	0.3	0.4	—
04093900	Coffee Creek at Chesterton, IN	15.0	Lat 41°36'24", long 87°03'03", on line between Secs 1 and 36, T.37N., R.6W., Porter County, at bridge on Porter Avenue, 0.5 mile east of intersection with Calumet Road (Old State Highway 49), in Chesterton.	4.7	5	5.4	12

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
04099070	Pigeon Creek near Hamilton, IN	43.3	Lat 41°36'16", long 84°56'32", in NW1/4 SW1/4 SE1/4 Sec 5, T.36N., R.14E., 3.3 miles southeast of Angola, then south 1.5 miles to a "y" road, then northeast 0.3 mile to bridge.	1.9	2	2.3	12
04099692	Rowe Ditch near Howe, IN	7.52	Lat 41°42'32", long 85°26'18", in NE1/4 SE1/4 Sec 5, T.38N., R.9E., Lagrange County, at pipe culvert on County Road 450 North, 9 miles south of intersection with Highway 120, 1.9 miles southwest of Howe.	1.9	2	2.4	5.2
04099805	Little Elkhart River near Middlebury, IN	60.6	Lat 41°39'15", long 85°40'14", on line between Secs 13 and 24, T.37N., R.7E., Elkhart County, at bridge on U.S. Highway 20, 2.2 miles southeast of Middlebury.	14	15	16	26
04100490	Turkey Creek near New Paris, IN	169	Lat 41°30'01", long 85°50'32", in SW1/4 Sec 9, T.35N., R.6E., Elkhart County, at county highway bridge, 0.4 mile west of New Paris.	22	24	27	76

330 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
04100800	Yellow Creek at Dunlap, IN	32.4	Lat 41°38'44", long 85°56'00", in NE1/4 NE1/4 NE1/4 Sec 22, T.37N., R.5E., Elkhart County, at bridge on U.S. Highway 33 at north-west edge of Dunlap.	2.2	2.4	2.8	7.4
04177800	Fish Creek near Artic, IN	95.8	Lat 41°29'13", long 84°50'13", SE1/4 SE1/4 Sec 18, T.35N., R.15E., De Kalb County Road No. 12 bridge, 1.7 miles northwest of Artic, and 1.9 miles east of Jerusalem School.	1.9	2.4	3.3	19
04177900	Big Run at Butler, IN	16.7	Lat 41°26'09", long 84°52'08", SW1/4 NW1/4 Sec 1, T.34N., R.14E., De Kalb County at bridge on State Highway 1, 0.6 mile due north of intersection of U.S. Highway 6, and State Highway 1, north of Butler.	0.8	0.8	1	3

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
04178400	Bear Creek near Saint Joe, IN	23.9	Lat 41°18'58", long 84°53'32", in SE1/4 SE1/4 Sec 15, T.33N., R.14E., De Kalb County, at bridge on State Highway 1, 0.1 mile north of B & O Railroad and 0.4 mile east of Saint Joe.	0.9	1.1	1.4	4.5
04178500	St. Joseph River at Hursh, IN	734	Lat 41°14'47", long 84°58'23", in Sec 12, T.32N., R.13E., Allen County, near center of span on downstream side of Hubstown bridge at Hursh, and 5.5 miles upstream from Cedar Creek.	33	35	42	168
04179308	Dibbling Ditch near Waterloo, IN	12.9	Lat 41°27'03", long 85°02'25", in NW1/4 NW1/4 Sec 33, T.35N., R.13E., De Kalb County, at bridge on County Road 22, 0.8 mile west of County Road 35, 1.6 miles northwest of Waterloo.	0.5	0.6	0.6	2.9
04179310	Cedar Creek at Waterloo, IN	48.8	Lat 41°26'14", long 85°01'03", NW1/4 Sec 3, T.34N., R.13E., De Kalb County, at bridge on U.S. Highway 427, 2.3 miles northeast of Waterloo.	1.6	1.8	2.2	11

332 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
04179800	Little Cedar Creek near Garrett, IN	72.3	Lat 41°16'08", long 85°08'07", on line between Secs 33 and 34, T.33N., R.12E., De Kalb County, at bridge on U.S. Highway 27, 0.25 mile north of Allen-De Kalb County line.	3.4	3.7	4.2	15
04179900	Willow Creek near Huntertown, IN	19.0	Lat 41°14'37", long 85°10'03", in SE1/4 NW1/4 Sec 8, T.32N., R.12E., Allen County, at bridge on State Highway 3, about 300 feet north of Shoaf Road, 2.1 miles north of Huntertown.	0.2	0.2	0.3	4.2
04181100	Blue Creek near Pleasant Mills, IN	78.5	Lat 40°44'49", long 84°49'20", in NE1/4 NE1/4 Sec 4, T.26N., R.5E., Adams County, at bridge on State Highway 124, 1.5 miles west of Willshire, Ohio, and 2.2 miles southeast of Pleasant Mills.	0.4	0.6	0.9	4.7
04181600	Holthouse Ditch near Decatur, IN	34.0	Lat 40°50'48", long 84°56'44", in the NE1/4 NW1/4 NE1/4 Sec 32, T.28N., R.14E., Adams County, at Winchester Road bridge, 0.4 mile upstream from mouth, and 0.5 mile northwest of Decatur.	0	0	0	—

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
04181800	Nickelsen Creek near Poe, IN	25.6	Lat 40°55'36", long 85°03'57", in SE1/4 NW1/4 Sec 33, T.29N., R.13E., Allen County, at bridge on Winchester Road, 1.0 mile southeast of Poe.	0	0	0	—
04181900	Houk Ditch near Hessen Cassel, IN	16.3	Lat 40°59'27", long 85°05'32", SW1/4 SW1/4 Sec 5, T.29N., R.13E., Allen County, at U.S. Highway 27-33 bridge, 0.4 mile upstream from mouth, 1.2 miles northwest of Hessen Cassel, and 7 miles southeast of Fort Wayne.	0	0	0	—
04191340	Flatrock Creek near Townley, IN	47.1	Lat 41°00'51", long 84°51'06", in NW1/4 SE1/4 Sec 32, T.30N., R.15E., Allen County, at U.S. Highway 30 bridge crossing, 0.6 mile east of State Highway, 1.2 miles southeast of Townley.	0	0	0.1	1
04191360	Hoffman Creek at Townley, IN	41.7	Lat 41°01'16", long 84°52'16", in NE1/4 Sec 31, T.30N., R.15E., Allen County, at bridge on U.S. Highway 30, at Townley.	0	0	0	—

334 Low-flow Characteristics for Selected Streams in Indiana

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
05515100	Little Kankakee River near Mill Creek, IN	33.8	Lat 41°34'15", long 86°34'27"m Sec 18, T.36N., R.2W., LaPorte County, at bridge on State Highway 24, 2.5 miles west of Mill Creek.	22	24	26	45
05515499	Whitham Ditch near Hanna, IN	43.0	Lat 41°25'08", long 86°42'27", LaPorte County, at bridge on County Road 1300, 1.25 miles south of State Road 39, 4 miles east of Hanna, and 0.5 mile east of 100 West and 1300 South intersection.	21	22	24	46
05516300	Dausman Ditch near Bremen, IN	53.4	Lat 41°22'58", long 86°07'02", on line between Sec 19 T.34N., R.4E., and Sec 24 T.34N., R.3E., Marshall County, at bridge on State Highway 331, 4.5 miles south of Bremen.	1.9	2.1	2.6	13
05516650	Wolf Creek near Argos, IN	31.1	Lat 41°15'40", long 86°18'32", on line between Sec 32 and 33, T.33N., R.2E., Marshall County, at bridge on South Muckshaw Road, 1.6 miles north of Highway 31 in Argos.	4.5	4.8	5.5	13

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued

[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
05516950	Eagle Creek near Grovertown, IN	31.9	Lat 41°18'44", long 86°31'27", in NE1/4 SE1/4 NE1/4 Sec 16, T.33N., R.1W., Starke County, at bridge on State Highway 23, 5.2 miles south of U.S. Highway 30 out of Grovertown.	5.8	6.4	7.6	22
05517550	Reeves Ditch near La Crosse, IN	44.1	Lat 41°19'03", long 86°55'49", on line between Secs 12 and 13, T.33N., R.5W., Porter-LaPorte County line, at bridge on State Highway 8, 2.0 miles west of La Crosse.	5.9	6.4	7.9	41
05517750 (411720087000500)	Crooked Creek near Kouts, IN	69.9	Lat 41°17'20", long 87°00'05", on line between Secs 21 and 28, T.33N., R.5W., Porter County, at bridge on County Road 1000 South, 0.55 mile east of intersection with County Road 75 East, 2.3 miles southeast of Kouts.	24	26	27	53

Table 2. Low-flow characteristics for partial-record streamgaging stations in Indiana.—Continued[mi², square miles; IN, Indiana; Lat, latitude; °, degrees; ', minutes; ", seconds; long, longitude; Sec, Section; T, Township; R, Range; N, North; E, East; S, South; W, West; —, no correlation]

Station number	Station name	Drainage area (mi ²)	Location	Flow characteristic, in cubic feet per second			
				1Q10	7Q10	30Q10	Harmonic mean
05517880	Wolf Creek near Kouts, IN	13.8	Lat 41°21'44", long 87°04'59", in SW1/4 SW1/4 Sec 26, T.34N., R.6W., Porter County, at corrugated metal-pipe culvert on County Road 100 West, 1.1 miles north of intersection with 600 South, 4.1 miles northwest of Kouts.	2.9	3.1	3.4	6.9
05518500	Singleton Ditch near Hebron, IN	34.2	Lat 41°17'00", long 87°15'00", on line between Secs 20 and 29, T.33N., R.7W., Lake County, at State Highway 2 bridge, 3.2 miles southwest of Hebron.	2.3	2.5	2.8	8.7
05525650	Beaver Creek near Morocco, IN	41.0	Lat 40°57'57", long 87°27'00", in NW1/4 SW1/4 NW1/4 Sec 15, T.29N., R.9W., at bridge over Beaver Creek on U.S. 41, Newton County, about 1.4 miles north of Morocco.	0.9	1	1.4	7

Index by station name

03371520	BACK CREEK AT LEESVILLE, IN	204
03353180	BEAN CREEK AT INDIANAPOLIS, IN	147
03354500	BEANBLOSSOM CREEK AT BEANBLOSSOM, IN	168
03356000	BEANBLOSSOM CREEK AT DOLAN, IN.....	170
03355000	BEAR CREEK NEAR TREVLAC, IN.....	169
03373508	BEAVER CREEK NEAR SHOALS, IN	213
05523000	BICE DITCH NEAR SOUTH MARION, IN.....	282
03361000	BIG BLUE RIVER AT CARTHAGE, IN.....	180
03361500	BIG BLUE RIVER AT SHELBYVILLE, IN.....	181
03378550	BIG CREEK NEAR WADESVILLE, IN	229
03326070	BIG LICK CREEK NEAR HARTFORD CITY, IN.....	53
03332400	BIG MONON CREEK NEAR FRANCESVILLE, IN	73
03335700	BIG PINE CR NR WILLIAMSPORT IN.....	94
03341300	BIG RACCOON CREEK AT COXVILLE, IN	107
03341000	BIG RACCOON CREEK AT MANSFIELD, IN.....	105
03340900	BIG RACCOON CREEK NEAR FERNDALE, IN.....	104
03340800	BIG RACCOON CREEK NEAR FINCASTLE IN.....	103
03357500	BIG WALNUT CREEK NEAR REELSVILLE, IN.....	174
03357330	BIG WALNUT CREEK NEAR ROACHDALE, IN	172
03302800	BLUE RIVER AT FREDERICKSBURG, IN	34
03303000	BLUE RIVER NEAR WHITE CLOUD, IN.....	36
03368000	BRUSH CREEK NEAR NEBRASKA, IN.....	200
03361850	BUCK CREEK AT ACTON, IN	184
03347500	BUCK CREEK NEAR MUNCIE, IN.....	117
03302220	BUCK CREEK NEAR NEW MIDDLETOWN, IN	30
03342300	BUSSERON CR NR SULLIVAN IN	113
03342500	BUSSERON CREEK NEAR CARLISLE, IN.....	114
03342100	BUSSERON CREEK NEAR HYMERA, IN.....	110
05524000	CARPENTER CREEK AT EGYPT, IN.....	284
04179520	CEDAR CREEK AT 18TH STREET AT AUBURN, IN.....	256
04179500	CEDAR CREEK AT AUBURN, IN	255
04180000	CEDAR CREEK NEAR CEDARVILLE, IN	257
03349510	CICERO CREEK AT ARCADIA, IN.....	126
03350500	CICERO CREEK AT NOBLESVILLE, IN.....	129
03349210	CICERO CREEK AT TIPTON, IN	124
03349500	CICERO CREEK NEAR ARCADIA, IN.....	125
03372700	CLEAR CREEK NEAR HARRODSBURG, IN.....	210
03364500	CLIFTY CREEK AT HARTSVILLE, IN.....	193
03364650	CLIFTY CREEK NEAR COLUMBUS, IN.....	194
03339120	COAL CREEK AT COAL CREEK, IN.....	97
05517890	COBB DITCH NEAR KOUTS, IN.....	275
03351310	CROOKED CREEK AT INDIANAPOLIS, IN.....	136

03303400	CROOKED CREEK NEAR SANTA CLAUS, IN	38
04093000	DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN.....	230
03329700	DEER CREEK NEAR DELPHI, IN.....	66
03359500	DEER CREEK NEAR PUTNAMVILLE, IN	177
03353635	DERBYSHIRE CREEK AT SOUTHPORT, IN	158
03363000	DRIFTWOOD RIVER NEAR EDINBURGH IN	187
03353460	EAGLE CREEK AT CLERMONT, IN	149
03353500	EAGLE CREEK AT INDIANAPOLIS, IN.....	150
03353200	EAGLE CREEK AT ZIONSVILLE, IN.....	148
03339108	EAST FORK COAL CREEK NEAR HILLSBORO, IN	96
03353885	EAST FORK WHITE LICK CREEK AT BRIDGEPORT, IN.....	164
03353890	EAST FORK WHITE LICK CREEK NEAR CAMBY, IN	165
03353910	EAST FORK WHITE LICK CREEK NEAR MOORESVILLE, IN	166
03364000	EAST FORK WHITE RIVER AT COLUMBUS, IN	190
03365500	EAST FORK WHITE RIVER AT SEYMOUR IN	196
03373500	EAST FORK WHITE RIVER AT SHOALS, IN	212
03371500	EAST FORK WHITE RIVER NEAR BEDFORD, IN	203
03275600	EAST FORK WHITEWATER RIVER AT ABINGTON, IN.....	23
03276000	EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN	24
03275500	EAST FORK WHITEWATER RIVER AT RICHMOND, IN	22
03360000	EEL RIVER AT BOWLING GREEN, IN	178
03328000	EEL RIVER AT NORTH MANCHESTER, IN	60
03328500	EEL RIVER NEAR LOGANSPORT, IN	62
04100500	ELKHART RIVER AT GOSHEN, IN.....	249
033356725	ELLIOTT DITCH NEAR ELSTON, IN.....	87
03335671	ELLIOTT DITCH NEAR LAFAYETTE, IN	86
03353583	FALCON CREEK 30TH ST. AT INDIANAPOLIS, IN.....	153
03352875	FALL CREEK AT 16TH STREET AT INDIANAPOLIS, IN.....	141
03352500	FALL CREEK AT MILLERSVILLE, IN.....	140
03351500	FALL CREEK NEAR FORTVILLE, IN.....	138
04177720	FISH CREEK AT HAMILTON, IN.....	252
03376260	FLAT CREEK NEAR OTWELL, IN	224
03363900	FLATROCK RIVER AT COLUMBUS, IN	189
03363500	FLATROCK RIVER AT ST. PAUL, IN.....	188
04100252	FORKER CREEK NEAR BURR OAK, IN.....	245
03373686	FRENCH LICK CREEK AT FRENCH LICK, IN	217
03373695	FRENCH LICK CREEK AT WEST BADEN SPRINGS, IN	218
04096100	GALENA RIVER NEAR LAPORTE, IN	237
03366000	GRAHAM CREEK NEAR VERNON, IN.....	197
05536357	GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN	289
03353560	GUION CREEK ABOVE 52ND ST. AT INDIANAPOLIS, IN	152
03375800	HALL CREEK NEAR ST. ANTHONY, IN.....	223
04182590	HARBER DITCH AT FORT WAYNE, IN	261
03366200	HARBERTS CREEK NEAR MADISON, IN.....	198
05536179	HART DITCH AT DYER, IN	286

05536190	HART DITCH AT MUNSTER, IN	287
03364042	HAW CREEK AT HOPE, IN	191
03364200	HAW CREEK NEAR CLIFFORD, IN	192
03350100	HINKLE CREEK NEAR CICERO, IN	128
03302500	INDIAN CREEK NEAR CORYDON, IN	32
03335678	INDIAN CREEK NEAR MONTMORENCI, IN	90
03373200	INDIAN CREEK NEAR SPRINGVILLE, IN	211
03291780	INDIAN-KENTUCK CREEK NR CANAAN, IN	28
05522500	IROQUOIS RIVER AT RENSSELAER, IN	281
05521000	IROQUOIS RIVER AT ROSEBUD, IN	279
05524500	IROQUOIS RIVER NEAR FORESMAN, IN	285
05522000	IROQUOIS RIVER NEAR NORTH MARION, IN	280
04101370	JUDY CREEK NEAR SOUTH BEND, IN	251
05515500	KANKAKEE RIVER AT DAVIS, IN	269
05517500	KANKAKEE RIVER AT DUNNS BRIDGE, IN	273
05518000	KANKAKEE RIVER AT SHELBY, IN	276
05515000	KANKAKEE RIVER NEAR NORTH LIBERTY, IN	267
05517530	KANKAKEE RIVER NR KOUTS, IN	274
03348020	KILLBUCK CREEK NEAR GASTON, IN	119
05515400	KINGSBURY CREEK NR LAPORTE, IN	268
03333600	KOKOMO CREEK NEAR KOKOMO, IN	80
03277000	LAUGHERY CREEK NEAR FARMERS RETREAT, IN	27
03361638	LEARY-WEBER DITCH AT MOHAWK, IN	182
03353620	LICK CREEK AT INDIANAPOLIS, IN	156
03373610	LICK CREEK AT PAOLI, IN	216
04097970	LIME LAKE OUTLET AT PANAMA, IN	238
03353636	LITTLE BUCK CREEK AT SOUTHPORT, IN	159
03353637	LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN	160
03353630	LITTLE BUCK CREEK NEAR SOUTHPORT, IN	157
05536195	LITTLE CALUMET RIVER AT MUNSTER, IN	288
04094000	LITTLE CALUMET RIVER AT PORTER, IN	231
03349700	LITTLE CICERO CREEK NEAR ARCADIA, IN	127
03353551	LITTLE EAGLE CREEK AT 52ND ST. AT INDIANAPOLIS	151
03353600	LITTLE EAGLE CREEK AT SPEEDWAY, IN	154
04099808	LITTLE ELKHART RIVER AT MIDDLEBURY, IN	242
03302300	LITTLE INDIAN CREEK NEAR GALENA, IN	31
03332300	LITTLE INDIAN CREEK NEAR ROYAL CENTER, IN	72
03325311	LITTLE MISSISSINAWA RIVER AT UNION CITY, IN	50
03335679	LITTLE PINE CREEK AT GREEN HILL, IN	92
033356786	LITTLE PINE CREEK NEAR MONTMORENCI, IN	91
03341200	LITTLE RACCOON CREEK NEAR CATLIN, IN	106
03324000	LITTLE RIVER NEAR HUNTINGTON, IN	45
03339150	LITTLE VERMILLION RIVER NEAR NEWPORT, IN	98
03335673	LITTLE WEA CREEK AT SOUTH RAUB, IN	88
03274950	LITTLE WILLIAMS CREEK AT CONNERSVILLE, IN	20

03373530	LOST RIVER NEAR LEIPSI, IN	214
03373560	LOST RIVER NEAR PROSPECT, IN	215
03373700	LOST RIVER NR. WEST BADEN SPRINGS, IN	219
03335677	MARSHALL DITCH NEAR MONTMORENCI, IN	89
04182950	MAUMEE RIVER AT COLISEUM BLVD AT FORT WAYNE, IN	265
04183000	MAUMEE RIVER AT NEW HAVEN, IN	266
03303300	MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN	37
03358000	MILL CREEK NEAR CATARACT, IN	175
03359000	MILL CREEK NEAR MANHATTAN, IN	176
03326500	MISSISSINewa RIVER AT MARION, IN	54
03327000	MISSISSINewa RIVER AT PEORIA, IN	55
03326000	MISSISSINewa RIVER NEAR EATON, IN	52
03325500	MISSISSINewa RIVER NEAR RIDGEVILLE, IN	51
03342250	MUD CR NR DUGGER IN	112
03352200	MUD CREEK AT INDIANAPOLIS, IN	139
03335690	MUD PINE CREEK NEAR OXFORD, IN	93
03366500	MUSCATATUCK RIVER NEAR DEPUTY, IN	199
04100222	NB ELKHART RIVER AT COSPERVILLE, IN	244
03371650	NORTH FORK SALT CREEK AT NASHVILLE, IN	206
03372000	NORTH FORK SALT CREEK NEAR BELMONT, IN	207
03375500	PATOKA RIVER AT JASPER, IN	222
03376300	PATOKA RIVER AT WINSLOW, IN	225
03374455	PATOKA RIVER NEAR HARDINSBURG, IN	221
03376500	PATOKA RIVER NEAR PRINCETON, IN	227
03322011	PIGEON CREEK NEAR FORT BRANCH	39
04099510	PIGEON CREEK NR ANGOLA, IN	239
04099750	PIGEON RIVER NEAR SCOTT, IN	241
04099850	PINE CREEK NEAR ELKHART, IN	243
03348350	PIPE CREEK AT FRANKTON, IN	121
03327520	PIPE CREEK NEAR BUNKER HILL, IN	59
03353120	PLEASANT RN AT ARLINGTON AVE AT INPLS, IN	145
03353160	PLEASANT RN AT BROOKVILLE RD AT INPLS, IN	146
03357350	PLUM CREEK NEAR BAINBRIDGE, IN	173
03352988	POGUES RUN AT VERMONT STREET AT INDIANAPOLIS, IN	143
04095090	PORTAGE-BURNS WATERWAY AT PORTAGE, IN	234
03339280	PRAIRIE CREEK NEAR LEBANON, IN	99
03327503	PRAIRIE DITCH AT PERU, IN	57
03327507	PRAIRIE DITCH NEAR PERU, IN	58
04099610	PRETTY LAKE INLET NEAR STROH, IN	240
03329400	RATTLESNAKE CREEK NEAR PATTON, IN	64
04100295	RIMMELL BRANCH NEAR ALBION, IN	246
03324500	SALAMONIE RIVER AT DORA, IN	48
03324200	SALAMONIE RIVER AT PORTLAND, IN	46
03324300	SALAMONIE RIVER NEAR WARREN, IN	47
04094400	SALT CREEK AT VALPARAISO, IN	232

03372500	SALT CREEK NEAR HARRODSBURG IN	209
04094500	SALT CREEK NEAR MCCOOL, IN	233
03365000	SAND CREEK NEAR BREWERSVILLE, IN	195
03294000	SILVER CREEK NEAR SELLERSBURG, IN	29
05519000	SINGLETON DITCH AT SCHNEIDER, IN.....	277
05523500	SLOUGH CREEK NEAR COLLEGEVILLE, IN.....	283
04100377	SOLOMON CREEK NEAR SYRACUSE, IN	247
03376350	SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN	226
03371600	SOUTH FORK SALT CREEK AT KURTZ, IN	205
03334500	SOUTH FORK WILDCAT CREEK NEAR LAFAYETTE, IN.....	83
03276700	SOUTH HOGAN CREEK NEAR DILLSBORO, IN.....	26
04182810	SPY RUN CREEK AT FORT WAYNE, IN.....	264
04182808	SPY RUN CREEK NEAR PARK DRIVE AT FORT WAYNE, IN	263
04178000	ST JOSEPH R NR NEWVILLE IN	253
04179000	ST. JOSEPH RIVER AT CEDARVILLE, IN.....	254
04101000	ST. JOSEPH RIVER AT ELKHART, IN.....	250
04180500	ST. JOSEPH RIVER NEAR FORT WAYNE, IN	258
04181500	ST. MARYS RIVER AT DECATUR, IN	259
04182769	ST. MARYS RIVER AT MAIN ST. AT FORT WAYNE, IN	262
04182000	ST. MARYS RIVER NEAR FORT WAYNE, IN	260
03372300	STEPHENS CREEK NEAR BLOOMINGTON, IN.....	208
03350655	STONY CREEK AT FISHERSBURG, IN	130
03350700	STONY CREEK NEAR NOBLESVILLE, IN.....	132
03339500	SUGAR CREEK AT CRAWFORDSVILLE, IN	100
03361650	SUGAR CREEK AT NEW PALESTINE, IN.....	183
03340000	SUGAR CREEK NEAR BYRON, IN	101
03362500	SUGAR CREEK NEAR EDINBURGH, IN.....	186
03351400	SUGAR CREEK NEAR MIDDLETOWN, IN.....	137
03330241	TIPPECANOE RIVER AT NORTH WEBSTER, IN.....	67
03332555	TIPPECANOE RIVER AT NORWAY, IN	75
03330500	TIPPECANOE RIVER AT OSWEGO, IN.....	68
03331753	TIPPECANOE RIVER AT WINAMAC, IN.....	71
03332605	TIPPECANOE RIVER BELOW OAKDALE DAM, IN.....	76
03333050	TIPPECANOE RIVER NEAR DELPHI, IN	77
03332500	TIPPECANOE RIVER NEAR MONTICELLO, IN	74
03331500	TIPPECANOE RIVER NEAR ORA, IN.....	70
04095380	TRAIL CREEK AT MICHIGAN CITY HARBOR, IN.....	236
04095300	TRAIL CREEK AT MICHIGAN CITY, IN	235
04100465	TURKEY CREEK AT SYRACUSE, IN	248
03369500	VERNON FORK MUSCATATUCK RIVER AT VERNON, IN.....	202
03369000	VERNON FORK MUSCATATUCK RIVER NR BUTLERVILLE, IN	201
03323000	WABASH RIVER AT BLUFFTON, IN.....	43
03336000	WABASH RIVER AT COVINGTON, IN.....	95
03329500	WABASH RIVER AT DELPHI, IN.....	65
03323500	WABASH RIVER AT HUNTINGTON IN.....	44

03335500	WABASH RIVER AT LAFAYETTE IN	85
03322900	WABASH RIVER AT LINN GROVE, IN	41
03329000	WABASH RIVER AT LOGANSPOUT, IN	63
03340500	WABASH RIVER AT MONTEZUMA, IN	102
03377500	WABASH RIVER AT MT. CARMEL, IL	228
03327500	WABASH RIVER AT PERU, IN	56
03342000	WABASH RIVER AT RIVERTON IN	109
03341500	WABASH RIVER AT TERRE HAUTE, IN	108
03343000	WABASH RIVER AT VINCENNES, IN	115
03325000	WABASH RIVER AT WABASH, IN	49
03322985	WABASH RIVER NEAR BLUFFTON, IN	42
03322500	WABASH RIVER NEAR NEW CORYDON, IN	40
03331110	WALNUT CREEK NEAR WARSAW, IN	69
03328430	WEESAU CREEK NEAR DEEDSVILLE, IN	61
05519500	WEST CREEK NEAR SCHNEIDER, IN	278
03302680	WEST FORK BLUE RIVER AT SALEM, IN	33
03342150	WEST FORK BUSSERON CREEK NEAR HYMERA, IN	111
03353700	WEST FORK WHITE LICK CREEK AT DANVILLE, IN	162
03302849	WHISKEY RUN AT MARENGO, IN	35
03353800	WHITE LICK CREEK AT MOORESVILLE, IN	163
03353611	WHITE R. AT STOUT GEN. STN. AT INDIANAPOLIS, IN	155
03350800	WHITE RIVER AT 146TH ST NEAR NOBLESVILLE, IN	133
03348000	WHITE RIVER AT ANDERSON, IN	118
03353000	WHITE RIVER AT INDIANAPOLIS, IN	144
03352953	WHITE RIVER AT MICHIGAN STREET AT INDIANAPOLIS, IN	142
03347000	WHITE RIVER AT MUNCIE, IN	116
03360500	WHITE RIVER AT NEWBERRY, IN	179
03349000	WHITE RIVER AT NOBLESVILLE, IN	123
03374000	WHITE RIVER AT PETERSBURG, IN	220
03348130	WHITE RIVER AT RAIBLE AVENUE AT ANDERSON, IN	120
03357000	WHITE RIVER AT SPENCER, IN	171
03353660	WHITE RIVER AT WAVERLY, IN	161
03354000	WHITE RIVER NEAR CENTERTON, IN	167
03348500	WHITE RIVER NEAR NOBLESVILLE IN	122
03351000	WHITE RIVER NEAR NORA, IN	134
03276500	WHITewater RIVER AT BROOKVILLE, IN	25
03275000	WHITewater RIVER NEAR ALPINE, IN	21
03274650	WHITewater RIVER NEAR ECONOMY, IN	18
03274750	WHITewater RIVER NEAR HAGERSTOWN, IN	19
03333500	WILDCAT CREEK AT GREENTOWN, IN	79
03333700	WILDCAT CREEK AT KOKOMO, IN	81
03334000	WILDCAT CREEK AT OWASCO, IN	82
03333450	WILDCAT CREEK NEAR JEROME, IN	78
03335000	WILDCAT CREEK NEAR LAFAYETTE, IN	84
03350660	WILLIAM LOCK DITCH NEAR DURBIN, IN	131

03351072	WILLIAMS CREEK AT 96TH STREET, INDIANAPOLIS, IN.....	135
05517000	YELLOW RIVER AT KNOX, IN.....	272
05516500	YELLOW RIVER AT PLYMOUTH, IN.....	271
05516000	YELLOW RIVER NEAR BREMEN, IN	270
03362000	YOUNGS CREEK NEAR EDINBURGH IN	185

Index by station number

03274650	WHITEWATER RIVER NEAR ECONOMY, IN	18
03274750	WHITEWATER RIVER NEAR HAGERSTOWN, IN.....	19
03274950	LITTLE WILLIAMS CREEK AT CONNERSVILLE, IN.....	20
03275000	WHITEWATER RIVER NEAR ALPINE, IN	21
03275500	EAST FORK WHITEWATER RIVER AT RICHMOND, IN	22
03275600	EAST FORK WHITEWATER RIVER AT ABINGTON, IN	23
03276000	EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN	24
03276500	WHITEWATER RIVER AT BROOKVILLE, IN.....	25
03276700	SOUTH HOGAN CREEK NEAR DILLSBORO, IN.....	26
03277000	LAUGHERY CREEK NEAR FARMERS RETREAT, IN.....	27
03291780	INDIAN-KENTUCK CREEK NR CANAAN, IN.....	28
03294000	SILVER CREEK NEAR SELLERSBURG, IN	29
03302220	BUCK CREEK NEAR NEW MIDDLETOWN, IN	30
03302300	LITTLE INDIAN CREEK NEAR GALENA, IN	31
03302500	INDIAN CREEK NEAR CORYDON, IN	32
03302680	WEST FORK BLUE RIVER AT SALEM, IN	33
03302800	BLUE RIVER AT FREDERICKSBURG, IN	34
03302849	WHISKEY RUN AT MARENGO, IN	35
03303000	BLUE RIVER NEAR WHITE CLOUD, IN	36
03303300	MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN.....	37
03303400	CROOKED CREEK NEAR SANTA CLAUS, IN.....	38
03322011	PIGEON CREEK NEAR FORT BRANCH.....	39
03322500	WABASH RIVER NEAR NEW CORYDON, IN.....	40
03322900	WABASH RIVER AT LINN GROVE, IN	41
03322985	WABASH RIVER NEAR BLUFFTON, IN	42
03323000	WABASH RIVER AT BLUFFTON, IN.....	43
03323500	WABASH RIVER AT HUNTINGTON IN.....	44
03324000	LITTLE RIVER NEAR HUNTINGTON, IN	45
03324200	SALAMONIE RIVER AT PORTLAND, IN	46
03324300	SALAMONIE RIVER NEAR WARREN, IN	47
03324500	SALAMONIE RIVER AT DORA, IN	48
03325000	WABASH RIVER AT WABASH, IN	49
03325311	LITTLE MISSISSINEWA RIVER AT UNION CITY, IN.....	50
03325500	MISSISSINEWA RIVER NEAR RIDGEVILLE, IN	51
03326000	MISSISSINEWA RIVER NEAR EATON, IN	52
03326070	BIG LICK CREEK NEAR HARTFORD CITY, IN.....	53
03326500	MISSISSINEWA RIVER AT MARION, IN	54
03327000	MISSISSINEWA RIVER AT PEORIA, IN	55
03327500	WABASH RIVER AT PERU, IN	56
03327503	PRAIRIE DITCH AT PERU, IN	57
03327507	PRAIRIE DITCH NEAR PERU, IN	58

03327520	PIPE CREEK NEAR BUNKER HILL, IN	59
03328000	EEL RIVER AT NORTH MANCHESTER, IN.....	60
03328430	WEESAU CREEK NEAR DEEDSVILLE, IN	61
03328500	EEL RIVER NEAR LOGANSFORT, IN	62
03329000	WABASH RIVER AT LOGANSFORT, IN	63
03329400	RATTLESNAKE CREEK NEAR PATTON, IN	64
03329500	WABASH RIVER AT DELPHI, IN	65
03329700	DEER CREEK NEAR DELPHI, IN.....	66
03330241	TIPPECANOE RIVER AT NORTH WEBSTER, IN	67
03330500	TIPPECANOE RIVER AT OSWEGO, IN.....	68
03331110	WALNUT CREEK NEAR WARSAW, IN	69
03331500	TIPPECANOE RIVER NEAR ORA, IN	70
03331753	TIPPECANOE RIVER AT WINAMAC, IN.....	71
03332300	LITTLE INDIAN CREEK NEAR ROYAL CENTER, IN	72
03332400	BIG MONON CREEK NEAR FRANCESVILLE, IN	73
03332500	TIPPECANOE RIVER NEAR MONTICELLO, IN	74
03332555	TIPPECANOE RIVER AT NORWAY, IN	75
03332605	TIPPECANOE RIVER BELOW OAKDALE DAM, IN.....	76
03333050	TIPPECANOE RIVER NEAR DELPHI, IN	77
03333450	WILDCAT CREEK NEAR JEROME, IN	78
03333500	WILDCAT CREEK AT GREENTOWN, IN.....	79
03333600	KOKOMO CREEK NEAR KOKOMO, IN	80
03333700	WILDCAT CREEK AT KOKOMO, IN.....	81
03334000	WILDCAT CREEK AT OWASCO, IN.....	82
03334500	SOUTH FORK WILDCAT CREEK NEAR LAFAYETTE, IN.....	83
03335000	WILDCAT CREEK NEAR LAFAYETTE, IN.....	84
03335500	WABASH RIVER AT LAFAYETTE IN	85
03335671	ELLIOTT DITCH NEAR LAFAYETTE, IN	86
033356725	ELLIOTT DITCH NEAR ELSTON, IN	87
03335673	LITTLE WEA CREEK AT SOUTH RAUB, IN	88
03335677	MARSHALL DITCH NEAR MONTMORENCI, IN.....	89
03335678	INDIAN CREEK NEAR MONTMORENCI, IN	90
033356786	LITTLE PINE CREEK NEAR MONTMORENCI, IN	91
03335679	LITTLE PINE CREEK AT GREEN HILL, IN	92
03335690	MUD PINE CREEK NEAR OXFORD, IN	93
03335700	BIG PINE CR NR WILLIAMSPORT IN.....	94
03336000	WABASH RIVER AT COVINGTON, IN.....	95
03339108	EAST FORK COAL CREEK NEAR HILLSBORO, IN	96
03339120	COAL CREEK AT COAL CREEK, IN.....	97
03339150	LITTLE VERMILLION RIVER NEAR NEWPORT, IN	98
03339280	PRAIRIE CREEK NEAR LEBANON, IN	99
03339500	SUGAR CREEK AT CRAWFORDSVILLE, IN	100
03340000	SUGAR CREEK NEAR BYRON, IN	101
03340500	WABASH RIVER AT MONTEZUMA, IN	102
03340800	BIG RACCOON CREEK NEAR FINCASTLE IN	103

03340900	BIG RACCOON CREEK NEAR FERNDALE, IN	104
03341000	BIG RACCOON CREEK AT MANSFIELD, IN	105
03341200	LITTLE RACCOON CREEK NEAR CATLIN, IN.....	106
03341300	BIG RACCOON CREEK AT COXVILLE, IN.....	107
03341500	WABASH RIVER AT TERRE HAUTE, IN	108
03342000	WABASH RIVER AT RIVERTON IN	109
03342100	BUSSERON CREEK NEAR HYMERA, IN.....	110
03342150	WEST FORK BUSSERON CREEK NEAR HYMERA, IN.....	111
03342250	MUD CR NR DUGGER IN	112
03342300	BUSSERON CR NR SULLIVAN IN	113
03342500	BUSSERON CREEK NEAR CARLISLE, IN	114
03343000	WABASH RIVER AT VINCENNES, IN	115
03347000	WHITE RIVER AT MUNCIE, IN.....	116
03347500	BUCK CREEK NEAR MUNCIE, IN.....	117
03348000	WHITE RIVER AT ANDERSON, IN.....	118
03348020	KILLBUCK CREEK NEAR GASTON, IN.....	119
03348130	WHITE RIVER AT RAIBLE AVENUE AT ANDERSON, IN	120
03348350	PIPE CREEK AT FRANKTON, IN.....	121
03348500	WHITE RIVER NEAR NOBLESVILLE IN	122
03349000	WHITE RIVER AT NOBLESVILLE, IN	123
03349210	CICERO CREEK AT TIPTON, IN	124
03349500	CICERO CREEK NEAR ARCADIA, IN	125
03349510	CICERO CREEK AT ARCADIA, IN.....	126
03349700	LITTLE CICERO CREEK NEAR ARCADIA, IN.....	127
03350100	HINKLE CREEK NEAR CICERO, IN	128
03350500	CICERO CREEK AT NOBLESVILLE, IN.....	129
03350655	STONY CREEK AT FISHERSBURG, IN.....	130
03350660	WILLIAM LOCK DITCH NEAR DURBIN, IN.....	131
03350700	STONY CREEK NEAR NOBLESVILLE, IN	132
03350800	WHITE RIVER AT 146TH ST NEAR NOBLESVILLE, IN	133
03351000	WHITE RIVER NEAR NORA, IN	134
03351072	WILLIAMS CREEK AT 96TH STREET, INDIANAPOLIS, IN	135
03351310	CROOKED CREEK AT INDIANAPOLIS, IN	136
03351400	SUGAR CREEK NEAR MIDDLETOWN, IN	137
03351500	FALL CREEK NEAR FORTVILLE, IN	138
03352200	MUD CREEK AT INDIANAPOLIS, IN.....	139
03352500	FALL CREEK AT MILLERSVILLE, IN	140
03352875	FALL CREEK AT 16TH STREET AT INDIANAPOLIS, IN.....	141
03352953	WHITE RIVER AT MICHIGAN STREET AT INDIANAPOLIS, IN.....	142
03352988	POGUES RUN AT VERMONT STREET AT INDIANAPOLIS, IN.....	143
03353000	WHITE RIVER AT INDIANAPOLIS, IN.....	144
03353120	PLEASANT RN AT ARLINGTON AVE AT INPLS, IN.....	145
03353160	PLEASANT RN AT BROOKVILLE RD AT INPLS, IN	146
03353180	BEAN CREEK AT INDIANAPOLIS, IN	147
03353200	EAGLE CREEK AT ZIONSVILLE, IN	148

03353460	EAGLE CREEK AT CLERMONT, IN	149
03353500	EAGLE CREEK AT INDIANAPOLIS, IN	150
03353551	LITTLE EAGLE CREEK AT 52ND ST. AT INDIANAPOLIS.....	151
03353560	GUION CREEK ABOVE 52ND ST. AT INDIANAPOLIS, IN	152
03353583	FALCON CREEK 30TH ST. AT INDIANAPOLIS, IN.....	153
03353600	LITTLE EAGLE CREEK AT SPEEDWAY, IN	154
03353611	WHITE R. AT STOUT GEN. STN. AT INDIANAPOLIS, IN	155
03353620	LICK CREEK AT INDIANAPOLIS, IN	156
03353630	LITTLE BUCK CREEK NEAR SOUTHPORT, IN.....	157
03353635	DERBYSHIRE CREEK AT SOUTHPORT, IN.....	158
03353636	LITTLE BUCK CREEK AT SOUTHPORT, IN.....	159
03353637	LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN.....	160
03353660	WHITE RIVER AT WAVERLY, IN	161
03353700	WEST FORK WHITE LICK CREEK AT DANVILLE, IN	162
03353800	WHITE LICK CREEK AT MOORESVILLE, IN.....	163
03353885	EAST FORK WHITE LICK CREEK AT BRIDGEPORT, IN.....	164
03353890	EAST FORK WHITE LICK CREEK NEAR CAMBY, IN	165
03353910	EAST FORK WHITE LICK CREEK NEAR MOORESVILLE, IN	166
03354000	WHITE RIVER NEAR CENTERTON, IN.....	167
03354500	BEANBLOSSOM CREEK AT BEANBLOSSOM, IN	168
03355000	BEAR CREEK NEAR TREVLA, IN	169
03356000	BEANBLOSSOM CREEK AT DOLAN, IN	170
03357000	WHITE RIVER AT SPENCER, IN.....	171
03357330	BIG WALNUT CREEK NEAR ROACHDALE, IN.....	172
03357350	PLUM CREEK NEAR BAINBRIDGE, IN	173
03357500	BIG WALNUT CREEK NEAR REELSVILLE, IN	174
03358000	MILL CREEK NEAR CATARACT, IN.....	175
03359000	MILL CREEK NEAR MANHATTAN, IN	176
03359500	DEER CREEK NEAR PUTNAMVILLE, IN	177
03360000	EEL RIVER AT BOWLING GREEN, IN	178
03360500	WHITE RIVER AT NEWBERRY, IN	179
03361000	BIG BLUE RIVER AT CARTHAGE, IN.....	180
03361500	BIG BLUE RIVER AT SHELBYVILLE, IN.....	181
03361638	LEARY-WEBER DITCH AT MOHAWK, IN	182
03361650	SUGAR CREEK AT NEW PALESTINE, IN.....	183
03361850	BUCK CREEK AT ACTON, IN	184
03362000	YOUNGS CREEK NEAR EDINBURGH IN	185
03362500	SUGAR CREEK NEAR EDINBURGH, IN	186
03363000	DRIFTWOOD RIVER NEAR EDINBURGH IN	187
03363500	FLATROCK RIVER AT ST. PAUL, IN.....	188
03363900	FLATROCK RIVER AT COLUMBUS, IN	189
03364000	EAST FORK WHITE RIVER AT COLUMBUS, IN	190
03364042	HAW CREEK AT HOPE, IN	191
03364200	HAW CREEK NEAR CLIFFORD, IN.....	192
03364500	CLIFTY CREEK AT HARTSVILLE, IN.....	193

03364650	CLIFTY CREEK NEAR COLUMBUS, IN	194
03365000	SAND CREEK NEAR BREWERSVILLE, IN	195
03365500	EAST FORK WHITE RIVER AT SEYMOUR IN	196
03366000	GRAHAM CREEK NEAR VERNON, IN	197
03366200	HARBERTS CREEK NEAR MADISON, IN	198
03366500	MUSCATATUCK RIVER NEAR DEPUTY, IN	199
03368000	BRUSH CREEK NEAR NEBRASKA, IN	200
03369000	VERNON FORK MUSCATATUCK RIVER NR BUTLERVILLE, IN	201
03369500	VERNON FORK MUSCATATUCK RIVER AT VERNON, IN	202
03371500	EAST FORK WHITE RIVER NEAR BEDFORD, IN	203
03371520	BACK CREEK AT LEESVILLE, IN	204
03371600	SOUTH FORK SALT CREEK AT KURTZ, IN	205
03371650	NORTH FORK SALT CREEK AT NASHVILLE, IN	206
03372000	NORTH FORK SALT CREEK NEAR BELMONT, IN	207
03372300	STEPHENS CREEK NEAR BLOOMINGTON, IN	208
03372500	SALT CREEK NEAR HARRODSBURG IN	209
03372700	CLEAR CREEK NEAR HARRODSBURG, IN	210
03373200	INDIAN CREEK NEAR SPRINGVILLE, IN	211
03373500	EAST FORK WHITE RIVER AT SHOALS, IN	212
03373508	BEAVER CREEK NEAR SHOALS, IN	213
03373530	LOST RIVER NEAR LEIPSIC, IN	214
03373560	LOST RIVER NEAR PROSPECT, IN	215
03373610	LICK CREEK AT PAOLI, IN	216
03373686	FRENCH LICK CREEK AT FRENCH LICK, IN	217
03373695	FRENCH LICK CREEK AT WEST BADEN SPRINGS, IN	218
03373700	LOST RIVER NR. WEST BADEN SPRINGS, IN	219
03374000	WHITE RIVER AT PETERSBURG, IN	220
03374455	PATOKA RIVER NEAR HARDINSBURG, IN	221
03375500	PATOKA RIVER AT JASPER, IN	222
03375800	HALL CREEK NEAR ST. ANTHONY, IN	223
03376260	FLAT CREEK NEAR OTWELL, IN	224
03376300	PATOKA RIVER AT WINSLOW, IN	225
03376350	SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN	226
03376500	PATOKA RIVER NEAR PRINCETON, IN	227
03377500	WABASH RIVER AT MT. CARMEL, IL	228
03378550	BIG CREEK NEAR WADESVILLE, IN	229
04093000	DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN	230
04094000	LITTLE CALUMET RIVER AT PORTER, IN	231
04094400	SALT CREEK AT VALPARAISO, IN	232
04094500	SALT CREEK NEAR MCCOOL, IN	233
04095090	PORTAGE-BURNS WATERWAY AT PORTAGE, IN	234
04095300	TRAIL CREEK AT MICHIGAN CITY, IN	235
04095380	TRAIL CREEK AT MICHIGAN CITY HARBOR, IN	236
04096100	GALENA RIVER NEAR LAPORTE, IN	237
04097970	LIME LAKE OUTLET AT PANAMA, IN	238

04099510	PIGEON CREEK NR ANGOLA, IN	239
04099610	PRETTY LAKE INLET NEAR STROH, IN	240
04099750	PIGEON RIVER NEAR SCOTT, IN.....	241
04099808	LITTLE ELKHART RIVER AT MIDDLEBURY, IN	242
04099850	PINE CREEK NEAR ELKHART, IN	243
04100222	NB ELKHART RIVER AT COSPERVILLE, IN	244
04100252	FORKER CREEK NEAR BURR OAK, IN	245
04100295	RIMMELL BRANCH NEAR ALBION, IN.....	246
04100377	SOLOMON CREEK NEAR SYRACUSE, IN	247
04100465	TURKEY CREEK AT SYRACUSE, IN	248
04100500	ELKHART RIVER AT GOSHEN, IN.....	249
04101000	ST. JOSEPH RIVER AT ELKHART, IN	250
04101370	JUDY CREEK NEAR SOUTH BEND, IN	251
04177720	FISH CREEK AT HAMILTON, IN	252
04178000	ST JOSEPH R NR NEWVILLE IN	253
04179000	ST. JOSEPH RIVER AT CEDARVILLE, IN.....	254
04179500	CEDAR CREEK AT AUBURN, IN.....	255
04179520	CEDAR CREEK AT 18TH STREET AT AUBURN, IN.....	256
04180000	CEDAR CREEK NEAR CEDARVILLE, IN	257
04180500	ST. JOSEPH RIVER NEAR FORT WAYNE, IN	258
04181500	ST. MARYS RIVER AT DECATUR, IN	259
04182000	ST. MARYS RIVER NEAR FORT WAYNE, IN.....	260
04182590	HARBER DITCH AT FORT WAYNE, IN.....	261
04182769	ST. MARYS RIVER AT MAIN ST. AT FORT WAYNE, IN.....	262
04182808	SPY RUN CREEK NEAR PARK DRIVE AT FORT WAYNE, IN	263
04182810	SPY RUN CREEK AT FORT WAYNE, IN	264
04182950	MAUMEE RIVER AT COLISEUM BLVD AT FORT WAYNE, IN	265
04183000	MAUMEE RIVER AT NEW HAVEN, IN	266
05515000	KANKAKEE RIVER NEAR NORTH LIBERTY, IN	267
05515400	KINGSBURY CREEK NR LAPORTE, IN.....	268
05515500	KANKAKEE RIVER AT DAVIS, IN.....	269
05516000	YELLOW RIVER NEAR BREMEN, IN	270
05516500	YELLOW RIVER AT PLYMOUTH, IN.....	271
05517000	YELLOW RIVER AT KNOX, IN.....	272
05517500	KANKAKEE RIVER AT DUNNS BRIDGE, IN	273
05517530	KANKAKEE RIVER NR KOUTS, IN.....	274
05517890	COBB DITCH NEAR KOUTS, IN	275
05518000	KANKAKEE RIVER AT SHELBY, IN	276
05519000	SINGLETON DITCH AT SCHNEIDER, IN.....	277
05519500	WEST CREEK NEAR SCHNEIDER, IN	278
05521000	IROQUOIS RIVER AT ROSEBUD, IN	279
05522000	IROQUOIS RIVER NEAR NORTH MARION, IN	280
05522500	IROQUOIS RIVER AT RENSSELAER, IN.....	281
05523000	BICE DITCH NEAR SOUTH MARION, IN.....	282
05523500	SLOUGH CREEK NEAR COLLEGEVILLE, IN	283

05524000	CARPENTER CREEK AT EGYPT, IN.....	284
05524500	IROQUOIS RIVER NEAR FORESMAN, IN.....	285
05536179	HART DITCH AT DYER, IN.....	286
05536190	HART DITCH AT MUNSTER, IN.....	287
05536195	LITTLE CALUMET RIVER AT MUNSTER, IN.....	288
05536357	GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN.....	289

Index of partial-record streamgaging stations by name and number

03323700	Aboite Creek nr Aboite, IN	297
03329600	Bachelor Run nr Flora, IN	304
03335950	Bear Creek at Fountain, IN	311
03322800	Bear Creek nr Bryant, IN	296
04178400	Bear Creek nr Saint Joe, IN	331
05525650	Beaver Creek nr Morocco, IN	336
03347595	Bell Creek nr Yorktown, IN	316
03360920	Big Blue River nr New Castle, IN	323
03332800	Big Creek nr Monticello, IN	308
03366300	Big Creek nr Volga, IN	327
03332350	Big Monon Creek nr Medaryville, IN	306
03340651	Big Raccoon Creek nr Ladoga, IN	314
04177900	Big Run at Butler, IN	330
03335800	Big Shawnee Creek nr Attica, IN	311
03357300	Big Walnut Creek nr Barnard, IN	320
03357400	Big Walnut Creek nr Greencastle, IN	321
03331350	Big Yellow Creek nr Mentone, IN	304
03360050	Birch Creek nr Ashboro, IN	322
03360076	Birch Creek nr Old Hill, IN	322
03303050	Bird Hollow Creek nr English, IN	295
03324280	Black Creek nr Warren, IN	298
04181100	Blue Creek nr Pleasant Mills, IN	332
03327620	Blue River nr Churubusco, IN	300
03327770	Blue River nr Columbia City, IN	300
03361600	Brandywine Creek nr Maxwell, IN	324
03341420	Brouillettes Creek nr Universal, IN	314
03361800	Buck Creek nr New Bethel, IN	325
03334750	Campbells Run nr Rossville, IN	309
04179310	Cedar Creek at Waterloo, IN	331
03331375	Chippewanuck Creek nr Rochester, IN	305
03349200	Cicero Creek nr Tipton, IN	317
03327875	Clear Creek above Spring Creek at South Whitley, IN	301
03324050	Clear Creek nr Huntington, IN	298
03339100	Coal Creek nr Veedersburg, IN	311
04093900	Coffee Creek at Chesterton, IN	328
03360120	Connelly Ditch nr Jasonville, IN	323
03351300	Crooked Creek at Augusta, IN	317
05517750	Crooked Creek nr Kouts, IN	335
03329150	Crooked Creek nr Logansport, IN	303
03329100	Crooked Creek nr Royal Center, IN	303
05516300	Dausman Ditch nr Bremen, IN	334
03326375	Deer Creek at Marion, IN	299
03303240	Deer Creek nr Cannelton, IN	295
03329510	Deer Creek nr Lincoln, IN	303
04179308	Dibbling Ditch nr Waterloo, IN	331
03360965	Duck Creek at Greensboro, IN	324
03348400	Duck Creek at Strawtown, IN	316
05516950	Eagle Creek nr Grovertown, IN	335
03339110	East Fork Coal Creek nr Veedersburg, IN	312
03353900	East Fork White Lick Creek nr Mooresville, IN	319
03327590	Eel River nr Columbia City, IN	300
03323800	Eightmile Creek at Zanesville, IN	298
04177800	Fish Creek nr Artic, IN	330
03357180	Fish Creek nr Freedom, IN	320
04191340	Flatrock Creek nr Townley, IN	333
03363200	Flatrock River nr Lewisville, IN	325
03363400	Flatrock River nr Rushville, IN	325
03335681	Flint Creek nr West Point, IN	310

03292400	Fourteenmile Creek nr Charlestown, IN	293
03274900	Greens Fork at Greens Fork, IN	291
03371525	Guthrie Creek nr Tunnelton, IN	327
03325700	Halfway Creek nr Albany, IN	299
03275850	Hanna Creek nr Roseburg, IN	292
03332440	Hoagland Ditch nr Monon, IN	307
04191360	Hoffman Creek at Townley, IN	333
04181600	Holthouse Ditch nr Decatur, IN	332
03332480	Honey Creek nr Reynolds, IN	307
03341580	Honey Creek nr Terre Haute, IN	314
04181900	Houk Ditch nr Hessen Cassel, IN	333
03361900	Hurricane Creek nr Franklin, IN	325
03335682	Indian Creek nr Green Hill, IN	310
03354200	Indian Creek nr Morgantown, IN	320
03351900	Indian Creek nr Oaklandon, IN	317
03332250	Indian Creek nr Thornhope, IN	306
03291800	Indian-Kentuck Creek nr Manville, IN	292
033275554	Johnson Drain nr Churubusco, IN	299
03359980	Jordan Creek nr Jordan, IN	322
03335683	Kickapoo Creek nr Attica, IN	310
03348100	Killbuck Creek nr Anderson, IN	316
03334300	Kilmore Creek at Kilmore, IN	308
03334330	Kilmore Creek nr Frankfort, IN	309
03354140	Lambs Creek nr Martinsville, IN	319
03360200	Lattas Creek nr Switz City, IN	323
03276750	Laughery Creek nr Ballstown, IN	292
03371530	Leatherwood Creek at Bedford, IN	328
03360115	Lick Creek nr Coal City, IN	322
03351490	Lick Creek nr Fortville, IN	317
03373600	Lick Creek nr Paoli, IN	328
03322880	Limberlost Creek at Geneva, IN	297
03303190	Little Blue River nr Beechwood, IN	295
03303160	Little Blue River nr Grantsburg, IN	295
03361400	Little Blue River nr Rays Crossing, IN	324
03353631	Little Buck Creek nr Southport, IN	318
04179800	Little Cedar Creek nr Garrett, IN	332
03329580	Little Deer Creek nr Camden, IN	304
04099805	Little Elkhart River nr Middlebury, IN	329
03363450	Little Flatrock River at Milroy, IN	326
03302600	Little Indian Creek nr Corydon, IN	293
05151100	Little Kankakee River nr Mill Creek, IN	334
03304000	Little Pigeon Creek nr Tennyson, IN	296
03339408	Little Potato Creek nr Darlington, IN	313
03364711	Little Sand Creek nr Elizabethtown, IN	326
03335674	Little Wea Creek nr Lafayette, IN	310
03322860	Loblolly Creek at Geneva, IN	297
03326480	Lugar Creek at Marion, IN	299
03342700	Maria Creek nr Emison, IN	315
03274800	Martindale Creek nr Cambridge City, IN	291
03302700	Middle Fork Blue River nr Salem, IN	293
03371550	Middle Fork Salt Creek at Story, IN	328
03334700	Middle Fork Wildcat Creek nr Rossville, IN	309
03331780	Mill Creek nr Fulton, IN	306
03357385	Miller Creek nr Fillmore, IN	321
03333100	Moots Creek nr Brookston, IN	308
03331430	Mud Creek nr Bruce Lake, IN	305
03357700	Mud Creek nr Little Point, IN	321
03333400	Mud Creek nr Windfall, IN	308

04181800	Nickelsen Creek nr Poe, IN	333
03303950	Otter Creek nr DeGonia Springs, IN	296
0336940050	Otter Creek nr Vernon, IN	327
03328420	Paw Paw Creek nr Roann, IN	302
03322050	Pigeon Creek nr Buckskin, IN	296
04099070	Pigeon Creek nr Hamilton, IN	329
03332550	Pike Creek nr Norway, IN	307
03348300	Pipe Creek nr Alexandria, IN	316
03353650	Pleasant Run at Greenwood, IN	318
03339300	Prairie Creek at Thorntown, IN	312
03341800	Prairie Creek nr Prairie Creek, IN	314
03360800	Prairie Creek nr Washington, IN	323
03331750	Quigley Marsh Ditch at Winamac, IN	305
05517550	Reeves Ditch nr LaCrosse, IN	335
03329300	Rock Creek nr Rockfield, IN	303
04099692	Rowe Ditch nr Howe, IN	329
03324250	Salamonie River at Montpelier, IN	298
03275200	Salt Creek nr Metamora, IN	291
03364800	Sand Creek nr Greensburg, IN	326
03275700	Silver Creek nr Liberty, IN	291
05518500	Singleton ditch nr Hebron, IN	336
03322980	Sixmile Creek nr Bluffton, IN	297
03302730	South Fork Blue River nr Palmyra, IN	294
03329530	South Fork Deer Creek at Galveston, IN	304
03327876	Spring Creek below Clear Creek at South Whitley, IN	301
03327853	Spring Creek nr Columbia City, IN	301
03302900	Spring Creek nr White Cloud, IN	294
04178500	St. Joseph River at Hursh, IN	331
03346835	Stoney Creek at Windsor, IN	315
03353665	Stotts Creek nr Martinsville, IN	318
033673005	Stucker Fork at Scottsburg, IN	327
03327900	Sugar Creek at South Whitley, IN	302
03339200	Sugar Creek nr Kirclin, IN	312
03361700	Sugar Creek nr Pleasant View, IN	324
03340200	Sugar Mill Creek nr Wallace, IN	313
03276630	Tanners Creek nr Guilford, IN	292
04100490	Turkey Creek nr New Paris, IN	329
03341920	Turman Creek nr Farmersburg, IN	315
03328470	Twelve Mile Creek nr Hoover, IN	302
03339460	Walnut Fork Sugar Creek nr Crawfordsville, IN	313
03335670	Wea Creek nr Lafayette, IN	309
03302850	Whiskey Run at Milltown, IN	294
03365600	White Creek nr Cortland, IN	326
03353670	White Lick Creek nr Brownsburg, IN	319
03346700	White River nr Harrisville, IN	315
05515499	Whitham Ditch nr Hanna, IN	334
04179900	Willow Creek nr Huntertown, IN	332
05516650	Wolf Creek nr Argos, IN	334
05517880	Wolf Creek nr Kouts, IN	336
04100800	Yellow Creek at Dunlap, IN	330

