1972

Water Resources Data for Indiana

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Indiana
and with other agencies

Prepared in cooperation with

Indiana Department of Natural Resources
Indiana State Board of Health
Indiana State Highway Commission
Corps of Engineers, U.S. Army

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Indianapolis, Indiana 46202

1973

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INTRODUCTION

Water resources data for the 1972 water year for Indiana, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Records for a few pertinent gaging and water-quality stations in bordering States also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. L. Cook, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and contents of reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 16 and 21.

COOPERATION

The U.S. Geological Survey and organizations of the State of Indiana have had cooperative agreements for the systematic collection of surface-water records since 1930. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Natural Resources, J. D. Cloud, director, through Bureau of Water and Mineral Resources, W. J. Andrews, deputy director.

State Board of Health, A. C. Offutt, commissioner, and R. C. Pickard, commissioner for Environmental Health.

State Highway Commission, R. W. Steele, chairman, R. H. Harrell, executive director, and N. W. Steinkamp, chief engineer.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 48 surface- water gaging stations and 5 water-quality gaging stations published in this report, and the Environmental Protection Agency, in collecting records for 5 water-quality stations published in this report. The following organizations aided in collecting records:

The city of Indianapolis, through its Board of Public Works and Sanitation and its Flood Control Board; cities of Anderson, Bloomington, Muncie, North Vernon, and Richmond; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Co. of Indiana; Container Corporation of America; city of Ft. Wayne Filtration Plant; Sanitary District of Chicago; and city of Hammond.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (ug/l, UG/L) is a unit expressing the concentration of chemical constituents in sollution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 6. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 6.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Runoff in inches (IN) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Table 1.—Factors for conversion of chemical constituents in milligrams or micrograms per liter to millequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel(Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.—Factors for conversion of sediment concentrations in milligrams per liter to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05 - 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-508	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORK

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial- record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural

drainage lines. Records in this report are in Part 3 (Ohio River basin), Part 4 (St. Lawrence River basin) and Part 5 (Upper Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SURFACE-WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a non-recording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the

gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily

contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum daily discharge (or minimum contents) are given under "EXTREMES." In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge

records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS," for reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only, are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of nc gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents.

Data collected at partial-record stations and miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Indiana for the period October 1960 to September 1965 are in Water-Supply Papers 1908, 1909, 1911, 1912, and 1915.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual series of water- supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical.

The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Indiana are compiled in Water-Supply Papers 1305, 1307, and 1308 through September 1950, and in 1725, 1727, and 1728 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

WATER-QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological

information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous- temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations, and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l), and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 3 on page 19.

In October 1968 the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 3.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

Table 4.—Water-supply paper numbers and parts, water years, 1947-67

Year	Parts 3-4	Parts 5-6	Year	Parts 3-4	Parts 5-6
1947	1102	1102	1958	1571	1572
1948	1132	1132	1959	1642	1643
1949	1162	1162	1960	1742	1743
1950	1186	1187	1961	1882	1883
1951	1197	1198	1962	1942	1943
1952	1250	1251	1963	1948	1949
1953	1290	1291	1964	1955	1956
1954	1350	1351	1965	1962	1963
1955	1400	1401	1966	1992	1993
1956	1450	1451	1967	2012	2013
1957	1520	1521			

Other Data Available

At each stream-gaging station certain water-quality constituents have been collected at the time of each discharge measurement. Water temperatures have been collected since 1949, specific conductance since 1968, and pH since 1970. Data for these constituents may be obtained from the district office.

HYDROLOGIC CONDITIONS

Precipitation for the water year was slightly above normal in the north and slightly below normal in the south. The outstanding characteristic of the precipitation during the year was its even distribution, generally once a week. No outstanding heavy rainstorms crossed the state during the water year. The heaviest storms occurred in December, April, and September.

Precipitation during October and November was normal, or slightly below, and was distributed as such to maintain near constant flow in most streams. The first storm of the year occurred on December 7 and was concentrated mostly in the White River basin. The storm on December 14 raised streams in the upper Wabash and White River basins to base-flood stages. A moderate to heavy storm on December 30 covered most the state with its main concentration in the east-central part, where again base-flood stages occurred.

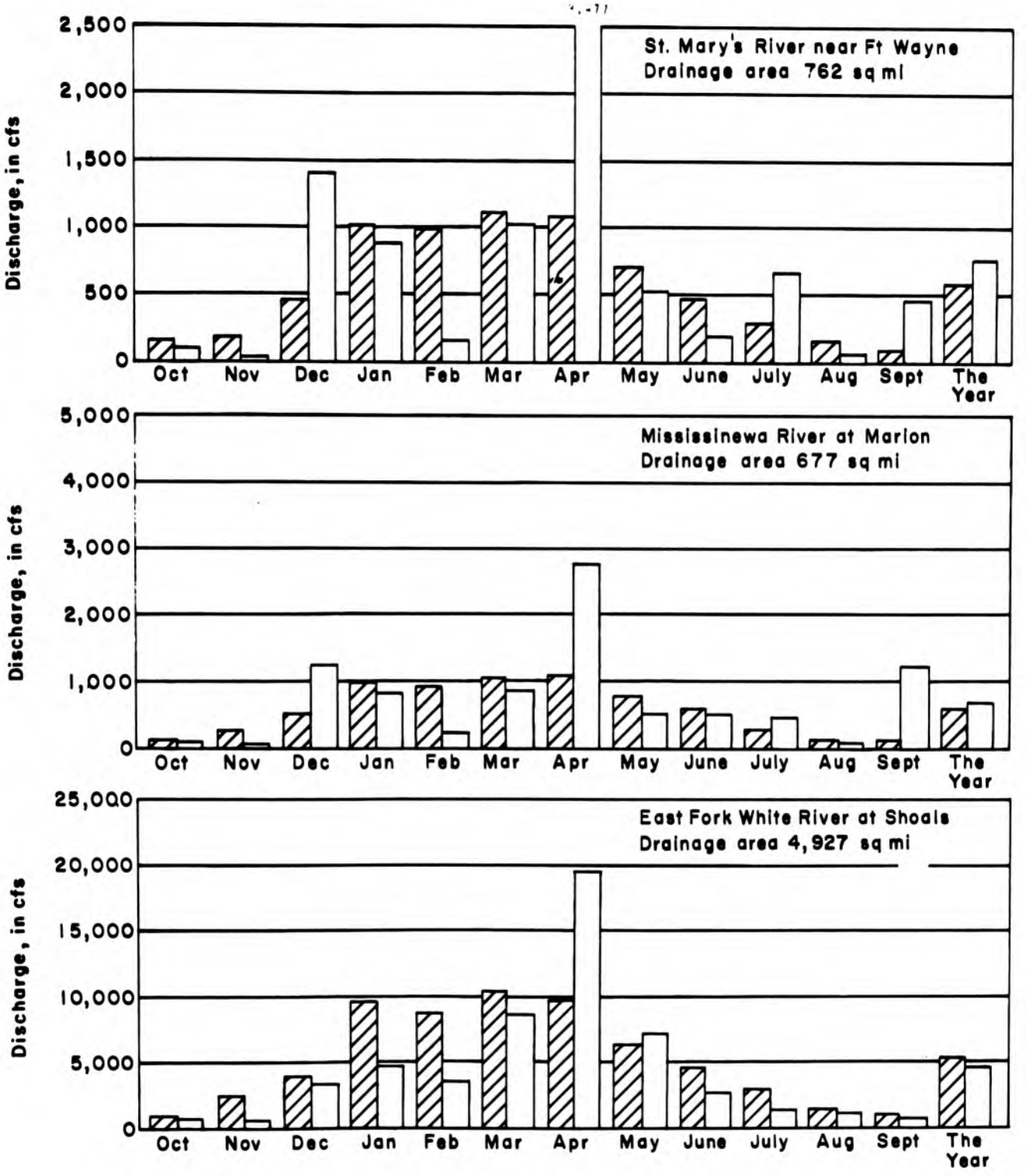
Light rains, and freezing and thawing periods during January and February, produced rises on January 9 and 23, February 15 and 25. Heavy weekly spring rains began on March 1, with base-flood stages occurring in the Calumet and Kankakee basins on March 12 and on the Ohio tributaries and Patoka River basin on March 16.

April precipitation totals were the highest for the year in the state, except for those in the Calumet and Kankakee River basins. Above normal streamflows from the March rainfall was greatly enlarged by heavy, steady rains from April 7 to 22. Most maximum discharges for the water year occurred during this period. The last spring storm occurred on May 9 and was mainly concentrated in the extreme northwest and along the Ohio River.

Thunderstorms during June to August were extremely isolated and moderate. The heaviest concentrations of rainfall for June occurred in the Indianapolis area on the 13th. Thunderstorms during July and August were most prominent in the west-central part of the state.

September precipitation totals in the Kankakee and Calumet River basins were the highest in the past 25 years. Annual maximum discharges were recorded in the Calumet region from rainfall on the 13th, and in the Kankakee and Iroquois River basins from rainfall on the 24th and 25th. Streamflow at the end of the water year was well above normal throughout the state.

Temperatures were generally moderate throughout the year. Low temperatures began after the first week of November, which was somewhat early, and did not break until after the first week in April. Subzero temperature periods occurred in January and early February, but were usually followed by extremely high temperatures within a few days. No prolonged warm spells were present during the year, with maximum temperatures occurring either on July 20 or August 18.



Comparison of discharge at three long-term representative gaging stations during 1972 water year with median discharge for period 1931-60

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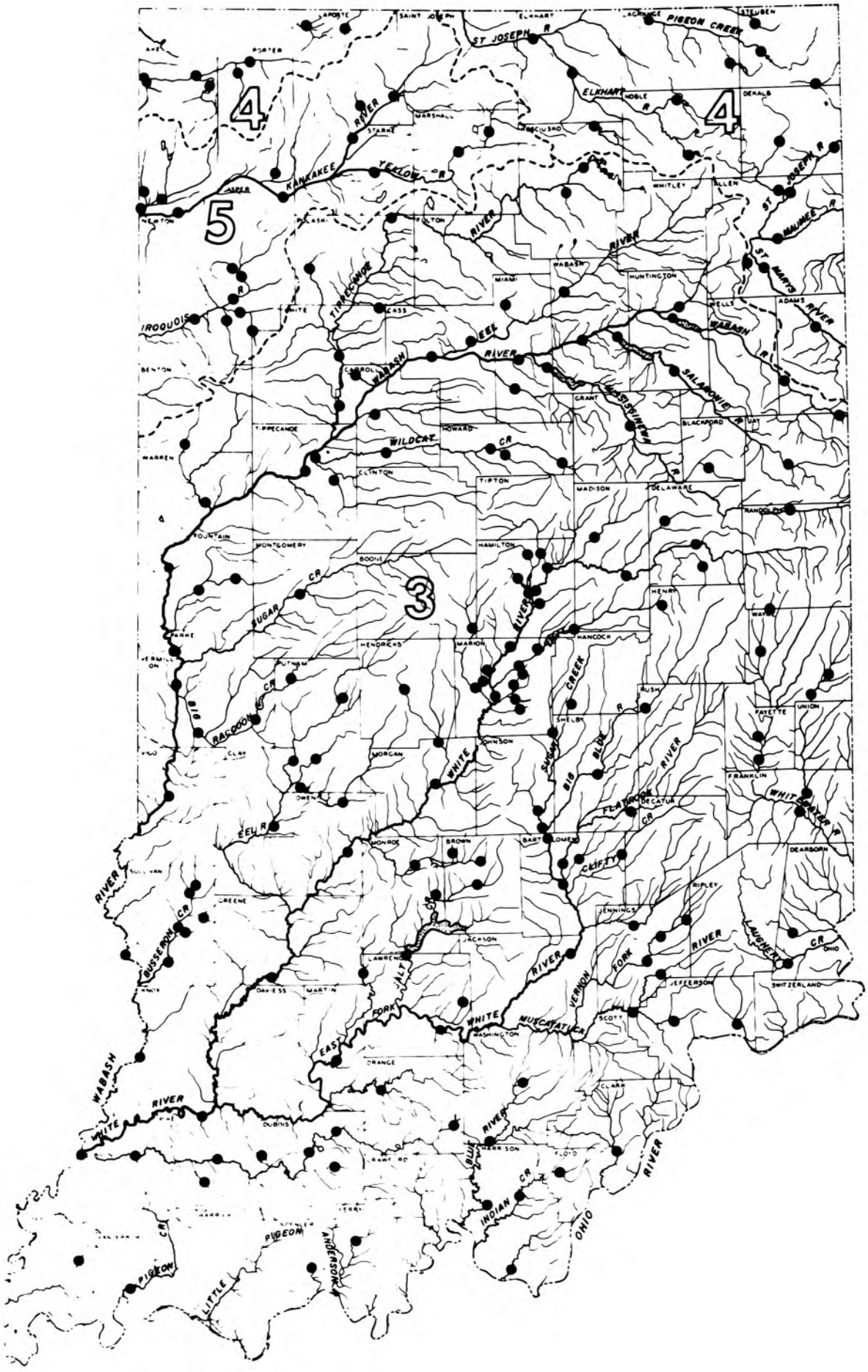
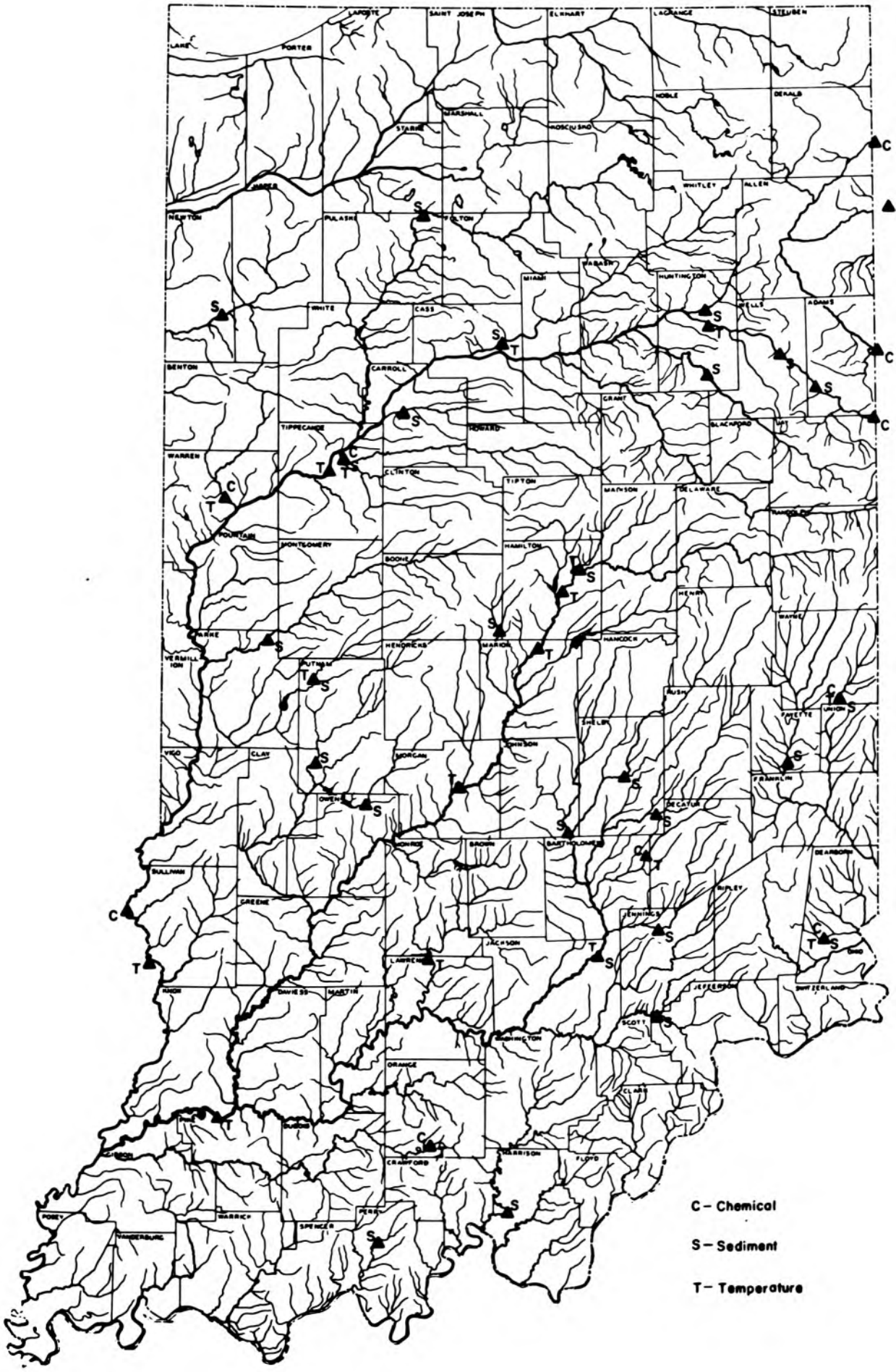
GAGING STATIONS IN INDIANA



QUALITY OF WATER STATIONS IN INDIANA



03274650 Whitewater River near Economy, Ind.

LOCATION.—Lat 40°00'05", long 85°06'56", in NW 1/4 NE 1/4 sec.19, T.18 N., R.13 E., Wayne County, on right bank 6 ft downstream from bridge on Wayne County Line Road, 1.7 miles upstream from Little Creek and 2.4 miles northwest of Economy.

DRAINAGE AREA.—10.4 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,066.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 358 cfs Apr. 22 (gage height, 5.99 ft); minimum daily, 0.35 cfs Nov. 18.
Period of record: Maximum discharge, 560 cfs Feb. 22, 1971 (gage height, 6.96 ft); minimum daily, 0.35 cfs Nov. 18, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.49	.46	20	3.8	40	4.4	7.2	7.8	9.6	.93	.89
2	.44	.54	.41	18	4.0	138	4.0	6.3	5.3	5.8	1.5	.90
3	.44	.50	.39	13	4.2	40	4.0	5.5	4.5	4.7	20	1.0
4	.54	.49	.38	17	3.1	28	5.5	4.9	4.0	3.8	6.3	1.0
5	.54	.49	.39	14	2.7	19	5.1	4.7	3.6	3.5	2.8	.93
6	.54	.53	1.0	10	3.0	11	5.1	4.7	3.8	3.0	2.3	.88
7	.59	.53	6.7	8.7	3.1	10	82	4.7	3.3	2.7	2.2	.84
8	.54	.54	5.5	7.2	2.7	9.3	33	11	3.0	2.5	2.2	.88
9	.59	.55	2.3	16	2.4	7.5	28	19	3.0	2.3	2.0	.84
10	.49	.49	1.8	22	2.1	6.0	21	11	2.8	2.0	1.5	.82
11	.44	.44	1.6	14	2.3	6.3	14	8.1	2.7	1.9	1.3	.82
12	.44	.44	1.3	10	2.5	6.6	32	6.3	2.5	1.9	1.4	1.0
13	.54	.40	1.1	8.7	3.1	7.5	42	16	28	1.8	1.3	1.1
14	.54	.39	51	5.8	8.7	7.8	17	33	23	1.7	1.3	1.2
15	.54	.39	65	4.7	18	6.9	12	33	31	2.0	1.3	1.3
16	.59	.37	32	4.4	9.0	7.5	79	21	26	2.8	1.2	1.0
17	.54	.37	19	4.5	7.2	9.3	32	14	11	1.9	1.2	.90
18	.54	.35	11	4.9	7.2	7.8	20	9.9	6.9	1.8	1.1	1.1
19	.54	.41	9.3	5.8	5.1	6.3	14	7.8	5.5	4.0	1.5	1.7
20	.54	.40	9.0	6.3	4.4	5.8	33	6.9	4.9	2.0	1.3	1.1
21	.59	.39	9.3	6.6	4.5	5.8	54	6.3	5.5	1.6	1.1	.96
22	1.1	.39	7.2	11	4.5	6.6	124	5.1	4.0	1.5	1.1	.90
23	.64	.36	6.9	10	4.2	5.8	47	4.5	3.5	1.4	1.5	31
24	.95	.39	6.3	9.0	4.2	5.1	26	4.2	3.5	1.4	1.3	24
25	.64	.39	5.5	6.9	4.0	5.1	20	3.8	3.5	1.3	1.0	11
26	.59	.38	5.5	5.5	4.7	4.7	14	3.6	3.1	1.2	1.0	52
27	.59	.53	5.1	5.1	4.4	4.9	11	3.3	2.8	1.1	1.0	34
28	.54	.44	4.7	5.3	5.1	4.5	8.7	3.3	2.8	1.1	.97	18
29	.49	.56	4.4	4.5	8.4	4.9	7.8	3.1	42	1.1	.94	64
30	.49	.50	66	4.2	------	4.5	7.5	20	27	1.0	.90	70
31	.49	------	33	3.8	------	4.4	------	16	------	1.0	.89	------
TOTAL	17.51	13.44	373.53	286.9	142.6	436.9	807.1	308.2	280.3	75.4	66.33	326.06
MEAN	.56	.45	12.0	9.25	4.92	14.1	26.9	9.94	9.34	2.43	2.14	10.9
MAX	1.1	.56	66	22	18	138	124	33	42	9.6	20	70
MIN	.44	.35	.38	3.8	2.1	4.4	4.0	3.1	2.5	1.0	.89	.82
CFSM	.05	.04	1.15	.89	.47	1.36	2.59	.96	.90	.23	.21	1.05
IN.	.06	.05	1.34	1.03	.51	1.56	2.89	1.10	1.00	.27	.24	1.17

CAL YR 1971 TOTAL 2,575.41 MEAN 7.06 MAX 185 MIN .35 CFSM .68 IN 9.21
WTR YR 1972 TOTAL 3,134.27 MEAN 8.56 MAX 138 MIN .35 CFSM .82 IN 11.21

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1645	4.67	153	04-22	0045	5.99	358
12-30	1030	4.67	153	06-29	1600	5.09	210
03-02	0415	5.65	297	09-23	1600	4.06	90
04-07	0700	5.07	207	09-26	1400	4.26	109
04-12	1900	4.62	147	09-29	2000	4.79	168
04-16	1130	4.94	189				

03274750 Whitewater River near Hagerstown, Ind.

LOCATION.—Lat 39°52'25", long 85°09'47", in NE 1/4 NE 1/4 sec.3, T.16 N., R.12 E., Wayne County, on left bank at downstream side of bridge on Jerry Meyers Road, 1 mile upstream from Pronghorn Run, 1.5 miles north of Interstate 70, 2.0 miles downstream from Nettle Creek, and 2.6 miles south of Hagerstown.

DRAINAGE AREA.—58.7 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 950.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 1,920 cfs Apr. 13 (gage height, 9.91 ft); minimum daily, 12 cfs Sept. 10, 11. Period of record: Maximum discharge, 1,920 cfs Apr. 13, 1972 (gage height, 9.91 ft); minimum daily, 11 cfs Aug. 29-31, Sept. 5, 19, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	17	87	24	145	37	75	60	47	18	14
2	13	17	17	86	24	679	37	72	51	37	20	13
3	13	16	16	72	23	174	38	65	45	36	50	16
4	14	16	16	88	23	120	41	61	40	32	30	14
5	14	16	16	77	22	92	39	58	39	32	22	15
6	13	17	20	62	21	75	39	59	42	30	21	14
7	13	15	30	58	21	72	454	55	37	29	21	14
8	13	16	45	51	20	66	170	85	36	29	22	14
9	16	15	34	74	19	59	142	116	36	27	23	13
10	13	15	28	97	19	54	109	80	35	27	19	12
11	14	15	23	73	20	53	87	66	32	26	18	12
12	13	15	21	62	22	52	241	63	32	25	20	13
13	17	15	20	59	28	56	789	98	86	24	17	14
14	16	15	250	48	78	57	187	149	69	24	17	17
15	15	15	330	32	106	53	139	142	107	27	18	15
16	17	15	109	29	61	55	497	102	92	26	17	14
17	14	15	65	32	50	59	210	81	57	25	17	13
18	14	15	50	37	50	54	136	69	47	23	16	14
19	14	16	44	48	40	48	114	60	43	24	17	14
20	14	16	45	47	36	46	223	56	44	23	16	14
21	15	15	43	47	38	46	292	52	74	22	16	13
22	22	15	38	64	38	49	669	50	43	21	16	13
23	19	15	36	61	37	46	252	47	38	20	26	50
24	21	16	34	55	37	44	163	44	37	20	17	56
25	21	15	32	48	36	43	125	42	35	20	16	37
26	20	15	32	35	44	40	106	39	34	20	16	81
27	19	16	31	29	37	42	94	37	32	22	14	66
28	18	16	30	26	40	40	86	35	33	20	15	43
29	17	17	29	25	46	42	82	36	138	19	15	78
30	15	17	404	24	------	40	78	126	86	19	14	145
31	15	------	135	24	------	39	------	89	------	18	14	------
TOTAL	487	468	2,040	1,657	1,060	2,540	5,676	2,209	1,580	794	598	861
MEAN	15.7	15.6	65.8	53.5	36.6	81.9	189	71.3	52.7	25.6	19.3	28.7
MAX	22	17	404	97	106	679	789	149	138	47	50	145
MIN	13	15	16	24	19	39	37	35	32	18	14	12
CFSM	.27	.27	1.12	.91	.62	1.40	3.22	1.21	.90	.44	.33	.49
IN.	.31	.30	1.29	1.05	.67	1.61	3.60	1.40	1.00	.50	.38	.55

CAL YR 1971 TOTAL 18,060 MEAN 49.5 MAX 1,050 MIN 11 CFSM .84 IN 11.45
WTR YR 1972 TOTAL 19,970 MEAN 54.6 MAX 789 MIN 12 CFSM .93 IN 12.66

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1100	7.56	1,170	04-13	0315	9.91	1,920
03-02	0830	7.49	1,150	04-16	1245	6.94	982
04-07	0900	7.11	1,030	04-22	0500	7.87	1,260

NOTE.—No gage-height record Nov. 9 to Dec. 15.

03274950 Little Williams Creek at Connersville, Ind.

LOCATION.—Lat 39°38'16", long 85°10'20", in SW 1/4 NE 1/4 sec.27, T.14 N., R.12 E., Fayette County, on downstream right bank wingwall of bridge on State Highway 44, 1 mile west of Connersville, and 2.6 miles upstream from mouth.

DRAINAGE AREA.—8.62 sq mi.

PERIOD OF RECORD.—September 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 842.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 332 cfs Apr. 16 (gage height, 5.05 ft); minimum daily, 0.46 cfs Oct. 7, 8, Sept. 1. Period of record: Maximum discharge, 684 cfs Apr. 2, 1970 (gage height, 7.82 ft); minimum daily, 0.46 cfs Aug. 30 to Sept. 1, Sept. 16-19, 24, Oct. 7, 8, 1971, Sept. 1, 1972.

REMARKS.—Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.1	1.8	8.6	3.0	14	4.6	12	12	4.1	.60	.46
2	.70	1.4	2.4	10	3.1	27	5.1	12	9.7	3.9	.58	.58
3	.70	1.3	2.1	7.9	3.0	13	5.6	11	8.2	4.4	1.0	.70
4	.70	1.1	1.5	10	2.7	10	7.5	10	7.5	3.9	.80	.84
5	.58	1.1	1.7	8.6	2.6	7.2	5.9	9.7	6.8	3.9	.65	.98
6	.58	1.3	4.4	7.9	3.0	5.9	5.6	9.3	8.2	3.5	.60	.84
7	.46	1.4	9.0	6.5	2.6	6.8	84	9.0	6.5	3.3	1.1	.70
8	.46	1.3	5.1	5.9	2.2	6.2	29	17	6.2	3.1	.80	.84
9	1.3	1.4	3.7	10	2.0	5.1	19	19	6.5	3.1	.70	.98
10	.98	1.5	3.5	10	1.9	4.6	14	13	5.9	3.1	.65	.84
11	.70	1.4	3.3	8.2	2.3	4.9	11	12	5.4	2.9	.60	.84
12	.58	1.3	2.9	7.2	3.9	4.6	10	10	5.4	3.1	1.3	.98
13	1.3	1.3	2.9	7.2	7.5	6.2	10	18	19	2.6	1.0	.84
14	2.1	1.1	36	4.1	15	5.9	8.2	24	9.3	2.3	.80	1.1
15	1.1	1.1	24	3.5	12	5.4	8.6	25	17	2.0	.70	.98
16	1.8	.98	11	3.0	8.6	8.6	93	23	12	2.2	.84	.98
17	1.3	.98	6.8	4.0	7.5	12	30	17	7.9	2.0	.70	.84
18	1.1	.98	5.1	7.5	7.5	8.2	23	14	6.5	1.8	.70	.70
19	.98	1.4	4.9	6.8	5.4	6.5	20	13	5.9	1.5	.84	.70
20	.84	1.4	6.8	6.2	6.5	5.9	24	12	5.6	1.3	.98	.70
21	.98	1.4	5.4	5.6	6.2	5.9	36	11	5.1	1.2	.98	.58
22	2.9	1.3	4.4	7.2	5.6	6.8	41	10	4.6	1.1	.98	.70
23	2.4	1.1	4.6	6.2	5.4	5.4	25	9.3	4.4	1.0	.98	2.0
24	7.2	1.4	4.4	5.9	5.6	4.9	20	8.6	4.6	.90	.84	1.4
25	3.1	1.4	4.1	4.4	5.4	4.6	16	8.2	4.4	1.0	.84	2.0
26	2.1	1.4	4.6	3.5	5.9	4.6	14	7.5	4.1	1.0	.70	3.9
27	1.7	2.4	4.4	2.9	5.6	4.9	14	7.2	3.9	1.4	.70	2.1
28	1.5	1.8	4.6	2.6	5.9	4.6	13	6.8	3.9	1.1	.84	2.0
29	1.4	2.3	4.1	2.4	6.5	5.1	13	8.2	12	.80	.70	3.3
30	1.3	2.4	30	2.3	------	4.6	14	34	5.4	.70	.58	4.1
31	1.3	------	12	2.3	------	4.4	------	20	------	.65	.58	------
TOTAL	44.84	41.74	221.5	188.4	154.4	223.8	624.1	420.8	223.9	68.85	24.66	38.50
MEAN	1.45	1.39	7.15	6.08	5.32	7.22	20.8	13.6	7.46	2.22	.80	1.28
MAX	7.2	2.4	36	10	15	27	93	34	19	4.4	1.3	4.1
MIN	.46	.98	1.5	2.3	1.9	4.4	4.6	6.8	3.9	.65	.58	.46
CFSM	.17	.16	.83	.71	.62	.84	2.41	1.58	.87	.26	.09	.15
IN.	.19	.18	.96	.81	.67	.97	2.69	1.82	.97	.30	.11	.17

CAL YR 1971 TOTAL 2,867.51 MEAN 7.86 MAX 212 MIN .46 CFSM .91 IN 12.37
WTR YR 1972 TOTAL 2,275.49 MEAN 6.22 MAX 93 MIN .46 CFSM .72 IN 9.82

PEAK DISCHARGE (BASE, 180 CFS).—Apr. 7 (0600) 254 cfs (4.56 ft). Apr. 16 (0915) 332 cfs (5.05 ft).

NOTE.—No gage-height record July 16 to Aug. 14.

03275000 Whitewater River near Alpine, Ind.

LOCATION.—Lat 39°34'23", long 85°09'27", in SW 1/4 SE 1/4 sec.14, T.13 N., R.12 E., Fayette County, on right bank 500 ft downstream from highway bridge, 0.4 mile downstream from Wilson Creek, 1.6 miles northeast of Alpine, and 4.7 miles upstream from Bear Creek.

DRAINAGE AREA.—529 sq mi.

PERIOD OF RECORD.—October 1928 to current year. Prior to October 1936, published as West Fork Whitewater River near Alpine.

GAGE.—Water-stage recorder. Datum of gage is 750.19 ft above mean sea level. Prior to Nov. 9, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—44 years, 531 cfs (13.63 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,240 cfs Apr. 22 (gage height, 9.60 ft); minimum daily, 85 cfs Oct. 6, 7.
Period of record: Maximum discharge, 37,100 cfs Jan. 14, 1937 (gage height, 16.61 ft); minimum daily, 30 cfs Aug. 6, 1934.

REMARKS.—Records poor.

REVISIONS (WATER YEARS).—WSP 1143: 1943-44(M), 1947(M). WSP 1335: 1929-30, 1932(M), 1938, 1946-47(m), 1949-50. WSP 1505: 1942(P). WSP 1908: 1937(M), 1944, 1949(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	110	116	1,040	190	390	296	728	851	347	150	104
2	89	111	114	710	190	3,080	296	620	646	295	146	102
3	89	110	114	650	185	2,670	292	566	552	279	154	126
4	88	111	112	610	180	1,280	311	530	500	263	158	120
5	87	108	110	740	175	845	300	494	458	250	154	114
6	85	108	128	557	170	626	291	470	458	238	147	110
7	85	108	172	485	165	554	3,100	446	445	228	149	106
8	86	108	234	415	160	512	2,520	542	421	216	141	106
9	92	108	201	482	150	430	1,700	767	413	206	142	102
10	90	110	183	775	150	395	1,160	644	403	198	145	98
11	89	108	178	703	160	374	824	547	390	195	138	98
12	89	108	165	541	170	366	656	500	382	196	135	98
13	93	106	158	472	200	382	3,500	564	470	192	133	100
14	102	104	1,250	350	282	425	1,660	923	716	189	127	102
15	99	104	2,100	270	685	415	1,110	1,180	740	191	127	104
16	98	108	1,640	220	612	430	3,500	960	1,250	206	126	102
17	95	106	824	250	423	518	3,070	754	682	195	121	98
18	95	106	590	300	394	488	1,450	638	537	187	118	98
19	95	110	482	349	310	415	984	566	469	179	120	98
20	93	110	458	338	290	382	1,470	506	432	175	123	98
21	92	106	420	335	321	370	1,630	476	422	173	118	96
22	111	108	395	340	317	378	4,820	452	391	167	118	96
23	113	108	366	426	302	362	2,600	430	361	165	116	104
24	138	110	350	418	304	342	1,620	415	346	167	120	195
25	132	106	330	382	296	330	1,140	405	336	164	118	287
26	123	106	319	270	299	322	880	399	321	161	114	290
27	120	110	315	230	310	318	761	387	309	181	110	401
28	119	112	307	210	308	318	680	377	294	160	112	340
29	115	114	295	200	321	314	638	379	342	156	112	309
30	112	118	1,030	190	------	314	686	1,060	500	152	108	553
31	110	------	1,920	190	------	303	------	1,530	------	149	106	------
TOTAL	3,116	3,260	15,376	13,448	8,019	18,648	43,945	19,255	14,837	6,220	4,006	4,755
MEAN	101	109	496	434	277	602	1,465	621	495	201	129	159
MAX	138	118	2,100	1,040	685	3,080	4,820	1,530	1,250	347	158	553
MIN	85	104	110	190	150	303	291	377	294	149	106	96
CFSM	.19	.21	.94	.82	.52	1.14	2.77	1.17	.94	.38	.24	.30
IN.	.22	.23	1.08	.95	.56	1.31	3.09	1.35	1.04	.44	.28	.33

CAL YR 1971 TOTAL 150,475 MEAN 412 MAX 8,640 MIN 85 CFSM .78 IN 10.58
WTR YR 1972 TOTAL 154,885 MEAN 423 MAX 4,820 MIN 85 CFSM .80 IN 10.89

PEAK DISCHARGE (BASE, 6,500 CFS).—No peak above base.

03275000 Whitewater River near Alpine, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB. 24...	1530	1.0	307	71	59
SEP. 27...	1000	19.0	466	170	214

03275500 East Fork Whitewater River at Richmond, Ind.

LOCATION.—Lat 39°48'24", long 84°54'26", in NW 1/4 SW 1/4 sec.8, T.13 N., R.1 W., Wayne County, on left bank 50 ft downstream from highway bridge, 0.8 mile south of Richmond, and 2 miles upstream from Short Creek.

DRAINAGE AREA.—121 sq mi.

PERIOD OF RECORD.—April 1949 to current year.

GAGE.—Water-stage recorder. Datum of gage is 854.01 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 27, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—23 years, 115 cfs (12.91 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,750 cfs Apr. 13 (gage height, 7.33 ft); minimum daily, 9.6 cfs Sept. 11. Period of record: Maximum discharge, 15,000 cfs July 20, 1969 (gage height, 12.68 ft), from rating curve extended above 5,000 cfs on basis of contracted-opening measurement of peak flow at stage of 12.44 ft; minimum daily, 1.2 cfs Aug. 1, 1954. Flood in March 1913 reached a stage of 15.0 ft (discharge not determined), from floodmarks.

REMARKS.—Records fair. Some regulation at low flow by powerplant upstream from station. During periods of low flow, the city of Richmond diverts a small amount of water for municipal supply which is returned at the sewage plant below the gage.

REVISIONS (WATER YEARS).—WSP 1235: 1951. WSP 1908: Drainage area, 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	17	141	40	152	62	192	138	40	17	12
2	13	15	17	134	41	722	62	138	100	39	25	12
3	13	15	16	124	50	350	62	115	85	39	23	27
4	12	15	16	134	40	189	70	103	75	38	19	16
5	13	15	16	145	37	138	62	95	64	36	17	14
6	13	15	45	103	36	103	64	90	72	32	19	13
7	12	15	45	90	34	100	770	92	62	30	17	11
8	12	14	42	77	33	106	385	170	54	29	17	11
9	25	14	33	106	31	90	304	288	52	27	17	13
10	16	14	36	185	30	80	232	173	52	28	17	11
11	14	15	28	138	32	75	170	127	46	27	15	9.6
12	13	15	25	109	34	77	460	112	45	30	20	18
13	38	16	23	97	40	97	1,600	134	152	26	17	18
14	26	15	192	70	58	145	385	228	232	22	15	23
15	19	15	220	46	177	115	268	340	155	62	14	17
16	46	15	155	46	138	121	812	272	232	48	14	17
17	20	16	134	47	97	166	510	185	131	35	13	15
18	17	15	97	49	100	138	292	148	97	30	12	20
19	16	20	80	52	82	106	228	124	75	28	28	14
20	15	16	82	60	60	92	304	109	64	24	19	11
21	16	15	77	60	64	92	340	103	58	23	15	11
22	23	15	66	75	62	112	950	97	52	23	15	13
23	17	14	58	87	56	103	395	90	51	21	14	52
24	25	15	56	80	58	90	276	87	51	20	13	46
25	20	15	51	72	54	85	212	80	51	19	12	32
26	17	14	51	52	58	80	166	70	48	19	13	49
27	17	21	49	47	56	77	141	62	45	20	13	32
28	17	16	43	45	58	75	124	54	42	19	13	24
29	17	19	43	44	70	72	118	56	46	18	12	29
30	16	19	330	41	------	70	159	200	46	18	11	49
31	15	------	280	40	------	64	------	240	------	17	10	------
TOTAL	566	467	2,423	2,596	1,726	4,082	9,983	4,374	2,473	887	496	639.6
MEAN	18.3	15.6	78.2	83.7	59.5	132	333	141	82.4	28.6	16.0	21.3
MAX	46	21	330	185	177	722	1,600	340	232	62	28	52
MIN	12	14	16	40	30	64	62	54	42	17	10	9.6
CFSM	.15	.13	.65	.69	.49	1.09	2.75	1.17	.68	.24	.13	.18
IN.	.17	.14	.74	.80	.53	1.25	3.07	1.34	.76	.27	.15	.20

CAL YR 1971 TOTAL 26,274.3 MEAN 72.0 MAX 1,660 MIN 8.3 CFSM .60 IN 8.08
WTR YR 1972 TOTAL 30,712.6 MEAN 83.9 MAX 1,600 MIN 9.6 CFSM .69 IN 9.44

PEAK DISCHARGE (BASE, 2,000 CFS).--Apr. 13 (0045) 3,750 cfs (7.33 ft).

03275600 East Fork Whitewater River at Abington, Ind.

LOCATION.—Lat 39°43'57", long 84°57'35", in NE 1/4 SW 1/4 sec.2, T.12 N., R.2 W., Union County, at downstream side of center pier of bridge on county road at Abington, 3 miles downstream from Elkhorn Creek, and 8 miles southwest of Richmond.

DRAINAGE AREA.—200 sq mi.

PERIOD OF RECORD.—October 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 791.00 ft above mean sea level.

AVERAGE DISCHARGE.—7 years, 217 cfs (14.73 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,600 cfs Apr. 13 (gage height, 11.49 ft); minimum daily, 26 cfs Aug. 31, Sept. 10, 11, 21.
Period of record: Maximum discharge, 13,400 cfs July 20, 1969 (gage height, 16.18 ft); minimum daily, 21 cfs Aug. 8, Sept. 12, 1966.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 2108: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	35	46	325	89	361	120	385	278	75	36	29
2	30	36	44	303	89	1,450	117	274	195	68	41	35
3	29	36	42	270	88	683	117	218	159	75	53	80
4	29	35	42	286	75	426	146	191	136	68	44	40
5	29	34	41	312	80	307	120	172	120	67	37	34
6	30	35	91	230	82	230	117	162	139	62	39	31
7	29	37	119	202	70	222	1,740	155	117	59	40	30
8	29	34	98	168	64	230	883	338	102	56	38	30
9	41	35	76	230	62	188	677	575	98	55	37	29
10	33	35	79	375	70	165	520	338	96	55	36	26
11	31	35	77	295	73	155	400	250	82	53	35	26
12	30	35	63	230	75	155	677	210	80	53	44	29
13	47	36	61	202	91	206	3,020	282	343	50	36	39
14	83	35	582	155	136	295	737	465	385	47	34	40
15	37	36	644	102	400	242	498	701	343	109	36	36
16	69	36	422	104	312	254	1,780	547	385	87	35	32
17	43	35	309	104	218	370	1,020	370	222	65	33	30
18	38	36	213	125	222	299	564	291	159	56	31	35
19	36	46	169	136	178	230	437	242	130	52	56	33
20	35	41	196	120	136	195	564	202	117	48	44	29
21	35	39	169	120	139	185	683	178	106	45	35	26
22	46	37	141	155	136	254	1,810	165	98	44	34	27
23	40	37	121	175	125	210	755	149	89	41	34	68
24	53	38	115	165	128	182	509	139	87	41	32	83
25	46	38	102	152	120	168	385	128	85	44	30	68
26	41	37	104	111	125	155	312	114	82	40	30	85
27	39	50	102	100	120	152	270	102	77	40	29	61
28	38	43	99	100	125	146	238	93	73	39	29	50
29	37	49	86	90	149	146	226	109	96	38	29	58
30	36	52	641	80	------	136	325	481	89	36	28	89
31	35	------	591	85	------	122	------	487	------	35	26	------
TOTAL	1,185	1,143	5,685	5,607	3,777	8,519	19,767	8,513	4,568	1,703	1,121	1,308
MEAN	38.2	38.1	183	181	130	275	659	275	152	54.9	36.2	43.6
MAX	69	52	644	375	400	1,450	3,020	701	385	109	56	89
MIN	29	34	41	80	62	122	117	93	73	35	26	26
CFSM	.19	.19	.92	.91	.65	1.38	3.30	1.38	.76	.27	.18	.22
IN.	.22	.21	1.06	1.04	.70	1.58	3.68	1.58	.85	.32	.21	.24

CAL YR 1971 TOTAL 60,119 MEAN 165 MAX 4,190 MIN 26 CFSM .83 IN 11.18
WTR YR 1972 TOTAL 62,896 MEAN 172 MAX 3,020 MIN 26 CFSM .86 IN 11.70

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	1400	7.97	2,680	04-16	1630	8.33	3,010
04-13	0315	11.49	6,600	04-22	0515	8.05	2,740

03275600 East Fork Whitewater River at Abington, Ind.—Continued

PERIOD OF RECORD.—Chemical analyses: October 1969 to September 1972.
Water temperatures: August 1970 to September 1971.
Sediment records: April 1967 to September 1972 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	AIR TEMP-ERATURE (DEG C)	TEMP-ERATURE (DEG C)	PH (UNITS)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV. 10...	0920	35	3.5	6.0	7.8	750	7	457	460	340	68
DEC. 14...	1220	920	5.0	4.5	8.5	449	50	288	278	230	64
JAN. 13...	1310	204	-2.0	4.0	7.9	671	10	430	409	350	97
FEB. 14...	1515	91	6.0	5.0	9.1	750	10	472	445	330	83
MAR. 20...	1200	192	15.0	10.0	9.0	666	5	418	403	350	100
APR. 24...	1530	480	14.0	12.0	8.6	586	10	356	348	300	82
MAY 30...	1230	1020	20.0	18.0	6.3	420	20	266	244	200	49
JULY 10...	1200	54	28.0	22.0	7.5	720	10	486	434	340	100
AUG. 07...	1115	39	27.0	22.0	8.2	728	7	441	437	330	78
SEP. 11...	1500	24	30.0	23.0	9.1	768	10	452	463	340	86

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	CARBON DIOXIDE (CO2) (MG/L)
NOV. 10...	67	49	.8	19	43.2	.62	272	18	.8	--
DEC. 14...	48	21	.2	10	715	.39	162	10	.3	1.0
JAN. 13...	65	29	.3	24	237	.58	253	7	.3	--
FEB. 14...	65	64	.4	11	116	.64	248	19	.9	.4
MAR. 20...	61	28	.4	25	217	.57	251	8	.3	.5
APR. 24...	52	20	.3	21	461	.48	221	6	.2	1.1
MAY 30...	37	20	.3	9.5	733	.36	149	11	.3	146
JULY 10...	84	46	.7	11	70.9	.66	238	14	.6	--
AUG. 07...	68	49	1.0	16	46.4	.60	249	17	.8	3.1
SEP. 11...	70	56	1.2	16	29.3	.61	256	19	.9	.4

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 10...	5.9	80	40	25	25	87	34	30	4.5	332	0
DEC. 14...	5.6	2600	360	380	54	58	12	20	5.6	198	0
JAN. 13...	4.6	150	30	48	40	89	13	31	2.4	308	0
FEB. 14...	3.5	120	80	25	25	83	37	30	3.2	302	0
MAR. 20...	3.0	120	110	83	78	85	14	34	2.5	306	0
APR. 24...	8.0	290	40	64	48	72	9.7	30	2.5	270	0
MAY 30...	4.4	550	190	140	52	53	11	16	3.2	182	0
JULY 10...	6.1	120	120	51	50	79	26	34	4.0	290	0
AUG. 07...	6.9	180	30	80	60	77	32	33	5.4	304	0
SEP. 11...	7.0	200	130	120	44	81	38	34	6.4	312	0

03275600 East Fork Whitewater River at Abington, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
DEC. 14...	1450	4.5	1520	1220	5010	41	55
FEB. 14...	1500	5.0	91	12	2.9	--	--
MAR. 20...	1200	10.0	192	16	8.3	--	--
APR. 24...	1710	12.0	480	46	60	--	--
JULY 10...	1210	22.0	54	11	1.6	--	--
AUG. 07...	1210	22.0	39	89	9.4	--	--
SEP. 11...	1540	23.0	24	5	.32	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC. 14...	65	78	90	94	97	99	100
FEB. 14...	--	--	--	--	--	--	--
MAR. 20...	--	--	--	--	--	--	--
APR. 24...	--	--	--	--	--	--	--
JULY 10...	--	--	--	--	--	--	--
AUG. 07...	--	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	--

03276000 East Fork Whitewater River at Brookville, Ind.

LOCATION.—Lat 39°26'02", long 85°00'12", in NE 1/4 NE 1/4 sec.20, T.9 N., R.2 W., Franklin County, on right bank 100 ft upstream from bridge on State Highway 101, 1.4 miles northeast of Brookville, and 1.8 miles upstream from mouth.

DRAINAGE AREA.—380 sq mi.

PERIOD OF RECORD.—March 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 621.76 ft above mean sea level. Prior to May 22, 1954, nonrecording gage at site 100 ft downstream at datum 2.00 ft higher. May 22, 1954, to Aug. 20, 1965, water-stage recorder at site 165 ft downstream at datum 2.00 ft higher.

AVERAGE DISCHARGE.—18 years, 372 cfs (13.30 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,000 cfs Apr. 16 (gage height, 7.20 ft); minimum daily, 34 cfs Sept. 1.
Period of record: Maximum discharge, 36,100 cfs Jan. 21, 1959; maximum gage height, 17.35 ft May 24, 1968; minimum daily discharge, 17 cfs Sept. 11, 1964.

REMARKS.—Records good. Flow regulated at times by Brookville Lake, under construction.

REVISIONS (WATER YEARS).—WSP 1555: 1954(M), 1955(P). WSP 1908: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	53	85	556	130	771	248	694	556	132	58	34
2	51	53	75	472	130	2,610	243	514	406	118	58	49
3	49	51	70	412	125	1,710	238	412	330	122	70	71
4	45	49	68	418	120	980	270	360	290	122	73	96
5	43	48	67	490	120	708	252	325	256	112	65	58
6	43	49	103	370	115	490	238	295	256	105	61	51
7	43	49	229	335	110	466	2,940	280	256	87	63	47
8	43	50	226	285	105	448	2,270	526	225	102	60	45
9	49	47	182	340	100	376	1,550	1,190	212	96	57	47
10	76	49	165	472	100	345	1,130	771	212	99	55	47
11	63	49	176	448	105	330	908	563	200	89	54	47
12	53	50	155	355	115	320	771	478	167	88	56	45
13	53	50	143	320	130	325	3,080	582	243	86	61	47
14	105	49	634	266	234	454	1,460	860	634	80	53	56
15	96	48	1,250	200	596	418	1,270	1,560	394	79	51	58
16	81	47	819	170	502	448	3,650	1,240	674	139	52	53
17	122	47	506	190	345	622	2,730	836	350	110	49	53
18	84	46	367	220	330	570	1,280	667	230	96	46	49
19	70	53	308	261	221	436	900	544	187	86	52	53
20	63	66	313	252	210	376	1,020	460	163	80	84	53
21	56	60	295	230	220	350	1,230	412	155	76	61	49
22	63	55	262	225	243	418	2,960	365	136	72	56	45
23	87	52	236	266	217	388	1,710	335	126	75	53	47
24	87	52	227	275	225	340	1,050	305	118	70	49	109
25	115	53	212	256	208	320	757	285	112	71	46	127
26	90	52	204	204	243	305	628	256	115	66	44	103
27	78	57	199	160	221	295	538	243	126	136	43	120
28	70	79	196	150	225	285	478	225	118	69	39	92
29	60	75	182	135	243	280	436	221	143	62	38	85
30	58	88	1,280	130	------	275	436	478	167	61	37	111
31	56	------	1,080	130	------	252	------	916	------	58	35	------
TOTAL	2,105	1,626	10,314	8,993	5,988	16,711	36,671	17,198	7,557	2,844	1,679	1,947
MEAN	67.9	54.2	333	290	206	539	1,222	555	252	91.7	54.2	64.9
MAX	122	88	1,280	556	596	2,610	3,650	1,560	674	139	84	127
MIN	43	46	67	130	100	252	238	221	112	58	35	34
CFSM	.18	.14	.88	.76	.54	1.42	3.22	1.46	.66	.24	.14	.17
IN.	.21	.16	1.01	.88	.59	1.64	3.59	1.68	.74	.28	.16	.19

CAL YR 1971 TOTAL 112,780 MEAN 309 MAX 7,670 MIN 25 CFSM .81 IN 11.04
WTR YR 1972 TOTAL 113,633 MEAN 310 MAX 3,650 MIN 34 CFSM .82 IN 11.12

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	1815	7.07	4,770	04-16	1300	7.20	5,000
04-13	1430	7.10	4,820				

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE 1/4 NW 1/4 sec.32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mile downstream from East Fork Whitewater River, and 1.1 miles south of Brookville.

DRAINAGE AREA.—1,224 sq mi.

PERIOD OF RECORD.—June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—51 years (1915-17, 1923-72), 1,247 cfs (13.84 inches per year).

EXTREMES.—Current year: Maximum discharge, 17,600 cfs Apr. 16 (gage height, 12.92 ft); minimum daily, 140 cfs Sept. 22.
Period of record: Maximum discharge, 81,800 cfs Jan. 21, 1959 (gage height, 27.78 ft), from rating curve extended above 45,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 60 cfs July 27, 1934.
Flood of Mar. 25, 1913, reached a stage of 39.0 ft, present datum, from floodmarks (discharge not determined).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(m), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	256	320	2,150	470	2,450	686	1,850	1,790	649	205	145
2	205	250	286	1,790	460	7,390	668	1,560	1,290	509	200	155
3	195	250	268	1,590	450	5,310	660	1,340	1,040	465	205	170
4	188	235	265	1,560	440	2,930	769	1,210	895	448	229	241
5	178	232	256	1,870	430	2,170	720	1,100	798	423	223	182
6	178	232	510	1,460	420	1,620	673	1,010	765	393	218	162
7	172	235	1,190	1,340	400	1,480	7,150	958	789	373	215	155
8	172	229	1,050	1,170	390	1,450	6,880	1,240	688	362	212	158
9	180	223	793	1,450	370	1,230	3,970	3,290	648	348	205	152
10	210	220	683	1,800	370	1,110	2,920	1,910	644	349	198	150
11	198	218	737	1,720	380	1,030	2,340	1,440	602	339	195	148
12	188	215	611	1,420	400	991	2,110	1,230	556	330	195	142
13	195	210	550	1,260	460	995	7,850	1,590	573	323	198	145
14	262	208	2,840	900	702	1,280	4,320	2,410	1,260	317	192	158
15	271	202	4,540	700	1,950	1,190	3,660	3,360	1,060	313	185	160
16	265	202	3,450	580	1,660	1,520	13,100	3,590	1,870	347	185	155
17	301	202	2,010	670	1,190	1,810	7,480	2,260	1,340	352	182	152
18	259	200	1,430	770	1,140	1,510	3,930	1,790	958	330	178	148
19	241	215	1,160	888	800	1,270	2,860	1,490	793	312	180	148
20	238	256	1,140	841	700	1,120	3,350	1,280	702	299	213	150
21	232	235	1,070	838	750	1,040	4,310	1,140	653	293	192	145
22	220	223	926	822	798	1,180	7,990	1,040	623	289	180	140
23	462	215	835	949	694	1,120	5,580	934	565	286	178	142
24	457	218	786	995	734	982	3,540	853	530	286	172	215
25	611	218	730	913	693	910	2,620	795	510	285	170	328
26	439	215	695	660	898	860	2,140	736	495	281	165	342
27	373	235	677	580	818	830	1,850	690	470	353	162	398
28	328	289	665	520	811	813	1,640	647	448	279	158	442
29	295	289	623	490	857	784	1,500	632	470	232	155	382
30	280	345	5,210	470	------	779	1,520	1,180	606	218	152	460
31	271	------	4,060	460	------	715	------	2,630	------	212	150	------
TOTAL	8,382	6,972	40,366	33,626	20,635	49,869	108,786	47,185	24,431	10,595	5,847	6,170
MEAN	270	232	1,302	1,085	712	1,609	3,626	1,522	814	342	189	206
MAX	611	345	5,210	2,150	1,950	7,390	13,100	3,590	1,870	649	229	460
MIN	172	200	256	460	370	715	660	632	448	212	150	140
CFSM	.22	.19	1.06	.89	.58	1.31	2.96	1.24	.67	.28	.15	.17
IN.	.25	.21	1.23	1.02	.63	1.52	3.31	1.43	.74	.32	.18	.19

CAL YR 1971 TOTAL 375,349 MEAN 1,028 MAX 20,900 MIN 148 CFSM .84 IN 11.41
WTR YR 1972 TOTAL 362,864 MEAN 991 MAX 13,100 MIN 140 CFSM .81 IN 11.03

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	2200	10.74	14,100	04-16	1500	12.92	17,600
04-13	1600	10.21	13,400				

03276700 South Hogan Creek near Dillsboro, Ind.
(Hydrologic bench-mark station)

LOCATION.—Lat 39°01'47", long 85°02'17", in SW 1/4 NW 1/4 sec.7, T.4 N., R.2 W., Dearborn County, on left downstream abutment of bridge on county road at Dillsboro Station, 1.2 miles northeast of Dillsboro, and 1.5 miles downstream from Whitaker Creek.

DRAINAGE AREA.—38.1 sq mi (revised).

PERIOD OF RECORD.—July 1961 to current year. Occasional low-flow measurements, water year 1960.

GAGE.—Water-stage recorder. Datum of gage is 571.00 ft above mean sea level.

AVERAGE DISCHARGE.—11 years, 36.1 cfs (12.87 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,850 cfs Apr. 16 (gage height, 7.97 ft); no flow for many days.
Period of record: Maximum discharge, 13,000 cfs Apr. 29, 1970 (gage height, 12.7 ft, from floodmark); no flow at times most years.
Flood of Jan. 21, 1959, reached a stage of 14.00 ft (discharge, 16,300 cfs, computed from contracted-opening).

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	4.2	13	36	8.0	243	22	21	35	.74	.32	0
2	5.6	4.3	9.9	51	9.C	440	20	20	18	.63	.26	0
3	4.7	4.2	8.3	55	1C	106	21	16	12	.74	.20	.74
4	4.0	4.0	7.9	52	7.5	78	218	12	7.6	.52	50	.03
5	3.4	3.6	7.4	52	8.C	52	61	11	5.4	.52	12	0
6	2.9	3.6	172	53	8.C	40	43	11	9.6	.52	3.2	0
7	2.8	4.3	318	39	5.6	39	770	10	11	.42	2.2	0
8	2.5	4.5	93	33	6.C	46	203	538	4.7	.26	1.4	0
9	2.9	4.2	47	295	6.6	30	80	268	5.1	.15	1.1	0
10	4.7	4.2	37	125	7.C	25	57	75	4.9	.08	.63	0
11	4.2	4.2	33	69	8.0	24	45	37	4.9	1.0	.42	0
12	3.2	4.2	24	42	9.6	22	111	27	3.4	1.7	.27	0
13	2.9	4.2	19	36	24	27	698	162	2.9	.20	.15	0
14	4.3	4.0	36	25	81	34	130	119	2.6	.24	.08	0
15	5.9	3.8	195	14	192	30	339	58	2.5	1.3	.04	0
16	4.9	4.0	80	8.0	68	315	1,290	90	2.3	.74	.02	0
17	3.9	3.8	36	9.0	62	99	142	40	1.8	.52	.01	0
18	3.2	3.8	24	14	65	60	71	30	1.5	.26	0	0
19	3.1	4.5	22	17	40	39	79	22	1.3	.20	0	0
20	3.1	5.9	46	18	48	26	240	18	1.0	.10	0	0
21	2.9	5.6	39	18	33	33	245	15	.87	.08	.01	0
22	3.8	4.9	26	17	39	210	210	11	.87	.02	0	0
23	8.3	4.3	22	22	34	69	80	9.6	.87	.01	0	0
24	12	4.2	20	22	102	45	52	7.6	.87	57	0	31
25	17	4.2	17	18	64	35	38	6.6	.52	39	0	46
26	10	4.2	17	11	116	30	30	5.4	.63	5.4	0	7.9
27	7.6	4.7	16	9.0	55	30	25	4.5	.52	2.9	0	4.7
28	6.1	5.9	15	7.0	51	27	21	4.2	.42	1.7	0	3.0
29	5.1	17	13	6.0	51	32	20	4.3	.74	1.3	C	7.6
30	4.7	22	144	5.5	------	27	23	305	.74	.87	0	15
31	4.3	------	78	6.5	------	23	------	132	------	.52	0	------
TOTAL	161.0	160.5	1,635.5	1,185.0	1,222.3	2,336	5,384	2,090.2	144.55	119.64	72.31	115.97
MEAN	5.19	5.35	52.8	38.2	42.1	75.4	179	67.4	4.82	3.86	2.33	3.87
MAX	17	22	318	295	192	440	1,290	538	35	57	50	46
MIN	2.5	3.6	7.4	5.5	5.6	22	20	4.2	.42	.01	0	0
CFSM	.14	.14	1.39	1.00	1.11	1.98	4.70	1.77	.13	.10	.06	.10
IN.	.16	.16	1.60	1.16	1.19	2.28	5.26	2.04	.14	.12	.07	.11

CAL YR 1971 TOTAL 12,411.08 MEAN 34.0 MAX 1,960 MIN .17 CFSM .89 IN 12.12
WTR YR 1972 TOTAL 14,626.97 MEAN 40.0 MAX 1,290 MIN 0 CFSM 1.05 IN 14.28

PEAK DISCHARGE (BASE, 2,500 CFS).—Apr. 7 (1515) 2,730 cfs (6.93 ft). Apr. 16 (0630) 3,850 cfs (7.97 ft).

03276700 South Hogan Creek near Dillsboro, Ind.—Continued

PERIOD OF RECORD.—Chemical analyses: October 1968 to September 1972.
Sediment records: August 1969 to September 1972 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
28...	1100	5.8	17.0	19.5	650	8.6	10	367	371	290	50
NOV.											
24...	1115	4.2	2.0	2.5	705	9.2	7	398	389	310	64
DEC.											
22...	1130	26	2.5	4.5	640	9.1	10	356	337	280	58
JAN.											
26...	1130	13	.0	-9.5	580	8.1	5	370	368	300	68
FER.											
24...	1100	119	1.0	3.0	580	9.4	20	319	294	220	58
MAR.											
21...	1115	27	9.0	20.0	550	8.6	5	348	332	290	81
APR.											
26...	1115	32	12.0	13.0	510	9.0	5	290	291	250	52
MAY											
18...	1115	30	18.5	25.0	460	8.9	9	278	265	220	47
JUNE											
22...	1115	.75	22.0	14.0	445	8.3	10	254	264	130	52
JULY											
21...	1030	.26	26.0	36.0	478	8.2	13	302	294	230	66
AUG.											
25...	1045	.01	27.5	30.0	460	7.3	5	265	257	210	38
SEP.											
22...	1100	.04	22.0	22.5	550	7.7	3	322	327	240	84

03276700 South Hogan Creek near Dillsboro, Ind.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.									%		
28...	.2	1.2	238	.2	--	.77	.25	9.0	93	3.4	440
NOV.											
24...	.2	.3	244	4.9	--	.45	.15	12.8	90	2.4	135
DEC.											
22...	.2	.3	220	3.8	--	.34	.11	13.8	101	3.4	163
JAN.											
26...	.2	3.6	230	3.8	--	.33	.11	13.2	90	2.2	--
FEB.											
24...	.2	.1	164	6.2	--	.46	.15	13.6	--	3.6	2200
MAR.											
21...	.2	--	205	2.9	--	.28	.090	12.2	105	3.2	93
APR.											
26...	.2	--	195	2.1	--	.03	.010	11.8	109	2.8	3000
MAY											
18...	.3	--	177	1.6	--	.45	.15	9.0	95	4.0	700
JUNE											
22...	.2	1.5	156	.0	--	.09	.030	8.6	--	2.6	800
JULY											
21...	.3	--	161	.0	--	.33	.11	5.8	78	7.0	4200
AUG.											
25...	.3	17	170	.0	--	.69	.22	6.2	78	3.4	400
SEP.											
22...	.3	6.2	159	.0	.00	.40	.13	7.8	89	4.6	4530

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.											
28...	94	13	18	12	.5	5.0	7.4	100	40	61	28
NOV.											
24...	92	19	21	13	.5	5.1	.7	50	34	72	28
DEC.											
22...	85	16	11	8	.3	2.9	7.2	20	28	65	14
JAN.											
26...	93	16	14	9	.4	2.5	4.7	0	25	78	18
FEB.											
24...	71	11	16	13	.5	2.9	5.8	100	--	55	27
MAR.											
21...	85	18	11	8	.3	2.6	4.4	96	44	69	16
APR.											
26...	76	14	8.6	7	.2	1.9	5.3	40	26	58	8.0
MAY											
18...	70	12	7.8	7	.2	2.8	3.6	90	26	50	10
JUNE											
22...	62	13	12	11	.4	3.2	2.7	140	46	54	24
JULY											
21...	70	13	15	12	.4	4.0	6.2	80	9	68	21
AUG.											
25...	64	12	12	11	.4	4.7	4.3	20	83	43	14
SEP.											
22...	75	14	16	12	.4	6.0	2.0	2600	180	86	30

03276700 South Hogan Creek near Dillsboro, Ind.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
SEP. 22...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	CHLOR-DANE (UG/L)	DI-AZINON (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 22...	.00	.0	.00	.00	.00	.00	12

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)
SEP. 22...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<1.0

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
DEC. 17...	1310	7.0	35	51	4.8	--	--
FEB. 22...	1220	3.0	45	22	2.7	--	--
MAY 08...	1545	--	830	328	735	54	66

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC. 17...	--	--	--	--	--	--	--
FEB. 22...	--	--	--	--	--	--	--
MAY 08...	79	90	95	98	98	99	100

03277000 Laughery Creek near Farmers Retreat, Ind.

LOCATION.—Lat 38°57'08", long 85°04'15", in NW 1/4 SE 1/4 sec.2, T.4 N., R.3 W., Ohio County, on right bank 2.4 miles southeast of Farmers Retreat, and 3.8 miles downstream from Bear Creek.

DRAINAGE AREA.—248 sq mi.

PERIOD OF RECORD.—October 1940 to current year.

GAGE.—Water-stage recorder. Datum of gage is 528.54 ft above mean sea level (levels by Indiana Department of Natural Resources). Prior to Apr. 16, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—32 years, 266 cfs (14.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,150 cfs Apr. 16 (gage height, 10.50 ft); minimum daily, 0.16 cfs Aug. 30, 31, Sept. 1.
Period of record: Maximum discharge, 47,800 cfs Jan. 21, 1959 (gage height, 21.13 ft), from rating curve extended above 14,000 cfs on basis of slope-area measurement of peak flow; no flow at times in most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 973: 1942(M). WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	31	78	585	70	673	148	161	156	13	5.5	.16
2	40	28	85	417	68	3,820	135	161	97	13	4.2	.42
3	35	27	72	385	65	2,080	129	146	64	12	4.7	.83
4	30	24	61	453	78	757	385	128	42	10	34	.42
5	24	22	53	666	70	564	337	111	35	10	24	.28
6	24	19	288	528	60	417	259	94	32	14	15	.22
7	22	20	944	320	55	307	1,490	87	30	14	13	.19
8	19	24	839	252	50	312	4,440	1,190	30	11	9.5	.22
9	20	22	423	761	47	310	992	1,630	291	8.7	7.6	.22
10	22	20	266	1,060	45	242	534	823	94	10	6.1	.19
11	22	19	235	606	53	197	402	380	63	8.7	5.5	.25
12	20	19	240	399	62	182	660	254	36	177	5.2	.54
13	19	19	169	293	100	182	1,860	757	29	78	4.0	.69
14	19	19	141	200	228	194	1,500	1,070	29	35	3.4	.69
15	18	19	936	150	669	188	1,360	693	414	26	3.0	.69
16	26	19	1,130	130	810	1,110	5,100	657	144	24	2.3	.54
17	27	19	435	182	471	1,280	3,890	561	161	19	2.2	.42
18	31	17	238	133	411	657	810	339	107	16	2.3	.32
19	30	18	171	129	383	423	576	264	63	14	2.3	.30
20	29	21	194	123	254	299	1,310	199	39	11	2.3	.29
21	28	25	190	129	204	291	1,310	91	49	9.9	2.8	.28
22	25	21	192	123	228	673	2,570	88	55	9.5	2.3	.22
23	39	21	158	135	274	369	983	90	37	7.6	2.3	.19
24	209	22	133	150	480	299	546	78	35	63	1.6	3.0
25	137	22	121	148	361	230	383	59	28	84	.32	78
26	152	22	114	110	522	192	291	46	22	21	.28	28
27	109	22	106	94	459	182	233	41	17	20	.22	69
28	76	23	107	70	347	167	192	34	15	14	.22	63
29	57	34	99	62	310	171	169	32	15	10	.19	47
30	44	70	742	60	------	171	165	54	15	7.9	.16	123
31	37	------	2,460	64	------	165	------	264	------	6.7	.16	------
TOTAL	1,443	708	11,420	8,917	7,234	17,144	33,159	10,622	2,244	778.0	166.65	419.57
MEAN	46.5	23.6	368	288	249	553	1,105	343	74.8	25.1	5.38	14.0
MAX	209	70	2,460	1,060	810	3,820	5,100	1,630	414	177	34	123
MIN	18	17	53	60	45	165	129	32	15	6.7	.16	.16
CFSM	.19	.10	1.48	1.16	1.00	2.23	4.46	1.38	.30	.10	.02	.06
IN.	.22	.11	1.71	1.34	1.09	2.57	4.97	1.59	.34	.12	.02	.06

CAL YR 1971 TOTAL 76,934.50 MEAN 211 MAX 6,570 MIN 7.0 CFSM .85 IN 11.54
WTR YR 1972 TOTAL 94,255.22 MEAN 258 MAX 5,100 MIN .16 CFSM 1.04 IN 14.14

PEAK DISCHARGE (BASE, 6,000 CFS).—Apr. 16 (0645) 8,150 cfs (10.50 ft).

03291780 Indian-Kentuck Creek near Canaan, Ind.

LOCATION.—Lat 38°52'41", long 85°15'26", in SW 1/4 NW 1/4 sec.13, T.5 N., R.11 E., Jefferson County, on downstream end of left pier of bridge on State Highway 62, 1,500 ft upstream from Wilson Fork, and 2.0 miles northeast of Canaan.

DRAINAGE AREA.—27.5 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (from topographic map).

EXTREMES.—Current year: Maximum discharge, 1,320 cfs Apr. 16 (gage height, 7.49 ft), from rating curve extended above 600 cfs; minimum daily, no flow for many days.
Period of record: Maximum discharge, 3,210 cfs Feb. 22, 1971 (gage height, 11.02 ft), from rating curve extended above 600 cfs; no flow for many days in 1970, 1972.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.4	9.0	22	5.0	129	18	16	6.4	.45	.06	0
2	1.1	1.6	7.0	26	6.0	242	16	15	4.1	.40	.06	0
3	.96	2.3	6.0	26	6.5	112	15	13	2.8	.50	.09	0
4	.84	1.8	5.7	27	5.5	75	73	11	2.0	.40	36	0
5	.74	1.2	5.7	28	5.7	55	34	10	1.4	.35	3.7	0
6	.56	1.4	88	25	5.8	38	29	9.2	2.0	.18	.96	0
7	.48	1.8	170	23	4.5	34	177	8.4	2.3	.11	.56	0
8	.42	1.6	71	19	3.7	33	120	264	1.2	.07	.36	.03
9	.48	1.5	36	130	3.5	26	66	129	57	.04	.24	.03
10	.96	1.4	29	80	4.0	23	48	49	12	3.7	.20	0
11	1.1	1.3	25	53	4.5	21	36	31	5.0	2.8	.16	0
12	.96	1.2	18	38	7.0	20	143	24	2.8	.74	.12	0
13	.64	1.2	15	32	18	21	179	151	2.3	.56	.10	0
14	.64	1.1	17	20	52	22	97	112	4.1	.24	.08	.01
15	.56	1.1	86	11	159	20	203	69	3.1	.20	.07	.01
16	.56	1.0	46	6.0	79	236	469	43	2.3	3.1	.06	0
17	.56	1.0	25	14	59	115	143	31	1.2	.96	.05	0
18	.56	1.0	18	17	69	66	83	24	1.0	.42	.04	0
19	.42	1.9	14	17	37	42	88	19	.80	.22	.08	0
20	.36	1.7	28	16	33	33	240	16	.65	.16	.09	0
21	.36	1.5	20	15	28	38	180	13	.60	.12	.07	0
22	3.4	1.3	16	14	37	117	139	11	.55	.09	.06	0
23	13	1.2	14	16	37	63	78	8.8	.50	.07	.05	0
24	12	1.1	12	15	121	41	52	7.3	.40	.10	.04	21
25	11	1.3	11	12	72	32	36	6.0	.33	.10	.04	17
26	6.4	1.5	11	7.0	115	27	29	5.0	.38	.07	.04	3.7
27	4.7	2.0	10	5.4	60	27	23	3.7	.32	.08	.03	3.4
28	3.4	3.2	9.0	4.2	46	23	20	2.8	.27	.14	.03	2.3
29	2.5	6.0	8.0	3.7	36	26	19	2.5	.50	.12	.01	13
30	2.0	12	70	3.5	------	24	19	12	.50	.09	0	18
31	1.6	------	45	3.7	------	19	------	17	------	.07	0	------
TOTAL	74.86	59.6	945.4	729.5	1,119.7	1,800	2,872	1,133.7	118.80	16.65	43.45	78.48
MEAN	2.41	1.99	30.5	23.5	38.6	58.1	95.7	36.6	3.96	.54	1.40	2.62
MAX	13	12	170	130	159	242	469	264	57	3.7	36	21
MIN	.36	1.0	5.7	3.5	3.5	19	15	2.5	.27	.04	0	0
CFSM	.09	.07	1.11	.85	1.40	2.11	3.48	1.33	.14	.02	.05	.10
IN.	.10	.08	1.28	.99	1.51	2.43	3.89	1.53	.16	.02	.06	.11

CAL YR 1971 TOTAL 7,245.58 MEAN 19.9 MAX 701 MIN .12 CFSM .72 IN 9.80
WTR YR 1972 TOTAL 8,992.14 MEAN 24.6 MAX 469 MIN 0 CFSM .89 IN 12.16

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0900	4.81	416	05-08	1245	6.22	797
04-16	0545	7.49	1,320	06-09	1115	4.84	424
04-20	0945	4.98	457				

03293800 Deam Lake near Sellersburg, Ind.

LOCATION.—Lat 38°27'50", long 85°51'30", in NE 1/4 NW 1/4 sec.4, T.1 S., R.6 E., Clark County, in intake tower of reservoir on Big Run, 1 mile above mouth, and 7.2 miles northwest of Sellersburg.

DRAINAGE AREA.—3.74 sq mi.

PERIOD OF RECORD.—January 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 500.00 ft above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.—Current year: Maximum contents, 3,534 acre-ft Apr. 16 (gage height, 38.28 ft); minimum, 2,856 acre-ft Nov. 22-29, Dec. 4-6 (gage height, 35.03 ft).
Period of record: Maximum contents, 3,534 acre-ft in February 1971, Apr. 16, 1972 (gage height, 38.23 ft); minimum contents since reaching minimum pool elevation of 535.00 ft, 944 acre-ft Oct. 30, 31, 1969 (gage height, 21.82 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by a sluice gate into 42-inch diameter pipe. Minimum design capacity is 2,850 acre-ft (elevation, 535 ft). Capacity at uncontrolled spillway elevation (555.1 ft) is 8,440 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on Jan. 14, 1965.

COOPERATION.—Capacity tables furnished by Indiana Department of Natural Resources.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	35.23	2,896	-
Oct. 31	35.15	2,880	-16
Nov. 30	35.04	2,858	-22
Dec. 31	35.35	2,920	+62
Calendar year 1971	-	-	-96
Jan. 31	35.37	2,924	+4
Feb. 29	36.24	3,098	+174
Mar. 31	35.86	3,022	-76
Apr. 30	36.48	3,146	+124
May 31	35.62	2,974	-172
June 30	35.17	2,884	-90
July 31	35.15	2,880	-4
Aug. 31	35.20	2,890	+10
Sept. 30	35.20	2,890	0
Water year 1972	-	-	-6

03294000 Silver Creek near Sellersburg, Ind.

LOCATION.—Lat 38°22'15", long 85°43'35", in SW 1/4 SW 1/4 lot 68, Clark Military Grant, Clark County, on upstream side of Straws Mill bridge on Watson Road, 0.3 mile downstream from Pleasant Run, 2.4 miles southeast of Sellersburg, and 11.9 miles upstream from mouth.

DRAINAGE AREA.—189 sq mi (revised).

PERIOD OF RECORD.—October 1954 to current year.

GAGE.—Nonrecording gage and crest-stage gage. Altitude of gage is 430 ft (from topographic map).

AVERAGE DISCHARGE.—18 years, 204 cfs (14.66 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,930 cfs Apr. 17 (gage height, 20.22 ft); minimum daily, 1.0 cfs Sept. 22.
Period of record: Maximum discharge, 19,600 cfs Jan. 22, 1959 (gage height, 30.89 ft, from floodmarks), from rating curve extended above 6,300 cfs on basis of contracted-opening measurements of peak flow, at site 5.2 miles upstream (drainage area, 164 sq mi), adjusted to gage site; no flow at times in most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1705: 1955-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	7.2	16	136	30	420	150	129	27	8.8	9.4	3.8
2	6.6	6.0	13	119	37	2,860	133	140	20	6.0	7.5	2.7
3	6.9	6.3	11	132	42	1,580	131	115	18	5.3	23	5.1
4	4.9	5.8	9.4	220	41	668	133	99	15	4.5	536	5.8
5	4.0	4.5	9.4	392	36	470	135	82	13	4.9	132	5.6
6	3.5	9.8	22	194	44	324	122	73	13	4.2	82	4.9
7	3.0	12	140	146	38	288	125	59	13	4.5	56	3.6
8	2.3	8.4	168	132	34	262	145	1,420	13	5.1	39	18
9	5.3	7.5	92	302	30	219	119	3,210	10	3.5	24	32
10	7.0	6.8	68	576	28	190	105	791	12	2.8	16	16
11	6.0	6.0	59	262	35	173	125	332	13	18	13	7.0
12	4.5	5.5	43	189	50	159	2,680	242	11	11	10	4.5
13	3.2	5.0	34	156	236	154	2,820	280	12	6.6	8.1	3.5
14	3.5	4.5	28	100	492	181	2,300	802	11	5.8	7.5	3.2
15	4.5	4.3	81	60	645	170	2,020	458	7.8	18	7.5	2.6
16	5.0	3.9	135	40	432	1,280	4,040	294	7.2	67	6.6	2.1
17	4.0	3.6	78	50	266	1,100	3,820	214	6.9	36	5.6	1.8
18	3.5	3.3	51	54	202	525	962	166	6.0	30	5.1	1.5
19	3.0	6.0	37	52	149	328	592	133	5.3	18	6.0	1.4
20	2.7	7.5	51	58	114	262	2,500	112	4.6	11	7.2	1.3
21	2.5	5.0	65	91	104	231	2,120	96	4.0	8.1	7.2	1.2
22	22	4.5	51	79	94	247	1,710	76	3.5	6.6	7.2	1.0
23	81	4.0	38	73	196	194	778	65	3.0	4.9	5.6	1.5
24	66	3.7	31	73	905	165	478	54	2.6	4.2	4.3	3.6
25	19	4.5	28	68	1,120	152	340	47	2.3	3.8	6.9	4.2
26	12	5.4	28	48	2,050	145	251	44	1.9	3.8	52	7.5
27	9.8	6.6	27	40	723	145	205	35	1.6	3.8	18	14
28	9.1	10	26	36	405	190	170	30	3.0	20	9.1	9.8
29	8.1	13	24	32	276	233	149	28	11	115	7.2	8.4
30	6.9	18	232	30	------	210	140	28	12	32	6.0	33
31	5.6	------	345	28	------	166	------	32	------	16	4.7	------
TOTAL	333.8	198.6	2,040.8	3,968	8,854	13,691	29,498	9,686	283.7	489.2	1,129.7	210.6
MEAN	10.8	6.62	65.8	128	305	442	983	312	9.46	15.8	36.4	7.02
MAX	81	18	345	576	2,050	2,860	4,040	3,210	27	115	536	33
MIN	2.3	3.3	9.4	28	28	145	105	28	1.6	2.8	4.3	1.0
CFSM	.06	.04	.35	.68	1.61	2.34	5.20	1.65	.05	.08	.19	.04
IN.	.07	.04	.40	.78	1.74	2.69	5.81	1.91	.06	.10	.22	.04

CAL YR 1971 TOTAL 59,451.3 MEAN 163 MAX 5,860 MIN 2.3 CFSM .86 IN 11.70
WTR YR 1972 TOTAL 70,383.4 MEAN 192 MAX 4,040 MIN 1.0 CFSM 1.02 IN 13.85

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-26	0800	14.95	2,830	04-17	0200	20.22	4,930
03-02	1300	16.25	3,290	04-20	2100	16.10	3,240
04-12	2000	17.35	3,670	05-09	0800	17.60	3,760

03302220 Buck Creek near New Middletown, Ind.

LOCATION.—Lat 38°07'13", long 86°05'16", in SE 1/4 NE 1/4 sec.32, T.4 S., R.4 E., Harrison County, at downstream end of pier of bridge on State Highway 337, 0.5 mile downstream from South Fork Buck Creek, 3.6 miles southwest of New Middletown, and 14.6 miles upstream from mouth.

DRAINAGE AREA.—65.2 sq mi, of which 28.1 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 500 ft (from topographic map).

EXTREMES.—Current year: Maximum discharge, 6,230 cfs Apr. 12 (gage height, 11.08 ft); minimum daily, 0.90 cfs Sept. 13.
Period of record: Maximum discharge, 12,700 cfs Apr. 2, 1970 (gage height, 14.40 ft); minimum daily, 0.90 cfs Sept. 13, 1972.

REMARKS.—Records good except those for October, November, parts of December, January, February, and March, which are poor.

REVISED PEAK DISCHARGE.—1970: Mar. 2 (1930) 1,100 cfs (5.89 ft); Apr. 23 (1715) 2,500 cfs (8.00 ft); Apr. 28 (0930) 3,330 cfs (8.83 ft); May 12 (0115) 3,640 cfs (9.12 ft); June 13 (1230) 1,790 cfs (7.06 ft); Sept. 25 (1800) 904 cfs (5.41 ft).
1971: Oct. 13 (0100) 1,340 cfs (6.32 ft); Dec. 22 (0415) 2,740 cfs (8.24 ft); Jan. 4 (0715) 992 cfs (5.63 ft); Feb. 5 (0630) 1,040 cfs (5.75 ft); Feb. 22 (0415) 7,000 cfs (11.56 ft); June 21 (1730) 1,370 cfs (6.37 ft); July 11 (unknown) 3,100 cfs (8.60 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	4.8	18	100	25	350	57	62	21	5.4	7.0	5.0
2	9.2	7.0	15	80	27	1,100	50	63	20	4.6	5.8	5.4
3	7.2	4.5	13	78	31	540	50	54	18	6.4	6.4	2.2
4	5.8	4.2	11	90	35	380	102	49	18	6.4	39	2.2
5	5.0	3.8	10	210	32	260	87	45	16	5.8	15	3.0
6	4.4	5.4	12	170	34	200	81	41	15	4.6	10	1.8
7	3.9	6.4	130	110	32	170	98	39	14	4.2	8.9	1.8
8	3.3	6.4	110	85	28	140	107	912	13	3.8	7.0	1.4
9	4.5	7.7	80	200	26	120	83	600	14	3.8	7.0	1.8
10	6.0	6.0	72	330	24	110	77	247	18	3.4	5.0	1.8
11	5.0	5.0	68	220	26	95	93	148	12	3.4	4.2	1.4
12	4.0	4.4	57	150	33	80	1,970	105	11	3.0	4.2	1.1
13	3.0	4.0	48	100	45	73	518	231	11	3.0	4.6	.90
14	2.6	3.7	42	66	100	65	1,120	281	11	3.0	4.2	1.3
15	3.5	3.5	71	60	250	60	1,050	163	14	17	3.8	2.6
16	5.0	3.4	77	40	150	1,200	1,680	112	17	44	3.8	1.8
17	4.2	3.3	58	52	110	800	541	88	11	16	3.4	1.4
18	3.8	3.3	47	53	85	500	313	71	10	10	3.0	1.4
19	3.5	4.0	44	43	70	310	223	62	9.5	7.0	3.0	1.3
20	3.2	5.4	70	48	62	210	583	55	8.9	5.8	3.0	1.1
21	3.0	6.2	69	57	55	160	562	49	9.5	5.0	4.2	1.1
22	25	4.5	55	55	52	130	590	45	9.5	4.6	5.0	1.3
23	40	4.4	50	52	50	110	309	40	7.0	4.6	4.6	1.4
24	25	7.0	47	62	150	95	205	37	5.4	4.2	4.2	23
25	15	8.5	42	54	900	82	145	33	5.4	4.2	22	46
26	12	7.6	30	46	450	72	113	30	5.0	3.8	11	37
27	10	15	28	39	300	60	92	28	5.0	3.8	4.6	14
28	8.0	14	25	31	200	64	78	26	7.7	54	3.0	8.9
29	7.0	30	22	26	150	65	68	26	8.3	41	2.2	84
30	6.2	28	80	24	------	60	61	29	6.4	14	1.8	108
31	5.3	------	125	24	------	58	------	24	------	8.9	1.8	------
TOTAL	255.6	221.4	1,626	2,755	3,532	7,719	11,106	3,795	351.6	308.7	212.7	365.40
MEAN	8.25	7.38	52.5	88.9	122	249	370	122	11.7	9.96	6.86	12.2
MAX	40	30	130	330	900	1,200	1,970	912	21	54	39	108
MIN	2.6	3.3	10	24	24	58	50	24	5.0	3.0	1.8	.90
CFSM	.13	.11	.81	1.36	1.87	3.82	5.67	1.87	.18	.15	.11	.19
IN.	.15	.13	.93	1.57	2.02	4.40	6.34	2.17	.20	.18	.12	.21

CAL YR 1971 TOTAL 26,158.20 MEAN 71.7 MAX 2,980 MIN 2.6 CFSM 1.10 IN 14.92
WTR YR 1972 TOTAL 32,248.40 MEAN 88.1 MAX 1,970 MIN .90 CFSM 1.35 IN 18.40

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	unknown	7.64	2,210	04-14	0800	7.48	2,090
03-16	unknown	6.78	1,620	04-16	0900	9.89	4,570
04-12	0500	11.08	6,230	05-08	1400	7.03	1,770

NOTE.—No gage-height record Oct. 1 to Nov. 3; Nov. 10 to Dec. 8; Jan. 25 to Mar. 26.

03302300 Little Indian Creek near Galena, Ind.

LOCATION.—Lat 38°19'19", long 85°55'53", in NE 1/4 SW 1/4 sec.23, T.2 S., R.5 E., Floyd County, on right bank at downstream side of county road bridge, 2 miles south of Galena, 3.6 miles upstream from mouth, and 7.0 miles northwest of New Albany.

DRAINAGE AREA.—16.1 sq mi.

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 703.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 2,400 cfs Apr. 16 (gage height, 6.64 ft); minimum daily, 0.05 cfs Sept. 22.
Period of record: Maximum discharge, 3,130 cfs Feb. 22, 1971 (gage height, 7.44 ft), from rating curve extended above 400 cfs on basis of indirect measurement at 7.34 ft; no flow for many days in October 1969.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.25	.99	9.7	4.0	158	13	16	1.4	.54	.48	.36
2	.14	.55	.74	14	5.0	335	11	14	1.1	.42	18	.42
3	.20	.46	.67	10	5.4	101	9.5	10	1.0	.74	110	.60
4	.32	.28	.60	25	5.0	60	13	8.6	1.4	.60	53	1.0
5	.27	.19	.60	38	4.5	43	9.5	7.0	.90	.48	7.8	.66
6	.22	.41	6.1	20	5.8	32	9.0	6.1	.90	.36	10	.48
7	.17	.76	22	15	4.8	28	9.5	5.5	.82	.30	6.7	.42
8	.10	.36	9.1	11	4.3	28	7.4	584	.66	.25	3.7	.74
9	.24	.36	5.9	73	3.9	22	6.1	225	.60	.20	2.5	.66
10	.31	.31	5.3	46	3.7	19	6.1	72	1.4	.15	1.4	.66
11	.24	.29	4.5	28	4.5	17	8.6	43	.74	.15	1.1	.60
12	.18	.25	3.6	20	6.5	15	282	30	.60	.12	.90	.48
13	.14	.25	2.9	15	60	18	130	158	.90	.12	.90	.48
14	.14	.22	2.1	10	51	18	318	99	.66	.10	.74	.25
15	.20	.20	18	7.0	51	21	518	53	.90	68	.66	.12
16	.45	.16	9.8	5.0	34	279	735	36	.90	14	.60	.12
17	.36	.13	6.1	8.0	25	119	120	28	.60	2.8	.82	.12
18	.40	.12	4.1	11	21	55	60	21	.48	1.1	.82	.10
19	.35	.48	4.1	9.1	16	36	64	16	.42	.74	12	.08
20	.29	.46	9.5	8.3	22	26	402	12	.36	.60	1.6	.06
21	.36	.35	6.8	7.2	11	23	179	9.5	.36	.54	.74	.06
22	3.6	.23	5.5	6.4	10	25	144	7.8	.25	.48	.74	.05
23	1.2	.23	4.8	7.2	17	18	66	6.4	.20	.42	.74	.08
24	.56	.42	4.4	8.1	233	15	43	5.2	.15	.30	.66	1.6
25	.54	.54	3.8	6.5	382	13	31	4.3	.12	.30	4.6	1.1
26	.50	.44	3.3	5.7	235	10	24	3.4	.12	.25	3.1	3.1
27	.45	.99	3.0	5.0	75	19	19	2.5	.12	.20	.82	.90
28	.45	.83	4.6	4.5	47	18	16	1.9	.48	7.0	.66	.54
29	.45	2.0	3.6	4.2	31	21	14	2.5	1.0	3.7	.54	17
30	.36	1.6	26	3.9	------	17	12	3.7	.66	.82	.48	13
31	.34	------	15	3.7	------	15	------	2.5	------	.60	.42	------
TOTAL	13.72	14.12	197.50	445.5	1,378.4	1,624	3,279.7	1,493.9	20.20	106.38	247.22	45.84
MEAN	.44	.47	6.37	14.4	47.5	52.4	109	48.2	.67	3.43	7.97	1.53
MAX	3.6	2.0	26	73	382	335	735	584	1.4	68	110	17
MIN	.10	.12	.60	3.7	3.7	10	6.1	1.9	.12	.10	.42	.05
CFSM	.03	.03	.40	.89	2.95	3.25	6.77	2.99	.04	.21	.50	.10
IN.	.03	.03	.46	1.03	3.18	3.75	7.58	3.45	.05	.25	.57	.11

CAL YR 1971 TOTAL 6,093.33 MEAN 16.7 MAX 1,110 MIN .08 CFSM 1.04 IN 14.08
WTR YR 1972 TOTAL 8,866.48 MEAN 24.2 MAX 735 MIN .05 CFSM 1.50 IN 20.49

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-25	2015	5.25	1,180	04-20	0845	5.49	1,370
03-02	0700	4.67	808	05-08	1115	5.71	1,560
03-16	0830	4.35	645	07-15	2045	4.49	715
04-12	0515	4.70	825	08-03	2115	5.26	1,190
04-16	0545	6.64	2,400				

03302500 Indian Creek near Corydon, Ind.

LOCATION.—Lat 38°16'35", long 86°06'35", in SW 1/4 SE 1/4 sec.6, T.3 S., R.4 E., Harrison County, on upstream side of bridge on State Highway 335, 0.6 mile upstream from Raccoon Branch, and 4.5 miles north of Corydon.

DRAINAGE AREA.—129 sq mi, of which 10.6 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1943 to current year. Prior to October 1961, published as Big Indian Creek near Corydon.

GAGE.—Water-stage recorder. Datum of gage is 577.12 ft above mean sea level. Prior to Dec. 9, 1948, nonrecording gage, and Dec. 9, 1948, to June 12, 1952, recorder records for stages above 6.3 ft at same site and datum.

AVERAGE DISCHARGE.—29 years, 164 cfs (17.26 inches per year).

EXTREMES.—Current year: Maximum discharge, 7,000 cfs Apr. 16 (gage height, 15.09 ft); no flow Sept. 1-13, 16-26.
Period of record: Maximum discharge, 26,700 cfs Mar. 5, 1964 (gage height, 22.64 ft); no flow at times during 1943-44, 1951-54, 1959, 1965, 1972.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1275: Drainage area. WSP 1385: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	38	137	50	547	133	119	29	13	13	0
2	15	10	30	132	54	2,450	120	136	25	8.1	8.1	0
3	12	11	26	126	60	1,090	111	105	24	7.0	37	0
4	10	10	23	141	65	616	116	91	22	6.0	535	0
5	9.1	10	21	359	60	424	105	80	21	5.0	49	0
6	8.6	9.7	24	245	62	296	99	71	21	4.0	22	0
7	8.6	12	217	182	60	248	99	64	19	3.5	29	0
8	8.6	12	201	142	52	235	95	2,930	18	3.3	15	0
9	8.6	13	122	369	47	187	82	2,520	16	3.2	7.3	0
10	7.7	13	102	565	45	168	78	735	16	3.0	5.9	0
11	8.1	12	91	319	47	149	83	403	16	2.9	3.9	0
12	7.7	11	72	215	60	137	1,300	266	19	2.8	2.5	0
13	7.7	10	62	175	274	129	930	417	17	2.7	1.7	0
14	7.7	9.7	52	120	455	135	1,850	598	14	2.6	1.2	.07
15	7.7	9.1	89	80	574	122	2,880	326	13	21	.62	.07
16	8.1	9.1	175	55	404	1,040	5,230	222	14	354	.35	0
17	7.7	8.6	108	65	253	1,110	1,400	173	13	69	.15	0
18	9.1	8.1	82	80	201	571	700	138	12	43	.07	0
19	9.1	9.1	67	85	158	361	471	115	11	29	.47	0
20	13	10	88	85	124	263	2,570	97	9.8	21	35	0
21	17	13	95	91	118	215	1,410	82	13	15	6.7	0
22	40	14	76	79	108	205	1,330	70	9.5	9.7	2.5	0
23	81	13	65	76	102	171	705	59	7.8	7.0	1.1	0
24	36	13	61	84	675	146	434	49	6.0	5.0	.41	0
25	26	13	55	83	1,210	133	305	44	4.7	4.0	.15	0
26	21	13	53	70	2,430	122	222	39	4.4	3.2	.11	0
27	17	16	49	64	760	136	179	34	4.3	2.8	.07	.62
28	15	20	48	56	463	149	152	31	4.2	2.6	.80	.71
29	13	28	49	52	317	147	133	28	4.2	75	.30	5.7
30	12	39	120	49	------	152	123	30	15	43	.07	24
31	11	------	212	46	------	140	------	32	------	24	.03	------
TOTAL	482.1	389.4	2,573	4,427	9,288	11,994	23,445	10,104	422.9	795.4	779.50	31.17
MEAN	15.6	13.0	83.0	143	320	387	782	326	14.1	25.7	25.1	1.04
MAX	81	39	217	565	2,430	2,450	5,230	2,930	29	354	535	24
MIN	7.7	8.1	21	46	45	122	78	28	4.2	2.6	.03	0
CFSM	.12	.10	.64	1.11	2.48	3.00	6.06	2.53	.11	.20	.19	.008
IN.	.14	.11	.74	1.28	2.68	3.46	6.76	2.91	.12	.23	.22	.008

CAL YR 1971 TOTAL 50,645.80 MEAN 139 MAX 6,900 MIN 5.0 CFSM 1.08 IN 14.60
WTR YR 1972 TOTAL 64,731.47 MEAN 177 MAX 5,230 MIN 0 CFSM 1.37 IN 18.67

PEAK DISCHARGE (BASE, 4,500 CFS).—Apr. 16 (1800) 7,000 cfs (15.09 ft). May 8 (2000) 5,880 cfs (14.00 ft).

03302680 West Fork Blue River at Salem, Ind.

LOCATION.--Lat 38°36'19", long 86°05'40", in SW 1/4 SE 1/4 sec.17, T.2 N., R.4 E., Washington County, on left bank just downstream from bridge on State Highway 160, 0.35 mile east of County Court House in Salem, 6.0 miles upstream from Hoggatt Branch, and 6.8 miles from mouth.

DRAINAGE AREA.—19.0 sq mi.

PERIOD OF RECORD.—July 1970 to current year. Prior to December 10, 1970, nonrecording gage at site 0.55 mile downstream at datum 5.04 ft lower.

GAGE.--Water-stage recorder. Datum of gage 713.00 ft above mean sea level.

EXTREMES.--Water year 1971: Maximum discharge, 1,600 cfs Feb. 22 (gage height, 8.40 ft); minimum daily, 0.09 cfs Sept. 19.
Water year 1972: Maximum discharge, 1,700 cfs Apr. 15 (gage height, 8.61 ft); minimum daily, 0.05 cfs Sept. 22.
Period of record: Maximum discharge, 1,700 cfs Apr. 15, 1971 (gage height, 8.40 ft); minimum daily, 0.02 cfs Sept. 24, 1970.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.7	2.5	5.8	5.2	26	10	2.9	2.9	.40	.80	.40
2	.25	2.3	2.3	5.5	4.1	23	15	3.2	2.9	.40	.60	.30
3	.20	1.5	2.1	6.7	3.6	21	22	2.9	2.3	2.3	1.0	.25
4	.16	3.5	2.5	80	193	19	15	2.3	2.3	.90	18	.23
5	.12	2.5	2.0	42	108	17	10	2.3	1.8	.48	11	.20
6	.12	1.8	1.8	27	41	21	9.0	21	1.5	.43	4.6	.70
7	.29	1.9	1.6	20	27	24	16	29	1.8	.38	2.0	.45
8	.79	1.4	1.5	13	22	21	15	24	1.8	.34	1.3	.30
9	.93	1.6	1.3	9.2	17	19	8.0	15	1.8	2.0	1.1	.25
10	1.3	2.7	1.2	8.2	16	32	7.0	12	1.5	7.0	1.3	.18
11	.57	2.1	1.5	7.6	15	34	6.0	9.6	1.5	12	1.0	8.3
12	.67	1.7	2.3	7.5	105	31	6.0	8.5	3.8	14	.80	2.0
13	6.0	1.6	2.0	48	88	26	6.5	7.5	2.9	1.5	.65	.50
14	10	1.4	1.8	102	52	22	7.0	6.0	5.2	.60	.50	.20
15	7.0	1.9	1.5	60	34	53	6.0	5.5	7.2	.48	.45	.12
16	4.5	1.9	12	41	26	38	5.5	4.6	3.8	.40	.40	.20
17	3.8	2.4	20	31	181	27	5.5	4.6	3.2	.30	.32	.35
18	2.8	1.9	15	22	112	24	5.0	4.2	2.6	141	.28	.20
19	2.0	3.0	12	16	108	27	4.6	3.8	2.0	12	.20	.09
20	2.5	50	8.5	11	104	21	4.6	3.5	1.8	3.5	.20	9.0
21	2.0	20	14	8.6	84	19	4.6	2.9	1.8	1.5	.15	1.5
22	2.3	12	74	6.7	522	18	4.6	2.9	2.3	1.0	.20	.35
23	1.4	9.0	120	5.6	116	15	4.2	2.9	1.2	.90	.40	.25
24	1.2	7.0	52	5.1	63	14	4.2	12	1.2	1.2	.20	.18
25	1.1	5.5	32	4.8	44	13	3.8	17	1.5	2.0	.10	.19
26	.85	4.8	23	4.5	43	12	3.8	5.5	1.2	1.2	.15	.30
27	.74	4.0	17	4.3	38	12	3.8	5.0	.50	.70	.10	.30
28	.70	3.5	12	4.2	30	11	4.2	3.8	.40	1.5	.20	.20
29	1.5	3.1	8.6	5.2	------	10	3.5	3.5	.40	3.5	.15	.15
30	2.7	2.8	6.6	7.0	------	9.0	3.2	3.2	.50	1.5	.15	.13
31	2.1	------	6.0	8.8	------	8.5	------	2.6	------	1.1	1.5	------
TOTAL	60.99	160.5	460.6	628.3	2,201.9	667.5	223.6	233.7	65.60	216.51	49.80	27.77
MEAN	1.97	5.35	14.9	20.3	78.6	21.5	7.45	7.54	2.19	6.98	1.61	.93
MAX	10	50	120	102	522	53	22	29	7.2	141	18	9.0
MIN	.12	1.4	1.2	4.2	3.6	8.5	3.2	2.3	.40	.30	.10	.09
CFSM	.10	.28	.78	1.07	4.14	1.13	.39	.40	.12	.37	.08	.05
IN.	.12	.31	.90	1.23	4.31	1.31	.44	.46	.13	.42	.10	.05

WTR YR 1971 TOTAL 4,996.77 MEAN 13.7 MAX 522 MIN .09 CFSM .72 IN 9.78

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-23	0630	4.35	299	02-17	1500	4.57	355
01-13	1800	3.70	163	02-22	0130	8.40	1,600
02-04	1615	5.50	585	07-18	1530	5.67	633
02-12	1630	4.05	233				

03302680 West Fork Blue River at Salem, Ind.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.65	2.0	16	3.0	71	13	20	1.2	.50	.40	.52
2	.11	.63	1.8	15	3.5	293	12	17	.90	.40	.41	.45
3	.09	.60	1.5	11	6.0	121	11	15	1.5	3.5	9.2	.42
4	.13	.58	1.5	20	5.8	79	12	13	1.2	1.0	21	.54
5	.12	.54	1.5	28	4.3	50	10	11	.95	.65	4.2	.70
6	.11	.56	2.9	22	4.1	37	11	9.0	.85	.40	3.5	.61
7	.10	.62	23	17	3.7	33	12	7.0	.75	.30	2.7	.50
8	.08	.74	11	14	3.4	28	11	22	.60	.30	2.2	.45
9	.10	.64	6.5	27	3.3	21	9.2	15	.50	.20	1.8	.56
10	.12	.56	6.0	34	3.2	19	9.2	12	1.5	.20	1.5	.66
11	.18	.49	4.6	26	3.3	18	21	10	.90	.15	1.3	.56
12	.27	.44	3.8	21	3.9	17	263	9.0	.50	.12	1.2	.46
13	.40	.38	3.2	13	17	16	212	11	1.0	.11	1.0	.40
14	.50	.32	2.9	9.0	79	14	210	13	.65	.10	.94	.26
15	.65	.27	11	7.0	77	15	599	10	.50	.35	.82	.16
16	1.0	.23	9.0	5.0	38	110	963	8.0	1.2	6.9	.75	.30
17	.80	.19	6.5	6.0	27	70	400	7.0	1.2	4.8	.70	.44
18	.45	.15	4.2	7.0	23	45	130	6.0	1.0	1.3	.66	.40
19	.36	.47	3.8	9.0	18	31	170	5.0	.70	.59	.62	.30
20	.44	.50	4.6	7.4	15	25	380	4.5	2.6	.70	.57	.20
21	.65	.46	3.5	7.1	14	21	100	4.0	2.3	.26	.52	.14
22	6.7	.30	2.9	6.2	14	20	150	3.6	1.0	.17	.80	.05
23	3.2	.44	2.6	6.0	26	16	110	3.3	.80	.14	.70	1.2
24	2.3	.64	2.6	5.8	60	14	70	2.8	.60	7.1	.80	58
25	1.8	1.2	2.6	5.3	68	13	50	2.3	.40	3.2	2.0	30
26	1.2	1.0	2.6	5.0	89	12	40	1.9	.37	.98	1.2	5.0
27	1.0	1.5	2.3	4.5	52	13	35	1.4	.34	4.9	1.0	2.9
28	1.0	2.0	2.3	4.0	37	12	30	1.6	.65	2.2	1.0	2.3
29	1.0	2.6	2.0	3.5	28	17	26	2.1	.65	1.5	.80	30
30	.80	2.6	42	3.2	------	14	23	2.5	.80	.91	.80	14
31	.65	------	23	3.0	------	13	------	1.6	------	.60	.65	------
TOTAL	26.43	22.30	199.7	368.0	729.5	1,278	4,092.4	251.6	28.11	44.53	65.74	152.48
MEAN	.85	.74	6.44	11.9	25.2	41.2	136	8.12	.94	1.44	2.12	5.08
MAX	6.7	2.6	42	34	89	293	963	22	2.6	7.1	21	58
MIN	.08	.15	1.5	3.0	3.0	12	9.2	1.4	.34	.10	.40	.05
CFSM	.04	.04	.34	.63	1.33	2.17	7.16	.43	.05	.08	.11	.27
IN.	.05	.04	.39	.72	1.43	2.50	8.01	.49	.06	.09	.13	.30

CAL YR 1971 TOTAL 4,563.11 MEAN 12.5 MAX 522 MIN .08 CFSM .66 IN 8.93
WTR YR 1972 TOTAL 7,258.79 MEAN 19.8 MAX 963 MIN .05 CFSM 1.04 IN 14.21

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-30	0930	3.69	154	04-13	0715	5.67	633
02-14	1915	4.48	330	04-15	1530	8.61	1,700
02-25	2200	3.74	165	04-20	unknown	unknown	1,100
03-02	0645	6.55	890	09-24	1030	3.90	210
03-16	0300	3.77	171				

03302800 Blue River at Fredericksburg, Ind.

LOCATION.—Lat 38°26'02", long 86°11'31", in NE 1/4 NW 1/4 sec.16, T.1 S., R.3 E., Washington County, attached to downstream side of bridge on U.S. Highway 150 at Fredericksburg and 0.5 mile downstream from South Fork Blue River.

DRAINAGE AREA.—283 sq mi, of which 76.9 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—June 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 590.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 9,120 cfs Apr. 16 (gage height, 18.85 ft); minimum daily, 6.6 cfs Sept. 21.
Period of record: Maximum discharge, 9,790 cfs Feb. 22, 1971 (gage height, 20.43 ft); minimum daily, 6.1 cfs Oct. 18, 1968.
Flood of Jan. 21, 1959 reached a stage of 29.20 ft, from floodmark on left upstream wingwall.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	48	76	482	73	619	267	255	52	21	18	12
2	39	45	64	412	80	4,230	235	245	47	19	17	12
3	34	44	58	356	112	2,090	213	210	44	19	20	12
4	29	41	56	386	131	1,160	217	185	66	29	491	14
5	25	36	51	656	118	836	196	166	50	24	171	15
6	23	36	56	517	100	639	188	148	41	19	82	13
7	20	38	396	425	90	563	189	136	37	16	66	11
8	18	40	519	340	80	510	184	359	34	16	49	11
9	18	38	308	512	75	409	156	1,020	33	16	38	14
10	18	37	258	807	75	365	149	442	39	15	33	15
11	17	37	253	595	77	328	198	303	36	14	26	14
12	15	36	192	461	88	307	3,070	231	30	13	23	11
13	14	36	160	398	238	285	2,930	226	28	13	22	9.0
14	14	34	136	230	580	277	2,570	444	28	13	20	8.6
15	15	31	200	170	1,400	248	2,930	303	28	15	17	9.0
16	47	30	369	120	899	1,390	6,560	239	59	25	16	9.1
17	41	28	253	150	620	1,340	3,530	196	42	49	15	10
18	27	28	192	171	513	834	1,580	167	31	55	14	9.0
19	21	30	162	183	403	603	1,220	142	27	31	14	7.8
20	17	30	174	175	309	477	3,160	124	25	22	12	6.9
21	15	33	178	182	288	408	2,310	113	29	18	11	6.6
22	348	30	140	166	269	369	1,870	102	28	15	15	6.8
23	417	27	123	158	259	309	1,170	93	23	14	16	7.6
24	220	27	118	155	857	263	800	83	21	14	17	9.8
25	152	28	111	144	1,010	235	611	74	19	15	15	244
26	115	29	109	117	2,050	210	501	66	18	21	54	84
27	96	33	105	103	1,020	215	421	60	18	16	38	42
28	79	39	94	94	741	223	361	54	19	76	22	28
29	66	53	85	84	583	265	323	51	21	139	17	34
30	58	86	929	76	------	349	293	54	24	37	16	211
31	52	------	891	72	------	292	------	56	------	23	13	------
TOTAL	2,116	1,108	6,816	8,897	13,178	20,648	38,402	6,347	997	832	1,398	897.2
MEAN	68.3	36.9	220	287	454	666	1,280	205	33.2	26.8	45.1	29.9
MAX	417	86	929	807	2,050	4,230	6,560	1,020	66	139	491	244
MIN	14	27	51	72	73	210	149	51	18	13	11	6.6
CFSM	.24	.13	.78	1.01	1.60	2.35	4.52	.72	.12	.09	.16	.11
IN.	.28	.15	.90	1.17	1.73	2.71	5.05	.83	.13	.11	.18	.12

CAL YR 1971 TOTAL 88,481.5 MEAN 242 MAX 6,560 MIN 7.5 CFSM .86 IN 11.63
WTR YR 1972 TOTAL 101,636.2 MEAN 278 MAX 6,560 MIN 6.6 CFSM .98 IN 13.36

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	2000	9.35	2,300	04-12	1600	14.72	5,410
02-26	0700	10.27	2,740	04-16	1900	18.85	9,120
03-02	1800	16.10	6,170	04-20	1800	14.01	5,300
03-16	1500	8.89	2,120				

03303000 Blue River near White Cloud, Ind.

LOCATION.—Lat 38°14'15", long 86°13'42", in NW 1/4 SE 1/4 sec.19, T.3 S., R.3 E., Harrison County, on left bank 400 ft downstream from Spring Creek, 0.2 mile upstream from bridge on State Highway 62, and 0.8 mile north of White Cloud.

DRAINAGE AREA.—About 476 sq mi, of which 192 sq mi does not contribute directly to surface runoff. Also, part of flow from Indian Creek, downstream from Corydon, Ind., enters Blue River via solution channel in Karst area, Harrison Spring, and Spring Creek (revised).

PERIOD OF RECORD.—October 1930 to current year. Monthly figures only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 434.26 ft above mean sea level (levels by Indiana Department of Natural Resources from adjusted elevation of U.S. Coast and Geodetic Survey bench mark). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—42 years, 602 cfs (17.17 inches per year).

EXTREMES.—Current year: Maximum discharge, 9,480 cfs Apr. 17 (gage height, 14.56 ft); minimum daily, 27 cfs Sept. 22.
Period of record: Maximum discharge, 28,500 cfs Jan. 22, 1959 (gage height, 23.07 ft); minimum daily, 9.6 cfs Oct. 17, 1964.

REMARKS.—Records poor. Stage-discharge relation affected by bridge construction below gage.

REVISIONS (WATER YEARS).—WSP 1335: 1931-32, 1933(M), 1935-38(M), 1944. WSP 1385: Drainage area. WSP 1555: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	125	630	1,370	155	1,300	630	600	160	77	95	46
2	142	115	555	1,050	180	4,300	565	520	163	72	75	42
3	119	110	313	928	260	5,400	500	460	161	68	73	41
4	110	100	196	878	340	2,700	470	420	156	72	444	52
5	100	98	135	1,360	270	1,940	450	370	165	76	595	49
6	94	95	104	1,200	230	1,460	410	330	161	70	268	42
7	86	91	525	1,000	675	1,230	420	300	145	64	211	39
8	80	86	1,220	868	439	1,130	390	1,470	133	60	175	37
9	75	78	890	1,060	340	986	340	2,100	144	58	142	38
10	70	74	665	1,860	279	851	320	1,350	132	56	111	35
11	66	78	560	1,440	152	768	290	1,020	125	54	93	36
12	62	74	530	1,010	220	702	2,490	852	116	50	84	34
13	56	72	398	802	1,350	665	4,890	545	116	48	76	33
14	52	68	295	630	2,080	580	5,190	545	110	47	69	34
15	60	64	376	434	2,810	655	5,740	452	105	65	64	34
16	90	61	692	340	2,050	1,830	8,310	257	111	167	58	33
17	110	58	630	300	1,310	3,210	7,770	241	147	165	52	31
18	100	58	430	370	1,010	2,070	3,260	375	131	153	48	30
19	84	62	308	410	829	1,460	2,220	457	115	132	46	29
20	74	64	313	380	720	1,150	4,120	416	107	110	58	28
21	72	70	326	400	640	980	5,140	417	100	90	100	28
22	224	64	271	380	580	873	3,650	364	95	76	76	27
23	986	60	196	360	560	768	2,640	330	91	67	61	28
24	525	60	162	350	1,350	650	1,910	303	87	60	61	33
25	295	60	137	300	2,410	570	1,510	256	82	56	64	52
26	250	56	117	270	3,860	510	1,240	207	76	52	112	114
27	220	70	115	240	2,410	500	1,060	193	72	50	73	152
28	190	97	105	220	1,700	545	917	181	68	56	71	91
29	170	196	100	190	1,400	560	818	175	72	112	74	86
30	150	540	944	170	------	763	680	172	78	226	62	143
31	140	------	2,850	160	------	708	------	165	------	139	52	------
TOTAL	5,034	2,904	15,088	20,730	30,609	41,814	68,340	15,843	3,524	2,648	3,643	1,497
MEAN	162	96.8	487	669	1,055	1,349	2,278	511	117	85.4	118	49.9
MAX	986	540	2,850	1,860	3,860	5,400	8,310	2,100	165	226	595	152
MIN	52	56	100	160	152	500	290	165	68	47	46	27
CFSM	.35	.21	1.06	1.45	2.29	2.93	4.94	1.11	.25	.19	.26	.11
IN.	.41	.23	1.22	1.67	2.47	3.37	5.51	1.28	.28	.21	.29	.12

CAL YR 1971 TOTAL 201,784 MEAN 553 MAX 11,000 MIN 52 CFSM 1.20 IN 16.28
WTR YR 1972 TOTAL 211,674 MEAN 578 MAX 8,310 MIN 27 CFSM 1.25 IN 17.08

PEAK DISCHARGE (BASE, 7,500 CFS).—Apr. 17 (0700) 9,480 cfs (14.56 ft).

03303000 Blue River near White Cloud, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC. 09...	1130	11.0	878	66	156
JAN. 13...	1200	9.0	797	42	90
FEB. 17...	1315	7.5	1260	60	204
MAR. 16...	1230	10.5	1980	185	989
APR. 19...	1200	14.0	2150	90	522

03303300 Middle Fork Anderson River at Bristow, Ind.

LOCATION.—Lat 38°08'19", long 86°43'16", in SW 1/4 NE 1/4 sec.27, T.4 S., R.3 W., Perry County, on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 miles downstream from Coon Branch, and 6.0 miles upstream from Sulphur Fork Creek.

DRAINAGE AREA.—39.8 sq mi (revised).

PERIOD OF RECORD.—August 1961 to current year.

GAGE.—Water-stage recorder. Datum of gage is 395.00 ft above mean sea level.

AVERAGE DISCHARGE.—11 years, 51.5 cfs (17.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,820 cfs Apr. 14 (gage height, 15.92 ft); no flow Sept. 7-22.
Period of record: Maximum discharge, 6,360 cfs Mar. 9, 1964; maximum gage height, 19.33 ft Mar. 4, 1964; no flow many days each year.
Flood of Jan. 21, 1959, reached a stage of 20.0 ft (from floodmark), discharge, 15,000 cfs (from rating curve extended above 7,000 cfs). This is the maximum flood since 1905, from information by local resident.

REMARKS.—Records good. Occasional regulation of Soil Conservation Service control structure No. 6 may affect peaks and recessions.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	21	14	139	31	151	42	39	9.4	.60	.44	.08
2	9.4	20	13	101	35	476	37	37	9.0	.72	.60	.08
3	9.0	19	13	79	45	393	35	33	8.7	1.1	50	.08
4	13	18	12	121	41	347	41	29	7.8	1.6	166	.08
5	10	18	12	159	35	234	39	28	6.8	.56	18	.04
6	11	19	17	110	43	113	37	25	6.0	.48	4.5	.01
7	11	20	146	83	57	93	37	23	4.2	.48	3.1	0
8	11	19	80	72	46	118	33	73	1.5	.44	2.3	0
9	15	18	54	188	41	92	29	246	1.2	.48	2.6	0
10	16	18	58	220	35	119	28	131	1.2	.48	2.3	0
11	16	18	59	141	36	118	93	77	1.1	.44	2.3	0
12	16	17	55	96	58	110	826	53	1.0	.44	2.2	0
13	16	17	49	76	129	115	452	91	1.0	.44	2.1	0
14	18	17	44	59	141	73	974	116	1.1	.48	2.0	0
15	20	16	142	44	178	93	811	85	1.2	.60	1.9	0
16	38	16	148	34	138	398	850	61	1.3	.72	1.8	0
17	23	16	93	32	99	332	631	46	1.2	.56	1.6	0
18	21	16	65	33	78	238	506	36	1.0	.52	1.1	0
19	20	18	53	39	62	115	481	29	.92	.48	.68	0
20	19	18	78	66	50	78	672	24	.86	.48	.60	0
21	19	17	71	65	45	63	538	20	.76	.48	.28	0
22	43	12	56	55	41	55	493	18	.72	.44	1.2	0
23	42	11	47	49	56	46	451	15	.68	.44	.72	.64
24	102	11	41	46	348	39	413	13	.60	.44	.44	.76
25	69	11	37	39	413	35	361	12	.56	.48	.32	.64
26	42	10	35	33	433	30	229	10	.56	.44	.24	.68
27	33	12	32	33	318	58	70	10	.52	.48	2.9	.60
28	28	12	34	44	170	68	51	10	.52	1.2	2.3	.60
29	25	18	32	38	100	62	46	10	.56	.80	.52	.64
30	24	16	256	33	------	56	41	10	.60	.48	.24	.68
31	22	------	285	29	------	48	------	9.4	------	.44	.16	------
TOTAL	771.0	489	2,131	2,356	3,302	4,366	9,347	1,419.4	72.56	18.22	275.44	5.61
MEAN	24.9	16.3	68.7	76.0	114	141	312	45.8	2.42	.59	8.89	.19
MAX	102	21	285	220	433	476	974	246	9.4	1.6	166	.76
MIN	9.0	10	12	29	31	30	28	9.4	.52	.44	.16	0
CFSM	.59	.39	1.64	1.81	2.72	3.37	7.45	1.09	.06	.01	.21	.005
IN.	.68	.43	1.89	2.09	2.93	3.88	8.30	1.26	.06	.02	.24	.004

CAL YR 1971 TOTAL 17,608.32 MEAN 48.2 MAX 676 MIN .44 CFSM 1.15 IN 15.63
WTR YR 1972 TOTAL 24,553.23 MEAN 67.1 MAX 974 MIN 0 CFSM 1.60 IN 21.80

PEAK DISCHARGE (BASE, 2,000 CFS).—No peak above base.

03303300 Middle Fork Anderson River at Bristow, Ind.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.					
09...	1230	7.5	18	5	.24
DEC.					
14...	1130	9.0	42	10	1.1
FEB.					
28...	1415	7.0	140	9	3.4
MAR.					
29...	1150	9.5	66	29	5.2
MAY					
02...	0830	17.0	38	16	1.6
JUNE					
06...	1450	--	6.0	19	.31
JULY					
12...	0930	25.0	.44	9	.01

03303400 Crooked Creek at Santa Claus, Ind.

LOCATION.—Lat 38°07'05", long 86°53'24", in SW 1/4 SE 1/4 sec.31, T.4 S., R.4 W., Spencer County, on right bank at upstream side of county road bridge, 1.3 miles east of Santa Claus Post Office, and 1.8 miles upstream from unnamed right-bank tributary.

DRAINAGE AREA.—7.86 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 404.34 ft above mean sea level.

EXTREMES.—Water year 1971: Maximum discharge, 549 cfs Feb. 21 (gage height, 8.78 ft); no flow Oct. 1-8, July 4, 5, 21-23, Aug. 14-24.
Water year 1972: Maximum discharge, 908 cfs Apr. 14 (gage height, 9.04 ft); no flow June 24-30, July 1, 13, 14, 24-27, Aug. 15-31, Sept. 5-20.
Period of record: Maximum discharge, 4,100 cfs Apr. 28, 1970 (gage height, 9.74 ft); no flow many days each year.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.6	1.9	2.2	1.7	8.0	13	2.3	1.5	.05	.05	.11
2	0	3.1	1.4	2.0	1.5	6.8	14	4.1	1.3	.03	.02	.07
3	0	2.9	1.6	27	1.4	6.5	6.5	2.7	1.1	.02	.02	.07
4	0	2.6	2.4	101	64	6.3	4.6	1.9	.42	0	14	.07
5	0	2.3	1.8	17	59	6.8	3.6	1.9	.31	0	.67	.05
6	0	1.8	1.2	10	16	9.9	21	15	.21	.02	.22	8.5
7	0	1.5	.95	6.0	12	9.9	20	26	.16	.03	.15	9.4
8	0	1.2	1.1	5.2	9.0	7.3	12	16	11	.02	.11	1.2
9	2.6	2.1	1.1	4.0	7.0	6.0	7.5	7.8	.82	.02	.07	.40
10	.34	3.9	.90	3.5	5.8	37	5.1	4.8	.37	.03	.06	.24
11	.08	2.9	1.3	3.1	5.0	18	4.1	6.3	.22	.03	.04	.48
12	4.4	2.7	2.6	3.6	139	12	3.6	7.5	18	.02	.02	.29
13	25	2.2	2.5	161	63	9.0	3.7	6.5	2.3	.02	.01	.21
14	52	3.7	2.5	67	37	8.0	5.3	3.7	.82	.48	0	.16
15	8.4	4.7	2.4	18	20	39	3.9	2.5	.71	.11	0	.14
16	3.1	3.3	66	12	11	14	3.2	1.9	.74	.06	0	.09
17	2.1	2.8	23	11	53	8.8	2.7	1.1	.37	.05	0	.08
18	1.5	2.6	8.0	6.8	22	8.0	2.1	.74	.26	.03	0	.08
19	1.2	18	5.2	5.6	52	11	1.7	.59	.21	.02	0	.11
20	36	130	3.9	4.5	28	8.0	1.4	.42	.16	.01	0	15
21	7.3	9.4	129	3.9	76	6.5	1.3	.31	.15	0	0	2.2
22	3.9	6.7	94	3.3	185	5.1	.88	.24	.14	0	0	.75
23	2.9	4.2	24	3.1	25	4.1	.78	.24	.11	0	0	.34
24	2.4	3.6	12	2.9	14	3.4	.67	.78	.09	3.4	0	.17
25	1.8	3.3	8.8	2.7	11	3.2	.52	1.5	.08	.18	27	.18
26	1.4	2.9	7.0	2.4	20	3.4	.52	.33	.06	.09	64	.38
27	1.2	2.6	5.0	2.2	15	2.8	20	2.8	.05	.06	.52	.23
28	1.8	2.2	4.1	2.1	9.7	2.8	17	.82	.04	.71	.22	.14
29	13	2.1	3.3	1.9	------	2.2	5.8	.44	.03	.18	.12	.09
30	4.4	2.0	2.7	2.3	------	1.8	3.6	.31	.02	.08	.55	.06
31	3.1	------	2.4	1.9	------	1.6	------	.22	------	.08	.33	------
TOTAL	179.92	235.9	424.05	499.2	963.1	277.2	190.07	121.74	41.75	5.83	108.18	41.29
MEAN	5.80	7.86	13.7	16.1	34.4	8.94	6.34	3.93	1.39	.19	3.49	1.38
MAX	52	130	129	161	185	39	21	26	18	3.4	64	15
MIN	0	1.2	.90	1.9	1.4	1.6	.52	.22	.02	0	0	.05
CFSM	.74	1.00	1.74	2.05	4.38	1.14	.81	.50	.18	.02	.44	.18
IN.	.85	1.12	2.01	2.36	4.56	1.31	.90	.58	.20	.03	.51	.20

CAL YR 1970 TOTAL 3,894.74 MEAN 10.7 MAX 650 MIN 0 CFSM 1.36 IN 18.43
WTR YR 1971 TOTAL 3,088.23 MEAN 8.46 MAX 185 MIN 0 CFSM 1.08 IN 14.62

PEAK DISCHARGE (BASE, 500 CFS).—Nov. 20 (0115) 516 cfs (8.72 ft). Feb. 21 (2330) 549 cfs (8.78 ft).

03303400 Crooked Creek at Santa Claus, Ind.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.20	1.1	9.1	2.5	38	3.9	4.7	.15	0	.10	M.A
2	.05	.30	.90	12	3.7	126	3.1	4.1	.13	.46	.09	1.3
3	.85	.20	.90	6.A	5.9	32	3.1	2.3	.10	2.A	.09	.15
4	3.3	.14	.75	29	3.7	22	4.1	1.9	.09	.97	.2A	.03
5	.65	.14	.75	17	2.2	14	3.5	1.7	.17	.24	.13	0
6	.30	.65	4.3	A.5	5.5	10	3.3	1.5	.13	.11	.15	0
7	.14	.95	53	7.2	A.5	10	3.3	1.4	.10	.09	.19	0
A	.13	.50	A.9	7.A	A.6	10	2.1	A.9	.0A	.07	.11	0
9	.13	.A0	9.7	56	3.3	6.A	1.A	5.5	.09	.04	.0A	0
10	.09	.3A	12	24	3.1	5.7	2.1	2.3	.2A	.03	.05	0
11	.0A	.34	6.2	12	5.7	5.3	69	1.7	.13	.02	.03	0
12	.05	.30	4.3	7.A	1A	4.5	253	1.4	.11	.01	.03	0
13	.13	.30	2.9	6.2	31	15	2A	19	.11	0	.02	0
14	.23	.23	2.9	3.7	2A	12	301	A.2	.10	0	.01	0
15	.13	.20	25	2.2	33	58	289	3.5	.15	.A4	0	0
16	.3A	.1A	A.5	1.5	14	147	225	2.2	.13	.62	0	0
17	.1A	.1A	4.9	2.0	10	36	2A	1.7	.0A	.22	0	0
1A	.14	.1A	2.9	2.6	A.3	16	14	1.1	.07	.15	0	0
19	.13	.34	3.5	3.3	5.7	9.5	11	.A0	.07	.10	0	0
20	.09	.30	9.7	5.3	4.5	7.4	174	.62	.04	.0A	0	0
21	.09	.23	5.3	4.5	4.7	6.A	53	.52	.03	.04	0	.19
22	1.2	.1A	3.5	4.3	3.9	A.2	29	.4A	.03	.03	0	.15
23	.A5	.16	3.1	3.7	27	4.5	20	.36	.01	.01	0	.11
24	3.1	.23	2.A	3.5	148	3.7	11	.30	0	0	0	.11
25	2.2	.2A	2.5	2.0	124	3.3	7.3	.2A	0	0	0	.11
2A	1.2	.30	2.5	1.A	59	2.9	5.3	.24	0	0	0	.10
27	.90	.90	2.2	2.4	19	7.2	3.9	.20	0	0	0	.09
2A	.55	.A5	3.9	4.9	12	5.9	3.0	.19	0	11	0	.0A
29	.3A	4.3	2.5	3.1	A.9	9.5	3.1	.20	0	.93	0	.0A
30	.34	1.9	117	2.1	------	A.2	2.7	.33	0	.24	0	.0A
31	.2A	------	1A	2.0	------	4.9	------	.20	------	.15	0	------
TOTAL	1A.2A	15.90	326.20	258.1	A09.7	A46.3	1,55A.6	75.7A	2.38	19.25	1.34	11.3A
MEAN	.59	.53	10.5	A.33	21.0	20.A	52.0	2.44	.079	.62	.043	.3A
MAX	3.3	4.3	117	56	148	147	301	19	.2A	11	.24	A.A
MIN	.05	.14	.75	1.5	2.2	2.9	1.A	.19	0	0	0	0
CFSM	.0A	.07	1.34	1.06	2.67	2.65	6.62	.31	.01	.0A	.00A	.05
IN.	.09	.0A	1.54	1.22	2.A9	3.0A	7.3A	.36	.01	.09	.00A	.05

CAL YR 1971 TOTAL 2,60A.74 MEAN 7.15 MAX 185 MIN 0 CFSM .91 IN 12.35
WTR YR 1972 TOTAL 3,543.21 MEAN 9.6A MAX 301 MIN 0 CFSM 1.23 IN 16.77

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-12	0215	9.00	820	04-15	0645	8.95	740
04-14	0300	9.04	908	04-16	0330	8.81	570

03322100 Pigeon Creek at Evansville, Ind.

LOCATION.—Lat 38°00'14", long 87°32'19", in NE 1/4 NW 1/4 sec.16, T.6 S., R.10 W., on left bank in the median strip of Old U.S. 41, between two steel truss bridges at Evansville, and at mile 5.94.

DRAINAGE AREA.—323 sq mi.

PERIOD OF RECORD.—October 1960 to current year.

GAGE.—Water-stage recorder. Datum of gage is 352.24 ft above mean sea level. Nonrecording auxiliary gage at site 1.3 miles upstream at same datum. Prior to October 1, 1968, water-stage recorder, and October 1, 1968, to September 30, 1971, nonrecording gage at site 1.3 miles upstream, was used as base gage, and present base gage was used as auxiliary gage.

AVERAGE DISCHARGE.—11 years, 291 cfs (12.23 inches per year).

EXTREMES.—Current year: Maximum daily discharge, 6,340 cfs Apr. 16; maximum gage height, 21.60 ft Apr. 18 (from floodmark; backwater from Ohio River); minimum daily discharge, 2.4 cfs Sept. 12.
Period of record: Maximum discharge, 12,100 cfs May 10, 1961 (gage height, 27.94 ft); minimum daily (unaffected by backwater), 1 cfs Aug. 30 to Sept. 1, Oct. 11, 12, 21, 22, 26, 1964; zero or reverse flow occurs at times due to extreme stages on the Ohio River.

REMARKS.—Records good, except those during periods of backwater from the Ohio River, which are poor.

REVISIONS.—Revised figures of discharge, in cubic feet per second, for the water year 1971, superseding those published in WRD Ind. 1971, are given herein:

Sept. 28, 1971.....	160
Sept. 29.....	105
Sept. 30.....	83

Month	Cfs-days	Maximum	Minimum	Mean	Per Square Mile	Runoff in Inches
September 1971	12,602	1,970	12	420	1.29	1.44
Water Year 1971	79,835.1	1,970	5.1	219	.67	9.11

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	18	22	362	50	800	273	650	21	25	227	5.7
2	45	20	22	271	60	3,500	195	350	18	20	112	4.6
3	59	18	21	215	70	1,000	150	250	15	17	74	4.6
4	147	18	21	229	75	550	128	200	126	450	324	5.2
5	122	17	20	302	73	350	116	166	265	300	534	8.4
6	105	24	71	257	192	250	102	114	201	72	207	9.7
7	97	22	358	185	370	220	101	99	134	26	120	11
8	69	15	470	190	305	250	104	97	70	16	82	8.4
9	48	19	426	380	211	200	92	101	48	10	51	7.4
10	36	21	288	420	115	170	560	102	36	7.9	38	6.8
11	29	20	230	300	100	150	1,660	90	22	6.8	27	2.8
12	23	19	230	200	92	140	2,940	77	15	7.4	22	2.4
13	22	17	150	170	150	160	1,900	147	11	7.9	19	9.7
14	18	21	110	120	211	180	1,200	162	12	6.8	18	8.4
15	87	22	177	90	355	470	5,190	158	11	13	16	4.0
16	132	17	290	60	370	2,990	6,340	115	10	147	13	3.2
17	69	19	271	50	250	1,000	5,500	85	15	175	9.7	4.6
18	50	19	189	51	200	500	5,000	72	19	79	8.4	6.2
19	36	20	134	56	160	300	5,700	55	14	42	8.4	5.7
20	30	18	123	72	140	210	6,080	43	10	21	4.0	5.7
21	26	20	126	78	120	180	4,000	40	8.4	12	4.0	5.2
22	27	46	112	82	106	160	2,700	36	6.8	10	4.0	5.7
23	24	32	88	87	170	140	2,500	33	7.4	9.7	26	7.4
24	30	20	74	88	1,300	130	2,000	30	7.4	9.0	207	6.2
25	35	15	65	65	1,400	120	1,350	28	7.9	9.0	243	5.7
26	36	17	61	45	1,600	110	500	24	7.4	7.9	53	8.4
27	31	20	58	50	600	150	320	28	6.2	63	25	9.0
28	26	16	60	75	300	210	280	24	48	984	16	15
29	24	14	53	80	300	320	270	17	707	994	15	15
30	22	22	332	60	------	498	300	32	100	834	9.7	11
31	19	------	502	47	------	425	------	25	------	702	6.8	------
TOTAL	1,584	606	5,154	4,737	9,445	15,833	57,551	3,450	1,979.5	5,084.4	2,524.0	213.1
MEAN	51.1	20.2	166	153	326	511	1,918	111	66.0	164	81.4	7.10
MAX	147	46	502	420	1,600	3,500	6,340	650	707	994	534	15
MIN	18	14	20	45	50	110	92	17	6.2	6.8	4.0	2.4
CFSM	.16	.06	.51	.47	1.00	1.57	5.88	.34	.20	.50	.25	.02
IN.	.18	.07	.59	.54	1.08	1.81	6.57	.39	.23	.58	.29	.02

CAL YR 1971 TOTAL 75,222.7 MEAN 206 MAX 1,970 MIN 5.1 CFSM .63 IN 8.58
WTR YR 1972 TOTAL 108,161.0 MEAN 296 MAX 6,340 MIN 2.4 CFSM .91 IN 12.34

03322500 Wabash River near New Corydon, Ind.

LOCATION.—Lat 40°33'50", long 84°48'10", in NE 1/4 SE 1/4 sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft downstream from county bridge on Indiana-Ohio State line road, 2 miles east of New Corydon, 2.8 miles downstream from Beaver Creek, and at mile 465.6.

DRAINAGE AREA.—262 sq mi.

PERIOD OF RECORD.—April 1951 to current year.

GAGE.—Water-stage recorder. Datum of gage is 830.10 ft above mean sea level. Prior to June 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—21 years, 181 cfs (9.38 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,010 cfs Apr. 20 (gage height, 18.45 ft); minimum daily, 6.0 cfs Nov. 16. Period of record: Maximum discharge, 8,720 cfs Jan. 22, 1959 (gage height, 20.47 ft, from floodmarks); minimum daily, 0.8 cfs Dec. 22, 23, 1963.

REMARKS.—Records poor. Occasional regulation by Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

REVISIONS (WATER YEARS).—WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	23	573	251	138	96	366	248	35	19	12
2	15	11	63	345	251	1,400	82	356	200	122	17	12
3	12	10	110	283	241	941	72	330	150	409	16	16
4	10	9.9	113	260	226	336	78	280	140	430	32	19
5	9.7	8.8	110	240	180	163	84	260	130	233	15	14
6	9.3	8.0	138	220	130	106	78	250	120	187	14	13
7	9.3	8.0	416	200	100	98	1,660	250	120	162	13	13
8	8.8	8.0	618	248	90	88	1,580	324	110	120	12	14
9	9.7	7.3	360	378	80	74	623	420	100	80	11	14
10	13	7.5	267	773	70	63	355	492	85	65	11	12
11	12	8.0	470	510	70	62	242	404	70	50	9.7	12
12	9.5	7.5	344	366	70	62	185	350	60	45	10	272
13	8.2	7.1	238	323	70	358	2,140	300	143	45	11	260
14	10	6.9	428	283	179	375	1,270	418	173	127	9.3	742
15	14	6.4	2,050	220	225	190	466	953	157	141	17	550
16	12	6.0	1,380	170	216	146	582	828	162	262	13	157
17	9.9	6.2	590	140	185	126	1,030	583	130	175	9.7	109
18	8.6	7.5	376	130	177	105	438	478	110	144	8.8	104
19	7.5	9.7	266	130	140	89	293	422	85	287	10	123
20	7.7	11	242	170	110	79	2,800	330	65	272	28	103
21	8.8	11	248	220	80	72	2,610	280	147	181	18	90
22	18	9.7	242	324	60	70	2,770	250	157	149	16	82
23	86	8.8	219	398	50	71	2,090	230	145	110	16	629
24	79	8.8	164	270	45	65	1,160	210	110	80	15	1,760
25	69	9.7	180	180	40	59	649	200	90	60	14	570
26	50	10	193	150	37	54	519	190	65	45	14	1,870
27	37	11	207	144	37	59	450	180	45	35	14	3,020
28	29	14	214	185	37	158	397	180	40	30	12	974
29	21	14	216	249	46	156	366	170	50	26	12	714
30	16	18	1,580	258	------	177	350	258	70	23	13	1,510
31	14	------	1,830	250	------	120	------	295	------	21	13	------
TOTAL	644.0	280.8	13,895	8,590	3,493	6,060	25,515	10,837	3,477	4,151	443.5	13,790
MEAN	20.8	9.36	448	277	120	195	851	350	116	134	14.3	460
MAX	86	18	2,050	773	251	1,400	2,800	953	248	430	32	3,020
MIN	7.5	6.0	23	130	37	54	72	170	40	21	8.8	12
CFSM	.08	.04	1.71	1.06	.46	.74	3.25	1.34	.44	.51	.05	1.76
IN.	.09	.04	1.97	1.22	.50	.86	3.62	1.54	.49	.59	.06	1.96

CAL YR 1971 TOTAL 56,100.7 MEAN 154 MAX 2,390 MIN 5.0 CFSM .59 IN 7.97
WTR YR 1972 TOTAL 91,176.3 MEAN 249 MAX 3,020 MIN 6.0 CFSM .95 IN 12.95

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	2100	16.88	2,760	04-20	2100	18.45	4,010
04-07	2100	17.67	2,680	09-26	2400	16.50	3,840
04-13	1000	17.42	2,600				

03322500 Wabash River near New Corydon, Ind.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
DEC.												
15...	0930	.22	.020	7.3	4.8	.30	1.0	--	--	--	--	--
MAR.												
23...	1030	.49	.090	5.1	1.1	.29	.40	--	--	--	--	--
JUNE												
13...	1130	.65	.140	2.0	.27	.13	.38	--	--	--	--	--
JULY												
19...	0900	.71	.100	4.0	14	.21	3.7	364	241	.50	3730	3370
AUG.												
23...	0945	.87	.100	.70	1.9	.20	.43	726	31.4	.99	810	84
SEP.												
20...	0930	.98	.130	2.4	1.6	.29	.50	506	143	.69	612	106

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT.									
19...	0900	7.5	14.5	21.0	1300	7.9	20	130	50
NOV.									
17...	0915	5.8	11.0	12.5	1310	8.2	20	140	53
DEC.									
15...	0930	2120	8.5	18.5	360	7.7	200	47	12
JAN.									
19...	1000	E130	.5	-1.0	690	8.3	15	81	18
FEB.									
16...	0930	214	1.5	-2.0	550	8.4	3	49	23
MAR.									
23...	1030	71	5.5	-2.0	1050	7.9	10	130	42
APR.									
19...	1000	270	14.5	15.5	625	7.9	55	74	28
MAY									
17...	0930	612	16.0	18.0	460	8.5	30	58	16
JUNE									
13...	1130	146	25.0	25.5	650	7.9	70	74	31
JULY									
19...	0900	245	25.0	28.0	450	7.8	100	84	27
AUG.									
23...	0945	16	24.0	28.5	950	7.5	40	110	45
SEP.									
20...	0930	105	19.0	19.5	800	7.5	45	93	29

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.									
19...	274	270	260	84	3.8	37	5.4	1800	--
NOV.									
17...	284	190	290	90	7.1	64	4.6	760	210
DEC.									
15...	85	120	43	22	9.2	79	8.4	10200	--
JAN.									
19...	141	34	100	38	12.9	89	5.4	4300	1560
FEB.									
16...	128	67	77	42	13.4	96	8.6	9600	--
MAR.									
23...	257	170	190	48	10.6	84	4.2	2900	360
APR.									
19...	172	70	98	26	7.4	72	5.8	7400	980
MAY									
17...	120	39	69	22	8.5	85	8.8	46000	1800
JUNE									
13...	166	190	120	30	6.7	80	7.2	3200	>200
JULY									
19...	195	38	81	30	3.3	39	9.2	8230000	90000
AUG.									
23...	230	200	250	58	6.4	75	7.7	24500	600
SEP.									
20...	198	120	140	40	6.3	67	6.8	110000	896000

03322900 Wabash River at Linn Grove, Ind.

LOCATION.—Lat 40°39'22", long 85°01'58", in SE 1/4 SE 1/4 sec.34, T.26 N., R.13 E., Adams County, on right bank 10 ft downstream from bridge on Stage Highway 118, 800 ft downstream from Shoemaker ditch, 0.8 mile north of Linn Grove, and 2.2 miles upstream from Rice ditch.

DRAINAGE AREA.—453 sq mi.

PERIOD OF RECORD.—September 1964 to current year.

GAGE.—Water-stage recorder. Datum of gage is 808.00 ft above mean sea level.

AVERAGE DISCHARGE.—8 years, 319 cfs (9.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,120 cfs Apr. 22 (gage height, 12.78 ft); minimum daily, 20 cfs Aug. 19.
Period of record: Maximum discharge, 6,620 cfs Dec. 11, 1966 (gage height, 13.01 ft); minimum daily, 5.1 cfs Oct. 8, 1964.
Flood in April 1964 reached a stage of 13.13 ft, from floodmark (discharge, 6,900 cfs).

REMARKS.—Records good. Occasional regulation of Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

REVISIONS (WATER YEARS).—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	43	48	2,440	300	302	335	556	422	70	39	21
2	50	41	46	1,890	270	1,470	228	556	308	53	36	23
3	41	36	80	1,110	250	2,330	178	510	245	745	35	26
4	68	34	156	660	210	2,700	178	461	213	1,250	58	27
5	72	32	162	500	190	1,680	200	425	198	1,030	65	28
6	46	31	329	450	170	672	192	407	193	466	36	26
7	35	30	1,220	400	150	314	1,620	401	190	239	33	23
8	31	28	1,540	350	130	242	2,780	410	178	164	31	22
9	35	27	1,480	400	120	183	3,740	714	140	126	29	21
10	40	27	1,170	1,060	120	142	2,540	822	115	99	25	21
11	39	26	993	1,120	120	120	1,510	676	101	79	23	22
12	37	25	921	921	120	120	1,120	524	87	69	23	683
13	33	25	680	640	120	398	2,240	461	85	71	22	1,170
14	30	24	804	496	130	1,020	3,370	545	160	78	23	1,230
15	28	23	1,710	335	422	979	3,060	1,110	242	112	24	1,500
16	30	22	2,260	250	514	604	2,130	1,370	190	612	26	1,370
17	31	22	2,500	220	389	404	1,880	1,340	183	532	30	564
18	29	21	1,740	210	344	299	2,040	912	156	397	22	312
19	28	21	961	210	260	220	1,500	588	111	979	20	337
20	26	21	503	220	220	172	2,820	486	88	933	24	257
21	24	23	392	280	190	152	5,390	437	107	566	38	162
22	323	24	362	566	160	152	5,740	413	142	282	30	106
23	604	23	326	696	130	160	5,300	389	147	164	23	300
24	380	22	272	500	120	146	4,230	377	109	125	23	1,220
25	272	22	215	350	110	126	2,810	362	85	93	23	1,480
26	195	21	236	300	100	114	1,830	350	67	72	23	2,090
27	140	22	254	299	95	124	1,260	344	59	62	22	2,260
28	99	24	284	293	94	437	939	332	55	59	22	2,600
29	73	26	275	308	104	620	759	293	50	52	22	2,580
30	59	41	993	300	------	912	640	507	129	46	21	2,100
31	50	------	1,770	330	------	570	------	489	------	43	21	------
TOTAL	3,015	807	24,682	18,104	5,652	17,884	62,559	17,567	4,555	9,668	892	22,581
MEAN	97.3	26.9	796	584	195	577	2,085	567	152	312	28.8	753
MAX	604	43	2,500	2,440	514	2,700	5,740	1,370	422	1,250	65	2,600
MIN	24	21	46	210	94	114	178	293	50	43	20	21
CFSM	.21	.06	1.76	1.29	.43	1.27	4.60	1.25	.34	.69	.06	1.66
IN.	.25	.07	2.03	1.49	.46	1.47	5.14	1.44	.37	.79	.07	1.85

CAL YR 1971 TOTAL 108,089 MEAN 296 MAX 3,740 MIN 11 CFSM .65 IN 8.88
WTR YR 1972 TOTAL 187,966 MEAN 514 MAX 5,740 MIN 20 CFSM 1.13 IN 15.44

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	0400	9.83	2,640	04-14	1800	11.11	3,710
01-01	1300	9.65	2,520	04-22	0300	12.78	6,120
03-04	0200	10.18	2,880	09-28	2000	9.90	2,680
04-09	0500	11.38	3,990				

03322900 Wabash River at Linn Grove, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT

WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.												
12...	0845	10.0	38	47	4.8	--	--	--	--	--	--	--
NOV.												
16...	1220	11.0	22	44	2.6	--	--	--	--	--	--	--
DEC.												
15...	1035	--	1460	329	1470	69	79	85	91	96	98	100
29...	1335	3.0	277	46	34	--	--	--	--	--	--	--
FEB.												
29...	1120	4.5	93	32	8.0	--	--	--	--	--	--	--
MAY												
18...	1205	18.0	902	86	209	--	--	--	--	--	--	--
JUNE												
14...	1520	24.0	159	72	31	--	--	--	--	--	--	--

03323450 Huntington Lake near Huntington, Ind.

LOCATION.—Lat 40°50'43", long 85°28'06", in SW 1/4 SW 1/4 sec.25, T.28 N., R.9 E., Huntington County, on right bank at upstream side of State Highway 5, 1.5 miles southeast of Huntington, and at mile 411.4.

DRAINAGE AREA.—717 sq mi.

PERIOD OF RECORD.—January 1969 to current year. Prior to September 1970, published as Huntington "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 64,830 acre-ft Apr. 25 (elevation, 780.00 ft); minimum, 3,380 acre-ft Jan. 12 (elevation, 735.46 ft).
Period of record: Maximum contents, 64,830 acre-ft Apr. 25, 1972 (elevation, 780.00 ft); minimum, 240 acre-ft Mar. 5, 1969 (elevation, 733.84 ft), lowered reservoir for repairs.

REMARKS.—Reservoir is formed by concrete and rolled-earth fill dam which is State Highway 5. Releases normally controlled by six sluices, 6.0 ft wide and 6.0 ft high and by spillway (crest elevation, 765 ft), with three taintor gates, 45 ft by 36.5 ft setting atop spillway. Minimum design capacity is 4,100 acre-ft (elevation, 737 ft). Seasonal pool capacity is 12,500 acre-ft (elevation, 749 ft). Capacity at flood control pool is 153,100 acre-ft (elevation, 798 ft). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	747.05	10,780	-
Oct. 31	742.42	7,300	-3,480
Nov. 30	737.14	4,190	-3,110
Dec. 31	742.75	7,520	+3,330
Calendar year 1971	-	-	+3,210
Jan. 31	737.06	4,150	-3,370
Feb. 29	737.04	4,140	-10
Mar. 31	741.85	6,920	+2,780
Apr. 30	770.35	41,310	+34,390
May 31	749.39	12,840	-28,470
June 30	749.10	12,570	-270
July 31	749.01	12,490	-80
Aug. 31	748.70	12,210	-280
Sept. 30	763.51	29,550	+17,340
Water year 1972	-	-	+18,770

03323500 Wabash River at Huntington, Ind.

LOCATION.—Lat 40°51'20", long 85°29'53", in SW 1/4 NE 1/4 sec.27, T.28 N., R.9 E., Huntington County, on right bank at the Huntington Water and Light Plant, 2 miles south of Huntington, 2.4 miles downstream from Huntington Lake, 3.2 miles upstream from Little River, and at mile 409.

DRAINAGE AREA.—721 sq mi.

PERIOD OF RECORD.—January 1951 to current year.

GAGE.—Water-stage recorder and concrete dam. Datum of gage is 700.04 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 5, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—21 years, 574 cfs (10.81 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,260 cfs Apr. 16 (gage height, 14.40 ft); minimum daily, 15 cfs Aug. 18-20, Aug. 27 to Sept. 3.
Period of record: Maximum discharge, 14,900 cfs Feb. 10, 1959; maximum gage height, 23.20 ft Feb. 10, 1959 (backwater from ice); minimum daily discharge, 2.4 cfs Oct. 28, 29, 1964.
Flood in March 1913 reached a stage of 22.7 ft (from high-water mark by Corps of Engineers).

REMARKS.—Records good. Flow regulated by Huntington Lake (See sta 03323450).

REVISIONS (WATER YEARS).—WSP 1909: 1959. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	138	111	2,170	392	160	1,590	3,060	1,180	156	81	15
2	357	124	120	2,590	392	1,110	967	2,350	446	120	68	15
3	287	124	138	2,570	490	2,010	546	1,950	287	111	57	15
4	234	111	100	2,210	350	2,570	770	1,890	357	836	57	37
5	146	81	154	1,720	260	2,960	750	1,850	392	1,230	57	54
6	212	81	280	1,210	392	2,880	588	1,800	329	930	54	32
7	210	81	1,010	640	360	2,350	1,480	1,750	228	364	65	17
8	160	81	2,260	456	350	994	2,810	1,720	146	160	44	40
9	210	91	2,720	840	300	483	3,680	1,660	151	204	65	57
10	210	81	3,000	1,410	310	399	3,800	1,600	215	166	65	57
11	188	81	2,940	2,130	301	343	3,830	1,470	215	142	54	44
12	156	81	2,820	1,280	385	364	3,430	1,040	160	104	44	44
13	193	81	2,250	1,080	390	605	2,780	840	156	81	44	134
14	204	81	1,580	850	364	1,390	2,890	710	104	124	44	969
15	198	77	2,230	488	413	1,860	3,490	1,020	322	248	30	1,580
16	166	77	2,710	142	498	1,860	4,150	1,210	406	741	17	820
17	115	71	3,140	440	570	1,480	4,100	1,230	198	994	17	922
18	85	80	3,370	633	670	927	3,980	1,250	166	805	15	1,790
19	85	90	3,430	579	483	389	3,540	1,250	204	1,430	15	1,870
20	124	100	3,200	680	303	514	2,920	1,230	188	2,200	15	1,380
21	88	95	1,810	760	343	448	2,490	1,190	160	2,160	93	546
22	173	90	651	810	483	399	2,540	779	107	1,010	120	245
23	712	90	606	1,050	420	448	2,820	530	40	256	115	228
24	1,300	90	546	1,390	309	427	3,590	434	69	146	85	294
25	1,590	90	455	1,070	336	392	4,130	420	241	146	33	541
26	656	95	462	810	462	315	4,120	420	204	251	17	1,070
27	449	100	462	490	350	350	4,080	329	156	275	15	1,360
28	315	105	462	360	248	385	4,000	329	85	124	15	2,620
29	234	110	530	220	146	701	3,900	406	32	92	15	2,930
30	222	115	642	380	------	1,450	3,610	483	101	81	15	2,630
31	188	------	1,410	470	------	1,800	------	1,190	------	81	15	------
TOTAL	6,837	2,782	45,669	31,928	11,078	32,773	87,361	37,390	7,045	15,768	1,446	22,326
MEAN	317	92.7	1,471	1,030	382	1,057	2,912	1,206	235	509	46.6	744
MAX	1,590	138	3,430	2,590	670	2,960	4,150	3,060	1,180	2,200	120	2,930
MIN	85	71	100	142	146	160	546	329	32	81	15	15

CAL YR 1971 TOTAL 196,464.6 MEAN 538 MAX 4,240 MIN 8.8
WTR YR 1972 TOTAL 305,333.0 MEAN 834 MAX 4,150 MIN 15

03323500 Wabash River at Huntington, Ind.--Continued

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 28.0°C Aug. 18; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 32.0°C July 27, 1964; minimum, freezing point on many days during winter period.

REMARKS.--Temperatures affected by upstream reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	20.5	16.5	15.0	3.0	3.0	3.0	3.0	0.0	0.0	5.0	4.0
2	22.0	21.0	16.5	15.5	3.0	2.5	3.0	3.0	0.0	0.0	4.5	1.5
3	22.0	21.5	15.5	14.0	2.5	2.5	3.0	2.5	0.0	0.0	3.0	2.0
4	22.0	21.0	14.0	13.5	2.5	2.0	2.5	2.0	0.0	0.0	3.0	2.0
5	22.5	21.0	14.0	12.5	2.0	2.0	2.0	1.5	0.0	0.0	2.0	0.5
6	21.5	21.0	13.5	11.0	2.5	2.0	1.5	1.0	0.0	0.0	0.5	0.0
7	21.0	20.5	11.0	10.0	2.5	2.0	3.0	1.0	0.5	0.0	0.0	0.0
8	21.5	19.5	11.0	9.5	3.5	2.0	3.5	1.5	0.5	0.0	2.0	0.0
9	20.5	19.0	10.5	9.5	4.0	3.5	1.5	1.5	0.0	0.0	1.5	1.0
10	20.0	18.5	10.5	9.5	5.0	4.0	1.5	1.0	0.0	0.0	3.0	1.0
11	19.0	17.0	10.5	9.0	5.5	4.5	1.5	1.0	0.0	0.0	4.5	2.0
12	18.5	17.0	9.5	9.5	5.5	5.5	4.5	1.5	0.0	0.0	4.0	3.5
13	18.0	17.0	9.5	9.0	5.5	5.0	2.5	2.0	0.0	0.0	3.5	3.5
14	18.5	17.5	10.0	9.0	5.0	4.0	2.0	1.0	0.0	0.0	4.0	3.5
15	18.5	18.0	11.0	9.5	4.0	4.0	3.5	1.0	0.0	0.0	4.0	4.0
16	19.0	17.5	10.5	9.5	4.5	4.0	3.0	1.0	0.5	0.0	4.0	4.0
17	18.5	18.0	11.0	10.0	4.5	4.5	1.5	0.0	0.5	0.0	4.5	4.0
18	18.5	17.5	10.5	10.5	4.5	3.5	0.5	0.0	0.5	0.0	5.0	4.5
19	19.0	17.5	10.5	9.5	3.5	2.0	0.5	0.0	1.0	0.0	6.0	4.5
20	19.0	18.5	9.5	8.5	2.0	1.5	0.5	0.0	1.0	0.0	6.5	5.5
21	18.5	18.5	8.5	7.0	1.5	1.0	0.0	0.0	1.0	0.5	8.0	6.5
22	19.0	18.0	7.0	6.5	1.5	1.0	0.0	0.0	1.5	1.0	8.0	7.0
23	18.5	18.0	6.5	5.5	1.5	1.0	0.0	0.0	1.0	1.0	7.0	6.0
24	18.5	18.0	5.5	4.5	1.0	1.0	0.0	0.0	1.0	1.0	6.5	5.5
25	18.5	18.0	4.5	4.5	2.0	1.0	0.0	0.0	1.5	0.5	6.0	4.5
26	18.5	18.0	4.5	4.5	2.0	2.0	0.0	0.0	1.0	1.0	6.5	5.5
27	18.5	17.0	4.5	4.5	3.5	2.0	0.0	0.0	1.5	1.0	6.0	5.5
28	17.5	17.0	4.5	4.0	3.5	3.5	0.0	0.0	3.5	1.0	7.0	5.5
29	17.0	16.5	4.0	3.5	3.5	3.5	1.5	0.0	4.5	2.0	6.5	5.5
30	17.0	16.5	3.0	3.0	3.5	3.0	0.0	0.0	---	---	5.5	5.0
31	17.0	15.5	---	---	3.0	3.0	0.0	0.0	---	---	5.0	5.0
MONTH	22.5	15.5	16.5	3.0	5.5	1.0	4.5	0.0	4.5	0.0	8.0	0.0

03323500 Wabash River at Huntington, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	5.0	11.5	11.5	19.5	16.5	23.0	20.0	25.5	23.0	26.0	23.5
2	5.5	5.0	12.0	11.5	18.0	16.0	21.0	20.0	24.5	23.0	25.5	21.0
3	6.0	5.5	12.0	12.0	19.0	16.0	22.0	20.0	24.5	23.5	22.0	20.0
4	6.5	5.5	12.5	12.0	19.5	16.5	20.5	18.5	25.5	22.0	23.0	21.0
5	7.0	6.0	13.5	12.5	19.0	17.0	21.0	20.5	26.0	21.5	24.0	20.0
6	9.0	6.5	13.5	13.0	19.0	17.0	21.0	20.0	25.5	22.0	24.0	20.5
7	8.0	5.0	14.0	13.0	21.0	17.0	21.0	20.0	23.0	22.0	24.0	22.0
8	5.5	3.5	14.0	14.0	19.5	17.0	23.0	19.5	22.0	21.0	24.0	24.0
9	3.5	3.0	14.5	14.0	20.5	18.0	21.0	20.0	23.5	21.0	24.0	22.0
10	4.0	3.5	14.5	14.0	21.0	18.0	22.5	20.0	24.5	20.0	23.0	20.5
11	5.5	4.0	14.5	14.0	21.0	17.5	24.0	20.5	23.0	20.0	24.0	21.5
12	9.0	5.5	14.5	14.0	20.5	18.5	24.5	21.0	25.5	21.0	24.0	23.5
13	9.0	8.5	14.5	14.5	21.0	19.5	23.5	20.5	26.0	22.0	24.0	23.5
14	11.5	9.0	15.5	14.5	24.0	20.0	23.5	20.5	25.5	22.0	23.5	23.0
15	12.5	11.5	15.0	14.5	23.0	19.5	22.0	21.0	25.0	22.5	23.0	23.0
16	13.0	12.5	15.5	15.0	21.0	19.0	22.0	21.0	25.5	21.0	23.0	21.5
17	13.5	13.0	16.0	15.5	22.5	19.0	23.0	22.0	27.5	24.5	23.0	22.0
18	15.0	13.5	16.0	15.5	23.0	19.0	23.5	23.0	28.0	26.5	23.0	22.5
19	14.5	14.5	16.0	15.5	23.5	20.0	24.5	23.0	27.5	25.5	22.5	22.0
20	14.5	14.5	16.5	16.0	23.0	20.5	24.5	24.5	26.0	23.5	22.5	21.5
21	14.5	13.5	17.0	16.5	21.5	19.5	24.5	24.5	26.0	23.5	21.5	21.0
22	13.5	13.0	17.5	16.5	20.5	19.0	24.5	22.0	24.0	22.5	22.0	20.5
23	13.0	12.0	18.0	16.0	19.5	16.5	25.5	23.5	25.0	23.5	20.5	19.5
24	12.0	12.0	19.0	16.5	18.5	16.5	25.0	23.0	25.0	23.5	20.0	19.5
25	12.0	11.0	19.5	16.5	20.0	18.5	25.0	23.0	26.5	22.5	20.0	19.5
26	11.0	11.0	20.0	18.0	20.5	18.0	23.5	21.5	26.5	25.5	19.5	19.0
27	11.0	11.0	21.0	18.5	21.5	18.0	23.5	23.5	26.0	23.0	19.0	19.0
28	11.5	11.0	21.0	18.0	20.5	18.0	25.0	23.0	25.5	22.0	19.0	19.0
29	11.5	11.5	20.5	19.0	23.0	19.5	25.5	22.0	26.0	23.5	19.0	19.0
30	11.5	11.5	20.0	19.0	22.0	20.5	26.0	21.5	26.5	24.0	19.0	19.0
31	---	---	19.5	19.0	---	---	26.0	22.0	26.0	23.5	---	---
MONTH	15.0	3.0	21.0	11.5	24.0	16.0	26.0	18.5	28.0	20.0	26.0	19.0

03324000 Little River near Huntington, Ind.

LOCATION.—Lat 40°54'14", long 85°24'22", in NE 1/4 NW 1/4 sec.9, T.28 N., R.10 E., Huntington County, on right bank on upstream side of highway bridge, 5 miles east of Huntington.

DRAINAGE AREA.—263 sq mi.

PERIOD OF RECORD.—October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1305. Published as Little River at Huntington, January 1944 to September 1948, Little River near Huntington, October 1948 to September 1956, and Little Wabash River near Huntington, October 1956 to September 1961.

GAGE.—Water-stage recorder. Datum of gage is 728.10 ft above mean sea level. Prior to Oct. 1, 1948, nonrecording gage 4 miles downstream at datum 8.79 ft lower and Oct. 1, 1948, to September 5, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—29 years, 220 cfs (11.36 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,650 cfs Apr. 13 (gage height, 13.48 ft); minimum daily, 15 cfs Sept. 6, 7.
Period of record: Maximum discharge, 5,990 cfs Jan. 4, 1950; maximum gage height, 18.43 ft Feb. 11, 1959; minimum daily discharge, 1.1 cfs Oct. 8, 1946, site and datum then in use.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	38	52	428	70	95	290	203	177	35	24	18
2	35	37	44	293	60	602	226	199	110	35	25	18
3	30	38	38	251	50	430	181	149	145	35	32	23
4	39	36	36	205	45	213	428	119	590	31	28	21
5	38	33	36	170	40	137	341	101	189	30	24	19
6	31	30	51	193	40	100	244	92	111	27	23	15
7	27	29	516	177	40	80	1,720	87	82	25	73	15
8	26	28	958	122	40	70	1,730	88	69	25	57	24
9	34	30	536	143	40	65	1,130	122	63	26	40	22
10	49	30	861	348	40	58	813	119	64	26	29	19
11	44	29	1,100	275	40	60	494	92	52	25	25	21
12	35	29	500	192	40	67	426	81	46	23	27	35
13	31	28	289	167	40	556	2,570	87	49	23	27	218
14	27	27	366	141	45	1,330	2,050	176	56	105	24	534
15	25	27	2,180	105	135	752	903	550	618	114	33	282
16	25	26	2,100	90	158	754	1,150	315	564	192	30	111
17	25	25	1,210	103	111	578	2,010	192	207	102	26	71
18	23	25	518	119	90	345	1,160	141	119	91	23	210
19	22	26	302	158	70	241	603	114	90	394	22	262
20	22	27	235	181	60	193	1,960	98	73	408	25	121
21	22	29	193	192	58	171	1,560	88	62	188	21	79
22	61	27	157	227	54	395	1,990	78	54	101	17	59
23	268	27	142	415	52	318	1,380	68	48	69	33	89
24	167	27	141	305	50	192	624	61	51	71	39	180
25	117	26	126	200	46	152	369	55	45	57	27	117
26	90	25	131	160	46	135	268	50	39	44	42	699
27	72	29	137	140	42	146	209	47	34	40	37	646
28	62	33	142	120	46	299	167	45	32	37	27	322
29	52	36	120	100	60	462	146	46	33	33	21	531
30	46	46	722	90	------	1,040	138	232	34	30	19	775
31	41	------	1,020	80	------	449	------	343	------	28	17	------
TOTAL	1,627	903	14,959	5,890	1,708	10,485	27,280	4,238	3,906	2,470	917	5,556
MEAN	52.5	30.1	483	190	58.9	338	909	137	130	79.7	29.6	185
MAX	268	46	2,180	428	158	1,330	2,570	550	618	408	73	775
MIN	22	25	36	80	40	58	138	45	32	23	17	15
CFSM	.20	.11	1.84	.72	.22	1.29	3.46	.52	.49	.30	.11	.70
IN.	.23	.13	2.12	.83	.24	1.48	3.86	.60	.55	.35	.13	.79

CAL YR 1971 TOTAL 65,948 MEAN 181 MAX 2,180 MIN 12 CFSM .69 IN 9.33
WTR YR 1972 TOTAL 79,939 MEAN 218 MAX 2,570 MIN 15 CFSM .83 IN 11.31

PEAK DISCHARGE (BASE, 2,800 CFS).--No peak above base.

03324000 Little River near Huntington, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
27...	1350	16.5	69	51	9.5
NOV.					
30...	1310	3.0	43	30	3.5
MAR.					
15...	1405	4.5	670	115	208
APR.					
18...	1910	14.0	888	182	436
JUNE					
28...	1610	22.0	31	46	3.9
AUG.					
03...	1510	21.5	35	33	3.1

03324200 Salamonie River at Portland, Ind.

LOCATION.—Lat 40°25'40", long 85°02'20", in NE 1/4 SE 1/4 sec.23, T.23 N., R.13 E., Jay County, on right bank at downstream side of county road bridge, 2.4 miles downstream from Butternut Creek, 3.2 miles west of Portland, and 3.7 miles downstream from Little Salamonie River.

DRAINAGE AREA.—85.6 sq mi.

PERIOD OF RECORD.—September 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 877.59 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1960, nonrecording gage at site 1.4 miles upstream at datum 6.43 ft higher.

AVERAGE DISCHARGE.—13 years, 66.1 cfs (10.48 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,920 cfs Apr. 20 (gage height, 15.58 ft); minimum daily, 1.8 cfs Aug. 29, Sept. 1. Period of record: Maximum discharge, 3,460 cfs Mar. 5, 1963 (gage height, 16.96 ft); minimum daily, 0.4 cfs Sept. 27, 1965.

REMARKS.—Records good. Natural flow partially affected by sewage effluent.

REVISIONS.—WSP 2109: Drainage area. Revised figures of discharge, in cubic feet per second, for the Water Year 1971, superseding those published in WRD Ind. 1971, are given herein:

Sept. 30, 1971..... 5.3

Month	Cfs-days	Maximum	Minimum	Mean	Per Square Mile	Runoff in Inches
September 1971	257.3	46	1.2	8.58	0.10	0.11
Water Year 1971	16,337.34	1,330	.55	44.8	.52	7.10

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.0	7.7	133	21	233	56	40	22	4.4	5.0	1.8
2	3.6	5.8	6.4	131	20	1,390	41	39	13	4.2	5.3	2.6
3	2.9	5.3	6.1	115	18	424	36	32	9.6	79	10	11
4	4.4	5.0	4.7	156	17	100	64	26	7.0	54	6.7	3.1
5	5.0	4.4	4.2	123	16	45	59	22	5.8	20	6.1	2.6
6	4.7	3.9	27	60	15	35	50	19	8.6	11	3.6	2.6
7	5.0	4.2	267	40	15	30	1,750	18	6.7	9.0	5.3	2.6
8	6.7	3.6	276	33	14	25	759	24	5.6	10	3.9	4.2
9	12	4.4	100	110	13	22	244	40	5.3	6.7	3.9	2.4
10	6.7	4.7	80	315	12	20	182	50	5.3	6.4	3.4	2.3
11	3.9	4.7	341	127	11	20	112	29	3.9	5.6	2.9	4.0
12	3.6	4.2	119	75	12	28	102	22	3.6	5.0	5.3	638
13	3.6	3.6	67	61	13	466	941	26	263	7.7	3.4	270
14	5.3	2.4	353	41	15	283	234	142	228	9.3	3.6	413
15	3.4	2.9	1,320	35	25	118	106	472	65	68	9.0	232
16	5.0	3.4	492	32	60	96	677	154	138	222	4.2	66
17	4.4	3.4	137	30	38	74	626	76	38	54	3.9	36
18	3.6	3.4	73	28	30	55	137	46	22	24	3.1	28
19	4.7	4.4	47	28	25	39	104	30	15	123	6.7	52
20	5.8	3.9	44	50	20	34	2,480	23	13	48	10	31
21	5.8	3.1	61	70	15	32	1,130	18	11	22	7.0	20
22	33	3.4	52	82	13	36	1,580	15	10	13	4.7	13
23	48	3.9	38	100	12	35	707	12	9.3	9.6	4.2	473
24	35	3.9	34	94	12	27	192	10	10	8.6	3.4	942
25	25	3.6	30	50	13	24	107	9.3	7.0	7.7	3.1	254
26	18	3.4	30	40	14	23	74	8.0	7.0	6.7	3.9	1,310
27	12	6.1	33	35	15	62	56	6.4	6.4	6.1	2.6	1,200
28	9.3	4.2	38	32	24	145	44	5.0	5.6	5.8	2.3	206
29	8.0	5.6	33	31	56	150	39	5.8	5.6	5.0	1.8	415
30	6.1	7.7	1,020	26	------	231	37	27	5.8	4.2	2.6	471
31	5.0	------	712	23	------	82	------	43	------	4.2	1.9	------
TOTAL	303.7	127.5	5,853.1	2,306	584	4,384	12,726	1,489.5	956.1	864.2	142.8	7,109.2
MEAN	9.80	4.25	189	74.4	20.1	141	424	48.0	31.9	27.9	4.61	237
MAX	48	7.7	1,320	315	60	1,390	2,480	472	263	222	10	1,310
MIN	2.9	2.4	4.2	23	11	20	36	5.0	3.6	4.2	1.8	1.8
CFSM	.11	.05	2.21	.87	.23	1.65	4.95	.56	.37	.33	.05	2.77
IN.	.13	.06	2.54	1.00	.25	1.91	5.53	.65	.42	.38	.06	3.09

CAL YR 1971 TOTAL 22,018.89 MEAN 60.3 MAX 1,330 MIN .55 CFSM .70 IN 9.57
WTR YR 1972 TOTAL 36,846.10 MEAN 101 MAX 2,480 MIN 1.8 CFSM 1.18 IN 16.01

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0600	10.77	1,440	04-20	1500	15.58	2,920
12-30	1700	12.02	1,750	04-22	1030	13.13	2,080
03-02	1130	12.24	1,810	09-24	0400	11.35	1,600
04-07	1530	14.15	2,420	09-26	2000	12.83	2,020
04-16	2030	10.71	1,420				

03324300 Salamonie River near Warren, Ind.

LOCATION.—Lat 40°42'45", long 85°27'13", in SE 1/4 SE 1/4 sec.12, T.26 N., R.9 E., Huntington County, on right downstream side of county road bridge, 1,700 ft downstream from small right and left bank tributaries, 4,000 ft upstream from abandoned concrete and stone dam, and 2.4 miles northwest of Warren.

DRAINAGE AREA.—425 sq mi.

PERIOD OF RECORD.—March 1957 to current year.

GAGE.—Water-stage recorder and concrete dam. Datum of gage is 784.65 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 28, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—15 years, 362 cfs (11.37 inches per year).

EXTREMES.—Current year: Maximum discharge, 7,560 cfs Apr. 20 (gage height, 13.80 ft); minimum daily, 19 cfs, Sept. 1.
Period of record: Maximum discharge, 13,200 cfs Feb. 10, 1959 (gage height, 17.05 ft); minimum daily, 5.8 cfs, Sept. 19, 1959.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	73	125	2,370	100	394	412	227	312	98	26	19
2	52	75	118	855	96	2,690	289	209	178	69	25	27
3	50	71	105	606	85	2,860	231	190	124	312	28	48
4	52	66	97	461	81	2,500	310	163	96	1,070	31	49
5	58	63	92	550	75	723	333	141	79	343	56	52
6	55	62	185	432	70	359	286	128	73	178	40	53
7	50	60	1,570	302	69	259	3,570	120	66	116	32	47
8	47	55	2,580	231	67	228	4,050	119	65	89	29	51
9	60	57	1,460	310	63	185	3,980	197	63	74	26	43
10	69	58	1,030	1,090	58	151	2,550	248	59	64	24	37
11	73	58	1,080	944	55	134	1,020	200	54	60	26	52
12	69	59	1,050	492	56	136	797	150	51	61	38	688
13	69	63	542	345	63	318	2,010	153	66	60	30	1,530
14	63	66	933	256	73	1,260	2,250	464	1,130	84	27	1,580
15	58	66	3,320	173	118	808	1,000	1,570	891	160	63	1,720
16	55	67	3,240	160	220	533	853	1,430	374	304	36	751
17	52	68	2,480	150	150	445	2,230	628	284	444	29	313
18	50	67	825	140	162	322	1,980	349	171	282	34	293
19	50	73	429	140	125	237	878	236	120	1,150	31	394
20	50	69	314	140	100	189	6,210	181	95	789	32	319
21	52	77	283	200	90	170	5,760	147	80	331	35	194
22	125	77	279	414	80	224	6,740	127	69	177	39	130
23	386	73	250	750	75	225	5,590	111	61	115	46	499
24	318	76	223	547	75	188	4,300	99	53	100	45	1,900
25	229	74	202	350	75	163	1,910	89	46	70	38	1,900
26	170	72	193	250	75	146	730	78	44	53	33	2,510
27	137	82	195	184	75	194	487	70	42	45	32	3,630
28	115	96	199	167	84	622	360	65	38	40	29	3,120
29	97	100	182	146	113	885	290	64	42	35	27	2,570
30	87	123	826	130	------	1,510	253	137	46	30	24	2,310
31	80	------	2,460	120	------	794	------	608	------	27	20	------
TOTAL	2,938	2,146	26,867	13,405	2,668	19,852	61,659	8,698	4,872	6,830	1,031	26,829
MEAN	94.8	71.5	867	432	92.0	640	2,055	281	162	220	33.3	894
MAX	386	123	3,320	2,370	220	2,860	6,740	1,570	1,130	1,150	63	3,630
MIN	47	55	92	120	55	134	231	64	38	27	20	19
CFSM	.22	.17	2.04	1.02	.22	1.51	4.84	.66	.38	.52	.08	2.10
IN.	.26	.19	2.35	1.17	.23	1.74	5.40	.76	.43	.60	.09	2.35

CAL YR 1971 TOTAL 131,112 MEAN 359 MAX 5,400 MIN 21 CFSM .84 IN 11.48
WTR YR 1972 TOTAL 177,795 MEAN 486 MAX 6,740 MIN 19 CFSM 1.14 IN 15.56

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1700	10.34	3,570	04-20	1900	13.80	7,560
03-02	2100	9.86	3,050	04-22	1400	13.40	7,080
04-08	0100	11.25	4,580	09-27	0700	10.57	3,830

03324300 Salamonie River near Warren, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.												
01...	1025	21.5	58	30	4.7	--	--	--	--	--	--	--
26...	1240	19.0	169	87	40	--	--	--	--	--	--	--
NOV.												
29...	0920	3.0	88	32	7.6	--	--	--	--	--	--	--
MAR.												
15...	1745	5.0	626	194	328	81	89	96	98	98	99	100
APR.												
17...	1240	13.0	2280	567	3490	74	87	93	98	99	100	--
JUNE												
29...	1400	21.0	41	42	4.6	--	--	--	--	--	--	--
AUG.												
04...	1135	22.5	31	35	2.9	--	--	--	--	--	--	--

03324450 Salamonie Lake at Dora, Ind.

LOCATION.—Lat 40°48'25", long 85°40'38", SW 1/4 NW 1/4 sec.7, T.27 N., R.8 E., Wabash County, in discharge tower of reservoir on Salamonie River, 1.1 miles northwest of Dora, and 3.4 miles upstream from mouth.

DRAINAGE AREA.—553 sq mi.

PERIOD OF RECORD.—April 1967 to current year. Prior to September 1970, published as Salamonie "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 157,740 acre-ft Apr. 26 (elevation, 778.43 ft); minimum, 12,960 acre-ft Jan. 27 (elevation, 729.85 ft).
Period of record: Maximum contents, 157,740 acre-ft Apr. 26, 1972 (elevation, 778.43 ft); minimum, 10,000 acre-ft Mar. 11, 1969 (elevation, 726.44 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft wide and 16.0 ft high, in semi-elliptical conduit through dam. Minimum design capacity is 13,100 acre-ft (elevation, 730 ft). Seasonal pool capacity is 60,700 acre-ft (elevation, 755 ft). Capacity at uncontrolled spillway elevation (793 ft) is 263,600 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 17, 1967.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	751.44	51,110	-
Oct. 31	742.73	31,720	-19,390
Nov. 30	730.33	13,430	-18,290
Dec. 31	733.14	16,490	+3,060
Calendar year 1971	-	-	+3,340
Jan. 31	730.19	13,290	-3,200
Feb. 29	730.10	13,200	+90
Mar. 31	730.69	13,790	+590
Apr. 30	777.49	152,470	+138,680
May 31	755.33	61,640	-90,830
June 30	755.09	60,950	-690
July 31	755.01	60,720	-230
Aug. 31	754.98	60,640	-80
Sept. 30	761.67	82,000	+21,360
Water year 1972	-	-	+30,890

03324500 Salamonie River at Dora, Ind.

LOCATION.--Lat 40°48'42", long 85°41'02", in NE 1/4 NE 1/4 sec.12, T.27 N., R.7 E., Wabash County, on right bank 1.5 miles northwest of Dora and 3 miles upstream from mouth.

DRAINAGE AREA.--557 sq mi.

PERIOD OF RECORD.--November 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1951, nonrecording gage at site 1.5 miles upstream at datum 688.59 ft above mean sea level (levels by Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank, 2,000 ft upstream at datum 679.77 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--48 years (1924 to current year), 494 cfs (12.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,560 cfs Dec. 22 (gage height, 9.15 ft); minimum daily, 15 cfs Apr. 3, 10, 11, Sept. 8.
Period of record: Maximum discharge, 16,500 cfs May 18, 1943 (gage height, 14.75 ft, from graph based on gage readings, site and datum then in use); minimum daily, 0.70 cfs Oct. 30, 1968, result of abnormal regulation.

REMARKS.--Records good. Flow regulated by Salamonie Lake (See sta 03324450) about 0.5 mile upstream.

REVISIONS (WATER YEARS).--WSP 1275: 1931(M), 1932, 1933(M), 1935-36(M), 1938-40(M), 1941-42, 1945, 1952. WSP 1335: 1934(M). WSP 1555: 1952, 1955-56(M), 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	395	336	1,880	201	238	473	1,620	710	66	20	19
2	407	395	137	2,330	188	1,260	41	2,340	483	78	31	17
3	397	389	78	2,280	159	1,810	15	2,330	219	156	42	18
4	496	347	78	1,140	114	2,410	16	2,300	97	725	42	18
5	533	324	81	575	94	2,930	14	2,430	96	831	36	18
6	461	361	149	575	93	1,840	16	2,480	98	388	25	18
7	409	389	615	378	93	581	33	2,520	97	183	38	18
8	369	385	1,200	276	93	311	19	2,560	97	150	66	15
9	362	383	1,230	336	93	272	19	2,600	98	93	54	17
10	436	382	1,240	790	93	171	15	2,550	98	64	49	18
11	446	379	1,260	1,370	93	133	15	2,580	98	64	49	20
12	443	378	1,260	1,000	93	147	32	2,870	77	64	49	668
13	433	375	1,530	434	93	362	30	3,260	68	64	48	1,860
14	429	374	1,760	347	93	1,190	24	3,470	696	117	48	1,890
15	427	392	567	293	128	1,290	23	2,930	1,910	146	48	1,270
16	404	391	98	129	188	802	28	2,630	1,310	442	44	695
17	329	389	991	141	254	598	24	2,770	98	1,180	69	794
18	298	388	1,970	230	301	418	18	2,980	135	719	80	1,270
19	314	387	2,200	287	280	309	24	2,960	141	1,210	85	1,330
20	362	398	2,330	287	125	234	33	2,920	141	1,560	85	1,780
21	395	399	3,060	356	61	183	27	2,630	130	712	72	1,920
22	473	394	4,100	465	89	299	28	2,150	105	268	50	1,470
23	698	395	4,270	729	120	286	26	570	76	186	122	1,330
24	869	394	2,730	1,060	125	287	26	360	49	186	151	2,100
25	770	391	762	680	125	172	224	299	54	113	97	2,640
26	607	397	570	522	136	139	673	191	66	73	69	1,550
27	533	423	368	244	141	201	856	190	78	67	69	786
28	444	430	244	149	141	513	883	137	85	67	57	798
29	404	447	262	154	139	980	880	96	83	60	30	575
30	435	428	481	147	------	1,830	880	154	71	30	29	215
31	415	------	1,040	184	------	1,810	------	463	------	20	21	------
TOTAL	14,234	11,698	36,997	19,769	3,946	24,006	5,417	60,340	7,564	10,082	1,775	25,137
MEAN	459	390	1,193	638	136	774	181	1,946	252	325	57.3	838
MAX	869	447	4,270	2,330	301	2,930	883	3,470	1,910	1,560	151	2,640
MIN	298	324	78	129	61	133	15	96	49	20	20	15

CAL YR 1971 TOTAL 150,019 MEAN 411 MAX 4,640 MIN 14
WTR YR 1972 TOTAL 220,964 MEAN 604 MAX 4,270 MIN 15

03325000 Wabash River at Wabash, Ind.

LOCATION.—Lat 40°47'25", long 85°49'13", in SE 1/4 NW 1/4 sec.14, T.27 N., R.6 E., Wabash County, on right bank on upstream side of Wabash Street bridge in Wabash, 7 miles downstream from Salamonie River, and at mile 387.2.

DRAINAGE AREA.—1,768 sq mi.

PERIOD OF RECORD.—August 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 642.66 ft above mean sea level. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—49 years, 1,450 cfs (11.14 inches per year).

EXTREMES.—Current year: Maximum discharge, 9,980 cfs Apr. 13 (gage height, 13.83 ft); minimum daily discharge, 73 cfs Sept. 2, 4.
Period of record: Maximum discharge, 49,600 cfs May 18, 1943; maximum gage height, 24.44 ft Feb. 11, 1959 (ice jam); minimum daily discharge, 19 cfs July 21, 1936.
Maximum stage known, 28.7 ft Mar. 26, 1913, from floodmark, determined by Corps of Engineers (discharge, 90,000 cfs, from rating curve extended above 49,000 cfs).

REMARKS.—Records good. Flow partially regulated by Huntington Lake (See sta 03323450) and Salamonie Lake (See sta 03324450).

REVISIONS (WATER YEARS).—WSP 1275: 1931-37(M), 1938-39, 1940(M). WSP 1385: 1942. WSP 1505: 1955. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	680	615	4,400	909	513	2,990	4,960	2,500	244	161	81
2	877	648	393	5,270	717	1,870	1,690	5,500	1,490	297	157	73
3	829	638	297	5,230	500	4,300	886	4,450	759	313	159	75
4	820	596	300	4,380	480	4,520	1,350	4,370	1,030	813	151	73
5	898	525	263	2,750	430	5,940	1,480	4,390	917	2,290	150	88
6	705	515	411	1,880	400	5,230	1,080	4,370	713	1,650	127	111
7	757	583	1,900	1,640	380	3,660	5,380	4,380	558	889	163	102
8	642	625	4,790	948	380	2,020	5,440	4,370	423	483	296	97
9	596	559	4,760	1,270	380	777	5,820	4,760	381	362	235	94
10	749	547	5,720	2,070	370	789	5,360	4,510	411	334	208	113
11	790	541	6,320	3,950	370	545	4,900	4,350	428	278	191	134
12	712	563	5,160	3,430	380	610	5,080	4,050	396	261	183	739
13	680	587	4,590	1,810	380	1,030	8,940	4,140	350	228	158	2,000
14	700	553	4,500	1,520	470	4,240	6,270	4,430	652	265	151	3,550
15	697	555	7,600	1,360	639	4,710	5,020	5,120	2,480	504	154	3,710
16	678	540	6,490	547	813	3,960	6,480	4,620	3,230	1,050	132	2,150
17	559	535	5,730	693	910	3,590	8,120	4,340	913	2,350	146	1,870
18	468	530	6,290	1,120	1,030	2,160	6,490	4,510	570	2,150	147	3,180
19	446	559	5,940	1,150	1,030	1,560	5,210	4,410	553	2,270	155	3,890
20	499	607	5,940	1,150	583	1,060	8,240	4,330	515	4,410	154	3,710
21	590	570	5,800	1,310	388	1,050	5,560	4,040	478	3,390	148	3,030
22	617	549	4,760	1,520	582	1,180	6,740	3,710	378	2,190	181	2,060
23	1,270	553	5,230	2,200	639	1,380	5,370	1,520	313	814	296	1,840
24	2,270	554	4,170	3,030	534	1,140	4,760	1,020	204	502	389	2,700
25	2,580	550	1,720	2,520	494	922	5,380	913	235	436	284	3,390
26	1,950	549	1,280	1,980	563	781	5,700	751	424	333	175	4,010
27	1,070	582	1,230	1,320	645	817	5,540	716	318	443	151	3,630
28	1,060	587	1,020	786	491	1,380	5,390	560	315	362	150	3,820
29	782	652	1,020	724	485	2,410	5,260	622	252	255	103	4,740
30	884	680	2,000	638	------	4,750	5,150	824	199	205	94	4,620
31	766	------	3,790	750	------	4,690	------	1,710	------	167	87	------
TOTAL	27,971	17,312	110,029	63,246	16,372	73,584	151,076	106,746	22,389	30,538	5,436	59,680
MEAN	902	577	3,549	2,040	565	2,374	5,036	3,443	746	985	175	1,989
MAX	2,580	680	7,600	5,270	1,030	5,940	8,940	5,500	3,230	4,410	389	4,740
MIN	446	515	263	547	370	513	886	560	199	167	87	73
CFSM	.51	.33	2.01	1.15	.32	1.34	2.85	1.95	.42	.56	.10	1.13
IN.	.59	.36	2.32	1.33	.34	1.55	3.18	2.25	.47	.64	.11	1.26

CAL YR 1971 TOTAL 492,289 MEAN 1,349 MAX 8,080 MIN 69 CFSM .76 IN 10.36
WTR YR 1972 TOTAL 684,379 MEAN 1,870 MAX 8,940 MIN 73 CFSM 1.06 IN 14.40

PEAK DISCHARGE (BASE, 11,000 CFS).—No peak above base.

03325500 Mississinewa River near Ridgeville, Ind.

LOCATION.—Lat 40°16'49", long 84°59'44", in SE 1/4 SE 1/4 sec.7, T.21 N., R.14 E., Randolph County, on right bank 10 ft downstream from highway bridge, 0.8 mile downstream from Mud Creek, and 2 miles east of Ridgeville.

DRAINAGE AREA.—133 sq mi.

PERIOD OF RECORD.—August 1946 to current year.

GAGE.—Water-stage recorder. Datum of gage is 965.28 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—26 years, 121 cfs (12.35 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,600 cfs Apr. 7 (gage height, 12.27 ft); minimum daily, 7.4 cfs Sept. 10.
Period of record: Maximum discharge, 13,900 cfs June 10, 1958 (gage height, 16.25 ft);, from rating curve extended above 5,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 cfs Oct. 24, 1946.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1235: 1948. WSP 1335: 1953. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	13	252	27	320	54	90	66	23	12	8.0
2	12	12	10	243	25	1,940	46	69	45	19	12	9.0
3	10	12	9.9	186	23	667	43	55	36	507	24	11
4	9.9	11	9.8	259	22	280	79	47	29	193	15	9.6
5	8.6	11	9.7	197	20	164	67	41	27	83	11	7.7
6	8.3	11	53	128	20	100	59	38	30	50	10	7.7
7	8.0	11	304	97	20	86	2,490	38	26	37	11	7.5
8	7.8	10	232	76	20	76	1,390	62	23	31	11	7.8
9	9.2	9.6	117	228	20	58	598	183	23	27	11	7.9
10	9.4	10	97	361	20	50	410	131	25	24	10	7.4
11	7.8	9.6	121	199	23	48	226	76	18	22	9.6	7.5
12	7.5	9.6	84	132	25	51	164	60	17	22	9.5	1,030
13	7.8	9.6	61	108	33	79	211	63	759	20	9.3	709
14	16	9.6	709	76	50	101	129	282	520	19	8.6	670
15	10	9.2	2,000	55	70	75	98	860	410	124	10	296
16	9.2	8.6	800	40	55	77	602	528	332	181	9.3	105
17	9.2	9.2	325	40	45	79	410	211	124	60	8.9	57
18	8.3	9.6	185	45	35	65	165	126	78	121	8.5	99
19	8.6	10	125	72	30	51	134	89	57	811	9.2	112
20	8.6	10	103	80	28	47	2,190	70	45	148	16	56
21	8.9	10	110	112	28	49	938	58	44	63	8.9	38
22	40	8.6	90	135	26	54	2,300	49	36	42	10	29
23	91	8.2	80	174	26	47	905	43	31	31	11	1,080
24	55	8.6	74	131	25	41	340	39	30	27	10	1,210
25	47	9.2	65	100	25	41	186	34	25	25	9.0	417
26	34	8.6	67	65	28	39	132	30	23	21	8.5	1,100
27	27	9.6	66	56	36	55	98	28	20	19	8.0	821
28	21	10	65	45	51	89	79	25	19	17	7.5	310
29	16	10	56	40	95	85	69	25	42	15	7.5	729
30	15	14	1,230	35	------	95	62	82	37	13	7.5	1,160
31	13	------	702	30	------	62	------	131	------	12	7.5	------
TOTAL	566.1	300.4	7,973.4	3,797	951	4,973	14,674	3,663	3,000	2,807	321.3	10,119.1
MEAN	18.3	10.0	257	122	32.8	160	489	118	100	90.5	10.4	337
MAX	91	14	2,000	361	95	1,840	2,490	860	759	811	24	1,210
MIN	7.5	8.2	9.7	30	20	39	43	25	17	12	7.5	7.4
CFSM	.14	.08	1.93	.92	.25	1.20	3.68	.89	.75	.68	.08	2.53
IN.	.15	.08	2.23	1.06	.27	1.39	4.10	1.02	.84	.79	.09	2.83

CAL YR 1971 TOTAL 30,542.6 MEAN 83.7 MAX 2,000 MIN 4.4 CFSM .63 IN 8.54
WTR YR 1972 TOTAL 53,145.3 MEAN 145 MAX 2,490 MIN 7.4 CFSM 1.09 IN 14.86

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0200	11.12	2,440	04-20	0900	11.68	2,950
04-07	a1200	12.27	3,600	04-22	0800	11.65	2,920

a About

03326070 Big Lick Creek near Hartford City, Ind.

LOCATION.—Lat 40°25'20", long 85°21'04", in SE 1/4 SE 1/4 sec.23, T.23 N., R.10 E., Blackford County, on right bank, 6 ft downstream from bridge on County Road 100 East and 2.0 miles southeast of Hartford City.

DRAINAGE AREA.—29.2 sq mi.

PERIOD OF RECORD.—July 1971 to current year.

GAGE.—Water-stage recorder. Datum of gage is 865.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 670 cfs Apr. 20 (gage height, 13.65 ft); minimum daily, 0.52 cfs Oct. 21.
Period of record: Maximum discharge 670 cfs Apr. 20, 1972 (gage height, 13.65 ft); minimum daily, 0.38 cfs Sept. 25, 1971.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.0	4.8	55	5.2	93	30	26	8.0	3.9	3.1	1.2
2	1.8	1.8	3.1	53	4.8	363	25	24	5.1	3.2	3.6	1.8
3	1.8	1.6	2.8	42	4.5	110	22	20	3.6	242	166	5.4
4	5.4	1.3	2.8	65	4.2	63	40	17	2.2	67	54	3.9
5	6.4	.88	2.8	47	3.9	42	30	15	2.4	37	24	2.2
6	2.4	.88	22	30	3.8	25	26	14	6.0	24	16	1.4
7	3.1	1.3	96	20	3.7	22	468	14	4.5	17	16	1.8
8	3.1	1.3	35	15	3.6	20	154	16	2.4	14	12	3.6
9	6.0	1.3	38	46	3.6	18	102	32	2.8	12	8.8	4.2
10	4.8	1.4	38	74	3.5	17	70	25	3.6	10	6.4	2.4
11	1.2	1.6	56	47	3.5	16	44	18	2.6	10	4.8	2.8
12	.79	1.4	32	34	3.7	17	40	16	2.6	54	5.7	90
13	.79	1.3	21	29	4.0	54	122	25	224	21	5.1	46
14	.88	1.3	87	17	7.0	40	54	108	195	15	3.9	79
15	.88	1.3	241	14	15	36	42	141	59	40	3.9	54
16	1.0	1.3	110	13	23	32	173	62	38	54	3.6	23
17	.79	1.3	54	12	15	27	134	38	25	20	2.8	14
18	1.2	1.0	36	12	8.0	20	56	24	18	15	2.8	46
19	.88	1.0	28	15	5.0	16	54	17	14	22	2.2	56
20	.71	2.2	24	20	4.5	14	515	12	12	14	2.6	24
21	.52	1.2	30	34	4.3	14	149	10	13	9.2	2.2	15
22	14	1.0	24	58	4.2	22	444	15	8.4	7.2	2.4	11
23	18	1.0	21	56	4.2	20	199	7.6	6.8	6.0	2.4	99
24	9.2	1.0	21	45	4.3	16	92	5.1	6.4	6.4	2.6	99
25	6.4	1.0	18	30	4.5	14	64	3.6	5.7	6.0	1.8	51
26	5.4	1.4	18	20	4.8	13	50	2.8	4.5	4.5	1.6	249
27	3.9	3.4	18	12	5.1	40	40	2.6	3.4	4.2	1.3	149
28	3.4	2.6	19	10	10	66	32	2.6	2.8	3.9	1.2	75
29	2.4	2.0	16	8.0	24	71	29	2.0	10	3.4	1.4	245
30	1.4	6.0	233	6.0	------	77	30	18	11	3.4	1.6	153
31	1.0	------	119	5.6	------	40	------	15	------	3.1	1.3	------
TOTAL	111.34	47.06	1,473.3	944.6	194.9	1,440	3,372	748.3	703.8	752.4	367.1	1,648.7
MEAN	3.59	1.57	47.5	30.5	6.72	46.5	112	24.1	23.5	24.3	11.8	55.0
MAX	18	6.0	241	74	24	363	515	141	224	242	166	249
MIN	.52	.88	2.8	5.6	3.5	13	22	2.0	2.2	3.1	1.2	1.2
CFSM	.12	.05	1.63	1.04	.23	1.59	3.84	.83	.80	.83	.40	1.88
IN.	.14	.06	1.88	1.20	.25	1.83	4.30	.95	.90	.96	.47	2.10

WTR YR 1972 TOTAL 11,803.50 MEAN 32.3 MAX 515 MIN .52 CFSM 1.11 IN 15.04

PEAK DISCHARGE (BASE, 275 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1500	10.66	383	04-22	0430	12.96	601
03-02	1015	11.39	450	06-13	1430	11.22	435
04-07	0900	13.27	632	07-03	0630	10.82	399
04-16	1815	9.64	300	09-26	1600	10.76	393
04-20	0645	13.65	670	09-29	1230	10.55	374

03326500 Mississinewa River at Marion, Ind.

LOCATION.—Lat 40°34'34", long 85°39'34", in SE 1/4 NE 1/4 sec.31, T.25 N., R.8 E., Grant County, on left bank 12 ft downstream from Highland Avenue bridge in Marion, 1 mile upstream from Hummels Creek, and 4 miles downstream from Lugar Creek.

DRAINAGE AREA.—682 sq mi.

PERIOD OF RECORD.—September 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 774.56 ft above mean sea level. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—49 years, 620 cfs (12.25 inches per year).

EXTREMES.—Current year: Maximum discharge, 11,200 cfs Apr. 20 (gage height, 11.32 ft); minimum daily, 33 cfs Sept. 1.
Period of record: Maximum discharge, 25,000 cfs Mar. 21, 1927 (gage height, 17.4 ft from graph based on gage readings), from rating curve extended above 18,000 cfs; minimum daily, 3.4 cfs Oct. 25, 1968.
Flood in March 1913 reached a stage of 19.2 ft, from information by Indiana Flood Control and Water Resources Commission.

REMARKS.—Records good. Flow periodically regulated by dam above station.

REVISIONS (WATER YEARS).—WSP 1335: 1927(M). WSP 1385: 1948. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	89	81	3,290	220	582	620	515	474	250	97	33
2	100	84	81	1,680	200	3,270	462	474	370	230	100	49
3	89	81	81	1,250	180	4,820	392	439	270	1,220	212	61
4	78	78	78	1,120	170	3,490	438	382	222	1,660	606	66
5	69	73	78	1,250	169	1,550	536	330	194	1,210	350	54
6	68	71	136	1,040	160	921	557	297	190	648	218	61
7	61	71	1,000	760	160	655	5,050	284	176	398	145	54
8	61	68	2,160	585	158	523	6,530	279	162	292	126	81
9	71	71	1,700	592	155	438	5,760	315	158	234	120	61
10	59	68	1,160	1,190	142	365	2,850	384	155	202	108	59
11	61	64	1,300	1,620	142	320	1,810	487	142	176	97	98
12	61	64	1,280	1,090	139	302	1,370	350	133	176	100	214
13	59	64	830	802	140	325	1,520	350	832	335	86	556
14	59	64	1,190	506	166	643	1,680	554	2,640	206	89	1,450
15	59	64	4,100	290	284	739	1,050	1,730	2,540	225	86	1,540
16	57	64	5,320	220	398	634	1,200	2,140	1,520	402	81	1,200
17	57	64	4,290	300	426	571	2,780	1,540	1,300	893	78	522
18	55	64	1,940	382	340	494	2,180	928	746	529	76	650
19	59	66	1,110	398	266	404	1,370	620	474	627	78	1,170
20	59	64	816	450	214	340	8,990	456	365	1,240	73	930
21	64	61	690	529	200	315	9,000	376	320	998	68	474
22	86	61	641	746	190	345	8,890	345	350	392	66	297
23	117	61	578	1,130	183	355	7,210	315	262	274	64	964
24	332	64	508	991	190	315	4,600	270	218	218	68	2,110
25	325	64	462	858	190	279	2,040	242	190	190	66	2,810
26	246	61	438	585	190	266	1,280	218	180	169	64	4,220
27	206	64	414	409	186	350	1,050	198	162	145	59	5,550
28	166	61	404	330	206	508	816	176	162	133	57	4,290
29	139	71	392	290	258	788	662	166	158	120	55	3,120
30	120	73	1,310	260	------	1,330	585	254	304	114	53	3,670
31	103	------	3,660	240	------	928	------	462	------	106	50	------
TOTAL	3,274	2,037	38,219	25,283	6,031	27,171	83,278	15,875	15,369	14,012	3,596	36,433
MEAN	106	67.9	1,233	816	208	876	2,776	512	512	452	116	1,214
MAX	332	89	5,320	3,290	426	4,820	9,000	2,140	2,640	1,660	606	5,550
MIN	55	61	78	220	139	266	392	166	133	106	50	33
CFSM	.16	.10	1.81	1.20	.31	1.28	4.07	.75	.75	.66	.17	1.78
IN.	.18	.11	2.08	1.38	.33	1.48	4.54	.87	.84	.76	.20	1.99

CAL YR 1971 TOTAL 165,453 MEAN 453 MAX 8,360 MIN 35 CFSM .66 IN 9.02
WTR YR 1972 TOTAL 270,577 MEAN 739 MAX 9,000 MIN 33 CFSM 1.08 IN 14.76

PEAK DISCHARGE (BASE, 5,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	1800	8.95	7,020	09-27	1100	8.57	6,460
04-20	1230	11.32	11,200				

03326950 Mississinewa Lake at Peoria, Ind.

LOCATION.—Lat 40°42'52", long 85°57'27", in NW 1/4 SW 1/4 sec.10, T.26 N., R.5 E., Miami County, in discharge tower of reservoir on Mississinewa River at Peoria, 6.8 miles southeast of Peru, and 7.3 miles above mouth.

DRAINAGE AREA.—807 sq mi.

PERIOD OF RECORD.—April 1968 to current year. Prior to September 1970, published as Mississinewa "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 140,420 acre-ft Apr. 25 (elevation, 752.34 ft); minimum, 23,100 acre-ft Dec. 13 (elevation, 711.85 ft).
Period of record: Maximum contents, 140,420 acre-ft Apr. 25, 1972 (elevation, 752.34 ft); minimum, 22,940 acre-ft Jan. 13, 1969 (elevation, 711.73 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft wide and 16.0 ft high, in semi-elliptical conduit through dam. Minimum design capacity is 23,300 acre-ft (elevation, 712 ft). Seasonal pool capacity is 75,200 acre-ft (elevation, 737 ft). Capacity at uncontrolled spillway elevation (779 ft) is 368,400 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	733.43	64,620	-
Oct. 31	724.52	43,610	-21,010
Nov. 30	712.28	23,650	-19,960
Dec. 31	715.00	27,360	+3,710
Calendar year 1971	-	-	+4,010
Jan. 31	712.24	23,600	-3,760
Feb. 29	712.25	23,610	+10
Mar. 31	712.17	23,510	-100
Apr. 30	742.12	93,230	+69,720
May 31	737.19	75,790	-17,440
June 30	737.09	75,470	-320
July 31	737.03	75,280	-190
Aug. 31	737.05	75,340	+60
Sept. 30	738.06	78,630	+3,290
Water year 1972	-	-	+14,010

03327000 Mississinewa River at Peoria, Ind.

LOCATION.—Lat 40°43'24", long 85°57'27", in SW 1/4 SW 1/4 sec.3, T.26 N., R.5 E., Miami County, on right bank at Peoria, 3,000 ft downstream from flood control dam, 6.7 miles upstream from mouth, and 6.5 miles southeast of Peru.

DRAINAGE AREA.—808 sq mi.

PERIOD OF RECORD.—October 1952 to current year.

GAGE.—Water-stage recorder. Datum of gage is 660.00 ft above mean sea level. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft upstream at same datum.

AVERAGE DISCHARGE.—20 years, 666 cfs (11.06 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,210 cfs Apr. 27 (gage height, 9.27 ft); minimum daily, 32 cfs Apr. 2.
Period of record: Maximum discharge, 28,000 cfs June 11, 1958 (gage height, 19.26 ft, site then in use); minimum daily, 6.2 cfs Oct. 3, 1969.

REMARKS.—Records good. Flow regulated by Mississinewa Lake (See sta 03326950) since April 1968.

REVISIONS (WATER YEARS).—WSP 1335: 1953. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	596	444	158	2,940	292	436	258	5,750	337	175	93	38
2	501	444	158	3,370	292	1,430	32	4,010	337	182	94	39
3	429	420	148	2,310	292	2,060	33	1,180	344	596	95	56
4	390	407	128	1,370	292	3,230	34	460	348	1,440	439	64
5	389	405	129	1,310	231	5,170	34	458	284	1,420	444	64
6	407	404	174	1,030	219	3,130	35	383	246	874	300	64
7	415	403	482	741	238	826	430	338	206	433	200	65
8	413	401	1,490	616	210	578	931	340	172	327	110	141
9	454	401	2,080	562	177	477	1,290	396	172	252	79	185
10	476	399	2,070	715	188	380	2,730	427	181	173	100	159
11	453	397	1,800	1,430	188	380	3,200	440	177	170	100	88
12	430	396	1,600	1,380	188	347	3,190	463	150	83	142	225
13	411	394	1,010	801	188	307	2,420	463	224	53	147	452
14	410	392	750	678	189	546	1,650	467	1,680	168	123	1,480
15	408	401	433	385	215	755	1,650	1,000	2,950	362	124	2,040
16	408	422	110	241	371	729	1,640	1,770	2,460	449	122	1,900
17	408	420	1,500	241	436	617	1,650	1,890	1,400	956	103	1,330
18	406	418	3,210	350	436	536	1,660	1,250	985	883	121	854
19	404	417	3,630	460	399	429	1,670	776	512	710	123	1,500
20	404	415	3,830	460	229	401	869	703	360	1,040	122	1,240
21	402	415	3,680	460	230	357	127	523	282	1,180	123	837
22	439	413	3,530	586	262	386	132	383	285	906	110	562
23	487	410	2,980	932	262	425	604	330	288	280	103	1,180
24	572	408	1,330	1,090	246	386	1,830	295	272	174	160	2,300
25	624	407	284	910	215	331	3,700	223	233	180	185	3,220
26	623	404	608	666	216	282	4,960	184	196	181	153	3,440
27	620	403	687	456	215	368	5,610	193	178	180	101	4,030
28	543	400	504	360	216	520	6,080	201	182	174	89	4,360
29	472	397	418	292	248	660	5,970	205	242	174	82	4,370
30	448	318	715	292	------	1,240	5,870	287	244	144	71	3,920
31	446	------	1,740	292	------	1,250	------	336	------	110	48	------
TOTAL	14,288	12,175	41,366	27,726	7,380	28,969	60,289	26,164	15,927	14,429	4,406	40,203
MEAN	461	406	1,334	894	254	934	2,010	844	531	465	142	1,340
MAX	624	444	3,830	3,370	436	5,170	6,080	5,750	2,950	1,440	444	4,370
MIN	389	318	110	241	177	282	32	184	150	53	48	38

CAL YR 1971 TOTAL 187,642 MEAN 514 MAX 6,630 MIN 28
WTR YR 1972 TOTAL 293,322 MEAN 801 MAX 6,080 MIN 32

03327500 Wabash River at Peru, Ind.

LOCATION.—Lat 40°44'35", long 86°05'45", in SE 1/4 NE 1/4 sec.32, T.27 N., R.4 E., Miami County, on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mile southwest of Peru, 4.3 miles downstream from Mississinewa River, and at mile 370.5.

DRAINAGE AREA.—2,686 sq mi.

PERIOD OF RECORD.—August 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 617.94 ft above mean sea level (levels by Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—29 years, 2,289 cfs (11.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 14,000 cfs Apr. 13 (gage height, 11.74 ft); minimum daily, 169 cfs Sept. 2.
Period of record: Maximum discharge, 68,000 cfs May 18, 1943 (gage height, 24.46 ft, from floodmark); minimum daily, 72 cfs Oct. 5, 1946.
Flood of Mar. 26, 1913, reached a stage of 28.1 ft (discharge, 115,000 cfs, from rating curve extended above 63,000 cfs).

REMARKS.—Records good. Flow regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,890	1,270	760	6,190	820	919	3,730	10,200	2,860	456	351	171
2	1,640	1,220	582	7,780	820	2,290	2,010	9,970	2,270	537	343	169
3	1,390	1,180	470	7,940	820	5,700	1,270	5,780	1,410	778	342	170
4	1,320	1,130	405	5,950	820	6,500	1,350	4,650	1,300	2,110	540	179
5	1,390	1,080	385	4,430	750	9,990	1,730	4,640	1,490	3,770	845	179
6	1,290	1,030	445	3,340	730	9,040	1,390	4,540	1,130	2,970	548	196
7	1,230	1,050	1,840	2,620	700	4,660	5,740	4,470	936	1,750	499	231
8	1,230	1,130	5,830	1,950	620	3,000	6,670	4,440	758	1,140	412	308
9	1,190	1,100	7,110	1,690	570	1,660	6,960	4,870	660	786	454	337
10	1,270	1,050	8,340	2,130	540	1,260	7,930	4,770	655	624	375	343
11	1,350	1,050	6,910	4,210	540	1,080	8,010	4,570	696	570	381	289
12	1,290	1,060	5,800	5,060	540	1,050	7,920	4,330	666	472	426	577
13	1,210	1,080	5,180	3,970	540	1,060	12,600	4,400	667	368	409	2,180
14	1,200	1,070	5,200	2,510	680	3,530	8,400	4,650	1,710	376	373	5,000
15	1,210	1,070	9,900	1,940	875	5,350	6,750	5,720	4,890	809	366	5,880
16	1,210	1,080	8,450	1,440	1,120	4,520	7,630	6,310	6,110	1,290	360	4,810
17	1,150	1,070	7,310	560	1,400	4,200	9,910	6,060	2,850	2,970	317	3,490
18	1,030	1,050	7,310	990	1,520	3,010	8,440	5,850	2,050	3,560	345	3,480
19	970	1,070	6,470	1,710	1,580	2,200	6,990	5,050	1,320	2,530	356	5,270
20	986	1,100	9,560	1,640	1,120	1,660	9,910	5,040	1,120	5,270	366	5,000
21	1,090	1,110	9,600	1,670	678	1,540	6,220	4,670	909	4,940	366	4,310
22	1,150	1,060	9,720	1,920	809	1,500	7,260	4,220	858	3,910	355	2,800
23	1,500	1,050	9,280	2,540	960	1,930	6,040	2,430	770	1,630	433	3,020
24	2,610	1,050	8,180	3,680	907	1,710	6,380	1,600	669	911	566	4,420
25	3,090	1,050	7,740	3,870	772	1,460	8,250	1,410	539	754	641	6,420
26	2,810	1,050	4,290	2,780	785	1,160	10,300	1,160	606	645	465	7,020
27	1,880	1,070	2,240	2,120	895	1,230	10,500	1,070	641	652	324	7,410
28	1,770	1,090	2,190	1,500	830	1,790	11,100	955	520	708	306	7,460
29	1,420	1,110	1,820	850	770	2,660	10,800	922	695	558	276	8,700
30	1,390	1,100	1,680	820	------	5,350	10,700	1,160	615	490	235	8,770
31	1,360	------	3,820	820	------	6,110	------	1,790	------	406	207	------
TOTAL	45,516	32,680	158,817	90,620	24,511	99,119	212,890	131,697	42,370	48,740	12,582	98,589
MEAN	1,468	1,089	5,123	2,923	845	3,197	7,096	4,248	1,412	1,572	406	3,286
MAX	3,090	1,270	9,900	7,940	1,580	9,990	12,600	10,200	6,110	5,270	845	8,770
MIN	970	1,030	385	560	540	919	1,270	922	520	368	207	169
CFSM	.55	.41	1.91	1.09	.31	1.19	2.64	1.58	.53	.59	.15	1.22
IN.	.63	.45	2.20	1.26	.34	1.37	2.95	1.82	.59	.68	.17	1.37

CAL YR 1971 TOTAL 706,663 MEAN 1,936 MAX 13,400 MIN 155 CFSM .72 IN 9.79
WTR YR 1972 TOTAL 698,131 MEAN 2,727 MAX 12,600 MIN 169 CFSM 1.02 IN 13.82

03327520 Pipe Creek near Bunker Hill, Ind.

LOCATION.--Lat 40°40'06", long 86°05'44", in NE 1/4 SE 1/4 sec.29, T.26 N., R.4 E., Miami County, on right bank 150 ft downstream from bridge on County Road 125 West, 0.5 mile northeast of Bunker Hill.

DRAINAGE AREA.--159 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-67, May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,480 cfs Apr. 21 (gage height, 12.11 ft); minimum daily, 7.1 cfs Sept. 6, 7.
Period of record: Maximum discharge, 3,050 cfs Jan. 30, 1969 (gage height, 13.43 ft); minimum daily, 4.0 cfs Aug. 31, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	17	300	55	59	139	132	67	37	27	7.6
2	22	17	16	200	50	172	110	124	55	35	27	7.9
3	17	18	15	150	50	212	95	108	49	307	26	9.1
4	16	16	14	130	45	125	169	93	45	118	25	8.9
5	20	15	14	100	45	93	157	84	41	74	23	8.0
6	17	14	21	90	45	75	138	77	43	59	23	7.1
7	16	14	216	85	40	77	1,180	74	42	47	25	7.1
8	16	13	634	78	40	65	1,200	73	38	41	23	12
9	18	13	502	84	40	51	837	86	37	37	21	11
10	20	14	524	141	41	46	699	74	37	34	19	7.3
11	18	14	613	156	40	48	596	65	33	32	18	9.1
12	17	13	377	126	41	49	490	62	30	29	23	62
13	16	13	196	116	44	50	431	68	312	27	23	49
14	16	13	370	90	45	57	248	85	552	35	17	367
15	15	13	1,150	80	52	56	176	369	636	154	20	152
16	14	13	1,070	65	48	60	355	302	664	383	16	74
17	13	12	723	55	43	64	647	159	346	116	14	48
18	12	11	542	55	46	58	491	120	167	77	13	144
19	12	13	323	55	39	50	336	100	122	345	11	240
20	12	14	210	55	35	46	1,620	88	104	316	11	105
21	12	12	163	55	37	47	2,390	82	154	125	9.5	66
22	16	12	150	99	37	56	2,120	75	90	84	9.4	49
23	24	11	140	143	35	56	1,500	70	71	66	29	202
24	24	11	120	138	37	49	871	63	63	56	34	521
25	27	11	110	122	35	46	643	55	57	59	25	296
26	26	11	100	104	35	45	538	51	52	47	16	744
27	23	12	100	90	33	60	361	47	47	43	12	979
28	21	14	100	80	36	80	231	45	43	39	11	791
29	20	14	95	70	43	101	179	45	43	35	10	834
30	20	17	250	65	------	304	149	90	42	32	8.6	950
31	18	------	450	60	------	197	------	93	------	29	8.2	------
TOTAL	564	405	9,325	3,227	1,212	2,554	19,096	3,059	4,082	2,918	577.7	6,768.1
MEAN	18.2	13.5	301	104	41.8	82.4	637	98.7	136	94.1	18.6	226
MAX	27	18	1,150	300	55	304	2,390	369	664	383	34	979
MIN	12	11	14	55	33	45	95	45	30	27	8.2	7.1
CFSM	.11	.08	1.89	.65	.26	.52	4.01	.62	.86	.59	.12	1.42
IN.	.13	.09	2.18	.75	.28	.60	4.47	.72	.96	.68	.14	1.58

CAL YR 1971 TOTAL 36,961.7 MEAN 101 MAX 1,190 MIN 4.0 CFSM .64 IN 8.65
WTR YR 1972 TOTAL 53,787.8 MEAN 147 MAX 2,390 MIN 7.1 CFSM .92 IN 12.58

PEAK DISCHARGE (BASE, 700 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1600	8.83	1,230	06-15	1900	7.42	889
04-07	1100	9.43	1,440	09-27	0400	8.08	1,030
04-21	1200	12.11	2,480	09-30	0500	7.92	990

03328000 Eel River at North Manchester, Ind.

LOCATION.—Lat 40°59'55", long 85°45'50", in NE 1/4 NE 1/4 sec.5, T.29 N., R.7 E., Wabash County, on right bank 200 ft downstream from Main Street bridge in North Manchester, and 1.2 miles upstream from Pony Creek. Records include flow of Pony Creek.

DRAINAGE AREA.—417 sq mi, includes that of Pony Creek.

PERIOD OF RECORD.—October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Gage-height records since October 1924 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 738.00 ft above mean sea level. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street bridge, 700 ft upstream at same datum.

AVERAGE DISCHARGE.—43 years, 345 cfs (11.24 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,600 cfs Apr. 17 (gage height, 8.00 ft, from graph); minimum daily, 57 cfs Oct. 17-21. Period of record: Maximum discharge, 7,940 cfs Dec. 22, 1967 (gage height, 13.55 ft); maximum gage height, 14.00 ft Feb. 27, 1936; minimum daily discharge, 16 cfs Oct. 19, 1956.

REMARKS.—Records good. Diurnal fluctuation caused by grist mill above station.

REVISIONS (WATER YEARS).—WSP 1275: 1930-37, 1939, 1940(M), 1942, 1948. WSP 1909: 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	83	92	731	110	179	474	502	149	82	96	77
2	61	84	85	467	100	374	398	468	132	77	97	77
3	59	85	80	370	100	333	350	384	145	81	112	79
4	64	81	77	320	100	246	425	330	214	76	97	76
5	65	80	74	274	95	179	420	288	153	75	92	75
6	61	77	90	252	95	171	353	264	126	72	89	74
7	60	75	323	230	95	162	1,480	250	113	72	176	74
8	60	72	615	210	95	143	1,420	256	104	72	231	97
9	66	74	370	201	90	115	1,110	752	102	96	183	80
10	66	75	579	243	90	108	905	676	99	77	137	72
11	64	75	952	250	90	111	646	400	95	74	117	76
12	62	73	551	227	90	114	512	322	93	71	117	181
13	61	73	340	214	90	931	1,620	290	106	78	107	684
14	61	71	288	182	90	1,770	1,720	322	106	356	103	1,200
15	59	71	1,420	150	110	1,570	1,260	796	275	293	150	1,190
16	58	69	1,500	140	160	1,590	1,160	692	314	509	128	783
17	57	68	877	120	130	1,410	2,460	452	192	378	105	463
18	57	68	509	120	110	991	2,150	352	146	285	96	487
19	57	71	354	120	100	659	1,690	296	123	423	100	566
20	57	71	298	120	95	513	2,000	254	113	396	99	370
21	57	70	268	140	95	434	1,850	232	104	289	89	282
22	94	68	241	243	90	445	1,980	212	99	204	88	229
23	150	66	218	461	90	469	1,710	194	92	169	94	357
24	136	65	209	364	90	367	1,140	176	92	216	132	635
25	122	65	196	300	92	314	778	164	90	172	118	434
26	113	63	201	250	93	281	615	149	86	143	98	1,070
27	106	69	210	200	97	277	505	139	83	131	94	972
28	100	73	212	170	103	328	429	129	82	123	88	556
29	94	76	192	150	133	440	383	124	97	113	85	887
30	90	91	623	130	------	1,010	370	142	89	105	81	1,260
31	86	------	1,270	120	------	677	------	164	------	99	78	------
TOTAL	2,366	2,202	13,314	7,469	2,918	16,711	32,313	10,171	3,814	5,407	3,477	13,463
MEAN	76.3	73.4	429	241	101	539	1,077	328	127	174	112	449
MAX	150	91	1,500	731	160	1,770	2,460	796	314	509	231	1,260
MIN	57	63	74	120	90	108	350	124	82	71	78	72
CFSM	.18	.18	1.03	.58	.24	1.29	2.58	.79	.30	.42	.27	1.08
IN.	.21	.20	1.19	.67	.26	1.49	2.88	.91	.34	.48	.31	1.20

CAL YR 1971 TOTAL 95,433 MEAN 261 MAX 2,590 MIN 55 CFSM .63 IN 8.51
WTR YR 1972 TOTAL 113,625 MEAN 310 MAX 2,460 MIN 57 CFSM .74 IN 10.14

PEAK DISCHARGE (BASE, 2,200 CFS).—Apr. 17 (Unknown) 2,600 cfs (8.00 ft). Apr. 20 (1600) 2,220 cfs (7.23 ft).

03328430 Weesau Creek near Deedsville, Ind.

LOCATION.—Lat 40°54'34", long 86°07'36", in NW 1/4 NW 1/4 sec.6, T.28 N., R.4 E., Miami County, on left bank 100 ft downstream from bridge on County Road 1000 North, 1.5 miles west of Deedsville.

DRAINAGE AREA.—8.87 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 785.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 101 cfs Dec. 15 (gage height, 3.90 ft); minimum daily, 1.3 cfs Oct. 19, 20, Aug. 1-6, 21, 22, Aug. 30 to Sept. 7.
Period of record: Maximum discharge, 283 cfs Feb. 4, 1971 (gage height, 5.83 ft); minimum daily, 1.2 cfs Aug. 18, 19, 24, 27-31, Sept. 1, 2, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.5	7.1	14	3.5	11	11	9.6	4.0	2.1	1.3	1.3
2	2.1	1.8	5.4	11	3.5	15	9.7	8.9	3.7	2.0	1.3	1.3
3	2.1	1.6	4.4	9.9	3.0	9.1	8.7	7.9	3.6	2.1	1.3	1.3
4	2.1	1.5	3.7	9.3	3.0	7.1	12	7.0	3.6	2.0	1.3	1.3
5	1.9	1.6	3.4	7.6	3.0	6.1	10	6.4	3.2	2.0	1.3	1.3
6	1.8	1.5	7.2	7.1	2.5	4.7	9.0	6.4	3.7	1.9	1.3	1.3
7	1.7	1.5	31	6.4	2.5	4.7	62	6.4	3.2	1.8	1.9	1.3
8	1.6	1.4	31	5.7	2.5	4.1	42	7.1	3.1	1.7	1.6	3.3
9	1.9	1.5	14	6.7	2.5	3.5	32	25	3.1	1.7	1.4	1.9
10	1.8	1.6	44	8.0	2.0	3.3	22	15	3.0	1.6	1.4	1.5
11	1.7	1.5	47	7.9	2.0	3.3	14	11	2.8	1.6	1.4	2.1
12	1.5	1.5	20	6.9	2.0	3.6	14	8.9	2.7	1.6	1.7	18
13	1.5	1.5	12	6.6	3.1	4.8	34	9.7	5.1	1.9	1.5	16
14	1.5	1.4	18	5.5	3.7	6.5	18	12	5.3	4.3	1.5	31
15	1.5	1.4	87	5.0	6.0	6.2	12	20	38	2.2	3.5	25
16	1.4	1.4	63	4.0	5.2	7.6	37	14	22	1.8	2.5	13
17	1.4	1.4	33	3.5	4.7	8.1	45	11	10	1.6	1.6	9.0
18	1.4	1.4	17	3.5	6.1	6.9	20	9.2	7.5	3.1	1.4	14
19	1.3	1.6	12	3.5	4.3	5.8	16	7.9	6.0	6.4	1.4	15
20	1.3	1.6	9.8	3.5	4.0	5.3	57	7.1	5.2	4.3	1.4	10
21	1.4	1.6	9.1	6.3	4.1	5.2	36	6.5	4.4	2.6	1.3	8.0
22	3.8	1.5	8.3	12	4.9	6.7	60	6.0	3.8	1.9	1.3	6.8
23	5.4	1.5	7.7	16	4.1	7.1	31	5.4	3.3	1.6	1.5	21
24	5.5	1.5	7.7	11	3.9	5.8	17	5.1	3.2	1.6	4.1	34
25	5.1	1.5	7.5	13	3.8	5.4	13	4.7	3.0	1.5	2.7	24
26	3.7	1.5	8.2	8.3	5.1	5.0	11	4.5	2.7	1.5	2.2	43
27	3.0	2.9	8.3	6.1	5.3	6.2	9.8	4.2	2.5	1.5	1.7	27
28	2.3	6.5	8.0	5.2	5.8	13	9.0	4.0	2.2	1.5	1.5	15
29	2.5	7.3	6.9	4.5	7.7	18	8.6	4.0	2.3	1.4	1.4	35
30	1.8	8.7	32	4.0	------	25	8.6	4.5	2.2	1.4	1.3	42
31	1.6	------	30	4.0	------	12	------	4.2	------	1.4	1.3	------
TOTAL	70.2	64.7	603.7	226.0	113.8	236.1	689.4	263.6	168.4	65.6	52.3	424.7
MEAN	2.26	2.16	19.5	7.29	3.92	7.62	23.0	8.50	5.61	2.12	1.69	14.2
MAX	5.5	8.7	87	16	7.7	25	62	25	38	6.4	4.1	43
MIN	1.3	1.4	3.4	3.5	2.0	3.3	8.6	4.0	2.2	1.4	1.3	1.3
CFSM	.25	.24	2.20	.82	.44	.86	2.59	.96	.63	.24	.19	1.60
IN.	.29	.27	2.53	.95	.48	.99	2.89	1.11	.71	.28	.22	1.78

CAL YR 1971 TOTAL 2,748.4 MEAN 7.53 MAX 158 MIN 1.2 CFSM .85 IN 11.53
WTR YR 1972 TOTAL 2,978.5 MEAN 8.14 MAX 87 MIN 1.3 CFSM .92 IN 12.49

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1700	3.46	71	04-16	1930	3.45	70
12-15	1600	3.90	101	04-20	0945	3.43	69
04-07	1115	3.59	79	04-22	0830	3.44	69

03328500 Eel River near Logansport, Ind.

LOCATION.—Lat 40°46'55", long 86°15'50", in NE 1/4 SE 1/4 sec.14, T.27 N., R.2 E., Cass County, on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles northeast of Logansport, and 6.9 miles upstream from mouth.

DRAINAGE AREA.—789 sq mi.

PERIOD OF RECORD.—July 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 621.50 ft above mean sea level. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—29 years, 707 cfs (12.17 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,660 cfs Dec. 16 (gage height, 7.65 ft); minimum daily, 176 cfs Sept. 6.
Period of record: Maximum discharge, 14,200 cfs Dec. 9, 1966 (gage height, 12.20 ft); minimum daily, 70 cfs Mar. 15, 1960, result of freeseup.
Flood of May 18, 1943 reached a stage of 13.2 ft, from floodmark (discharge, 17,000 cfs).

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	210	282	1,690	260	458	1,070	896	404	265	213	185
2	264	208	273	1,160	240	678	895	1,000	377	245	210	184
3	235	205	248	935	230	846	790	866	349	241	209	185
4	225	203	232	800	220	660	841	748	426	231	221	186
5	224	198	224	705	220	522	960	667	595	224	210	181
6	217	194	242	601	210	407	842	620	460	215	207	176
7	206	189	692	572	210	397	2,680	588	380	210	372	182
8	199	186	1,640	550	200	382	3,710	580	337	209	409	396
9	206	188	1,250	537	200	338	2,390	806	317	213	463	282
10	208	191	1,460	555	200	301	1,870	1,410	302	252	369	210
11	209	193	2,490	610	200	296	1,460	989	284	234	288	185
12	202	194	1,680	588	200	304	1,270	770	275	212	383	324
13	198	193	1,090	555	200	325	3,170	706	340	205	324	796
14	195	191	1,030	502	200	1,550	2,950	756	441	256	273	2,630
15	192	189	3,380	300	210	1,980	2,180	1,190	821	711	292	2,770
16	189	186	4,170	280	300	1,830	2,030	1,470	1,510	607	525	1,870
17	185	184	2,430	250	240	1,920	3,250	1,110	938	809	373	1,290
18	183	184	1,470	240	220	1,560	3,210	875	649	724	281	1,200
19	181	188	1,040	240	210	1,160	2,530	733	516	912	243	1,480
20	179	188	847	250	200	910	3,960	646	431	1,140	223	1,170
21	181	190	744	280	200	792	3,780	587	379	881	229	861
22	212	190	676	534	190	772	3,930	540	342	634	212	675
23	302	187	616	815	190	806	3,350	500	310	454	211	777
24	402	185	587	926	190	758	2,250	469	292	363	305	1,450
25	384	183	567	700	190	649	1,580	443	285	383	319	1,360
26	328	184	558	600	190	587	1,240	418	277	348	296	1,930
27	294	191	573	450	190	601	1,060	396	263	294	238	2,550
28	266	198	581	400	307	714	929	376	254	273	218	1,600
29	243	216	549	350	354	840	844	363	251	252	207	1,600
30	229	255	729	310	------	1,490	812	383	282	235	197	2,860
31	218	------	2,060	280	------	1,440	------	399	------	220	189	------
TOTAL	7,261	5,841	34,410	17,565	6,371	26,273	61,833	22,300	13,087	12,452	8,709	31,545
MEAN	234	195	1,110	567	220	848	2,061	719	436	402	281	1,052
MAX	402	255	4,170	1,690	354	1,980	3,960	1,470	1,510	1,140	525	2,860
MIN	179	183	224	240	190	296	790	363	251	205	189	176
CFSM	.30	.25	1.41	.72	.28	1.07	2.61	.91	.55	.51	.36	1.33
IN.	.34	.28	1.62	.83	.30	1.24	2.92	1.05	.62	.59	.41	1.49

CAL YR 1971 TOTAL 229,027 MEAN 627 MAX 4,750 MIN 150 CFSM .79 IN 10.80
WTR YR 1972 TOTAL 247,647 MEAN 677 MAX 4,170 MIN 176 CFSM .86 IN 11.68

PEAK DISCHARGE (BASE, 5,000 CFS).—No peak above base.

03328500 Eel River near Logansport, Ind.—Continued

PERIOD OF RECORD.—Water temperatures: October 1969 to September 1972.
Sediment records: August 1969 to September 1972.

EXTREMES.—1971-72:
Water temperatures: Maximum, 28.0°C July 14, 22, Aug. 29; minimum, freezing point on many days during December to February.
Sediment concentration: Maximum daily, 1,180 mg/l Apr. 7; minimum daily, 14 mg/l Jan. 7, Feb. 22, 23.
Sediment loads: Maximum daily, 10,000 tons Apr. 13; minimum daily, 7.2 tons Feb. 22, 23.

Period of record:
Water temperatures: Maximum, 30.0°C June 29, 1971; minimum, freezing point on many days during winter periods.
Sediment concentrations: Maximum daily, 1,780 mg/l June 7, 1971; minimum daily, 14 mg/l Jan. 7, Feb. 22, 23, 1972.
Sediment loads: Maximum daily, 20,500 tons June 7, 1971; minimum daily, 6.9 tons Aug. 31, Sept. 1, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE DAILY READINGS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	---	---	5.0	1.0	---	12.0	17.0	---	---	24.0	---
2	---	15.0	---	5.0	---	5.0	8.0	17.0	21.0	---	---	21.0
3	---	---	3.0	3.5	---	5.0	8.0	17.0	---	---	---	---
4	---	16.5	---	3.0	---	---	8.0	17.0	---	21.0	22.0	---
5	21.0	11.0	---	2.0	1.0	2.0	11.0	18.0	---	---	---	20.0
6	---	---	---	1.0	---	---	13.0	21.0	21.0	---	---	---
7	---	---	6.0	2.0	---	---	6.0	19.0	---	20.0	---	---
8	---	---	7.0	2.0	1.0	3.0	4.0	15.0	---	---	20.0	27.0
9	15.0	15.0	8.0	4.0	---	---	7.0	15.0	---	---	---	---
10	---	---	11.0	5.0	---	---	10.0	15.0	23.0	---	---	---
11	---	---	10.0	4.0	1.0	8.0	12.0	17.0	---	25.0	19.0	---
12	15.0	9.0	7.0	4.0	---	---	14.0	18.0	---	---	---	22.0
13	---	---	4.5	2.0	---	8.0	16.0	17.0	23.0	---	---	23.0
14	---	---	5.0	---	---	6.0	13.0	17.0	---	28.0	---	21.0
15	---	---	9.0	---	2.0	5.0	14.0	17.0	22.0	---	23.0	21.0
16	19.0	14.0	8.0	---	---	6.0	15.0	17.0	22.0	26.0	25.0	21.0
17	---	---	6.0	---	---	5.0	15.0	19.0	21.0	25.0	---	23.0
18	---	---	3.0	2.0	1.0	7.0	15.0	21.0	20.0	26.0	---	21.0
19	20.0	10.0	4.0	---	---	8.0	17.0	22.0	---	25.0	26.0	22.0
20	---	---	4.0	---	---	10.0	14.0	22.0	23.0	26.0	---	21.0
21	---	---	4.0	2.0	---	12.0	11.0	23.0	---	27.0	---	20.0
22	---	---	4.0	4.0	---	9.0	11.0	24.0	---	28.0	26.0	18.0
23	---	9.0	5.0	2.0	---	6.0	11.0	23.0	18.0	---	---	16.0
24	---	---	6.0	3.0	---	6.0	10.0	---	---	---	---	18.0
25	---	---	5.0	1.0	4.0	8.0	11.0	---	---	26.0	25.0	19.0
26	18.0	---	7.0	1.0	---	8.0	13.0	24.0	---	---	---	21.0
27	---	5.0	10.0	1.0	---	7.0	15.0	---	23.0	---	---	19.0
28	---	---	5.0	---	---	9.0	14.0	---	---	23.0	---	18.0
29	---	---	5.0	---	9.0	16.0	14.0	---	---	---	28.0	18.0
30	18.0	5.0	5.0	---	---	11.0	17.0	23.0	23.0	---	---	16.0
31	---	---	5.0	---	---	12.0	---	---	---	---	---	---
MONTH	---	---	6.0	---	---	---	12.0	19.0	---	---	---	---
YEAR	13.5											

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

03328500 Eel River near Logansport, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCENTRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCENTRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCENTRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	1070	78	225	896	69	167	404	82	89
2	895	40	97	1000	86	232	377	78	79
3	790	27	58	866	69	161	349	74	70
4	841	32	73	748	53	107	426	83	95
5	960	41	106	667	47	85	595	87	140
6	842	44	100	620	44	74	460	63	78
7	2680	1180	9760	588	40	64	380	54	55
8	3710	805	8060	580	34	53	337	50	45
9	2390	272	1760	806	52	121	317	47	40
10	1870	131	661	1410	123	468	302	45	37
11	1460	95	374	989	81	216	284	43	33
12	1270	196	894	770	43	89	275	42	31
13	3170	1170	10000	706	37	71	340	82	75
14	2950	980	7810	756	41	84	441	103	123
15	2180	470	2770	1190	111	357	821	164	394
16	2030	430	2360	1470	143	568	1510	255	1040
17	3250	600	5270	1110	94	282	938	128	324
18	3210	441	3820	875	56	132	649	78	137
19	2530	280	1910	733	45	89	516	60	84
20	3960	520	5560	646	39	68	431	50	58
21	3780	420	4290	587	34	54	379	48	49
22	3930	460	4880	540	32	47	342	54	50
23	3350	360	3260	500	26	35	310	59	49
24	2250	191	1160	469	24	30	292	62	49
25	1580	105	448	443	23	28	285	64	49
26	1240	75	251	418	22	25	277	66	49
27	1060	63	180	396	19	20	263	66	47
28	929	57	143	376	18	18	254	65	45
29	844	55	125	363	23	23	251	65	44
30	812	54	118	383	52	54	282	79	60
31	--	--	--	399	77	83	--	--	--
TOTAL	61833	--	76523	22300	--	3905	13087	--	3518

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCENTRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCENTRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCENTRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	265	73	52	213	30	17	185	29	14
2	245	69	46	210	30	17	184	33	16
3	241	68	44	209	30	17	185	29	14
4	231	67	42	221	52	31	186	25	13
5	224	65	39	210	40	23	181	23	11
6	215	63	37	207	32	18	176	22	10
7	210	61	35	372	74	76	182	29	15
8	209	60	34	409	60	66	396	122	130
9	213	58	33	463	59	74	282	87	66
10	252	69	47	369	45	45	210	52	29
11	234	53	33	288	33	26	185	47	23
12	212	42	24	383	67	69	324	112	112
13	205	36	20	324	55	48	796	150	330
14	256	34	24	273	52	38	2630	432	3070
15	711	95	182	292	64	52	2770	411	3070
16	607	54	89	525	94	133	1870	238	1200
17	809	69	151	373	53	53	1290	146	509
18	724	72	142	281	37	28	1200	163	528
19	912	150	382	243	31	20	1480	198	791
20	1140	183	563	223	29	17	1170	144	455
21	881	137	326	229	36	22	861	91	212
22	634	83	142	212	29	17	675	68	124
23	454	52	64	211	27	15	777	103	225
24	363	39	38	305	62	51	1450	148	579
25	383	41	42	319	44	38	1360	135	496
26	348	33	31	296	34	27	1930	193	1040
27	294	31	25	238	32	21	2550	248	1710
28	273	31	23	218	32	19	1600	134	579
29	252	30	20	207	31	17	1600	152	692
30	235	30	19	197	30	16	2860	299	2310
31	220	30	18	189	30	15	--	--	--
TOTAL	12452	--	2767	8709	--	1126	31545	--	18373

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 247647
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 141963.2

03328500 Eel River near Logansport, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	305	34	28	210	31	18	282	25	19
2	264	32	23	208	29	16	273	26	19
3	235	30	19	205	31	17	248	27	18
4	225	28	17	203	35	19	232	27	17
5	224	25	15	198	37	20	224	26	16
6	217	25	15	194	37	19	242	25	16
7	206	25	14	189	36	18	692	115	312
8	199	24	13	186	35	18	1640	323	1430
9	206	23	13	188	34	17	1250	168	567
10	208	22	12	191	34	18	1460	189	821
11	209	22	12	193	33	17	2490	335	2250
12	202	21	11	194	33	17	1680	205	930
13	198	21	11	193	34	18	1090	87	256
14	195	20	11	191	35	18	1030	71	222
15	192	20	10	189	40	20	3380	432	4140
16	189	20	10	186	44	22	4170	400	4500
17	185	20	10	184	41	20	2430	220	1440
18	183	20	9.9	184	35	17	1470	102	405
19	181	20	9.8	188	33	17	1040	54	152
20	179	19	9.2	188	32	16	847	36	82
21	181	18	8.8	190	31	16	744	34	68
22	212	19	11	190	30	15	676	49	89
23	302	41	33	187	30	15	616	44	73
24	402	52	56	185	28	14	587	53	84
25	384	30	31	183	28	14	567	53	81
26	328	21	19	184	27	13	558	39	59
27	294	21	17	191	26	13	573	23	36
28	266	29	21	198	25	13	581	22	35
29	243	42	28	216	25	15	549	20	30
30	229	46	28	255	24	17	729	91	236
31	218	38	22	--	--	--	2060	370	2060
TOTAL	7261	--	547.7	5841	--	507	34410	--	20463

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1690	244	1110	260	39	27	458	19	23
2	1160	114	357	240	37	24	678	41	75
3	935	52	131	230	35	22	846	37	85
4	800	33	71	220	32	19	660	29	52
5	705	19	36	220	30	18	522	23	32
6	601	15	24	210	29	16	407	20	22
7	572	14	22	210	28	16	397	18	19
8	550	19	28	200	28	15	382	16	17
9	537	38	55	200	27	15	338	16	15
10	555	36	54	200	26	14	301	16	13
11	610	43	71	200	27	15	296	15	12
12	588	42	67	200	27	15	304	15	12
13	555	39	58	200	26	14	325	16	14
14	502	36	49	200	26	14	1550	437	2100
15	300	33	27	210	25	14	1980	500	2670
16	280	29	22	300	23	19	1830	254	1260
17	250	40	27	240	22	14	1920	169	876
18	240	62	40	220	20	12	1560	111	468
19	240	67	43	210	19	11	1160	80	251
20	250	64	43	200	18	9.7	910	58	143
21	280	59	45	200	16	8.6	792	47	101
22	534	61	88	190	14	7.2	772	40	83
23	815	93	205	190	14	7.2	806	31	67
24	926	84	210	190	15	7.7	758	28	57
25	700	63	119	190	15	7.7	649	25	44
26	600	53	86	190	15	7.7	587	21	33
27	450	58	70	190	15	7.7	601	19	31
28	400	59	64	307	15	12	714	25	48
29	350	50	47	354	15	14	840	41	99
30	310	44	37	--	--	--	1490	247	1040
31	280	41	31	--	--	--	1440	188	731
TOTAL	17565	--	3337	6371	--	403.5	26273	--	10493

03328500 Eel River near Logansport, Ind.—Continued

PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
DEC.							
13...	1240	4.5	1080	85	248	75	84
15...	1140	9.0	3430	394	3650	52	66
MAR.							
15...	1400	5.0	1930	479	2500	72	85
APR.							
14...	1130	13.0	2910	992	7790	63	78
SEP.							
13...	1250	23.0	770	146	304	58	75

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
DEC.						
13...	89	97	99	100	--	--
15...	75	85	92	98	99	100
MAR.						
15...	91	96	97	98	99	100
APR.						
14...	85	90	93	96	97	10
SEP.						
13...	86	95	98	100	--	--

03329000 Wabash River at Logansport, Ind.

LOCATION.--Lat 40°44'47", long 86°22'39", in SW 1/4 NE 1/4 sec.35, T.27 N., R.1 E., Cass County, on left bank 150 ft downstream from Cicott Street bridge in Logansport, 1,000 ft downstream from Eel River, and at mile 353.7.

DRAINAGE AREA.--3,779 sq mi.

PERIOD OF RECORD.--April to September, November and December 1903, March to November 1904, March 1905 to July 1906, May 1923 to current year. January, February, and December 1904, January and February 1905 (gage heights only). Gage-height records collected at same site December 1910 to December 1916, and since January 1926 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft above mean sea level (levels by Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.

AVERAGE DISCHARGE.--49 years (1923-72), 3,213 cfs (11.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 19,900 cfs Apr.20 (gage height, 9.87 ft); minimum daily, 392 cfs Sept. 6. Period of record: Maximum discharge, 89,800 cfs May 18, 1943 (gage height, 21.32 ft); minimum daily, 135 cfs Sept. 26, 1941. Maximum stage known, 25.3 ft Mar. 26, 1913, from floodmarks (discharge, 140,000 cfs).

REMARKS.--Records good. Flow partially regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

REVISIONS (WATER YEARS).--WSP 783: 1934. WSP 1335: 1904, 1925(M), 1926-30, 1931(M), 1932-35, 1937-39, 1948. WSP 1385: 1903, 1905-6, 1923-25. WSP 1505: 1906(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,320	1,440	1,260	9,500	1,200	1,350	5,920	12,100	3,170	897	644	423
2	1,890	1,380	1,100	10,200	1,200	2,450	3,390	12,600	3,050	825	609	394
3	1,570	1,340	918	9,800	1,200	7,000	2,490	7,960	2,070	977	608	397
4	1,510	1,290	804	7,760	1,200	7,590	2,310	6,100	1,570	1,850	617	397
5	1,470	1,250	775	5,750	1,100	11,000	2,990	5,870	2,240	3,640	990	401
6	1,470	1,190	800	4,420	1,000	11,000	2,620	5,740	1,740	3,770	904	392
7	1,340	1,180	1,890	3,600	950	5,920	10,200	5,580	1,460	2,400	939	455
8	1,390	1,230	8,130	2,850	900	3,980	13,400	5,540	1,220	1,500	848	802
9	1,320	1,260	9,170	2,520	850	2,440	11,500	6,190	1,080	1,140	908	728
10	1,360	1,210	9,620	3,060	800	1,620	11,600	6,960	1,020	977	807	639
11	1,480	1,200	12,000	5,560	800	1,510	11,200	6,190	1,010	892	723	615
12	1,440	1,200	9,780	6,540	800	1,410	10,400	5,670	1,010	808	821	803
13	1,360	1,220	7,740	4,120	800	1,440	17,700	5,590	1,070	686	818	2,010
14	1,330	1,230	7,130	3,450	1,000	4,510	13,300	5,950	1,700	671	737	7,660
15	1,340	1,210	15,000	2,580	1,270	8,080	10,500	7,430	5,660	1,080	695	9,340
16	1,340	1,220	14,100	2,110	1,550	7,060	11,000	8,980	9,210	1,840	835	7,720
17	1,310	1,220	10,400	1,430	1,990	6,840	15,000	8,200	5,340	2,900	764	5,310
18	1,210	1,210	12,200	1,700	1,960	5,300	13,600	7,730	3,500	4,810	647	4,780
19	1,140	1,240	11,300	2,490	2,000	3,780	11,300	6,460	2,170	3,560	630	7,070
20	1,130	1,240	11,400	2,420	1,810	2,850	17,400	6,200	1,730	6,100	621	6,950
21	1,190	1,280	10,800	2,450	1,160	2,470	14,500	5,760	1,480	6,420	616	5,810
22	1,370	1,230	9,870	2,790	1,140	2,350	15,400	5,190	1,330	5,150	594	4,090
23	1,550	1,220	9,610	3,800	1,310	2,850	12,800	3,770	1,190	2,830	619	3,680
24	2,740	1,220	8,080	5,250	1,290	2,690	11,000	2,270	1,110	1,470	862	5,810
25	3,480	1,220	3,630	5,380	1,150	2,250	11,100	1,920	978	1,160	966	8,280
26	3,390	1,210	2,950	3,940	1,130	1,850	13,100	1,660	914	1,100	917	9,620
27	2,460	1,250	3,070	3,030	1,210	1,850	12,800	1,480	1,000	957	717	11,900
28	2,040	1,260	2,740	2,270	1,240	2,420	13,200	1,420	916	994	594	10,800
29	1,760	1,300	2,340	1,400	1,180	3,490	12,800	1,290	977	919	566	11,000
30	1,530	1,390	3,110	1,200	------	7,120	12,600	1,460	990	809	515	12,700
31	1,560	------	7,860	1,200	------	8,850	------	1,930	------	724	463	------
TOTAL	51,790	37,540	209,577	124,570	35,190	135,320	327,120	171,190	61,905	63,856	22,594	140,976
MEAN	1,671	1,251	6,761	4,018	1,213	4,365	10,900	5,522	2,064	2,060	729	4,699
MAX	3,480	1,440	15,000	10,200	2,000	11,000	17,700	12,600	9,210	6,420	990	12,700
MIN	1,130	1,180	775	1,200	800	1,350	2,310	1,290	914	671	463	392
CFSM	.44	.33	1.79	1.06	.32	1.16	2.88	1.46	.55	.55	.19	1.24
IN.	.51	.37	2.06	1.23	.35	1.33	3.22	1.69	.61	.63	.22	1.39

CAL YR 1971 TOTAL 1,020,194 MEAN 2,795 MAX 17,700 MIN 299 CFSM .74 IN 10.04
WTR YR 1972 TOTAL 1,381,628 MEAN 3,775 MAX 17,700 MIN 392 CFSM 1.00 IN 13.60

03329400 Rattlesnake Creek near Patton, Ind.

LOCATION.—Lat 40°42'46", long 86°41'49", in NW 1/4 SW 1/4 sec.7, T.26 N., R.2 W., Carroll County, on left bank 5 ft downstream from bridge on County Road 900 West, and 2.5 miles northeast of Patton.

DRAINAGE AREA.—6.83 sq mi.

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 645.97 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 80 cfs Apr. 7 (gage height, 3.05 ft); minimum daily, 0.55 cfs Sept. 6.
Period of record: Maximum discharge, 157 cfs June 23, 1969; maximum gage height, 3.70 ft July 5, 1969; minimum daily discharge, 0.51 cfs Aug. 18, 19, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.6	1.3	11	2.5	3.5	5.0	6.6	3.8	2.1	1.4	.70
2	1.8	1.6	1.2	9.8	2.7	4.0	6.2	6.2	3.7	2.1	1.4	.75
3	1.8	1.5	1.1	8.8	2.3	3.5	5.8	5.6	3.5	2.0	1.4	.75
4	1.9	1.4	1.1	7.2	2.1	3.1	7.4	5.3	3.4	1.9	1.3	.70
5	1.7	1.4	1.1	6.5	2.0	2.9	7.0	5.1	3.3	1.9	1.2	.60
6	1.6	1.3	2.0	5.4	1.9	2.6	6.4	5.1	3.7	1.8	1.5	.55
7	1.6	1.3	10	5.2	1.8	2.4	51	4.9	3.3	1.8	1.3	1.1
8	1.6	1.3	7.1	5.5	1.8	2.6	33	5.4	3.3	1.8	1.3	2.1
9	1.6	1.5	5.2	6.1	1.9	2.7	26	13	3.4	1.7	1.2	.91
10	1.6	1.4	30	5.9	2.0	1.9	18	8.6	3.1	1.7	1.2	.76
11	1.6	1.3	19	5.5	2.2	1.5	14	7.0	3.0	1.6	1.2	.72
12	1.4	1.3	10	5.5	2.3	2.3	14	6.4	3.0	1.5	3.5	.80
13	1.4	1.3	6.8	5.2	2.7	3.4	20	6.5	4.7	1.6	1.7	.82
14	1.4	1.3	20	4.7	3.0	3.6	12	17	4.4	1.6	1.2	44
15	1.3	1.3	61	4.0	3.0	3.6	9.5	21	32	1.5	1.1	23
16	1.3	1.2	38	3.5	2.8	4.4	20	12	12	1.5	1.1	10
17	1.2	1.2	22	4.0	2.9	4.4	16	9.2	6.6	1.4	1.1	4.5
18	1.2	1.2	14	4.7	2.6	3.9	11	7.5	5.1	6.8	.92	4.1
19	1.3	1.6	11	5.3	2.5	3.6	13	6.7	4.5	16	.92	7.3
20	1.3	1.6	9.2	5.2	2.6	3.5	50	6.1	4.1	16	.86	6.4
21	1.5	1.4	8.2	4.9	2.7	3.7	36	5.8	3.6	5.1	.86	5.0
22	2.7	1.3	7.4	6.9	2.4	3.8	46	5.3	3.3	3.1	.86	4.1
23	2.5	1.3	7.5	7.6	2.3	3.5	23	5.0	3.1	2.7	.98	4.6
24	2.3	1.3	7.0	8.0	2.1	3.2	15	4.9	3.0	2.3	.86	8.5
25	2.0	1.3	6.9	7.0	2.0	3.2	12	4.5	2.8	2.0	.75	10
26	1.9	1.1	6.7	6.0	2.2	3.2	9.7	4.3	2.7	1.9	.75	14
27	1.9	1.1	6.6	5.0	2.3	3.9	8.0	4.2	2.5	1.8	.75	14
28	1.7	1.1	5.9	3.8	2.5	3.9	7.3	4.1	2.5	1.7	.75	10
29	1.6	1.1	5.9	3.0	2.7	5.5	6.9	4.2	2.4	1.5	.70	14
30	1.6	1.3	18	2.6	------	6.0	6.5	4.2	2.3	1.5	.70	22
31	1.6	------	14	2.5	------	5.1	------	3.9	------	1.4	.70	------
TOTAL	51.7	39.9	365.2	176.3	68.8	108.4	515.7	215.6	142.1	93.3	35.46	216.76
MEAN	1.67	1.33	11.8	5.69	2.37	3.50	17.2	6.95	4.74	3.01	1.14	7.23
MAX	2.7	1.6	61	11	3.0	6.0	51	21	32	16	3.5	44
MIN	1.2	1.1	1.1	2.5	1.8	1.5	5.0	3.9	2.3	1.4	.70	.55
CFSM	.24	.19	1.73	.83	.35	.51	2.52	1.02	.69	.44	.17	1.06
IN.	.28	.22	1.99	.96	.37	.59	2.81	1.17	.77	.51	.19	1.18

CAL YR 1971 TOTAL 1,659.89 MEAN 4.55 MAX 61 MIN .51 CFSM .67 IN 9.04
WTR YR 1972 TOTAL 2,029.22 MEAN 5.54 MAX 61 MIN .55 CFSM .81 IN 11.05

PEAK DISCHARGE (BASE, 65 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0130	2.80	65	04-20	0200	2.87	68
04-07	0615	3.05	80	09-14	0800	2.91	67

03329700 Deer Creek near Delphi, Ind.

LOCATION.—Lat 40°35'25", long 86°37'15", in NE 1/4 NE 1/4 sec.27, T.25 N., R.2 W., Carroll County, on downstream side of left wingwall of highway bridge, 2.6 miles northeast of Delphi Post Office, and 4.5 miles upstream from mouth.

DRAINAGE AREA.—274 sq mi.

PERIOD OF RECORD.—October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 553.81 ft above mean sea level (Corps of Engineers bench mark, levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.—29 years, 231 cfs (11.45 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,640 cfs Apr. 22 (gage height, 8.77 ft); minimum daily, 28 cfs Aug. 31, Sept. 1, 6.
Period of record: Maximum discharge, 14,400 cfs June 10, 1958 (gage height, 18.26 ft); minimum daily, 6.2 cfs Sept. 25-28, 1954.
Flood in May 1943 reached a stage of 19.8 ft, from floodmarks (discharge, 18,000 cfs, from rating curve extended above 8,000 cfs).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1275: 1944, 1947-48. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	53	44	546	107	116	192	286	161	74	42	28
2	67	55	44	458	120	143	170	265	131	70	42	29
3	60	51	41	402	117	172	157	233	112	85	42	32
4	56	50	40	346	100	152	253	207	98	187	42	30
5	52	46	39	290	91	127	310	185	91	118	40	29
6	50	44	52	260	86	122	271	172	97	92	46	28
7	46	41	230	240	86	122	1,630	168	92	77	44	32
8	45	40	400	220	86	107	2,180	172	86	70	44	109
9	47	42	300	233	90	92	1,380	207	86	64	41	48
10	47	44	1,200	259	92	85	982	190	89	60	38	40
11	48	44	800	262	91	85	705	163	80	56	42	32
12	47	41	500	247	101	89	554	150	73	53	57	38
13	46	40	300	250	107	97	550	154	97	50	41	38
14	44	40	1,000	180	112	97	442	225	331	51	39	302
15	41	39	2,700	155	127	94	364	406	665	71	46	372
16	39	39	2,450	120	120	100	550	349	898	92	39	189
17	38	41	1,340	200	109	105	755	265	466	100	37	117
18	37	38	775	270	114	102	546	217	304	85	33	97
19	36	40	530	331	107	94	474	187	230	110	32	358
20	35	39	426	286	100	88	2,660	165	192	292	32	250
21	39	38	361	230	98	89	2,820	154	175	185	30	159
22	80	37	314	225	95	102	3,320	146	168	112	30	113
23	89	36	292	262	88	107	2,310	137	131	82	46	117
24	102	35	283	265	95	102	1,310	127	114	71	59	197
25	97	35	256	240	89	95	838	120	105	67	40	284
26	91	35	250	210	88	92	610	110	97	60	38	384
27	82	37	236	180	83	102	478	102	89	61	33	627
28	71	36	222	150	88	125	386	95	83	56	32	560
29	67	40	212	130	95	148	337	94	83	51	32	710
30	61	42	442	110	------	210	307	154	80	47	29	1,000
31	57	------	780	105	------	215	------	228	------	45	28	------
TOTAL	1,793	1,238	16,881	7,662	2,882	3,596	27,841	5,833	5,504	2,694	1,216	6,349
MEAN	57.8	41.3	545	247	99.4	116	928	188	183	86.9	39.2	212
MAX	102	55	2,700	546	127	215	3,320	406	898	292	59	1,000
MIN	35	35	39	105	83	85	157	94	73	45	28	28
CFSM	.21	.15	1.99	.90	.36	.42	3.39	.69	.67	.32	.14	.77
IN.	.24	.17	2.29	1.04	.39	.49	3.78	.79	.75	.37	.17	.86

CAL YR 1971 TOTAL 67,292 MEAN 184 MAX 2,700 MIN 20 CFSM .67 IN 9.14
WTR YR 1972 TOTAL 83,489 MEAN 228 MAX 3,320 MIN 28 CFSM .83 IN 11.34

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2000	8.05	3,040	04-20	1200	8.24	3,240
04-07	2400	7.38	2,550	04-22	1200	8.77	3,640

03329700 Deer Creek near Delphi, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT. 13...	1640	14.5	44	36	4.3	--	--	--
NOV. 30...	1300	3.0	42	18	2.0	--	--	--
DEC. 15...	1350	9.0	2850	780	6000	33	43	52
MAR. 08...	1215	1.0	111	65	19	--	--	--
APR. 21...	1430	--	2810	571	4330	53	63	69
JUNE 21...	1400	20.0	152	75	31	--	--	--
SEP. 05...	1520	23.0	29	53	4.1	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT. 13...	--	--	--	--	--	--	--
NOV. 30...	--	--	--	--	--	--	--
DEC. 15...	60	67	74	78	83	93	100
MAR. 08...	--	--	--	--	--	--	--
APR. 21...	76	82	85	87	91	99	100
JUNE 21...	--	--	--	--	--	--	--
SEP. 05...	--	--	--	--	--	--	--

03330500 Tippecanoe River at Oswego, Ind.

LOCATION.—Lat 41°19'14", long 85°47'21", in NE 1/4 NE 1/4 sec.14, T.33 N., R.6 E., Kosciusko County, on left bank 10 ft downstream from dam at Tippecanoe Lake Outlet in Oswego, and 3 miles east of Leesburg.

DRAINAGE AREA.—113 sq mi.

PERIOD OF RECORD.—October 1949 to current year.

GAGE.—Water-stage recorder. Datum of gage is 830.00 ft above mean sea level. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—23 years, 95.6 cfs (11.49 inches per year).

EXTREMES.—Current year: Maximum discharge, 332 cfs Apr. 24 (gage height, 7.77 ft); minimum daily, 8.0 cfs Sept. 6, 10.
Period of record: Maximum discharge, 700 cfs Oct. 17, 1954 (gage height, 8.64 ft); minimum daily, 0.08 cfs Aug. 4, 5, 1967.

REMARKS.—Records good. Occasional regulation by flashboards at lake outlet.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	50	47	110	71	48	130	261	41	20	17	15
2	12	48	47	109	70	48	129	239	41	20	17	39
3	12	47	47	109	69	46	130	228	41	35	18	39
4	12	46	50	111	69	47	129	217	42	49	18	38
5	10	45	51	117	68	49	122	205	39	39	17	30
6	9.9	44	52	123	68	51	89	190	35	20	17	8.0
7	9.9	43	54	129	67	52	105	183	34	19	30	12
8	9.9	42	53	134	65	56	118	176	34	19	54	34
9	11	41	53	131	63	58	120	176	34	20	80	23
10	10	41	55	129	60	60	128	171	34	20	81	8.0
11	9.5	40	59	124	59	59	146	168	32	20	77	14
12	9.5	40	62	120	58	56	162	166	30	19	54	41
13	9.5	39	66	119	57	59	168	165	30	19	39	84
14	9.5	39	77	116	55	55	178	168	31	33	40	123
15	9.5	38	86	112	55	42	192	176	83	54	45	130
16	9.1	38	100	104	54	46	216	176	76	60	41	132
17	9.1	38	108	95	53	48	235	176	55	38	30	136
18	9.1	37	118	88	52	50	247	176	39	45	18	151
19	8.7	37	126	83	51	88	253	173	30	58	31	176
20	9.5	43	135	78	49	137	287	168	31	36	42	176
21	9.5	52	140	74	48	149	304	165	30	22	51	155
22	12	51	143	72	48	154	317	160	30	23	88	152
23	54	49	143	71	47	158	324	153	29	22	102	147
24	30	48	141	69	47	159	332	131	32	24	107	145
25	53	46	141	69	47	159	329	91	36	30	98	143
26	51	45	141	74	47	156	324	62	36	28	66	145
27	50	45	132	75	47	156	314	60	36	26	49	143
28	54	46	122	74	47	150	304	59	36	22	39	140
29	54	47	114	74	47	146	289	58	52	20	40	146
30	52	47	114	73	------	140	271	57	44	19	28	147
31	49	------	113	72	------	134	------	51	------	18	8.6	------
TOTAL	471.2	1,312	2,890	3,038	1,638	2,816	6,402	4,805	1,173	897	1,442.6	2,872.0
MEAN	21.7	43.7	93.2	98.0	56.5	90.8	213	155	39.1	28.9	46.5	95.7
MAX	54	52	143	134	71	159	332	261	83	60	107	176
MIN	8.7	37	47	69	47	42	89	51	29	18	8.6	8.0
CFSM	.19	.39	.82	.87	.50	.80	1.89	1.37	.35	.26	.41	.85
IN.	.22	.43	.95	1.00	.54	.93	2.11	1.58	.39	.30	.47	.95

CAL YR 1971 TOTAL 25,208.2 MEAN 69.1 MAX 257 MIN 3.3 CFSM .61 IN 8.30
WTR YR 1972 TOTAL 29,956.8 MEAN 81.8 MAX 332 MIN 8.0 CFSM .72 IN 9.86

PEAK DISCHARGE (BASE, 200 CFS).—Apr. 24 (0300) 332 cfs (7.77 ft).

03331110 Walnut Creek near Warsaw, Ind.

LOCATION.—Lat 41°12'17", long 85°52'11", in NW 1/4 NE 1/4 sec.30, T.32 N., R.6 E., Kosciusko County, on left bank 10 ft upstream from bridge on County Road 200 South, 0.3 mile downstream from small right-bank tributary, and 2.5 miles south of court house in Warsaw.

DRAINAGE AREA.—19.6 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 823.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 112 cfs Apr. 20 (gage height, 2.83 ft); minimum daily, 1.7 cfs Oct. 12-21, Nov. 23-26. Period of record: Maximum discharge, 141 cfs Apr. 21, 1970 (gage height, 3.02 ft); maximum gage height, 3.06 ft Feb. 7, 1971 (backwater from ice); minimum daily discharge, 0.90 cfs Aug. 13, 24, to Sept. 3, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.4	3.2	29	6.7	13	24	30	10	4.8	2.9	3.8
2	2.3	2.6	3.4	26	6.6	17	25	30	9.1	4.6	3.4	3.4
3	2.1	2.4	3.4	21	6.6	18	24	28	8.3	4.2	3.8	3.4
4	2.1	2.3	2.9	18	6.3	17	26	26	7.9	4.0	3.2	3.2
5	2.0	2.1	2.9	13	5.8	14	26	23	7.0	3.6	2.9	2.9
6	1.9	2.0	3.6	9.6	5.5	12	25	22	6.7	3.2	5.3	2.7
7	1.9	2.0	8.3	9.6	5.2	11	36	21	5.9	3.0	11	2.6
8	1.9	2.0	16	9.6	5.0	9.8	41	24	5.3	3.0	11	2.7
9	1.9	2.1	16	9.8	4.9	9.0	44	46	5.1	3.0	9.4	2.6
10	1.9	2.1	21	10	4.8	7.9	40	45	4.8	2.9	7.3	2.4
11	1.9	2.0	30	11	4.8	7.0	36	38	4.6	2.7	5.9	2.9
12	1.7	2.0	28	10	4.8	7.3	33	33	4.4	2.7	5.9	6.1
13	1.7	2.0	24	10	4.8	15	54	30	4.6	2.6	5.3	11
14	1.7	2.0	21	9.9	4.8	23	54	38	4.6	2.6	5.1	28
15	1.7	2.0	32	9.1	6.1	24	46	62	13	3.0	7.0	35
16	1.7	2.6	40	7.0	6.4	26	64	53	14	3.0	7.6	34
17	1.7	3.4	38	8.0	6.1	28	88	43	13	3.2	6.7	30
18	1.7	4.2	32	9.0	5.8	26	76	37	10	4.0	5.9	28
19	1.7	4.2	25	10	5.7	23	71	33	8.7	5.6	5.9	27
20	1.7	3.2	21	11	5.7	20	98	29	7.6	5.9	6.7	24
21	1.7	2.4	19	11	5.7	19	86	26	6.1	5.3	6.1	21
22	2.0	2.0	17	15	5.9	20	98	23	5.3	4.6	5.6	18
23	2.3	1.7	15	20	5.9	20	83	21	4.8	4.2	10	19
24	2.7	1.7	14	21	5.9	19	65	19	4.6	4.8	14	23
25	2.7	1.7	13	17	5.6	17	50	17	4.6	5.3	13	25
26	3.0	1.7	13	15	5.6	16	41	16	4.4	4.8	10	29
27	3.0	1.8	13	14	5.9	17	36	15	4.2	4.4	8.3	29
28	2.6	1.9	13	12	8.3	17	33	13	4.2	4.2	7.0	26
29	2.4	2.4	12	10	11	20	30	12	5.1	3.6	5.9	35
30	2.3	2.9	20	8.2	------	25	30	12	5.3	3.2	4.8	36
31	2.3	------	29	7.2	------	26	------	11	------	2.9	4.2	------
TOTAL	64.6	69.8	549.7	401.0	172.2	544.0	1,485	876	203.2	118.9	211.1	516.7
MEAN	2.08	2.33	17.7	12.9	5.94	17.5	49.5	28.3	6.77	3.84	6.81	17.2
MAX	3.0	4.2	40	29	11	28	98	62	14	5.9	14	36
MIN	1.7	1.7	2.9	7.0	4.8	7.0	24	11	4.2	2.6	2.9	2.4
CFSM	.11	.12	.90	.66	.30	.89	2.53	1.44	.35	.20	.35	.88
IN.	.12	.13	1.04	.76	.33	1.03	2.82	1.66	.39	.23	.40	.98

CAL YR 1971 TOTAL 3,506.95 MEAN 9.61 MAX 75 MIN .90 CFSM .49 IN 6.66
WTR YR 1972 TOTAL 5,212.20 MEAN 14.2 MAX 98 MIN 1.7 CFSM .72 IN 9.89

PEAK DISCHARGE (BASE, 75 CFS).—Apr. 16 (2100) 90 cfs (2.67 ft). Apr. 20 (0400) 112 cfs (2.83 ft).

03331500 Tippecanoe River near Ora, Ind.

LOCATION.—Lat 41°09'26", long 86°33'49", in SE 1/4 SE 1/4 sec.6, T.31 N., R.1 W., Pulaski County, on right bank at downstream side of highway bridge, 1.0 mile upstream from Bartee ditch, and 1.3 miles southwest of Ora.

DRAINAGE AREA.—856 sq mi.

PERIOD OF RECORD.—September 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Altitude of gage is 694 ft (by barometer). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft downstream from present gage. July 30, 1956, to Dec. 20, 1964, water-stage recorder on right bank at downstream side of old highway bridge, and Dec. 21, 1964, to Aug. 19, 1965, nonrecording gage on right bank 500 ft downstream from present site. All gages at same datum.

AVERAGE DISCHARGE.—29 years, 779 cfs (12.36 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,960 cfs Apr. 22 (gage height, 11.80 ft); minimum daily, 192 cfs Oct. 21.
Period of record: Maximum discharge, 7,800 cfs Apr. 5, 1950 (gage height, 14.40 ft site then in use); minimum daily, 87 cfs Sept. 13, 1966.

REMARKS.—Records good except those for February, which are fair.

REVISIONS (WATER YEARS).—WSP 1335: 1944(M). WSP 1505: 1949-50(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	295	345	1,290	600	616	1,140	1,790	646	377	277	400
2	245	293	350	1,140	520	712	1,180	1,760	622	380	276	386
3	227	285	343	1,050	490	745	1,240	1,690	595	388	279	385
4	230	278	335	968	450	691	1,200	1,590	565	371	280	373
5	230	275	328	800	430	631	1,220	1,500	553	358	271	368
6	219	265	330	620	410	577	1,140	1,420	541	360	272	355
7	214	258	383	718	400	547	1,370	1,350	520	357	340	345
8	214	253	493	700	390	529	1,970	1,380	493	357	444	383
9	222	253	529	721	380	496	2,090	1,810	478	373	463	420
10	222	253	592	769	380	469	1,940	2,390	460	369	443	376
11	222	248	984	739	380	458	1,760	2,490	443	350	411	364
12	214	243	1,060	706	400	458	1,620	2,270	430	334	419	532
13	217	240	908	685	420	592	1,720	2,080	469	322	437	832
14	217	240	845	600	450	894	2,080	1,970	463	315	423	1,380
15	214	243	988	500	500	957	2,020	2,350	544	318	581	1,990
16	210	233	1,420	450	480	950	1,850	3,440	869	356	671	2,320
17	207	233	1,460	520	470	1,060	2,320	3,830	800	384	597	2,090
18	203	238	1,220	600	460	1,010	3,000	3,430	756	414	505	1,840
19	210	245	1,040	750	450	918	3,170	2,940	706	515	443	2,010
20	196	255	925	850	460	845	3,200	2,440	630	596	409	2,040
21	192	263	866	980	480	808	3,580	1,990	548	591	382	1,710
22	219	265	811	1,100	460	880	3,920	1,690	482	510	370	1,400
23	289	263	763	1,050	440	1,070	3,800	1,470	444	444	375	1,240
24	321	265	724	960	430	1,060	3,520	1,280	423	401	637	1,420
25	334	268	703	850	430	972	3,120	1,140	413	372	1,130	1,610
26	335	265	697	740	430	915	2,750	1,020	401	344	1,020	1,890
27	325	278	703	660	430	901	2,440	908	392	335	861	2,050
28	328	288	697	580	440	946	2,180	824	386	329	742	1,980
29	323	305	676	540	530	1,020	1,980	757	384	316	612	1,920
30	315	335	817	500	------	1,180	1,850	709	382	304	505	2,130
31	303	------	1,250	500	------	1,220	------	679	------	290	439	------
TOTAL	7,688	7,921	23,585	23,636	12,990	25,127	66,370	56,387	15,838	11,830	15,314	36,539
MEAN	248	264	761	762	448	811	2,212	1,819	528	382	494	1,218
MAX	335	335	1,460	1,290	600	1,220	3,920	3,830	869	596	1,130	2,320
MIN	192	233	328	450	380	458	1,140	679	382	290	271	345
CFSM	.29	.31	.89	.89	.52	.95	2.58	2.13	.62	.45	.58	1.42
IN.	.33	.34	1.02	1.03	.56	1.09	2.88	2.45	.69	.51	.67	1.59

CAL YR 1971 TOTAL 209,740 MEAN 575 MAX 3,390 MIN 161 CFSM .67 IN 9.11
WTR YR 1972 TOTAL 303,225 MEAN 828 MAX 3,920 MIN 192 CFSM .97 IN 13.18

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-22	1000	11.80	3,960	05-17	0700	11.76	3,910
05-11	0100	10.37	2,560	09-16	1100	10.10	2,350

03331500 Tippecanoe River near Ora, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 12...	1320	14.0	220	19	11
NOV. 16...	1355	13.5	236	9	5.7
FEB. 29...	1415	6.0	536	19	27
MAY 11...	1315	--	2520	22	150
JUNE 14...	1510	21.0	488	44	58
AUG. 22...	1615	26.5	359	37	36
SEP. 27...	1310	--	1930	36	188

03332300 Little Indian Creek near Royal Center, Ind.

LOCATION.—Lat 40°52'53", long 86°35'26", in NE 1/4 NW 1/4 sec.13, T.28 N., R.2 W., White County, on right bank at downstream side of county road bridge, 2.9 miles upstream from mouth, 3.2 miles downstream from Fredericks ditch, and 4.8 miles northwest of Royal Center Post Office.

DRAINAGE AREA.—35.0 sq mi.

PERIOD OF RECORD.—July 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 692.73 ft above mean sea level.

AVERAGE DISCHARGE.—13 years, 26.9 cfs (10.44 inches per year).

EXTREMES.—Current year: Maximum discharge, 235 cfs Dec. 15 (gage height, 5.57 ft); minimum daily, 2.3 cfs Sept. 6.
Period of record: Maximum discharge, about 500 cfs Mar. 5, 1963 (gage height, unknown); minimum daily, 0.5 cfs Dec. 17-22, 1963.
Maximum stage known, 11.2 ft in Spring of 1957, from information by local residents.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	12	55	11	27	38	36	19	12	8.2	4.0
2	11	12	11	50	12	36	49	33	18	12	8.2	4.3
3	10	11	11	45	11	27	42	29	18	13	8.5	4.8
4	12	10	11	38	9.5	24	54	26	17	11	8.5	3.5
5	11	10	10	30	8.5	21	45	24	17	10	7.6	3.0
6	10	9.7	14	24	7.8	18	39	23	19	9.7	8.8	2.3
7	9.1	9.1	34	23	7.4	16	141	23	16	9.1	26	2.8
8	9.1	9.1	52	23	7.4	15	135	23	16	8.8	22	13
9	10	9.7	36	27	7.4	14	110	34	16	8.5	14	7.6
10	10	9.7	86	29	8.0	13	88	31	15	8.2	11	4.0
11	9.4	9.7	115	28	8.5	12	69	26	14	7.6	8.8	3.8
12	8.8	9.4	74	26	9.5	16	59	24	14	7.3	14	18
13	8.8	9.4	51	22	11	20	102	25	24	7.0	13	20
14	8.8	9.1	54	19	13	26	74	55	22	9.7	11	86
15	8.5	9.7	187	16	17	23	57	147	114	9.1	15	82
16	8.2	9.1	209	17	16	34	91	114	108	8.2	12	46
17	7.9	9.1	129	21	16	33	126	85	58	7.3	9.7	28
18	7.6	9.7	86	27	15	27	90	64	39	16	7.9	51
19	7.9	10	60	33	13	23	72	47	31	31	7.3	95
20	7.6	10	48	25	13	22	141	37	27	22	6.7	59
21	7.9	9.7	43	25	14	21	127	32	23	15	6.4	37
22	25	9.1	37	36	12	28	178	29	21	12	6.1	29
23	32	8.8	35	56	11	26	125	26	19	11	6.7	46
24	22	8.8	37	45	11	23	92	24	18	11	16	79
25	19	8.8	36	40	11	22	70	22	16	10	14	69
26	17	9.1	37	30	12	20	57	21	15	9.7	9.1	96
27	15	10	36	20	13	31	48	20	14	9.7	7.3	71
28	14	9.7	32	16	14	32	41	20	14	9.4	6.4	59
29	13	11	28	13	20	42	38	20	14	8.5	5.5	106
30	12	12	73	11	------	60	36	20	13	8.5	5.0	121
31	12	------	82	10	------	41	------	19	------	8.2	4.3	------
TOTAL	376.6	293.5	1,766	880	340.0	793	2,434	1,159	789	340.5	315.0	1,251.1
MEAN	12.1	9.78	57.0	28.4	11.7	25.6	81.1	37.4	26.3	11.0	10.2	41.7
MAX	32	12	209	56	20	60	178	147	114	31	26	121
MIN	7.6	8.8	10	10	7.4	12	36	19	13	7.0	4.3	2.3
CFSM	.35	.28	1.63	.81	.33	.73	2.32	1.07	.75	.31	.29	1.19
IN.	.40	.31	1.88	.94	.36	.84	2.59	1.23	.84	.36	.33	1.33

CAL YR 1971 TOTAL 10,038.6 MEAN 27.5 MAX 365 MIN 2.9 CFSM .79 IN 10.67
WTR YR 1972 TOTAL 10,737.7 MEAN 29.3 MAX 209 MIN 2.3 CFSM .84 IN 11.41

PEAK DISCHARGE (BASE, 250 CFS).—No peaks above base.

03332400 Big Monon Creek near Francesville, Ind.

LOCATION.—Lat 40°59'03", long 86°51'43", in NW 1/4 NE 1/4 sec.10, T.29 N., R.4 W., Pulaski County, on right bank at downstream side of county road bridge, 1.1 miles east of Francesville, 1.6 miles downstream from right-bank tributary, and 10.2 miles upstream from mouth.

DRAINAGE AREA.—152 sq mi.

PERIOD OF RECORD.—August 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 653.17 ft above mean sea level.

AVERAGE DISCHARGE.—13 years, 138 cfs (12.33 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,590 cfs May 9 (gage height, 13.97 ft); minimum daily, 44 cfs Sept. 1.
Period of record: Maximum discharge, 2,750 cfs Dec. 25, 1965 (gage height, 15.14 ft, from floodmarks); maximum gage height, 15.90 ft Feb. 2, 1968; minimum daily discharge, 8.5 cfs Nov. 20, 1964.
Maximum stage known, about 18.60 ft in Spring of 1957, from information by local residents.

REMARKS.—Records fair.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	55	46	514	95	143	243	215	105	78	51	44
2	135	59	41	406	110	214	317	216	98	80	53	49
3	121	60	41	359	100	175	285	194	93	91	54	55
4	116	58	60	310	90	158	279	171	87	78	53	48
5	110	56	60	240	80	140	242	156	85	73	47	45
6	101	54	74	210	72	120	217	156	104	71	57	45
7	93	50	103	210	70	110	660	164	90	69	174	59
8	91	49	96	220	65	95	602	390	88	69	126	164
9	102	53	95	201	65	90	495	1,510	86	65	96	89
10	95	55	249	212	70	85	398	1,380	87	64	76	66
11	90	56	530	201	75	91	317	785	79	56	68	63
12	84	57	346	189	85	94	280	470	83	52	94	82
13	82	54	247	189	100	331	440	363	603	50	99	80
14	80	52	224	160	130	513	340	379	628	49	84	173
15	76	52	615	140	160	335	285	759	349	55	139	165
16	72	52	790	140	140	368	366	573	248	56	122	114
17	69	50	482	150	120	323	523	406	183	53	99	93
18	67	51	301	170	110	259	360	314	157	112	83	90
19	66	56	242	200	100	214	357	259	138	254	74	115
20	64	54	217	230	105	194	795	219	122	230	69	102
21	64	52	216	260	110	181	688	196	113	134	63	89
22	60	48	201	272	95	192	871	176	102	99	61	83
23	74	47	184	307	86	179	687	162	97	84	61	135
24	74	48	185	253	82	142	437	150	94	79	65	201
25	74	48	186	240	82	153	342	140	92	78	59	396
26	71	47	199	200	83	144	282	130	89	71	56	906
27	68	54	201	160	86	205	245	123	81	73	53	645
28	63	55	191	130	99	238	222	117	81	64	52	372
29	54	63	161	110	111	235	208	113	87	59	49	621
30	59	72	495	100	------	280	206	112	84	51	47	695
31	63	------	823	92	------	244	------	108	------	50	45	------
TOTAL	2,609	1,617	7,960	6,774	2,776	6,265	11,989	10,606	4,433	2,547	2,329	5,886
MEAN	84.2	53.9	257	219	95.7	202	400	342	148	82.2	75.1	196
MAX	155	72	823	514	160	513	871	1,510	628	254	174	906
MIN	54	47	60	92	65	85	206	108	79	49	45	44
CFSM	.55	.35	1.69	1.44	.63	1.33	2.63	2.25	.97	.54	.49	1.29
IN.	.64	.40	1.95	1.66	.68	1.53	2.93	2.60	1.08	.62	.57	1.44

CAL YR 1971 TOTAL 40,546 MEAN 111 MAX 990 MIN 16 CFSM .73 IN 9.92
WTR YR 1972 TOTAL 65,789 MEAN 180 MAX 1,510 MIN 44 CFSM 1.18 IN 16.10

03332500 Tippecanoe River near Monticello, Ind.

LOCATION.—Lat 40°46'48", long 86°45'36", in NW 1/4 NE 1/4 sec.21, T.27 N., R.3 W., White County, at Norway plant of Northern Indiana Public Service Co., 2 miles north of Monticello.

DRAINAGE AREA.—1,732 sq mi.

PERIOD OF RECORD.—October 1931 to current year.

AVERAGE DISCHARGE.—41 years, 1,460 cfs (11.45 inches per year).

EXTREMES.—Current year: Maximum daily discharge, 7,500 cfs Apr. 22; minimum daily, 282 cfs Oct. 20, Nov. 20.
Period of record: Maximum daily discharge, 16,800 cfs June 13, 1958; minimum daily, 103 cfs July 27, 1934.

REMARKS.—Discharge computed on basis of records of operation of powerplant and flow over dam.

COOPERATION.—Records of daily discharges furnished by Northern Indiana Public Service Co.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	701	547	668	3,050	1,210	1,280	2,120	2,880	1,020	619	390	866
2	602	598	520	2,620	1,220	1,430	2,590	2,800	1,210	625	520	520
3	635	580	685	2,280	1,200	1,430	2,420	2,450	979	882	520	718
4	520	325	520	2,110	915	1,430	2,490	2,410	1,220	619	520	520
5	520	520	520	1,800	915	1,170	2,470	2,310	915	668	368	520
6	520	520	701	1,220	705	979	2,180	2,020	1,150	619	574	701
7	520	520	717	1,590	915	1,070	4,980	2,000	979	734	893	520
8	520	325	915	1,400	882	915	5,320	2,380	915	569	849	1,090
9	520	520	915	1,810	767	915	4,410	5,660	1,130	717	652	800
10	520	520	1,480	1,810	750	750	4,270	5,340	728	586	783	750
11	520	390	2,550	1,490	816	915	3,770	4,460	915	652	718	645
12	520	520	2,120	1,560	816	915	3,060	3,880	783	520	1,100	767
13	520	520	1,690	1,430	750	1,250	3,730	3,370	1,470	520	915	904
14	520	303	1,930	1,130	915	2,330	3,250	3,350	1,810	520	915	3,000
15	390	520	3,070	717	915	1,850	3,060	4,880	1,810	520	915	3,890
16	520	520	4,600	597	882	2,540	3,610	4,840	2,180	520	1,180	3,420
17	433	347	3,750	833	1,060	2,210	4,820	4,580	1,810	520	1,140	2,990
18	433	520	2,690	1,130	1,030	2,080	3,990	4,880	1,420	937	915	2,870
19	520	520	2,260	1,430	836	1,810	4,250	4,140	1,450	1,250	750	3,370
20	282	282	1,910	1,560	763	1,620	6,910	3,710	1,260	1,170	520	2,730
21	457	520	1,880	1,510	1,030	1,730	6,740	3,280	1,150	1,210	673	2,660
22	668	520	1,750	1,750	915	1,520	7,500	2,550	915	915	899	2,120
23	520	346	1,560	2,270	734	1,680	7,260	2,310	915	915	520	2,040
24	750	520	1,570	2,020	915	1,700	5,540	2,020	765	668	783	2,970
25	433	347	1,640	1,530	915	1,780	5,000	1,810	915	693	1,240	2,660
26	742	520	1,490	1,430	767	1,560	4,340	1,680	750	520	1,430	5,000
27	520	520	1,540	1,220	915	1,750	3,770	1,430	783	520	1,320	4,390
28	623	520	1,510	979	767	1,940	3,280	1,290	734	611	1,040	3,640
29	478	520	1,430	915	915	2,020	3,110	1,500	833	520	915	4,420
30	668	520	1,920	915	------	2,440	2,910	1,130	800	520	841	5,440
31	520	------	3,380	915	------	2,310	------	1,160	------	520	618	------
TOTAL	16,615	14,270	53,881	47,021	26,135	49,319	123,150	92,500	33,714	21,379	25,416	66,931
MEAN	536	476	1,738	1,517	901	1,591	4,105	2,984	1,124	690	820	2,231
MAX	750	598	4,600	3,050	1,220	2,540	7,500	5,660	2,180	1,250	1,430	5,440
MIN	282	282	520	597	705	750	2,120	1,130	728	520	368	520
CFSM	.31	.27	1.00	.88	.52	.92	2.37	1.72	.65	.40	.47	1.29
IN.	.36	.31	1.16	1.01	.56	1.06	2.65	1.99	.72	.46	.55	1.44

CAL YR 1971 TOTAL 417,297 MEAN 1,143 MAX 7,590 MIN 238 CFSM .66 IN 8.96
WTR YR 1972 TOTAL 570,331 MEAN 1,558 MAX 7,500 MIN 282 CFSM .90 IN 12.25

03333000 Tippecanoe River near Delphi, Ind.

LOCATION.—Lat 40°37'02", long 86°45'39", in NW 1/4 NE 1/4 sec.16, T.25 N., R.3 W., Carroll County, on right bank 2 miles northeast of Springboro, 2 miles downstream from Big Creek, and 5 miles northwest of Delphi.

DRAINAGE AREA.—1,865 sq mi.

PERIOD OF RECORD.—March to December 1903, March to December 1904, March 1905 to July 1906, November and December 1908, July 1939 to current year. Published as "at Springboro" 1903.

GAGE.—Water-stage recorder. Datum of gage is 552.01 ft above mean sea level (levels by Corps of Engineers). Mar. 14, 1903, to July 20, 1906, and Nov. 2 to Dec. 31, 1908, nonrecording gage at site 5.5 miles downstream at different datum.

AVERAGE DISCHARGE.—33 years (1939 to current year), 1,585 cfs (11.54 inches per year).

EXTREMES.—Current year: Maximum discharge, 10,600 cfs Dec. 15 (gage height, 10.08 ft); minimum daily, 436 cfs Oct. 8.
Period of record: Maximum discharge, 22,600 cfs Feb. 10, 1959 (gage height, 15.10 ft); minimum daily, 1 cfs Nov. 2, 3, 1954, caused by repair work at Oakdale Dam, 6.5 miles upstream.

REMARKS.—Records good. Flow regulated by powerplant above station.

REVISIONS (WATER YEARS).—WSP 973: 1942. WSP 1335: 1905-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	624	774	3,410	1,360	1,410	2,090	2,920	1,130	661	549	937
2	710	734	603	2,670	1,130	1,430	2,630	2,910	1,400	723	549	762
3	728	639	605	2,660	1,220	1,710	2,700	2,700	1,170	897	630	897
4	674	550	786	2,280	1,170	1,400	2,650	2,510	1,280	730	549	528
5	639	450	448	1,860	974	1,390	2,550	2,480	1,290	762	571	446
6	752	581	1,020	1,420	1,020	1,110	2,380	2,100	1,140	576	762	785
7	647	639	717	1,790	1,030	1,050	5,240	2,160	1,300	873	954	785
8	436	639	1,080	1,460	1,020	1,110	5,600	2,610	942	749	889	1,530
9	621	786	1,060	2,060	758	1,170	4,470	5,370	1,200	699	954	1,000
10	540	639	1,640	1,880	790	687	4,560	5,110	854	593	699	1,020
11	662	639	2,730	1,690	995	1,020	3,960	4,240	1,110	849	1,130	493
12	641	576	2,380	1,620	1,030	1,050	3,280	3,870	1,030	528	1,200	1,210
13	721	500	2,120	1,650	754	1,370	3,770	3,420	1,570	600	1,420	801
14	639	450	1,960	1,380	1,140	2,580	3,490	3,290	2,320	556	1,150	3,540
15	639	450	3,700	1,010	1,040	2,030	3,160	4,850	2,390	738	1,120	4,110
16	675	583	4,630	602	1,010	2,560	3,900	4,720	2,570	563	1,250	3,580
17	639	450	3,810	986	1,120	2,250	4,790	4,410	1,740	593	1,310	2,990
18	639	450	3,250	1,200	1,040	2,160	4,140	4,690	1,620	1,060	1,120	2,850
19	727	550	2,350	1,560	877	2,010	4,270	4,270	1,680	1,410	921	3,100
20	639	450	1,790	1,590	876	1,780	7,250	3,420	1,350	1,550	486	2,780
21	641	450	2,110	1,870	1,300	1,950	7,140	3,560	1,280	1,140	1,090	2,610
22	812	550	1,870	1,790	995	1,560	7,730	2,630	1,060	1,170	809	2,020
23	640	450	1,630	2,280	888	1,780	7,570	2,390	833	971	707	2,300
24	988	550	1,790	2,240	923	1,980	5,450	2,190	793	754	905	2,570
25	520	450	1,790	1,840	1,070	1,770	5,120	1,890	1,110	754	1,470	2,660
26	965	450	1,790	1,480	792	1,770	4,400	1,790	769	630	1,760	4,480
27	642	700	1,620	1,410	993	1,840	3,800	1,730	971	707	1,510	4,080
28	812	450	1,650	1,120	829	2,150	3,470	1,520	793	684	1,370	3,280
29	642	700	1,580	1,230	1,030	2,180	3,310	1,540	929	630	1,220	3,950
30	750	450	1,900	950	------	2,450	2,840	1,380	971	514	762	5,080
31	553	------	3,460	1,220	------	2,490	------	1,300	------	630	921	------
TOTAL	18,923	15,579	58,663	52,208	29,174	53,197	127,710	93,970	38,595	24,316	30,737	67,074
MEAN	610	519	1,892	1,684	1,006	1,716	4,257	3,031	1,287	784	992	2,236
MAX	988	786	4,630	3,410	1,360	2,580	7,730	5,370	2,570	1,550	1,760	5,080
MIN	436	439	448	602	754	687	2,090	1,300	769	514	486	446
CFSM	.33	.28	1.01	.90	.54	.92	2.28	1.63	.69	.42	.53	1.20
IN.	.38	.31	1.17	1.04	.58	1.06	2.55	1.87	.77	.49	.61	1.34

CAL YR 1971 TOTAL 452,770 MEAN 1,240 MAX 8,040 MIN 225 CFSM .66 IN 9.03
WTR YR 1972 TOTAL 610,146 MEAN 1,667 MAX 7,730 MIN 436 CFSM .89 IN 12.17

03333450 Wildcat Creek near Jerome, Ind.

LOCATION.—Lat 40°26'29", long 85°55'08", in NE 1/4 SE 1/4 sec.14, T.23 N., R.5 E., Howard County, on right bank at downstream side of bridge on County Road 1100 East, 0.5 mile downstream from Mud Creek, and 1.5 miles southeast of Jerome.

DRAINAGE AREA.—146 sq mi.

PERIOD OF RECORD.—July 1961 to current year.

GAGE.—Water-stage recorder. Datum of gage is 820.04 ft above mean sea level.

AVERAGE DISCHARGE.—11 years, 109 cfs (10.14 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,910 cfs Apr. 20 (gage height, 10.46 ft); minimum daily, 5.7 cfs Sept. 1.
Period of record: Maximum discharge, 4,160 cfs Apr. 20, 1964; maximum gage height, 11.98 ft Jan. 26, 1962; minimum daily discharge, 1.1 cfs Oct. 10-12, 1966.
Flood in March 1913 reached a stage of about 18 ft, from information by local residents.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	11	390	62	93	114	148	74	28	18	5.7
2	12	16	9.6	294	66	531	95	135	55	25	18	6.8
3	12	16	8.4	254	68	414	83	114	47	327	26	8.4
4	12	15	8.4	216	52	266	108	97	41	411	19	7.6
5	13	13	8.4	191	42	175	135	84	34	218	15	7.2
6	15	12	20	151	49	127	126	78	39	132	15	6.5
7	14	12	169	146	55	123	887	75	36	92	16	6.5
8	14	11	550	112	44	98	843	72	31	72	15	9.0
9	16	11	375	133	38	77	664	81	31	59	13	8.4
10	17	12	310	268	36	71	546	80	31	50	11	7.6
11	17	12	430	256	38	71	409	69	27	43	10	7.2
12	15	11	346	204	45	72	310	62	23	35	11	9.6
13	14	11	236	184	51	70	272	72	108	31	10	9.0
14	13	10	280	110	51	75	206	102	298	29	9.6	26
15	12	10	1,050	86	60	69	168	168	236	38	9.6	54
16	11	9.0	1,090	80	53	77	264	129	258	55	9.6	34
17	10	9.0	678	88	49	81	498	98	155	44	9.0	21
18	9.6	8.4	447	100	54	71	342	83	107	50	8.4	17
19	9.6	9.0	318	107	40	60	296	72	86	493	7.6	25
20	8.4	9.6	252	102	39	55	2,340	65	75	392	7.6	22
21	9.0	9.0	206	102	41	59	1,840	63	66	198	7.2	16
22	13	8.4	175	135	44	71	1,720	57	55	120	7.2	13
23	19	8.0	162	238	35	66	1,260	53	47	82	7.2	55
24	26	8.0	160	214	43	57	881	49	43	63	9.0	173
25	28	8.0	146	150	40	54	607	42	38	55	9.0	138
26	27	7.6	150	120	39	53	442	40	33	43	8.0	507
27	26	8.4	136	100	35	57	325	35	29	36	7.6	1,100
28	24	9.0	127	90	40	60	252	33	28	31	7.2	899
29	23	9.6	109	80	53	92	204	34	30	27	6.8	887
30	20	12	290	72	------	189	169	46	33	23	6.5	1,150
31	18	------	602	68	------	135	------	96	------	20	6.1	------
TOTAL	491.6	321.0	8,859.8	4,841	1,362	3,569	16,406	2,432	2,194	3,322	340.2	5,236.5
MEAN	15.9	10.7	286	156	47.0	115	547	78.5	73.1	107	11.0	175
MAX	28	16	1,090	390	68	531	2,340	168	298	493	26	1,150
MIN	8.4	7.6	8.4	68	35	53	83	33	23	20	6.1	5.7
CFSM	.11	.07	1.96	1.07	.32	.79	3.75	.54	.50	.73	.08	1.20
IN.	.13	.08	2.26	1.23	.35	.91	4.18	.62	.56	.85	.09	1.33

CAL YR 1971 TOTAL 33,751.4 MEAN 92.5 MAX 1,480 MIN 4.2 CFSM .63 IN 8.60
WTR YR 1972 TOTAL 49,375.1 MEAN 135 MAX 2,340 MIN 5.7 CFSM .92 IN 12.58

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0100	7.03	1,260	09-30	0500	6.90	1,220
04-20	1500	10.46	2,910				

03333600 Kokomo Creek near Kokomo, Ind.

LOCATION.—Lat 40°26'28", long 86°05'20", in NW 1/4 SW 1/4 sec.16, T.23 N., R.4 E., Howard County, on left bank at upstream side of bridge on County Road 200 East, 2.6 miles southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 miles upstream from mouth.

DRAINAGE AREA.—24.7 sq mi.

PERIOD OF RECORD.—July 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 807.68 ft above mean sea level (unadjusted).

AVERAGE DISCHARGE.—13 years, 17.9 cfs (9.84 inches per year).

EXTREMES.—Current year: Maximum discharge, 586 cfs Apr. 20 (gage height, 8.43 ft); minimum daily, 0.76 cfs Sept. 5-7.
Period of record: Maximum discharge, 1,040 cfs Apr. 20, 1964 (gage height, 9.88 ft); minimum daily, 0.12 cfs Oct. 3, 1967.
REVISIONS: The figures of maximum discharge for the Water Years 1970 and 1971 have been revised to 560 cfs Oct. 12, 1969 (gage height, 8.30 ft), and 310 cfs Feb. 5, 1971 (gage height, 5.76 ft), superseding figures published in WRD Ind. 1970 and 1971.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area. The figures of peak discharge for Water Years 1970-71 have been revised as shown in the following table. They supersede figures published in WRD Ind. 1970-71.

REVISED PEAK DISCHARGE.—1970: Oct. 12 (1715) 560 cfs (8.30 ft); Nov. 17 (0700) 392 cfs (6.79 ft); Apr. 20 (0300) 256 cfs (5.09 ft); May 13 (1430) 251 cfs (5.02 ft).
1971: Feb. 5 (0015) 310 cfs (5.76 ft); Feb. 19 (2115) 287 cfs (5.48 ft); Feb. 22 (1315) 309 cfs (5.75 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.4	1.3	43	8.8	18	19	17	7.0	4.1	1.8	1.7
2	.92	1.5	1.1	38	9.0	49	16	16	6.3	4.3	2.8	1.8
3	.80	1.4	1.0	33	10	35	15	13	5.6	34	8.6	1.6
4	1.5	1.3	1.0	31	6.7	28	26	11	5.3	21	4.1	1.5
5	1.9	1.2	1.0	26	6.0	20	27	9.9	4.7	14	2.9	.76
6	1.6	1.4	3.5	22	8.1	17	25	9.0	4.0	9.9	3.3	.76
7	1.4	1.3	46	21	8.1	18	157	8.6	5.6	8.1	3.8	.76
8	1.3	1.2	67	18	6.0	12	102	8.6	5.3	7.0	3.1	2.9
9	2.0	1.5	24	25	5.6	10	93	9.9	5.6	6.0	2.9	1.8
10	1.6	1.4	39	37	5.3	9.4	73	7.4	6.0	5.3	2.4	1.5
11	1.5	1.4	41	33	5.6	10	56	7.0	5.0	4.1	2.4	1.6
12	1.4	1.3	19	30	6.3	10	47	6.7	4.4	3.6	2.4	3.6
13	1.1	1.2	11	28	7.4	10	42	9.0	13	3.6	2.0	3.3
14	1.2	1.2	65	17	8.1	9.9	34	13	15	3.9	2.5	15
15	1.1	1.1	232	14	10	9.0	29	12	41	14	2.5	7.4
16	1.1	1.1	135	12	8.6	11	60	9.4	36	21	2.4	5.0
17	.99	1.0	79	14	8.6	11	68	7.7	19	11	2.4	3.9
18	1.1	1.1	54	17	9.4	8.6	49	7.0	14	7.7	2.3	4.7
19	1.1	1.3	42	24	6.3	7.4	74	6.3	12	15	1.9	5.0
20	1.1	1.2	36	24	6.3	7.4	508	5.6	10	9.0	1.6	3.9
21	1.6	1.1	32	22	7.4	8.6	264	7.7	8.6	6.7	2.2	3.1
22	3.4	1.1	28	29	8.1	12	279	8.6	7.7	5.3	2.5	2.9
23	2.7	1.0	28	34	7.0	11	158	7.7	6.7	4.4	3.0	12
24	2.3	1.0	27	32	7.7	9.9	110	7.0	6.7	4.4	5.0	18
25	1.9	1.0	24	24	7.0	9.4	79	6.7	6.0	4.4	2.5	14
26	1.7	1.0	25	21	7.0	9.0	57	5.6	5.3	3.3	2.0	80
27	1.6	1.2	24	16	6.7	12	41	5.0	4.7	3.1	1.7	123
28	1.5	1.1	21	13	8.1	12	31	5.0	4.7	2.6	1.7	92
29	1.4	1.1	19	11	9.4	19	22	6.0	5.3	2.4	1.6	146
30	1.3	1.4	56	10	------	28	19	9.4	5.3	2.0	1.0	144
31	1.3	------	59	9.0	------	22	------	8.1	------	2.0	1.3	------
TOTAL	46.40	36.5	1,241.9	728.0	218.4	463.6	2,580	270.9	287.8	249.2	82.2	703.48
MEAN	1.50	1.22	40.1	23.5	7.53	15.0	86.0	8.74	9.59	8.04	2.65	23.4
MAX	3.4	1.5	232	43	10	49	508	17	41	34	8.6	146
MIN	.80	1.0	1.0	9.0	5.3	7.4	15	5.0	4.4	2.0	1.0	.76
CFSM	.06	.05	1.62	.95	.30	.61	3.48	.35	.39	.33	.11	.95
IN.	.07	.05	1.87	1.10	.33	.70	3.89	.41	.43	.38	.12	1.06

CAL YR 1971 TOTAL 5,955.36 MEAN 16.3 MAX 236 MIN .68 CFSM .66 IN 8.97
WTR YR 1972 TOTAL 6,908.38 MEAN 18.9 MAX 508 MIN .76 CFSM .77 IN 10.40

PEAK DISCHARGE (BASE, 260 CFS).—Apr. 20 (0700) 586 cfs (8.43 ft).

03333700 Wildcat Creek at Kokomo, Ind.

LOCATION.—Lat 40°28'24", long 86°09'26", in NE 1/4 NW 1/4 sec.2, T.23 N., R.3 E., Howard County, on right bank on property of Continental Steel Corporation in Kokomo, 0.3 mile downstream from Kokomo Creek, and 0.4 mile upstream from Dixon Road bridge.

DRAINAGE AREA.—242 sq mi.

PERIOD OF RECORD.—October 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 775.62 ft above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.—17 years, 222 cfs (11.45 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,970 cfs Apr. 20 (gage height, 8.79 ft); minimum daily, 23 cfs Nov. 14, 21, 25, 26.
Period of record: Maximum discharge, 8,100 cfs Feb. 10, 1959; maximum gage height, 11.77 ft Apr. 21, 1964; minimum daily discharge, 7.2 cfs Sept. 30, 1956.

REMARKS.—Records good. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2 (combined capacity, 4,170 acre-ft).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	37	34	595	116	121	201	262	114	49	41	35
2	35	42	33	425	112	392	172	231	97	86	75	33
3	37	37	32	362	118	610	191	218	81	104	64	31
4	41	36	27	310	93	375	196	184	68	436	48	24
5	37	35	25	278	71	270	225	163	67	288	42	31
6	37	30	72	241	75	225	233	137	93	194	54	31
7	36	27	236	223	81	184	1,330	139	67	140	43	40
8	30	32	415	193	72	167	1,470	154	60	107	43	82
9	48	30	630	198	67	139	1,050	165	68	85	42	31
10	30	34	560	293	61	116	860	120	62	78	40	25
11	35	33	595	344	61	104	660	121	49	68	41	39
12	34	32	540	301	63	107	510	116	47	59	42	64
13	36	27	370	275	69	127	420	145	112	60	33	40
14	33	23	515	225	78	107	358	246	255	52	41	195
15	33	28	1,520	152	93	120	278	287	460	146	41	61
16	28	28	1,830	133	91	97	425	254	354	112	39	58
17	25	27	1,150	143	90	52	710	201	255	86	38	48
18	30	27	735	163	93	46	570	165	176	73	38	99
19	34	37	500	181	82	44	595	145	145	245	32	56
20	34	26	400	186	62	46	4,230	114	129	464	28	47
21	48	23	321	181	68	56	4,230	104	106	273	35	40
22	56	27	284	198	75	75	3,390	105	92	191	38	39
23	30	30	257	284	75	60	2,550	96	75	124	50	114
24	38	30	249	312	75	59	1,570	85	70	124	70	150
25	39	23	241	270	72	51	990	79	62	89	45	213
26	38	23	231	218	70	72	695	73	59	71	37	672
27	38	32	229	198	63	116	530	61	56	64	30	1,440
28	38	24	208	179	68	104	400	56	66	59	34	1,310
29	36	41	203	143	82	141	334	57	53	46	35	1,460
30	36	35	205	135	------	254	289	112	51	39	36	1,660
31	35	------	740	121	------	246	------	87	------	40	35	------
TOTAL	1,144	925	13,485	7,465	2,235	4,693	29,652	4,482	3,449	4,142	1,310	8,163
MEAN	36.9	30.8	435	241	79.1	151	988	145	115	134	42.3	272
MAX	56	42	1,830	595	118	610	4,230	287	460	464	75	1,660
MIN	25	23	25	121	61	44	172	56	47	39	28	24
CFSM	.15	.13	1.80	1.00	.33	.62	4.08	.60	.48	.55	.17	1.12
IN.	.19	.14	2.07	1.15	.35	.72	4.56	.69	.53	.64	.20	1.26

CAL YR 1971 TOTAL 63,885 MEAN 175 MAX 2,320 MIN 23 CFSM .72 IN 9.82
WTR YR 1972 TOTAL 81,210 MEAN 222 MAX 4,230 MIN 23 CFSM .92 IN 12.48

PEAK DISCHARGE (BASE, 2,100 CFS).—Apr. 20 (2200) 4,970 cfs (8.79 ft).

03334000 Wildcat Creek at Owasco, Ind.

LOCATION.—Lat 40°27'50", long 86°38'15", in SE 1/4 SE 1/4 sec.4, T.23 N., R.2 W., Carroll County, on left bank 500 ft downstream from bridge on State Highway 39, 0.5 mile northwest of Owasco, and 15 miles upstream from South Fork Wildcat Creek.

DRAINAGE AREA.—396 sq mi.

PERIOD OF RECORD.—October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 624.63 ft above mean sea level. Prior to Oct. 1, 1950, nonrecording gage at site 500 ft upstream at same datum.

AVERAGE DISCHARGE.—29 years, 333 cfs (11.93 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,960 cfs Apr. 22 (gage height, 9.93 ft); minimum daily, 44 cfs Sept. 6.
Period of record: Maximum discharge, 10,200 cfs Jan. 5, 1950 (gage height, 13.3 ft), from rating curve extended above 6,700 cfs; minimum daily, 11 cfs Sept. 25, 1944.
Flood of May 18, 1943, reached a stage of 14.0 ft, from floodmarks.

REMARKS.—Records good. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2 (combined capacity, 4,170 acre-ft).

REVISIONS (WATER YEARS).—WSP 1625: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	76	86	1,010	190	165	301	492	181	97	68	54
2	102	73	79	829	200	217	259	431	183	86	71	53
3	91	89	73	655	200	589	232	365	160	127	89	55
4	82	79	70	559	160	661	277	329	137	317	118	56
5	89	73	65	475	120	430	321	283	119	547	83	49
6	82	71	70	400	130	321	337	252	123	341	83	44
7	73	70	214	400	140	277	829	235	142	235	82	50
8	78	61	871	325	125	238	1,780	239	117	185	79	68
9	80	62	883	293	115	214	1,800	286	109	148	71	113
10	97	78	967	329	105	190	1,450	273	111	127	70	67
11	82	86	1,070	457	105	176	1,180	222	109	115	66	53
12	70	75	937	487	110	169	949	212	94	109	88	52
13	72	70	757	440	120	167	769	207	128	97	76	85
14	71	66	721	375	135	188	643	249	208	96	67	245
15	71	61	1,850	195	158	167	523	492	723	116	67	319
16	66	56	2,290	180	178	173	577	460	874	269	83	141
17	65	58	2,170	200	169	167	937	354	588	223	64	103
18	57	60	1,530	260	160	124	1,020	292	383	162	65	85
19	53	62	1,080	300	140	115	865	249	270	144	65	123
20	60	71	847	310	120	104	1,950	222	227	333	58	103
21	65	70	697	305	125	106	4,150	194	199	523	53	80
22	97	59	571	297	134	125	5,830	180	171	313	49	69
23	148	56	511	321	138	152	4,600	175	152	217	57	78
24	125	64	463	415	140	134	3,070	164	138	160	78	159
25	116	66	425	405	144	124	1,960	153	125	154	100	197
26	107	62	410	333	138	122	1,390	147	115	129	72	350
27	111	55	390	337	138	134	1,060	142	106	107	68	1,170
28	100	59	370	289	133	167	836	123	104	102	57	1,550
29	91	62	337	235	138	165	682	114	113	91	51	1,620
30	85	60	463	210	-----	217	589	277	106	86	56	1,960
31	82	------	787	180	-----	313	------	242	------	72	58	------
TOTAL	2,681	2,010	22,054	11,806	4,108	6,611	41,166	8,055	6,315	5,828	2,212	9,151
MEAN	86.5	67.0	711	381	142	213	1,372	260	211	188	71.4	305
MAX	148	89	2,290	1,010	200	661	5,830	492	874	547	118	1,960
MIN	53	55	65	180	105	104	232	114	94	72	49	44
CFSM	.22	.17	1.80	.96	.36	.54	3.46	.66	.53	.47	.18	.77
IN.	.25	.19	2.07	1.11	.39	.62	3.87	.76	.59	.55	.21	.86

CAL YR 1971 TOTAL 104,900 MEAN 287 MAX 3,680 MIN 39 CFSM .72 IN 9.85
WTR YR 1972 TOTAL 121,997 MEAN 333 MAX 5,830 MIN 44 CFSM .84 IN 11.46

PEAK DISCHARGE (BASE, 3,000 CFS).—Apr. 22 (0700) 5,960 cfs (9.93 ft).

03334500 South Fork Wildcat Creek near Lafayette, Ind.

LOCATION.—Lat 40°25'04", long 86°46'05", in SW 1/4 SW 1/4 sec.21, T.23 N., R.3 W., Tippecanoe County, on right bank 40 ft upstream from bridge on State Highway 26, 0.5 mile upstream from Middle Fork, 4.2 miles upstream from mouth, and 5 miles east of Lafayette.

DRAINAGE AREA.—243 sq mi.

PERIOD OF RECORD.—October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 566.60 ft above mean sea level (State Highway Department of Indiana bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft downstream at same datum.

AVERAGE DISCHARGE.—29 years, 229 cfs (12.80 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,780 cfs Apr. 22 (gage height, 9.73 ft); minimum daily, 35 cfs Sept. 1, 6, 7.
Period of record: Maximum discharge, 12,600 cfs June 10, 1958 (gage height, 15.28 ft), from rating curve extended above 6,000 cfs on basis of contracted-opening measurement at 16.8 ft; minimum daily, 15 cfs Sept. 19, 22, 1944, Aug. 30, 31, Sept. 1, 14, 15, 1969.
Flood in May 1943 reached a stage of 16.8 ft from floodmarks (discharge, 17,900 cfs, by contracted-opening measurement).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1948(M). WSP 1505: 1947. WSP 1725: 1951-53(M), 1955(M). WSP 1909: 1955(P). WSP 2109: Drainage area.

CORRECTION.—Datum published in error prior to Oct. 1, 1969, Peak gage heights for May 1943 and June 10, 1958, published in error in WRD Ind. 1970 and 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	66	50	425	147	120	140	309	106	102	59	35
2	71	63	47	344	124	140	133	286	96	91	59	36
3	66	61	46	300	122	186	128	251	91	324	66	40
4	66	59	45	268	90	166	229	221	87	586	67	46
5	66	56	45	237	74	143	242	200	83	382	56	38
6	67	54	59	197	78	117	241	184	437	249	56	35
7	59	50	290	185	82	125	1,130	175	306	203	63	35
8	52	48	711	170	76	121	1,180	173	192	166	58	37
9	57	50	503	186	72	103	904	201	160	139	54	78
10	61	51	500	207	70	98	756	189	178	121	50	54
11	54	51	651	222	70	94	616	174	141	106	49	47
12	51	50	470	207	74	97	509	156	122	98	97	51
13	52	48	344	208	84	100	458	157	267	90	98	65
14	52	48	428	160	98	106	386	165	449	85	69	378
15	51	47	2,030	90	137	99	335	192	861	169	60	545
16	48	45	1,740	110	138	99	662	189	918	524	57	255
17	47	43	1,000	120	118	101	819	166	517	271	51	154
18	46	42	641	140	125	99	602	150	340	180	48	128
19	45	46	444	160	118	93	551	138	263	155	45	141
20	43	47	371	170	98	88	2,620	130	218	132	42	97
21	45	45	313	173	106	88	2,370	126	196	121	41	81
22	88	42	275	178	103	99	3,090	120	162	104	39	71
23	142	41	256	196	98	105	2,000	115	142	91	44	76
24	135	41	253	206	97	99	1,240	110	130	90	56	164
25	129	41	239	195	98	94	837	106	121	97	54	188
26	108	41	234	146	95	92	617	99	112	83	44	477
27	97	40	222	194	92	97	495	96	106	78	41	1,610
28	86	42	207	180	93	103	417	92	101	75	40	1,020
29	80	45	190	120	102	105	355	91	122	70	38	1,700
30	73	47	310	110	------	151	341	122	115	65	37	1,830
31	66	------	560	125	------	144	------	120	------	61	36	------
TOTAL	2,177	1,448	13,494	5,932	2,879	3,490	24,438	5,003	7,139	5,133	1,672	9,562
MEAN	70.2	48.3	435	191	99.3	113	815	161	238	166	53.9	319
MAX	142	66	2,030	425	147	186	3,090	309	918	586	98	1,830
MIN	43	40	45	90	70	88	128	91	83	61	36	35
CFSM	.29	.20	1.79	.79	.41	.47	3.35	.66	.98	.68	.22	1.31
IN.	.33	.22	2.07	.91	.44	.53	3.74	.77	1.09	.79	.26	1.46

CAL YR 1971 TOTAL 78,526 MEAN 215 MAX 3,540 MIN 31 CFSM .88 IN 12.02
WTR YR 1972 TOTAL 82,367 MEAN 225 MAX 3,090 MIN 35 CFSM .93 IN 12.61

PEAK DISCHARGE (BASE, 3,000 CFS).—Apr. 20 (1000) 3,200 cfs (9.00 ft). Apr. 22 (0700) 3,780 cfs (9.73 ft).

03335000 Wildcat Creek near Lafayette, Ind.

LOCATION.—Lat 40°26'26", long 86°49'46", in SE 1/4 NE 1/4 sec.14, T.23 N., R.4 W., Tippecanoe County, on downstream side of bridge on County Road 2A East, 2.5 miles upstream from mouth, 3 miles downstream from South Fork Wildcat Creek, and 3.7 miles northeast of Court House in Lafayette.

DRAINAGE AREA.—794 sq mi.

PERIOD OF RECORD.—May 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 527.66 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark). Prior to June 13, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—18 years, 699 cfs (11.95 inches per year).

EXTREMES.—Current year: Maximum discharge, 11,500 cfs Apr. 22 (gage height, 14.55 ft); minimum daily, 104 cfs Sept. 7.
Period of record: Maximum discharge, 25,000 cfs June 10, 1958 (gage height, 21.52 ft), from rating curve extended above 18,000 cfs; minimum daily, 46 cfs Sept. 28, 29, 1954.

REMARKS.—Records good. Some regulation during low flow for municipal water supply for Kokomo.

REVISIONS (WATER YEARS).—WSP 1555: 1955, 1957(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	163	148	1,660	410	329	579	1,240	448	250	153	117
2	204	161	154	1,390	420	437	512	1,120	401	228	150	115
3	187	158	147	1,160	430	696	480	998	372	413	164	121
4	174	165	141	1,030	340	886	644	895	333	961	225	127
5	171	151	137	899	260	684	806	800	299	987	176	118
6	171	146	160	749	270	539	756	724	772	779	167	107
7	156	139	605	789	300	504	2,650	672	674	578	167	104
8	156	134	1,850	710	270	461	3,630	662	464	465	171	182
9	168	134	1,530	637	240	399	3,380	720	391	378	153	236
10	177	139	1,710	680	230	358	2,650	747	418	325	144	175
11	177	155	2,100	804	230	335	2,070	649	368	287	141	137
12	156	152	1,600	846	240	328	1,630	596	320	261	236	136
13	150	142	1,270	807	270	331	1,480	588	500	241	250	171
14	150	138	1,460	696	300	360	1,280	649	930	221	203	723
15	151	133	5,300	430	340	329	1,160	805	2,010	278	167	1,180
16	149	127	5,460	400	396	335	1,600	942	2,500	947	178	591
17	142	121	4,180	450	363	343	2,100	774	1,500	738	163	363
18	137	124	2,840	540	340	293	2,200	660	1,030	469	146	293
19	126	136	1,970	661	300	254	2,000	586	766	453	145	294
20	120	134	1,540	658	260	233	5,000	534	618	377	138	297
21	130	142	1,290	634	270	236	7,800	493	527	719	129	220
22	194	129	1,100	645	275	258	10,500	458	438	552	118	188
23	317	119	999	667	276	314	8,910	434	369	427	127	206
24	309	121	947	747	274	294	6,700	415	332	343	173	343
25	303	126	876	753	276	265	4,490	388	303	306	186	489
26	258	128	848	597	269	261	3,070	361	275	290	162	835
27	236	126	803	598	265	276	2,310	347	251	239	140	3,040
28	218	118	760	568	260	316	1,850	322	242	217	132	3,040
29	197	137	694	527	276	337	1,540	299	332	202	119	4,140
30	183	135	1,040	450	------	450	1,390	496	325	182	114	4,410
31	172	------	1,620	400	------	533	------	599	------	168	118	------
TOTAL	5,754	4,133	45,279	22,582	8,650	11,974	85,167	19,973	18,508	13,281	4,955	22,498
MEAN	186	138	1,461	728	298	386	2,839	644	617	428	160	750
MAX	317	165	5,460	1,660	430	886	10,500	1,240	2,500	987	250	4,410
MIN	120	118	137	400	230	233	480	299	242	168	114	104
CFSM	.23	.17	1.84	.92	.38	.49	3.58	.81	.78	.54	.20	.94
IN.	.27	.19	2.12	1.06	.41	.56	3.99	.94	.87	.62	.23	1.05

CAL YR 1971 TOTAL 229,306 MEAN 628 MAX 6,120 MIN 118 CFSM .79 IN 10.74
WTR YR 1972 TOTAL 262,754 MEAN 718 MAX 10,500 MIN 104 CFSM .90 IN 12.31

PEAK DISCHARGE (BASE, 6,300 CFS).—Dec. 15 (2115) 6,470 cfs (10.32 ft). Apr. 22 (1300) 11,500 cfs (14.55 ft).

03335000 Wildcat Creek near Lafayette, Ind.--Continued

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.
Water temperatures: December 1970 to September 1972.
Sediment records: July 1968 to September 1972 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 22; minimum, freezing point many days in January, February, and March.

Period of record:
Specific conductance: Maximum, 901 micromhos Mar. 21, 23, 1971; minimum, 216 micromhos June 12, 1971.
Water temperatures: Maximum, 31.0°C July 22, 1972; minimum, freezing point on many days most winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	600	580	691	659	689	667
2	---	---	---	---	---	---	612	598	676	655	683	659
3	---	---	---	---	---	---	614	604	657	622	711	665
4	---	---	---	---	---	---	608	598	669	620	701	634
5	---	---	---	---	---	---	622	606	684	644	628	619
6	---	---	---	---	---	---	638	600	679	630	638	617
7	---	---	---	---	---	---	652	572	691	621	661	638
8	---	---	---	---	---	---	675	642	715	679	661	646
9	---	---	---	---	---	---	697	684	709	617	677	649
10	---	---	---	---	635	---	729	702	696	617	674	668
11	---	---	---	---	508	---	703	690	707	694	684	674
12	---	---	---	---	530	---	703	686	704	691	694	677
13	---	---	---	---	541	---	699	684	709	694	705	661
14	---	---	---	---	538	---	688	670	707	694	705	684
15	---	---	---	---	---	---	686	652	699	643	691	661
16	---	---	---	---	447	---	686	652	701	672	684	661
17	---	---	---	---	574	---	686	657	684	648	694	671
18	---	---	---	---	578	---	679	655	654	646	684	658
19	---	---	---	---	541	---	657	614	661	600	661	640
20	---	---	---	---	580	---	627	616	674	631	665	637
21	---	---	---	---	612	---	637	573	689	640	652	619
22	---	---	---	---	620	---	612	589	689	666	655	634
23	---	---	---	---	629	---	618	589	675	664	665	646
24	---	---	---	---	635	625	633	590	677	668	658	649
25	---	---	---	---	642	625	625	600	689	670	681	655
26	---	---	---	---	642	629	622	600	696	658	691	634
27	---	---	---	---	635	629	694	644	701	678	687	658
28	---	---	---	---	629	608	662	618	719	696	694	671
29	---	---	---	---	633	616	679	644	714	656	712	643
30	---	---	---	---	631	574	686	671	---	---	665	625
31	---	---	---	---	590	574	699	674	---	---	668	631
MONTH	---	---	---	---	---	---	729	572	719	600	712	617

03335000 Wildcat Creek near Lafayette, Ind.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	661	619	---	---	---	---	579	---	---	---	596	547
2	643	608	603	---	---	---	---	---	---	---	579	563
3	643	617	---	---	---	---	---	---	---	---	586	584
4	625	597	614	---	---	---	---	---	---	---	594	573
5	611	592	643	---	---	---	---	---	---	---	631	612
6	640	584	622	---	---	---	---	---	---	---	639	593
7	529	347	625	---	---	---	---	---	---	---	621	576
8	500	401	631	---	---	---	---	---	---	---	603	564
9	554	498	625	---	---	---	---	---	---	---	613	556
10	547	502	631	---	---	---	---	---	---	---	613	598
11	581	540	625	---	---	---	---	---	---	---	622	577
12	608	579	600	---	---	---	---	---	---	---	614	572
13	631	597	614	---	---	---	---	---	---	---	617	602
14	643	622	---	---	---	---	---	---	---	---	622	385
15	649	634	594	---	---	---	---	---	---	---	462	379
16	643	442	---	---	---	---	---	---	---	---	545	456
17	549	449	---	---	---	---	---	---	---	---	556	531
18	622	547	---	---	---	---	---	---	---	---	564	532
19	631	532	---	---	---	---	---	---	---	---	571	529
20	475	290	---	---	---	---	---	---	---	---	669	589
21	351	263	---	---	---	---	---	---	---	---	710	684
22	345	271	---	---	---	---	---	---	---	---	716	703
23	369	295	---	---	---	---	---	---	---	---	716	672
24	426	368	---	---	---	---	---	---	---	---	696	676
25	456	407	---	---	---	---	---	---	---	---	745	689
26	434	---	---	---	---	---	---	---	---	---	811	626
27	532	---	---	---	625	---	---	---	---	---	552	480
28	547	---	---	---	---	---	---	---	---	---	615	549
29	559	---	---	---	---	---	---	---	647	640	621	322
30	579	---	---	---	---	---	---	---	648	629	399	342
31	---	---	---	---	---	---	---	---	636	592	---	---
MONTH	661	263	---	---	---	---	---	---	---	---	811	322

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	4.5	3.5	0.0	0.0	9.5	7.5
2	---	---	---	---	2.5	1.5	4.5	3.5	0.5	0.0	9.0	4.5
3	---	---	---	---	2.5	1.0	5.0	3.5	0.0	0.0	5.5	3.0
4	---	---	---	---	3.0	1.5	4.5	2.0	0.0	0.0	5.0	2.0
5	---	---	---	---	4.5	3.0	2.0	0.0	0.0	0.0	2.5	0.5
6	---	---	---	---	5.5	4.5	0.0	0.0	0.0	0.0	2.0	0.0
7	---	---	---	---	6.0	5.5	0.0	0.0	0.0	0.0	5.0	2.0
8	---	---	---	---	7.0	6.0	1.0	0.0	0.0	0.0	4.0	1.5
9	---	---	---	---	7.5	7.0	3.0	1.5	0.0	0.0	4.0	1.0
10	---	---	---	---	10.0	7.5	4.5	2.5	0.0	0.0	4.5	1.0
11	---	---	---	---	9.5	7.5	4.0	3.0	0.0	0.0	8.0	2.5
12	---	---	---	---	7.5	6.5	4.5	2.5	0.0	0.0	10.0	8.0
13	---	---	---	---	6.5	5.5	4.5	1.5	0.0	0.0	9.5	7.0
14	---	---	---	---	7.0	5.5	1.0	0.0	0.5	0.0	7.0	6.0
15	---	---	---	---	9.5	7.0	0.0	0.0	1.0	0.0	6.0	4.5
16	---	---	---	---	9.0	7.5	0.0	0.0	1.5	0.0	7.0	6.0
17	---	---	---	---	7.0	5.0	0.0	0.0	2.0	0.0	7.0	6.0
18	---	---	---	---	4.5	2.5	0.0	0.0	1.0	0.0	8.5	5.5
19	---	---	---	---	3.0	2.5	0.0	0.0	0.5	0.0	9.0	5.5
20	---	---	---	---	4.5	3.0	0.5	0.0	1.0	0.0	11.5	7.5
21	---	---	---	---	4.5	4.0	0.5	0.0	2.0	0.0	12.0	10.0
22	---	---	---	---	4.0	3.0	2.0	1.0	2.0	0.0	11.5	7.0
23	---	---	---	---	4.5	3.0	3.0	1.0	0.5	0.0	6.5	5.0
24	---	---	---	---	5.5	4.5	5.0	3.0	1.5	0.5	7.5	4.5
25	---	---	---	---	6.0	4.5	3.5	0.0	2.5	0.5	9.5	5.5
26	---	---	---	---	7.0	6.0	0.0	0.0	4.0	1.5	8.5	6.0
27	---	---	---	---	8.5	7.0	0.0	0.0	4.5	1.5	7.5	7.0
28	---	---	---	---	7.5	4.0	0.0	0.0	6.0	3.0	10.0	7.0
29	---	---	---	---	4.0	3.5	0.0	0.0	8.0	4.5	9.0	6.0
30	---	---	---	---	6.0	4.0	0.0	0.0	---	---	9.0	5.0
31	---	---	---	---	5.0	4.5	0.0	0.0	---	---	9.5	6.0
MONTH	---	---	---	---	10.0	1.0	5.0	0.0	8.0	0.0	12.0	0.0

03335000 Wildcat Creek near Lafayette, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	16.0	14.5	18.0	13.5	25.5	20.5	24.5	22.0	24.0	---
2	7.5	6.5	17.5	15.0	19.5	14.0	24.0	21.5	24.5	21.5	22.5	---
3	7.0	5.5	16.0	14.5	21.0	18.0	24.5	20.5	23.5	21.5	19.5	---
4	9.0	5.5	17.5	14.0	24.0	19.0	22.0	19.5	23.5	20.0	20.5	---
5	10.5	6.5	18.5	15.0	21.5	20.0	20.5	18.0	25.0	20.0	20.5	---
6	13.5	9.5	19.5	16.0	20.0	18.5	21.0	18.0	25.0	20.5	20.5	16.5
7	12.0	5.0	18.5	16.5	21.5	18.0	20.5	18.5	23.5	20.5	21.0	---
8	6.0	4.0	16.0	14.0	20.0	18.5	22.0	19.0	20.5	18.5	22.0	18.0
9	8.0	5.0	17.0	13.0	18.5	17.0	23.0	21.0	22.0	18.0	21.0	19.0
10	10.0	7.0	17.5	13.5	19.0	15.0	25.0	21.5	22.0	17.5	20.0	17.0
11	11.5	9.5	18.5	14.0	19.5	15.0	27.5	22.0	20.0	18.5	21.0	---
12	12.5	11.0	19.0	15.0	19.5	16.5	28.5	24.0	23.5	19.0	23.5	---
13	16.5	12.5	18.0	16.5	20.0	18.5	28.0	24.5	25.0	21.0	25.0	21.5
14	15.0	14.0	18.0	16.5	22.5	19.0	28.5	25.0	24.0	22.5	23.5	20.5
15	15.0	14.0	18.0	16.0	21.5	20.0	27.0	24.5	23.5	22.5	21.0	19.0
16	14.5	13.0	19.0	16.5	21.0	19.5	25.5	22.0	25.0	20.5	21.5	19.5
17	14.5	11.5	19.5	15.5	20.0	18.0	26.5	23.0	27.0	22.5	24.0	21.0
18	16.0	13.0	20.5	17.0	20.5	18.0	28.0	24.5	28.5	24.5	24.0	22.0
19	16.0	14.5	21.5	18.0	22.0	18.5	27.5	25.0	27.0	24.5	22.5	21.5
20	15.0	13.0	22.0	18.5	24.5	20.0	29.5	25.0	27.0	24.0	23.0	20.0
21	12.5	10.5	22.5	18.5	22.0	19.0	30.0	27.0	28.0	24.0	21.0	18.5
22	12.0	10.5	24.0	19.5	19.5	17.0	31.0	28.0	26.5	---	19.5	17.0
23	12.5	11.0	24.0	20.0	17.0	15.5	30.5	27.5	---	---	18.0	16.5
24	12.0	10.5	24.0	20.0	17.0	15.5	29.0	25.5	---	---	18.5	17.5
25	12.0	9.5	24.5	19.5	19.5	15.0	28.5	24.0	---	---	19.5	18.5
26	13.5	10.0	24.5	20.0	20.5	17.0	25.5	22.5	---	---	20.5	19.5
27	14.0	11.5	24.5	20.0	22.5	18.0	22.5	21.5	---	---	20.0	18.5
28	14.0	12.5	24.0	20.0	21.0	19.5	25.0	21.0	---	---	19.0	18.5
29	14.0	12.5	21.0	19.5	20.0	19.0	25.5	21.0	26.0	---	18.5	17.0
30	15.5	12.5	20.0	17.0	22.5	18.0	26.0	21.0	25.5	---	17.0	15.0
31	---	---	17.0	14.5	---	---	25.5	21.0	24.5	---	---	---
MONTH	16.5	4.0	24.5	13.0	24.5	13.5	31.0	18.0	28.5	---	25.0	---
YEAR	31.0	0.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

03333000 Wildcat Creek near Lafayette, Ind.--Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT.								
14...	1300	15.0	154	24	10	--	--	--
DEC.								
01...	1230	2.0	147	18	7.1	--	--	--
JAN.								
10...	1120	3.0	700	67	127	--	--	--
MAR.								
07...	1300	4.5	515	50	70	--	--	--
APR.								
12...	1250	12.0	1630	110	484	--	--	--
21...	1215	--	6A90	1050	19500	34	45	52
MAY								
17...	1100	17.0	757	61	125	--	--	--
JULY								
12...	1435	25.5	269	37	27	--	--	--
AUG.								
08...	1300	19.0	179	60	29	--	--	--
SEP.								
12...	1310	22.0	149	68	27	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.							
14...	--	--	--	--	--	--	--
DEC.							
01...	--	--	--	--	--	--	--
JAN.							
10...	--	--	--	--	--	--	--
MAR.							
07...	--	--	--	--	--	--	--
APR.							
12...	--	--	--	--	--	--	--
21...	62	69	76	81	86	98	100
MAY							
17...	--	--	--	--	--	--	--
JULY							
12...	--	--	--	--	--	--	--
AUG.							
08...	--	--	--	--	--	--	--
SEP.							
12...	--	--	--	--	--	--	--

03335500 Wabash River at Lafayette, Ind.

LOCATION.—Lat 40°25'19", long 86°53'49", in NE 1/4 SW 1/4 sec.20, T.23 N., R.4 W., Tippecanoe County, on right bank 20 ft downstream from Brown Street bridge in Lafayette, 5.1 miles downstream from Wildcat Creek, and at mile 311.9.

DRAINAGE AREA.—7,267 sq mi.

PERIOD OF RECORD.—February 1901 to January 1902, March to December 1902, January to May 1903 (gage heights only), October 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at present site since October 1913 are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 504.14 ft above mean sea level. Prior to May 2, 1903, nonrecording gage 0.5 mile upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—49 years (1923 to current year), 6,242 cfs (11.50 inches per year).

EXTREMES.—Current year: Maximum discharge, 39,400 cfs Apr. 23 (gage height, 18.07 ft); minimum daily, 1,150 cfs Sept. 6.
Period of record: Maximum discharge, 131,000 cfs May 19, 1943 (gage height, 28.47 ft); minimum daily, 399 cfs Sept. 26, 1941. Flood of Mar. 26, 1913, reached a stage of 32.9 ft, from floodmark determined by U.S. Weather Bureau (discharge, 190,000 cfs).

REMARKS.—Records excellent. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).—WSP 1335: 1929, 1932-33, 1936. WSP 1505: 1950. WSP 1555: 1928(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,440	2,620	2,390	15,400	2,800	3,240	11,100	18,100	4,530	2,790	1,740	1,410
2	3,670	2,930	2,660	15,200	3,000	3,920	8,480	17,500	5,330	2,090	1,540	1,740
3	3,070	2,470	2,040	15,100	3,500	6,270	7,010	16,000	4,910	2,610	1,670	1,220
4	3,100	2,370	2,230	13,400	3,500	9,820	6,490	11,700	3,850	3,140	1,720	1,580
5	2,590	2,490	1,770	11,400	3,000	10,700	6,890	10,100	3,900	4,140	1,620	1,160
6	2,520	2,240	1,940	9,400	2,600	13,000	7,110	9,550	4,690	5,400	2,020	1,150
7	2,960	2,260	2,620	8,000	2,500	10,700	12,500	9,390	4,320	4,900	2,350	1,680
8	2,330	2,110	6,770	6,460	2,500	7,320	26,000	9,160	3,420	3,690	2,530	2,630
9	2,430	2,280	11,500	5,880	2,600	5,270	25,000	11,000	3,340	3,020	2,260	2,720
10	2,510	2,510	12,400	5,930	2,700	4,090	22,400	14,100	3,370	2,660	2,040	2,330
11	2,480	2,190	16,700	6,860	2,800	3,460	20,600	12,800	2,780	2,450	2,200	2,020
12	2,660	2,170	17,000	9,150	2,900	3,500	18,200	11,400	2,980	2,110	2,880	1,890
13	2,500	2,420	13,600	8,810	3,000	3,440	19,400	10,600	3,420	1,940	2,950	2,310
14	2,540	2,170	11,500	6,900	3,370	4,470	23,000	10,600	4,920	1,860	2,700	7,410
15	2,290	2,170	20,400	6,000	3,570	9,090	18,300	12,900	7,750	2,080	2,380	14,900
16	2,380	2,290	29,600	4,000	3,370	10,400	17,000	14,000	14,100	2,910	2,250	14,000
17	2,390	2,220	27,000	2,900	3,690	10,100	22,100	14,700	12,800	3,570	2,690	10,600
18	2,210	2,140	21,400	2,700	4,120	9,330	23,600	14,200	7,860	4,790	2,290	8,560
19	2,150	2,320	19,100	3,100	4,150	7,310	20,700	13,400	6,020	6,590	2,080	9,570
20	2,230	2,200	16,500	4,500	3,580	5,980	26,500	11,300	4,860	6,540	1,610	11,300
21	2,000	2,170	15,500	7,000	3,490	5,190	35,500	10,900	4,120	8,490	1,700	9,710
22	2,540	2,340	14,600	6,410	3,150	5,120	37,700	9,710	3,720	7,570	1,720	8,110
23	2,840	2,170	13,100	7,070	3,050	4,920	38,500	8,370	3,320	5,970	1,850	6,730
24	3,150	2,120	12,700	8,100	3,030	5,510	32,000	6,380	3,180	3,900	1,930	7,760
25	4,450	2,280	10,200	8,890	3,120	5,090	25,400	5,270	2,870	2,900	2,530	11,000
26	4,630	2,120	6,800	8,000	2,860	4,710	22,700	4,690	2,740	2,770	3,170	14,400
27	4,660	2,270	6,350	6,400	2,970	4,460	21,600	4,360	2,690	2,250	2,780	19,600
28	3,450	2,330	6,230	6,000	2,980	4,830	20,300	3,990	2,630	2,260	2,370	20,000
29	3,430	2,300	5,600	5,000	3,110	5,660	19,700	3,830	2,560	2,250	2,240	20,600
30	2,850	2,530	6,340	4,000	------	7,530	18,600	3,860	2,740	2,100	1,830	25,100
31	3,020	------	10,700	3,100	------	11,600	------	4,130	------	1,870	1,740	------
TOTAL	90,470	69,200	347,240	231,060	91,010	206,030	614,380	317,990	139,720	111,610	67,380	243,190
MEAN	2,918	2,307	11,200	7,454	3,138	6,646	20,480	10,260	4,657	3,600	2,174	8,106
MAX	4,660	2,930	29,600	15,400	4,150	13,000	38,500	18,100	14,100	8,490	3,170	25,100
MIN	2,000	2,110	1,770	2,700	2,500	3,240	6,490	3,830	2,560	1,860	1,540	1,150
CFSM	.40	.32	1.54	1.03	.43	.91	2.82	1.41	.64	.50	.30	1.12
IN.	.46	.35	1.78	1.18	.47	1.05	3.15	1.63	.72	.57	.34	1.24

CAL YR 1971 TOTAL 1,962,869 MEAN 5,378 MAX 30,000 MIN 889 CFSM .74 IN 10.05
WTR YR 1972 TOTAL 2,529,280 MEAN 6,911 MAX 38,500 MIN 1,150 CFSM .95 IN 12.95

03335500 Wabash River at Lafayette, Ind.—Continued

PERIOD OF RECORD.—Water temperatures: July 1954 to September 1964, August 1967 to September 1972.
Sediment record: Feb. 1965 to June 1968 (partial record).

EXTREMES.—1971-72:
Water temperatures: Maximum, 29.5°C Aug. 21, 22; minimum, freezing point in January and February.

Period of record:
Water temperatures: Maximum, 32.0°C July 30, 31, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.—Regulation by reservoirs and powerplants above station.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	20.5	17.0	15.5	4.5	4.0	5.0	4.0	0.5	0.0	8.0	5.5
2	22.0	21.0	16.5	16.0	4.5	4.0	5.0	4.5	0.5	0.0	8.0	6.0
3	22.0	21.0	16.5	14.5	4.0	4.0	5.5	5.0	0.0	0.0	6.0	4.5
4	22.0	20.5	14.5	13.0	4.5	4.0	5.5	5.0	0.0	0.0	5.0	4.0
5	21.0	19.5	13.0	11.5	5.0	4.5	5.0	3.5	0.0	0.0	4.0	2.5
6	20.5	19.5	12.5	12.0	6.0	5.0	3.5	2.5	0.0	0.0	2.5	2.0
7	19.5	18.5	12.0	9.5	6.0	6.0	3.0	2.0	0.0	0.0	3.0	2.5
8	19.0	17.0	9.5	8.0	6.5	6.0	3.0	2.5	0.0	0.0	3.0	2.5
9	17.5	16.5	8.0	7.5	6.5	6.5	4.0	3.0	0.0	0.0	2.5	1.5
10	17.0	15.5	9.0	8.0	7.5	6.5	4.0	3.0	0.0	0.0	2.0	1.0
11	16.5	15.0	9.0	8.0	8.0	7.0	4.0	3.5	0.5	0.0	4.0	1.0
12	16.0	15.0	9.5	9.0	7.0	6.0	3.5	3.0	1.0	0.5	6.0	4.0
13	16.0	15.5	10.0	9.5	6.0	5.0	3.5	3.0	1.0	0.5	6.0	5.0
14	15.5	15.0	11.5	10.0	6.0	5.5	3.0	1.5	1.0	0.5	5.0	3.5
15	16.5	14.5	13.0	11.5	8.0	5.5	1.5	1.0	1.0	0.5	3.5	3.0
16	18.0	16.0	13.5	13.0	8.0	7.5	1.0	0.5	1.5	1.0	3.5	3.0
17	18.5	17.5	14.0	13.0	7.5	6.5	0.5	0.0	2.0	1.5	4.0	3.5
18	18.5	18.0	14.0	13.5	6.5	5.0	1.0	0.5	2.5	1.5	5.0	4.0
19	19.5	18.0	14.0	11.5	5.0	5.0	1.0	0.5	1.5	1.0	5.5	4.0
20	19.5	18.5	11.5	9.0	6.0	5.0	1.0	0.5	1.0	0.5	7.0	5.0
21	19.5	19.0	9.0	7.5	6.0	6.0	1.5	1.0	1.5	0.5	8.0	7.0
22	19.5	19.0	7.5	6.0	6.0	5.5	2.5	1.5	2.0	1.0	7.5	5.5
23	19.5	19.0	6.5	5.5	5.5	5.0	3.0	1.5	2.0	1.0	5.5	4.5
24	19.0	19.0	5.5	5.0	5.5	5.5	3.0	2.5	1.5	1.0	6.5	5.0
25	19.0	18.5	5.5	5.0	5.5	5.0	3.0	2.0	2.5	1.5	6.5	5.0
26	18.5	17.5	5.0	5.0	6.0	5.5	2.0	1.0	3.5	2.0	6.0	5.5
27	18.0	17.5	5.5	5.0	6.5	5.5	1.0	1.0	3.5	3.0	6.5	5.5
28	18.0	17.0	5.5	5.0	6.5	5.0	1.0	0.5	4.5	3.5	6.5	5.0
29	17.5	16.5	5.0	5.0	5.0	4.5	1.0	0.5	5.5	4.5	5.5	4.5
30	18.0	17.0	5.0	4.5	5.5	4.5	0.5	0.5	---	---	5.0	4.5
31	18.0	17.0	---	---	5.5	5.0	0.5	0.0	---	---	5.5	5.0
MONTH	22.0	14.5	17.0	4.5	8.0	4.0	5.5	0.0	5.5	0.0	8.0	1.0

03335500 Wabash River at Lafayette, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.0	14.5	13.5	17.5	15.5	25.0	23.0	25.5	24.5	27.0	25.0
2	6.0	5.0	15.0	14.0	18.5	17.0	25.0	22.5	26.0	24.0	26.0	24.5
3	7.0	5.5	15.0	14.0	20.5	18.5	22.5	20.5	24.0	22.5	24.5	23.5
4	8.5	7.0	16.0	14.5	23.0	20.5	20.5	19.5	23.0	21.5	23.5	23.0
5	9.5	8.0	16.5	15.5	23.0	21.5	19.5	19.0	22.0	21.0	23.0	22.5
6	9.5	8.5	17.5	16.0	22.0	21.0	19.0	18.5	22.5	21.0	23.5	23.0
7	8.5	6.0	17.5	17.0	22.5	20.5	20.0	19.0	21.5	20.5	24.0	23.5
8	8.0	5.5	17.5	16.0	22.5	21.0	21.0	20.0	21.0	20.5	24.5	23.0
9	8.0	6.5	17.0	14.5	21.0	19.5	23.0	21.0	23.5	20.0	23.0	22.0
10	9.0	7.0	17.0	15.5	20.0	18.0	24.0	22.5	24.0	22.0	22.0	21.5
11	9.0	8.5	17.5	15.5	20.0	18.0	26.0	24.0	23.5	22.0	24.5	22.0
12	9.5	9.0	17.5	15.5	20.0	19.0	27.0	25.5	23.5	21.5	26.0	24.5
13	12.5	9.5	17.5	16.5	21.0	20.0	27.5	26.0	25.5	23.5	26.5	24.5
14	13.0	12.0	17.0	16.0	22.5	21.0	27.5	25.5	26.0	25.0	26.0	24.0
15	13.0	12.0	17.0	16.0	23.0	21.5	26.5	24.5	25.0	24.0	24.0	21.5
16	13.5	12.5	17.5	15.5	23.0	20.5	27.0	24.0	26.0	23.5	23.0	22.0
17	14.5	12.5	18.0	16.5	20.5	19.0	27.5	26.0	27.5	25.5	24.5	23.0
18	14.5	13.5	19.0	17.5	21.5	20.0	27.5	26.5	29.0	26.5	24.5	24.0
19	15.5	14.5	20.0	18.0	23.0	21.5	26.5	25.5	28.5	27.0	24.0	23.5
20	16.0	15.0	20.5	19.0	24.5	23.0	27.0	25.0	29.0	27.0	23.5	23.0
21	15.0	13.5	21.0	19.5	24.5	22.5	27.5	26.5	29.5	27.5	24.0	23.0
22	13.5	12.5	22.0	20.5	22.5	21.0	28.0	27.0	29.5	28.0	23.0	21.5
23	13.5	12.0	22.0	21.0	21.0	20.5	28.0	27.5	29.0	27.5	22.5	21.5
24	13.0	11.5	22.5	20.5	20.5	20.0	28.0	26.5	28.5	27.0	21.5	21.0
25	12.5	10.5	23.0	21.0	20.5	20.0	27.5	25.5	28.0	26.5	22.0	21.5
26	13.0	11.0	23.5	21.5	21.5	20.5	25.5	24.0	27.5	26.5	22.5	21.5
27	13.0	11.5	23.5	22.5	23.0	21.5	24.0	23.0	26.5	25.0	22.5	21.0
28	13.5	12.5	23.5	22.5	24.0	22.0	23.0	22.5	27.0	24.5	21.0	20.5
29	13.0	12.5	23.0	22.0	23.5	23.0	22.5	22.0	27.5	25.5	20.5	20.0
30	14.0	12.5	22.0	19.5	23.0	22.0	23.0	22.0	28.5	26.0	20.0	18.0
31	---	---	19.5	17.0	---	---	24.5	23.0	28.0	25.5	---	---
MONTH	16.0	5.0	23.5	13.5	24.5	15.5	28.0	18.5	29.5	20.0	27.0	18.0

03335690 Mud Pine Creek near Oxford, Ind.

LOCATION.—Lat 40°31'24", long 87°20'30", in NE 1/4 SE 1/4 sec.17, T.24 N., R.8 W., Benton County, on right bank 5 ft downstream from county road bridge, 0.3 mile north of Chase, 2 miles east of Boswell, and 5 miles west of Oxford.

DRAINAGE AREA.—39.4 sq mi.

PERIOD OF RECORD.—June 1971 to current year.

GAGE.—Water-stage recorder. Datum of gage is 718.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 379 cfs Apr. 22 (gage height, 6.44 ft); minimum daily, 0.40 cfs Nov. 7, 8, 22, 23.
Period of record: Maximum discharge, 1,140 cfs July 9, 1971 (gage height, 9.46 ft); minimum daily, 0.25 cfs Sept. 24, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.55	.97	59	14	18	23	45	10	8.8	2.2	.68
2	2.2	.97	.75	53	14	18	28	42	8.8	8.1	2.5	.90
3	1.8	1.2	.55	46	13	17	31	36	8.4	8.1	2.5	1.2
4	1.8	.55	.75	40	9.2	15	45	32	10	6.1	2.7	.90
5	1.2	.55	.97	27	7.8	13	40	29	7.7	5.7	1.8	.68
6	.97	.55	3.4	23	7.0	11	36	29	20	5.3	6.4	.58
7	.75	.40	9.6	25	7.4	15	204	27	12	5.3	4.1	1.4
8	.97	.40	6.9	28	8.0	14	132	30	10	4.5	2.5	18
9	2.6	.97	4.5	31	8.6	12	115	42	14	4.2	2.2	4.4
10	1.5	1.2	43	28	9.4	10	88	35	37	3.4	1.6	2.0
11	.97	.97	36	25	11	10	69	32	22	2.2	1.6	1.2
12	.75	.75	22	27	12	10	64	30	20	1.5	5.8	4.1
13	.75	.75	17	28	15	33	57	31	44	1.2	4.1	10
14	.97	.97	36	15	18	43	46	30	34	1.2	2.2	93
15	.97	.75	167	10	19	35	41	28	158	13	2.0	45
16	.75	.75	106	9.0	14	42	63	24	80	5.3	1.8	21
17	.75	.75	68	20	14	42	59	23	52	1.5	1.6	12
18	.75	.75	48	21	18	35	51	22	40	1.5	1.4	7.6
19	.75	1.5	41	23	10	31	55	21	34	23	1.2	6.1
20	.75	1.8	34	26	8.4	29	205	20	30	42	1.2	5.3
21	.75	.75	29	22	8.4	29	212	20	24	13	1.0	4.4
22	1.5	.40	26	29	9.0	26	262	19	20	7.9	1.2	3.8
23	1.2	.40	27	30	8.6	22	153	19	18	5.6	3.0	24
24	1.2	.75	26	15	8.5	19	108	18	16	14	2.5	28
25	1.2	.75	25	27	8.7	19	82	15	15	12	1.6	74
26	.97	.75	24	21	9.6	18	65	14	13	8.4	2.0	90
27	.97	1.2	23	18	11	21	55	14	12	5.3	1.8	55
28	.55	1.5	20	16	13	19	47	14	12	4.1	1.2	41
29	.55	1.5	20	14	15	23	43	15	12	3.3	1.0	184
30	.75	3.4	99	12	------	23	43	14	10	2.7	.78	141
31	.97	------	81	13	------	22	------	11	------	2.2	.78	------
TOTAL	34.36	28.48	1,046.39	781.0	329.6	694	2,522	781	803.9	228.4	68.26	887.24
MEAN	1.11	.95	33.8	25.2	11.4	22.4	84.1	25.2	26.8	7.37	2.20	29.6
MAX	2.6	3.4	167	59	19	43	262	45	158	42	6.4	186
MIN	.55	.40	.55	9.0	7.0	10	23	11	7.7	1.2	.78	.58
CFSM	.03	.02	.86	.64	.29	.57	2.13	.64	.68	.19	.06	.75
IN.	.03	.03	.99	.74	.31	.66	2.38	.74	.76	.22	.06	.84

WTR YR 1972 TOTAL 8,204.63 MEAN 22.4 MAX 262 MIN .40 CFSM .57 IN 7.75

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1400	5.24	186	04-22	0230	6.44	379
12-30	0345	5.05	159	06-15	0900	5.67	247
04-07	0830	6.10	318	09-14	1000	5.10	166
04-20	0415	5.99	298	09-29	1000	5.65	244

03335700 Big Pine Creek near Williamsport, Ind.

LOCATION.—Lat 40°19'03", long 87°17'26", in SW 1/4 SE 1/4 sec.26, T.22 N., R.8 W., Warren County, on downstream side of county road bridge, 1.6 miles north of city limits of Williamsport, and 2.5 miles upstream from mouth.

DRAINAGE AREA.—323 sq mi.

PERIOD OF RECORD.—October 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 511.68 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to May 19, 1967, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.—17 years, 240 cfs (10.09 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,710 cfs Apr. 21 (gage height, 8.34 ft); minimum daily, 13 cfs Nov. 8.
Period of record: Maximum discharge, 12,600 cfs Feb. 10, 1959 (gage height, 16.00 ft, from floodmark), from rating curve extended above 6,000 cfs on basis of contracted-opening measurement; minimum daily, 6.5 cfs Oct. 6-8, 1966.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14	21	505	92	86	174	397	98	74	45	22
2	18	18	19	397	96	106	185	356	93	67	54	23
3	18	16	18	338	90	91	220	322	84	67	50	26
4	18	16	18	293	60	89	343	283	81	62	53	24
5	18	15	18	227	58	73	352	248	73	55	45	23
6	18	14	22	180	54	59	311	229	98	52	58	21
7	17	14	38	165	56	81	1,040	218	253	50	180	49
8	17	13	44	150	58	71	1,340	222	154	49	90	333
9	19	16	41	188	60	54	1,180	312	142	48	40	256
10	18	17	108	185	61	52	924	291	244	44	34	147
11	19	18	223	164	64	54	715	253	291	42	34	91
12	18	18	133	151	78	59	620	224	203	39	59	69
13	18	18	89	130	100	117	550	227	285	37	179	90
14	18	18	235	100	119	266	446	235	409	33	146	254
15	16	18	1,100	60	133	239	388	242	635	110	87	625
16	17	18	960	90	103	230	580	245	654	89	64	823
17	16	17	675	123	93	253	625	220	460	50	51	480
18	16	17	419	130	98	235	515	205	304	41	43	234
19	16	18	320	140	71	199	530	189	219	66	37	164
20	14	17	266	150	70	178	1,570	171	185	534	32	132
21	14	17	213	154	75	174	1,830	167	158	189	31	112
22	17	16	171	157	81	181	2,270	167	135	108	29	97
23	17	16	160	188	77	154	1,820	164	119	79	37	97
24	18	16	160	192	67	139	1,210	157	108	115	46	196
25	18	16	148	160	73	130	792	151	100	165	41	264
26	17	17	148	130	61	125	605	133	92	105	34	539
27	16	18	139	115	63	139	496	119	83	82	30	530
28	15	18	130	100	63	139	424	111	77	72	28	347
29	15	21	119	88	73	145	383	103	79	62	26	795
30	15	23	365	78	------	164	374	101	79	54	25	974
31	14	------	665	84	------	157	------	101	------	48	23	------
TOTAL	523	508	7,185	5,312	2,247	4,239	22,812	6,563	5,995	2,688	1,731	7,837
MEAN	16.9	16.9	232	171	77.5	137	760	212	200	86.7	55.8	261
MAX	19	23	1,100	505	133	266	2,270	397	654	534	180	974
MIN	14	13	18	60	54	52	174	101	73	33	23	21
CFSM	.05	.05	.72	.53	.24	.42	2.35	.66	.62	.27	.17	.81
IN.	.06	.06	.83	.61	.26	.49	2.63	.76	.69	.31	.20	.90

CAL YR 1971 TOTAL 64,880 MEAN 178 MAX 3,110 MIN 13 CFSM .55 IN 7.47
WTR YR 1972 TOTAL 67,640 MEAN 185 MAX 2,270 MIN 13 CFSM .57 IN 7.79

PEAK DISCHARGE (BASE 2,800 CFS).—No peak above base.

03335700 Big Pine Creek near Williamsport, Ind.--Continued

PERIOD OF RECORD.--Chemical analysis: July 1970 to September 1972.
Water temperatures: November 1970 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 812 micromhos Jan. 17; minimum, 185 micromhos Sept. 8.
Water temperatures: Maximum, 30.5°C Aug. 18; minimum, freezing point on many days during December to March.

Period of record:
Specific conductance: Maximum, 812 micromhos Jan. 17, 1972; minimum, 185 micromhos Sept. 8, 1972.
Water temperatures: Maximum, 30.5°C Aug. 18, 1972; minimum, freezing point on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	AIR TEMP-ERATURE (DEG C)	TEMPER-ATURE (DEG C)	PH (UNITS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV.											
02...	1050	16	12.0	14.0	7.4	630	5	399	398	350	68
DEC.											
14...	1000	85	9.5	6.5	8.0	650	10	406	406	340	130
JAN.											
17...	1300	123	-2.0	.0	8.0	800	10	527	513	440	150
FEB.											
15...	1205	137	-1.0	.0	7.2	620	10	402	377	320	98
MAR.											
21...	1130	176	14.0	10.0	7.1	660	5	428	393	340	120
APR.											
25...	0800	870	2.0	7.5	7.4	560	13	352	352	280	120
MAY											
31...	0915	109	13.0	14.5	7.8	640	6	428	389	340	110
JULY											
13...	1400	38	29.0	26.0	7.9	580	10	412	368	320	96
AUG.											
09...	1300	39	23.0	19.0	8.3	570	8	368	358	310	78
SEP.											
13...	1010	66	26.0	21.5	8.4	600	20	419	375	330	94

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
02...	6.7	140	30	20	20	86	12	32	2.6	339	0
DEC.											
14...	9.6	260	70	20	0	92	10	27	2.3	256	0
JAN.											
17...	9.0	110	40	36	26	110	9.6	41	1.4	358	0
FEB.											
15...	3.8	120	20	16	12	80	9.5	30	1.4	274	0
MAR.											
21...	1.5	--	20	--	67	85	7.4	30	1.0	268	0
APR.											
25...	9.3	490	50	98	26	70	4.7	27	1.4	206	0
MAY											
31...	5.1	110	20	61	10	82	10	34	1.6	286	0
JULY											
13...	3.7	1100	320	41	40	71	8.8	35	2.1	274	0
AUG.											
09...	7.8	160	10	20	0	77	9.3	29	2.8	284	0
SEP.											
13...	11	280	30	75	18	81	9.2	30	2.3	283	0

03335700 Big Pine Creek near Williamsport, Ind.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	CARBON DIOXIDE (CO2) (MG/L)
NOV.											
02...	74	18	.2	.00	.0	17.2	.54	278	7	.3	22
DEC.											
14...	84	28	.3	6.1	27	93.2	.55	210	6	.2	--
JAN.											
17...	100	24	.3	9.5	42	175	.72	294	4	.2	--
FEB.											
15...	74	21	.2	5.1	22	149	.55	225	6	.2	28
MAR.											
21...	78	24	.5	7.7	34	203	.58	220	5	.2	34
APR.											
25...	59	19	.3	14	60	827	.48	169	3	.1	13
MAY											
31...	71	22	.3	4.9	22	126	.58	235	6	.2	--
JULY											
13...	79	22	.4	2.6	11	42.3	.56	225	6	.2	--
AUG.											
09...	67	19	.3	1.2	5.4	38.8	.50	233	6	.2	2.3
SEP.											
13...	70	19	.4	3.0	13	74.7	.57	232	6	.2	1.8

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	605	589	643	637	652	637	634	600	637	616	620	602
2	608	597	649	634	655	640	652	637	611	578	629	618
3	611	594	655	649	658	646	661	652	573	561	642	634
4	617	597	661	652	661	649	668	661	581	562	648	642
5	646	619	661	652	661	652	694	665	589	570	659	650
6	668	649	668	655	655	628	719	698	598	584	674	653
7	691	668	668	661	634	594	705	677	618	589	673	655
8	694	684	671	661	634	603	691	661	624	609	670	652
9	681	674	668	658	668	637	658	646	627	609	664	638
10	687	674	665	652	668	521	665	652	629	622	649	633
11	687	674	668	652	691	529	671	665	632	607	652	617
12	684	674	668	649	622	597	671	668	631	608	649	627
13	701	684	665	646	646	605	671	655	631	612	655	617
14	694	661	665	643	652	411	709	655	635	599	664	627
15	661	643	671	646	470	330	765	709	627	610	676	661
16	649	631	709	674	529	473	790	755	641	613	684	666
17	637	619	723	709	584	532	812	790	615	594	669	663
18	631	619	727	712	622	584	799	702	618	599	669	663
19	634	619	719	712	643	622	685	605	647	621	671	659
20	634	622	734	719	661	643	610	589	641	615	665	648
21	637	625	742	734	671	661	588	377	644	621	665	648
22	634	622	738	723	681	671	578	547	635	618	658	640
23	631	625	723	701	687	681	565	537	627	621	661	646
24	643	631	701	687	687	684	582	561	629	615	658	646
25	637	631	691	681	684	677	611	582	621	610	658	643
26	646	634	684	665	674	671	639	611	624	597	646	634
27	643	634	668	658	671	665	653	639	615	586	637	622
28	646	637	661	655	671	668	646	624	604	569	650	635
29	646	637	655	640	671	661	642	624	607	581	641	635
30	646	637	643	637	661	581	635	624	---	---	650	632
31	649	637	---	---	597	561	649	631	---	---	653	629
MONTH	701	589	742	634	691	330	812	377	647	561	684	602

03335700 Big Pine Creek near Williamsport, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	650	627	610	597	647	613	575	564	650	629	643	629
2	641	624	613	606	646	606	573	562	650	632	646	632
3	657	637	618	611	645	585	575	555	648	637	647	639
4	670	638	623	609	635	607	566	555	642	616	651	642
5	686	677	623	601	633	618	606	577	637	616	649	638
6	702	675	625	597	641	609	596	553	634	584	647	633
7	694	683	623	600	628	532	589	549	614	582	640	232
8	586	505	630	614	633	594	584	551	596	587	518	185
9	603	566	619	593	644	594	579	549	576	561	501	375
10	594	584	619	604	632	599	582	555	595	578	535	475
11	610	604	632	591	642	604	579	559	604	585	566	532
12	630	626	632	569	662	650	579	559	594	537	601	564
13	657	645	621	575	673	438	582	555	653	423	626	599
14	679	677	623	595	624	512	582	559	542	432	633	404
15	692	685	619	597	630	417	573	370	592	544	540	350
16	719	619	632	597	538	498	606	500	616	595	453	379
17	719	687	634	583	579	538	604	586	630	619	540	474
18	687	679	629	580	611	579	606	596	638	604	583	542
19	631	560	631	584	619	611	628	591	629	553	609	584
20	471	350	621	579	619	617	652	241	560	520	625	608
21	421	359	614	582	619	614	553	520	550	524	629	624
22	444	397	614	584	622	614	596	555	591	538	636	626
23	506	441	609	589	617	614	622	599	608	595	637	620
24	533	510	614	595	614	611	627	577	644	610	632	620
25	572	560	614	595	611	604	617	587	623	606	621	605
26	584	582	614	598	604	594	622	604	630	619	642	554
27	606	594	614	602	596	584	640	622	629	621	646	571
28	609	593	626	609	587	575	657	640	631	622	641	651
29	617	603	639	626	582	573	657	645	635	621	652	536
30	612	597	639	634	579	568	657	643	638	627	611	579
31	---	---	639	630	---	---	654	634	645	631	---	---
MONTH	719	350	639	569	673	417	657	241	653	423	681	185

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	22.0	14.0	11.0	2.5	0.5	4.0	3.0	0.0	0.0	10.0	6.0
2	25.0	21.5	14.5	13.0	1.0	0.0	4.5	4.0	0.0	0.0	9.0	3.5
3	23.5	21.0	13.0	10.5	1.5	0.0	4.5	3.5	0.0	0.0	5.0	1.5
4	22.5	19.5	10.0	7.5	3.0	1.0	4.5	1.5	0.0	0.0	4.0	2.0
5	20.0	17.5	10.0	7.0	4.5	3.0	1.0	0.0	0.0	0.0	2.5	0.0
6	19.5	16.5	10.0	6.5	5.0	4.5	0.0	0.0	0.0	0.0	3.0	0.0
7	17.5	14.5	6.0	3.5	5.5	5.0	0.0	0.0	0.0	0.0	5.5	2.0
8	15.5	13.5	4.5	2.0	6.0	5.5	0.0	0.0	0.0	0.0	4.0	1.0
9	15.0	13.5	5.0	4.0	6.5	5.5	1.5	0.0	0.0	0.0	4.5	0.0
10	14.5	12.5	6.0	4.0	11.0	6.5	3.5	1.5	0.0	0.0	5.5	0.5
11	15.0	12.5	6.5	4.5	9.5	6.5	3.5	2.0	0.0	0.0	9.5	2.0
12	14.5	11.0	7.5	5.5	6.0	4.5	3.0	1.0	0.0	0.0	11.0	8.5
13	14.5	12.5	9.0	6.5	5.0	3.0	3.5	0.0	0.0	0.0	10.0	6.5
14	14.5	11.5	12.0	8.5	5.5	2.5	0.0	0.0	0.0	0.0	6.5	5.0
15	16.0	12.5	13.0	11.5	9.0	6.0	0.0	0.0	0.0	0.0	5.0	3.5
16	18.0	15.5	13.5	11.5	8.5	6.0	0.0	0.0	0.0	0.0	6.0	5.0
17	18.0	15.5	13.0	11.0	6.0	2.5	0.0	0.0	1.0	0.0	6.5	5.0
18	18.0	15.5	13.0	11.5	2.5	0.5	0.0	0.0	0.0	0.0	7.0	4.5
19	19.0	16.5	12.5	8.5	1.5	0.0	0.0	0.0	0.5	0.0	8.5	4.5
20	19.0	16.0	8.5	7.0	3.5	2.0	0.0	0.0	0.0	0.0	11.0	6.5
21	18.0	17.0	6.5	4.5	4.0	3.5	0.0	0.0	1.0	0.0	11.5	9.5
22	19.0	17.5	4.5	2.0	3.5	1.5	0.0	0.0	1.0	0.0	10.5	6.0
23	18.5	17.5	2.5	1.0	4.0	2.0	0.5	0.0	0.0	0.0	6.0	3.5
24	17.5	17.0	3.0	1.5	5.0	4.0	4.0	1.0	0.5	0.0	7.0	3.5
25	17.5	16.5	4.0	2.5	5.5	4.0	2.0	0.0	1.0	0.0	8.5	4.5
26	17.5	14.5	4.0	2.5	7.0	5.5	0.0	0.0	2.5	0.0	7.0	5.0
27	17.5	15.5	4.5	4.0	9.0	6.5	0.0	0.0	2.0	0.0	6.0	5.5
28	17.0	14.0	4.5	4.0	7.5	2.5	0.0	0.0	4.0	0.0	7.0	5.5
29	16.0	13.5	4.5	3.5	2.0	1.5	0.0	0.0	6.5	1.5	6.5	4.5
30	17.0	14.5	4.0	2.5	4.5	2.5	0.0	0.0	---	---	7.5	3.0
31	17.0	14.5	---	---	4.5	4.0	0.0	0.0	---	---	9.0	4.5
MONTH	26.0	11.0	14.5	1.0	11.0	0.0	4.5	0.0	6.5	0.0	11.5	0.0

03335700 Big Pine Creek near Williamsport, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	15.5	13.0	19.5	13.0	26.5	20.0	24.0	21.5	25.0	21.5
2	6.0	5.0	16.0	13.5	21.0	16.0	23.5	21.0	24.5	21.0	23.0	19.0
3	5.5	4.0	14.0	12.0	24.0	18.0	25.5	19.5	23.5	20.0	20.5	17.5
4	7.5	4.0	16.5	11.5	25.0	19.0	21.5	19.0	24.0	18.5	21.0	17.5
5	9.5	5.0	18.0	13.5	23.0	20.0	20.0	16.5	24.5	18.5	21.5	16.5
6	13.0	8.0	19.5	15.5	23.0	19.5	21.5	15.5	25.5	20.0	22.0	17.5
7	12.0	2.5	18.5	16.5	21.5	17.5	21.5	17.5	24.0	19.5	22.5	18.5
8	4.5	0.5	16.0	12.5	20.0	18.0	23.5	18.5	20.0	18.0	22.5	20.5
9	7.0	4.5	15.0	11.0	19.0	17.0	23.5	20.0	22.5	17.0	21.0	19.0
10	9.5	7.0	16.5	11.5	18.5	14.5	26.5	21.0	23.0	17.5	20.5	17.0
11	12.0	9.5	17.5	12.5	18.5	13.5	28.0	22.0	20.5	18.5	21.5	18.5
12	11.5	10.0	18.5	14.0	18.5	15.0	28.5	23.0	24.5	19.0	24.0	20.5
13	17.0	12.0	18.0	16.0	20.0	18.0	27.5	23.5	25.5	20.5	25.5	21.5
14	15.0	12.0	17.5	15.5	23.5	19.5	28.5	24.0	26.5	21.5	23.5	20.5
15	13.0	12.0	17.0	15.0	23.5	19.5	26.5	22.0	24.5	23.0	20.5	18.5
16	13.0	11.5	19.0	14.5	21.0	18.0	27.0	21.0	27.0	20.5	20.5	19.0
17	13.5	9.0	19.5	15.5	19.5	16.0	27.0	22.0	29.5	23.5	23.0	20.5
18	15.5	10.5	21.5	16.5	20.5	16.5	28.5	24.0	30.5	25.0	24.0	21.0
19	15.0	13.0	23.0	18.0	24.0	18.5	28.5	24.5	29.5	25.5	23.5	21.5
20	14.0	10.5	23.0	18.0	25.5	21.0	26.5	22.5	29.5	25.0	23.0	20.0
21	10.0	8.5	24.0	18.5	22.5	18.5	28.5	24.0	30.0	25.0	21.5	18.5
22	11.0	9.0	25.0	19.5	20.0	16.5	30.0	25.5	29.0	26.0	19.5	16.5
23	11.0	9.5	24.5	19.5	18.0	14.5	30.0	25.5	27.0	25.0	17.5	17.0
24	10.5	9.0	25.5	20.0	18.0	15.0	28.0	24.0	27.5	24.0	18.5	17.5
25	11.5	7.5	25.5	19.5	19.5	15.0	28.0	22.5	27.5	22.5	20.0	18.5
26	13.5	8.5	25.5	20.0	20.5	16.5	24.0	21.0	25.5	22.0	21.0	19.5
27	14.0	6.5	26.0	20.0	24.0	18.0	21.5	20.0	23.5	21.0	19.5	18.5
28	13.5	11.5	24.5	20.0	21.0	19.0	25.0	19.5	26.5	20.0	19.0	18.0
29	12.5	11.5	21.5	20.0	20.0	18.5	26.0	20.0	27.5	21.0	18.5	16.0
30	14.0	11.0	20.5	16.5	24.5	18.0	26.5	19.5	28.0	22.0	16.0	14.0
31	---	---	16.0	14.5	---	---	26.5	20.0	26.5	22.0	---	---
MONTH	17.0	0.5	26.0	11.0	25.5	13.0	30.0	15.5	30.5	17.0	25.5	14.0

03336000 Wabash River at Covington, Ind.

LOCATION.—Lat 40°08'24", long 87°24'20", in NE 1/4 NW 1/4 sec.35, T.20 N., R.9 W., on Fountain-Warren county line, near center of span on downstream side of bridge on U.S. Highway 136 at Covington, 2.9 miles downstream from Oppossum Run, 3.6 miles upstream from Spring Creek, and at mile 271.1.

DRAINAGE AREA.—8,208 sq mi.

PERIOD OF RECORD.—October 1939 to current year. Gage-height records collected at site 0.4 mile downstream January 1927 to December 1930, and at present site since December 1930, are contained in reports of U.S. Weather Bureau.

GAGE.—Nonrecording gage. Datum of gage is 473.97 ft above mean sea level.

AVERAGE DISCHARGE.—33 years, 7,016 cfs (11.60 inches per year).

EXTREMES.—Current year: Maximum discharge, 45,100 cfs Apr. 24 (gage height, 22.31 ft); minimum daily, 1,410 cfs Sept. 6.
Period of record: Maximum discharge, 147,000 cfs May 20, 1943 (gage height, 32.44 ft); minimum daily, 487 cfs Sept. 29, 1941.
Flood in March 1913 reached a stage of 35.1 ft, from floodmark determined by U.S. Weather Bureau (discharge, 200,000 cfs).

REMARKS.—Records fair. Natural flow of stream affected by reservoirs.

REVISIONS.—WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,000	3,360	2,740	14,500	3,100	3,870	12,800	20,600	4,590	3,160	2,510	2,100
2	4,400	2,860	2,740	16,800	3,300	4,160	11,100	19,600	5,130	3,060	2,390	1,990
3	3,600	3,210	2,910	16,100	3,900	4,980	8,950	19,100	5,920	2,660	2,160	2,130
4	3,300	2,760	2,420	15,500	3,900	8,440	8,440	15,800	6,620	3,210	2,230	1,780
5	3,100	2,670	2,560	13,600	3,400	10,400	8,170	13,300	4,590	3,740	2,310	1,910
6	2,980	2,790	2,190	11,500	2,900	12,200	8,540	11,500	5,510	4,810	2,240	1,410
7	3,100	2,550	2,390	8,870	2,800	13,200	8,970	10,600	6,280	5,600	2,660	1,880
8	2,800	2,620	3,700	8,290	2,800	9,750	14,300	10,400	5,360	4,810	3,080	4,560
9	2,750	2,480	9,100	7,250	2,900	7,430	24,600	10,800	4,310	3,910	3,050	3,750
10	2,700	2,640	12,300	6,710	3,000	5,810	25,600	13,600	4,450	3,330	2,760	3,570
11	2,650	2,740	14,300	7,060	3,100	4,730	24,400	14,800	4,300	2,920	2,750	3,200
12	2,600	2,550	17,200	8,460	3,200	4,260	22,800	13,500	3,740	2,660	2,960	2,500
13	2,550	2,510	16,000	9,720	3,400	4,260	20,500	12,200	6,400	2,380	3,600	2,380
14	2,500	2,670	13,800	8,730	3,700	4,390	21,700	11,700	8,750	2,180	3,780	3,260
15	2,500	2,490	15,800	7,250	3,900	6,910	22,700	12,400	7,970	2,400	3,350	11,400
16	2,460	2,470	23,800	4,500	4,100	10,700	20,400	15,100	12,900	2,700	2,940	15,600
17	2,410	2,560	27,400	3,200	4,400	11,100	21,000	16,500	13,800	3,340	2,900	14,000
18	2,360	2,460	27,600	3,000	4,800	10,800	23,300	15,600	12,400	3,900	3,160	11,100
19	2,370	2,420	24,600	3,500	4,900	9,560	24,100	15,000	8,780	5,190	2,780	9,410
20	2,430	2,580	21,800	5,000	4,600	7,550	26,300	13,600	6,890	7,390	2,520	11,500
21	2,690	2,450	17,900	8,590	4,400	6,580	29,800	12,100	5,710	8,340	2,130	12,100
22	2,460	2,480	16,300	7,410	4,300	6,010	38,900	11,600	4,700	9,360	2,260	10,800
23	2,790	2,620	15,000	8,000	3,930	5,770	44,000	10,200	4,290	8,950	2,230	8,820
24	3,020	2,500	14,000	8,290	3,950	5,810	44,100	8,750	3,730	6,830	2,280	7,830
25	3,800	2,470	13,100	9,510	3,830	6,220	38,700	6,950	3,680	4,800	2,340	10,300
26	4,880	2,630	10,100	8,930	3,840	6,220	31,600	5,770	3,390	3,730	3,020	14,300
27	5,190	2,490	7,970	7,470	3,470	5,530	27,500	5,300	3,350	3,480	3,510	17,200
28	4,640	2,570	7,310	6,980	3,640	5,340	24,900	4,910	3,260	2,910	3,180	20,300
29	3,790	2,630	6,890	5,610	3,710	6,970	23,100	4,450	3,140	2,960	2,800	20,900
30	3,600	2,690	6,830	4,940	------	6,970	21,800	4,490	3,110	2,900	2,550	23,200
31	3,120	------	9,290	3,500	------	8,900	------	4,480	------	2,840	2,250	------
TOTAL	98,540	78,920	370,040	258,770	107,170	224,820	683,070	364,700	177,050	130,450	84,680	255,180
MEAN	3,179	2,631	11,940	8,347	3,696	7,252	22,770	11,760	5,902	4,208	2,732	8,506
MAX	5,190	3,360	27,600	16,800	4,900	13,200	44,100	20,600	13,800	9,360	3,780	23,200
MIN	2,360	2,420	2,190	3,000	2,800	3,870	8,170	4,450	3,110	2,180	2,130	1,410
CFSM	.39	.32	1.45	1.02	.45	.88	2.77	1.43	.72	.51	.33	1.04
IN.	.45	.36	1.68	1.17	.49	1.02	3.10	1.65	.80	.59	.38	1.16

CAL YR 1971 TOTAL 2,240,840 MEAN 6,139 MAX 30,800 MIN 1,100 CFSM .75 IN 10.16
WTR YR 1972 TOTAL 2,833,390 MEAN 7,742 MAX 44,100 MIN 1,410 CFSM .94 IN 12.84

03339000 Vermilion River near Danville, Ill.

LOCATION.—Lat 40°05'53", long 87°35'37", in SE 1/4 NW 1/4 sec.22, T.19 N., R.11 W., Vermilion County, on left bank 1.5 miles upstream from Stony Creek and 2.5 miles southeast of Danville.

DRAINAGE AREA.—1,279 sq mi.

PERIOD OF RECORD.—October 1914 to September 1921, June 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 503.33 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mile upstream at same datum.

AVERAGE DISCHARGE.—51 years, 886 cfs (9.41 inches per year).

EXTREMES.—Current year: Maximum discharge, 9,240 cfs Apr. 22 (gage height, 13.94 ft); minimum, 54 cfs Nov. 21, 26.
Period of record: Maximum discharge, 48,700 cfs Mar. 13, 1939 (gage height, 28.59 ft); minimum daily, 2 cfs Oct. 9-14, 1920, August 10, 1930.

REMARKS.—Records good except those for winter periods, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 miles above station (usable capacity, 7,440 acre-ft in 1940), and by Danville sewage-disposal plant.

REVISIONS (WATER YEARS).—WSP 853: 1936(M). WSP 973: 1939. WSP 1173: 1915-16, 1920, 1929. WSP 1335: 1934(m). WSP 1909: 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	81	70	2,910	400	471	1,640	1,630	290	420	115	84
2	161	82	81	2,310	430	556	1,410	1,400	331	370	110	84
3	151	81	76	2,070	430	561	1,560	1,280	425	420	117	107
4	139	78	67	1,790	400	501	1,800	1,180	3,440	420	127	84
5	128	86	67	1,430	364	454	1,720	1,210	1,360	470	124	107
6	124	78	87	1,170	360	391	1,540	1,020	1,550	420	131	107
7	118	72	136	1,050	350	387	2,300	763	1,140	330	120	107
8	109	65	147	938	350	405	3,750	762	841	280	142	1,280
9	115	69	213	915	350	355	3,310	1,450	720	250	146	1,770
10	109	65	427	956	350	319	2,340	2,230	1,140	230	107	520
11	114	93	2,140	915	360	320	1,930	2,080	1,420	220	107	395
12	108	72	2,660	847	365	333	2,340	1,300	1,020	204	160	305
13	99	71	1,890	854	390	501	2,490	1,060	780	192	470	262
14	95	76	1,810	705	417	1,500	2,100	1,130	900	182	670	755
15	94	70	6,400	427	481	2,080	1,630	1,050	2,770	290	330	1,990
16	101	84	7,880	334	505	1,830	1,770	867	4,830	450	220	1,540
17	99	68	7,050	571	528	1,710	2,250	776	2,690	524	160	967
18	90	67	4,350	673	529	1,370	1,890	715	1,350	324	160	615
19	87	75	2,210	759	529	1,130	1,890	656	1,080	267	160	395
20	77	64	1,730	841	429	972	8,400	621	1,020	274	132	323
21	77	69	1,510	782	423	809	7,800	551	840	266	84	282
22	85	75	1,420	802	426	777	9,080	559	620	218	84	260
23	85	66	1,310	828	413	715	7,640	527	570	183	84	365
24	96	66	1,270	825	416	639	5,280	504	570	191	132	589
25	99	65	1,210	738	416	636	3,400	482	520	340	132	1,430
26	86	60	1,190	513	395	580	2,840	452	470	597	290	2,730
27	82	70	1,140	437	364	878	2,230	405	470	437	255	2,870
28	76	67	1,040	400	375	1,420	1,710	384	420	267	190	1,550
29	77	76	945	370	420	1,370	1,590	370	470	182	132	2,500
30	84	79	1,500	350	------	1,740	1,570	370	470	153	107	4,860
31	84	------	3,070	360	------	1,540	------	330	------	132	107	------
TOTAL	3,234	2,190	55,096	28,870	11,965	27,250	91,400	28,114	34,517	9,503	5,405	29,233
MEAN	104	73.0	1,777	931	413	879	3,047	907	1,151	307	174	974
MAX	186	93	7,880	2,910	529	2,080	9,080	2,230	4,830	597	670	4,860
MIN	76	60	67	334	350	319	1,540	330	290	132	84	84
CFSM	.08	.06	1.39	.73	.32	.69	2.38	.71	.90	.24	.14	.76
IN.	.09	.06	1.60	.84	.35	.79	2.66	.82	1.00	.28	.16	.85

CAL YR 1971 TOTAL 253,332 MEAN 694 MAX 8,400 MIN 60 CFSM .54 IN 7.37
WTR YR 1972 TOTAL 326,777 MEAN 893 MAX 9,080 MIN 60 CFSM .70 IN 9.50

03339108 East Fork Coal Creek near Hillsboro, Ind.

LOCATION.—Lat 40°06'06", long 87°07'54", in NW 1/4 SW 1/4 sec.8, T.19 N., R.6 W., Fountain County, at center pier on downstream side of bridge on County Road 700 East, 1.5 miles east of Hillsboro, 3.7 miles northwest of Waynetown, and 9.6 miles upstream from mouth.

DRAINAGE AREA.—33.4 sq mi.

PERIOD OF RECORD.—September 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 673.76 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 2,180 cfs June 13 (gage height, 9.69 ft); minimum daily, 5.8 cfs Oct. 19, 20.
Period of record: Maximum discharge, 2,180 cfs June 13, 1972 (gage height, 9.69 ft); minimum daily, 3.7 cfs Sept. 19, 1971.

REMARKS.—Records good except those for parts of January, February, June, July, and August, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.2	10	44	14	21	31	51	16	20	14	7.4
2	7.1	7.5	8.3	40	14	28	31	46	14	313	14	10
3	7.1	7.5	8.0	34	14	20	39	40	13	623	15	14
4	9.2	6.8	7.6	32	9.0	18	82	37	13	110	14	9.1
5	7.1	6.7	7.6	25	8.5	14	53	33	11	68	13	8.6
6	6.7	6.7	27	22	9.0	13	44	30	57	46	14	7.8
7	6.3	6.3	123	20	9.0	13	161	28	23	36	15	8.2
8	6.3	6.3	63	22	8.8	11	81	31	18	28	13	30
9	9.6	6.4	44	25	9.0	9.7	64	31	26	24	12	14
10	9.1	6.7	81	26	9.5	9.6	54	25	45	21	11	11
11	8.0	6.7	58	24	10	9.9	46	23	23	19	16	10
12	7.1	6.7	41	22	11	11	72	23	19	17	48	9.7
13	6.9	6.7	32	22	13	15	67	25	564	16	19	9.1
14	6.7	6.7	198	18	25	14	53	24	392	15	15	54
15	6.7	6.7	270	10	40	12	45	24	448	186	15	18
16	6.7	6.5	105	14	26	14	347	23	134	90	11	12
17	6.5	6.3	66	15	21	13	145	21	96	46	10	10
18	6.3	6.5	50	17	22	12	86	20	75	50	12	8.6
19	5.8	11	42	19	17	11	186	19	58	52	15	8.2
20	5.8	8.0	37	21	11	11	812	18	46	31	15	7.8
21	5.9	7.5	34	24	12	11	521	17	37	26	14	7.6
22	11	6.6	31	26	12	14	456	17	32	26	14	7.5
23	11	6.2	29	28	12	13	156	16	28	24	19	11
24	12	6.1	30	26	12	12	99	15	25	44	22	12
25	16	6.3	28	22	12	12	76	14	23	39	12	14
26	12	6.3	28	20	11	12	64	13	22	30	10	27
27	11	6.8	26	18	12	30	58	13	20	22	9.7	51
28	8.6	6.9	23	16	14	25	51	12	21	20	9.1	25
29	8.3	10	23	14	17	33	53	12	22	18	8.6	76
30	8.0	14	71	12	------	34	59	26	21	16	7.8	50
31	7.9	------	55	13	------	27	------	20	------	15	7.4	------
TOTAL	253.8	216.6	1,656.5	691	414.8	503.2	4,092	747	2,342	2,091	444.6	548.6
MEAN	8.19	7.22	53.4	22.3	14.3	16.2	136	24.1	78.1	67.5	14.3	18.3
MAX	16	14	270	44	40	34	812	51	564	623	48	76
MIN	5.8	6.1	7.6	10	8.5	9.6	31	12	11	15	7.4	7.4
CFSM	.25	.22	1.60	.67	.43	.49	4.07	.72	2.34	2.02	.43	.55
IN.	.28	.24	1.84	.77	.46	.56	4.56	.83	2.61	2.33	.50	.61

CAL YR 1971 TOTAL 10,383.4 MEAN 28.4 MAX 800 MIN 3.7 CFSM .85 IN 11.56
WTR YR 1972 TOTAL 14,001.1 MEAN 38.3 MAX 812 MIN 5.8 CFSM 1.15 IN 15.59

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-16	1100	5.27	625	06-15	0700	6.34	932
04-20	0215	9.15	1,940	07-02	2215	8.95	1,860
04-21	2400	6.79	1,040	07-15	1545	5.12	580
06-13	1915	9.69	2,180				

03339120 Coal Creek at Coal Creek, Ind.

LOCATION.—Lat 40°01'42", long 87°22'30", in SW 1/4 SW 1/4 sec.6, T.18 N., R.8 W., Fountain County, on downstream side of county road bridge, 0.7 mile southeast of Coal Creek.

DRAINAGE AREA.—214 sq mi.

PERIOD OF RECORD.—October 1964 to September 1972 (Discontinued).

GAGE.—Water-stage recorder. Datum of gage is 505.96 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 16, 1970, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—8 years, 178 cfs (11.30 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,480 cfs Apr. 20 (gage height, 14.18 ft, from floodmark); minimum daily, 21 cfs Oct. 20, 21.
Period of record: Maximum discharge, 10,100 cfs Aug. 4, 1968 (gage height, 17.5 ft, estimated by gage observer); minimum daily, 6.0 cfs Sept. 12, 13, 1966.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	25	37	288	75	128	182	309	94	110	58	24
2	25	25	34	248	78	138	180	276	78	384	57	27
3	23	24	32	214	80	118	181	238	71	2,350	59	44
4	23	24	30	186	60	107	546	212	97	631	58	39
5	26	24	30	151	50	92	359	193	75	345	52	30
6	23	23	39	130	53	81	266	175	211	237	54	26
7	22	22	270	120	53	91	955	165	148	182	58	26
8	22	22	308	130	51	80	723	176	101	153	51	248
9	24	23	174	143	52	68	460	205	119	132	47	121
10	27	25	296	152	53	66	364	165	227	116	43	72
11	26	25	348	141	54	66	297	148	161	104	48	55
12	24	25	200	131	64	70	583	140	118	92	144	47
13	23	25	144	134	74	80	491	144	791	94	105	42
14	23	25	550	95	88	85	343	149	4,800	89	71	113
15	23	25	1,840	50	173	75	277	141	1,950	420	91	152
16	23	25	947	70	153	78	1,430	138	1,110	392	63	100
17	23	24	498	80	130	82	1,050	127	541	186	53	75
18	22	25	338	88	141	75	562	119	392	132	47	63
19	22	27	262	95	109	68	638	111	303	165	42	54
20	21	30	224	104	92	60	4,920	106	247	153	37	47
21	21	30	194	115	90	63	2,290	102	203	114	35	43
22	25	26	167	140	90	72	2,880	97	172	96	33	40
23	30	24	159	179	84	64	1,310	93	150	87	47	44
24	30	24	157	158	91	61	753	89	138	100	62	54
25	32	25	148	132	85	58	562	85	129	163	51	79
26	36	25	146	99	84	56	454	81	122	96	42	100
27	35	27	138	92	82	167	373	77	114	83	35	249
28	30	28	129	82	93	139	316	75	116	78	33	237
29	28	30	119	75	107	151	302	74	119	71	31	205
30	28	34	418	68	------	183	350	141	116	65	28	740
31	26	------	425	70	------	147	------	131	------	61	26	------
TOTAL	794	766	8,801	3,960	2,489	2,869	24,397	4,482	13,013	7,481	1,661	3,196
MEAN	25.6	25.5	284	128	85.8	92.5	813	145	434	241	53.6	107
MAX	36	34	1,840	288	173	183	4,920	309	4,800	2,350	144	740
MIN	21	22	30	50	50	56	180	74	71	61	26	24
CFSM	.12	.12	1.33	.60	.40	.43	3.80	.68	2.03	1.13	.25	.50
IN.	.14	.13	1.53	.69	.43	.50	4.24	.78	2.26	1.30	.29	.56

CAL YR 1971 TOTAL 53,618 MEAN 147 MAX 2,090 MIN 16 CFSM .69 IN 9.32
WTR YR 1972 TOTAL 73,909 MEAN 202 MAX 4,920 MIN 21 CFSM .94 IN 12.85

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-20	Unknown	14.18	6,480	06-14	Unknown	a14.00	6,300
04-22	0900	10.54	3,480	07-03	1000	10.80	3,660

a From graph

03339150 Little Vermilion River near Newport, Ind.

LOCATION.—Lat 39°53'32", long 87°25'42", in SW 1/4 NW 1/4 sec.27, T.17 N., R.9 W., Vermillion County, on downstream side of bridge on State Highway 63, 1.2 miles northwest of Newport, and 6 miles upstream from mouth.

DRAINAGE AREA.—240 sq mi.

PERIOD OF RECORD.—October 1964 to September 1972 (Discontinued).

GAGE.—Water-stage recorder. Datum of gage is 489.78 ft above mean sea level (Indiana State Highway Commission bench mark, levels by Corps of Engineers). Prior to Nov. 6, 1969, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—8 years, 186 cfs (10.52 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,800 cfs Apr. 20 (gage height, 10.41 ft); minimum daily, 5.2 cfs Oct. 6.
Period of record: Maximum discharge, 6,520 cfs Dec. 8, 1966 (gage height, 11.54 ft); no flow Oct. 3-6, 1964.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	10	14	434	105	81	99	422	99	58	34	24
2	7.9	12	13	360	110	94	139	386	78	65	34	28
3	7.6	11	11	294	105	85	129	330	70	1,490	54	30
4	8.5	9.9	11	251	100	80	176	287	93	1,070	49	29
5	6.4	9.7	10	219	83	78	203	256	119	480	38	24
6	5.2	8.2	17	190	85	64	184	229	100	306	168	22
7	5.8	7.9	185	175	90	70	582	223	100	217	104	22
8	7.0	7.3	230	170	85	74	771	250	82	164	62	488
9	12	7.8	164	178	79	58	532	264	86	131	46	789
10	11	7.7	237	196	74	58	402	208	92	112	36	508
11	9.1	7.1	560	183	69	56	322	179	80	89	39	314
12	7.9	7.0	426	155	68	56	299	165	65	74	74	212
13	7.3	7.4	292	153	76	66	309	175	138	65	102	146
14	8.2	8.0	718	130	81	108	286	185	917	58	184	165
15	7.6	8.0	2,050	107	96	132	268	182	517	86	88	378
16	66	8.2	1,880	110	95	129	623	167	350	88	53	324
17	66	7.6	1,140	155	78	132	651	142	273	60	43	221
18	55	7.7	690	190	82	115	479	126	194	51	41	250
19	38	10	488	197	81	95	408	115	151	50	38	175
20	30	10	404	182	77	78	3,420	106	124	45	33	125
21	26	10	328	188	62	72	3,030	102	110	42	30	106
22	26	10	264	188	74	82	2,960	103	91	38	29	87
23	26	10	241	230	78	81	1,940	103	77	37	33	81
24	25	9.3	240	232	70	70	1,420	93	70	50	31	89
25	23	8.6	228	206	80	68	1,040	83	66	55	30	231
26	21	8.0	220	142	69	66	766	73	74	43	29	358
27	19	9.9	203	120	73	70	596	68	61	43	29	422
28	18	10	181	105	62	74	489	66	69	40	26	350
29	17	11	156	100	69	79	461	66	79	37	25	532
30	15	14	332	95	------	85	471	153	70	35	24	969
31	13	------	566	100	------	75	------	147	------	34	24	------
TOTAL	604.3	273.3	12,499	5,735	2,356	2,531	23,455	5,454	4,495	5,213	1,630	7,499
MEAN	19.5	9.11	403	185	81.2	81.6	782	176	150	168	52.6	250
MAX	66	14	2,050	434	110	132	3,420	422	917	1,490	184	969
MIN	5.2	7.0	10	95	62	56	99	66	61	34	24	22
CFSM	.08	.04	1.68	.77	.34	.34	3.26	.73	.63	.70	.22	1.04
IN.	.09	.04	1.94	.89	.37	.39	3.64	.85	.70	.81	.25	1.16

CAL YR 1971 TOTAL 47,947.0 MEAN 131 MAX 2,050 MIN 3.6 CFSM .55 IN 7.43
WTR YR 1972 TOTAL 71,744.6 MEAN 196 MAX 3,420 MIN 5.2 CFSM .82 IN 11.12

PEAK DISCHARGE (BASE, 2,000 CFS).—Dec. 15 (1500) 2,290 cfs (9.31 ft). Apr. 20 (1600) 4,800 cfs (10.41 ft).

03339500 Sugar Creek at Crawfordsville, Ind.

LOCATION.—Lat 40°02'56", long 86°53'58", in SW 1/4 NW 1/4 sec.32, T.19 N., R.4 W., Montgomery County, on left bank 327 ft upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 0.5 mile upstream from bridge on State Highway 43, and 1 mile downstream from Walnut Fork Sugar Creek.

DRAINAGE AREA.—509 sq mi.

PERIOD OF RECORD.—June 1938 to current year.

GAGE.—Water-stage recorder. Datum of gage is 657.77 ft above mean sea level.

AVERAGE DISCHARGE.—34 years, 462 cfs (12.33 inches per year).

EXTREMES.—Current year: Maximum discharge, 9,370 cfs Apr. 20 (gage height, 8.27 ft); minimum daily, 37 cfs Oct. 20.
Period of record: Maximum discharge, 26,300 cfs June 28, 1957 (gage height, 14.48 ft); minimum daily, 2.4 cfs Sept. 24-27, 1941.
Flood in March 1913, reached a stage of 17.3 ft from information by local resident (discharge, about 36,000 cfs).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	56	64	1,020	225	334	240	558	374	209	81	42
2	45	55	59	798	236	820	229	500	271	445	79	48
3	41	54	56	676	226	879	227	428	227	3,600	92	60
4	41	52	53	582	153	551	614	372	200	1,340	98	56
5	58	49	54	520	150	406	707	326	177	709	82	48
6	58	46	75	450	160	314	514	299	950	447	107	43
7	52	45	769	400	160	316	2,180	288	1,340	328	95	44
8	47	42	1,630	340	150	275	2,930	288	628	271	85	159
9	55	44	955	366	143	224	2,050	328	454	236	78	154
10	62	46	936	556	147	221	1,530	348	477	211	68	88
11	57	46	1,340	574	153	208	1,120	299	370	189	64	67
12	53	46	952	468	166	217	1,010	271	293	167	153	60
13	51	48	623	441	173	219	1,010	274	428	151	187	54
14	47	49	1,420	326	180	218	808	290	811	142	116	414
15	45	46	4,730	148	276	202	625	319	2,320	190	96	513
16	43	46	4,090	260	269	206	1,370	324	2,090	243	97	249
17	41	44	2,260	341	241	218	2,130	296	1,040	190	84	168
18	39	44	1,410	335	246	202	1,310	260	619	187	73	125
19	38	49	970	334	197	180	1,010	238	450	408	63	356
20	37	48	748	333	190	167	8,130	220	366	339	58	216
21	38	48	613	373	205	170	8,200	209	309	226	53	152
22	76	45	512	437	204	199	6,770	199	268	172	49	120
23	175	42	474	646	188	196	4,640	186	238	151	60	155
24	162	42	482	571	198	179	2,710	174	218	210	83	481
25	130	43	458	456	190	165	1,860	163	206	304	98	427
26	107	42	457	313	193	161	1,370	151	193	193	69	1,640
27	91	44	417	280	194	182	1,030	139	177	151	65	3,920
28	79	46	377	240	213	193	795	131	184	133	57	2,210
29	73	53	335	210	254	201	662	138	241	116	52	2,700
30	67	58	1,040	190	------	266	633	494	313	101	47	3,100
31	61	------	1,650	210	------	251	------	564	------	88	44	------
TOTAL	2,022	1,418	30,009	13,194	5,680	8,540	58,414	9,074	16,232	11,847	2,533	17,869
MEAN	65.2	47.3	968	426	196	275	1,947	293	541	382	81.7	596
MAX	175	58	4,730	1,020	276	879	8,200	564	2,320	3,600	187	3,920
MIN	37	42	53	148	143	161	227	131	177	88	44	42
CFSM	.13	.09	1.90	.84	.39	.54	3.83	.58	1.06	.75	.16	1.17
IN.	.15	.10	2.19	.96	.42	.62	4.27	.66	1.19	.87	.19	1.31

CAL YR 1971 TOTAL 145,771 MEAN 399 MAX 4,830 MIN 19 CFSM .78 IN 10.65
WTR YR 1972 TOTAL 176,832 MEAN 483 MAX 8,200 MIN 37 CFSM .95 IN 12.92

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1900	5.34	5,230	07-03	0600	5.14	4,980
04-20	1200	8.27	9,370	09-27	0600	4.75	4,440

03339500 Sugar Creek at Crawfordsville, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB. 16...	1610	1.0	262	23	16	--	--	--
MAR. 22...	0930	9.0	188	14	7.1	--	--	--
APR. 21...	0935	--	8030	818	17700	54	64	68
JUNE 01...	0900	13.5	390	42	44	--	--	--
JULY 13...	1225	26.0	153	38	16	--	--	--
AUG. 10...	1340	22.0	63	36	6.1	--	--	--
SEP. 12...	1640	24.0	59	22	3.5	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
FEB. 16...	--	--	--	--	--	--	--
MAR. 22...	--	--	--	--	--	--	--
APR. 21...	74	81	84	86	91	99	100
JUNE 01...	--	--	--	--	--	--	--
JULY 13...	--	--	--	--	--	--	--
AUG. 10...	--	--	--	--	--	--	--
SEP. 12...	--	--	--	--	--	--	--

03340500 Wabash River at Montezuma, Ind.

LOCATION.—Lat 39°47'33", long 87°22'26", in SE 1/4 NE 1/4 sec.35, T.16 N., R.9 W., Parke County, on downstream side of first pier from left bank of bridge on U.S. Highway 36 at Montezuma, 2.0 miles upstream from Raccoon Creek, 4.9 miles downstream from Sugar Creek, and at mile 240.

DRAINAGE AREA.--11,100 sq mi, approximately.

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage heights only) in reports of Indiana Department of Conservation.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft above mean sea level (levels by Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 9,288 cfs (11.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 60,500 cfs Apr. 23 (gage height, 24.21 ft); minimum daily, 2,080 cfs Sept. 7.
Period of record: Maximum discharge, 184,000 cfs May 20, 1943 (gage height, 32.83 ft); minimum daily, 571 cfs Sept. 24, 1941.
Flood of Mar. 27, 1913, reached a stage of 34.0 ft, from floodmarks (discharge, 230,000 cfs).

REMARKS.--Records good. Daily flow is affected at times by the operation of several reservoirs and powerplants.

REVISIONS (WATER YEARS).—WSP 1335: 1929, 1931(M), drainage area. WSP 1505: 1954. WSP 1915: 1954(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,030	3,580	2,800	17,100	4,100	5,120	13,100	27,700	7,350	5,460	3,260	2,650
2	5,790	3,480	2,720	19,700	4,000	5,520	13,800	25,600	7,140	5,270	3,060	2,550
3	4,760	3,330	2,840	19,600	5,960	6,480	12,000	23,600	7,490	11,200	2,910	2,420
4	4,210	3,340	2,690	19,000	5,880	7,820	11,500	21,600	9,910	10,300	2,820	2,530
5	3,900	3,040	2,410	17,500	4,900	10,600	11,800	18,300	9,510	7,530	2,800	2,230
6	3,660	2,990	2,520	14,800	4,050	11,800	11,300	15,800	7,780	7,090	3,050	2,330
7	3,320	2,930	3,470	12,300	4,050	13,500	16,800	14,500	10,200	7,660	3,420	2,080
8	3,400	2,820	6,090	11,100	4,620	12,400	24,200	13,800	9,270	7,470	3,280	4,100
9	3,460	2,740	8,260	10,400	4,650	9,440	27,100	13,700	7,770	6,560	3,280	7,460
10	3,180	2,720	12,600	9,810	4,650	7,550	28,200	15,400	7,750	5,600	3,250	6,190
11	3,200	2,950	15,900	9,730	4,620	6,310	28,300	17,700	8,030	5,040	3,100	4,820
12	3,190	2,850	19,400	10,100	4,630	5,400	27,800	17,100	7,160	4,640	3,250	4,110
13	3,260	2,720	19,800	11,400	4,770	5,400	27,300	15,600	7,560	4,480	4,210	3,570
14	3,260	2,760	19,600	11,500	4,840	5,720	25,700	14,700	20,800	4,110	4,910	3,780
15	3,250	2,790	29,400	9,040	5,150	7,290	25,500	14,500	21,000	4,320	5,570	6,940
16	3,270	2,650	34,000	5,600	5,590	10,700	27,700	15,700	22,100	6,540	4,320	14,900
17	3,150	2,600	34,400	4,300	5,650	12,600	29,300	17,600	21,700	5,350	3,770	15,800
18	3,190	2,710	34,800	4,000	6,080	12,500	28,300	17,600	19,000	5,610	3,610	13,500
19	3,070	2,610	33,300	4,600	6,290	11,700	27,800	16,800	14,400	6,280	3,670	10,900
20	2,920	2,610	30,000	7,120	5,870	10,100	37,000	16,000	11,500	8,140	3,340	10,600
21	2,930	2,710	25,400	11,500	5,670	8,700	44,000	14,400	9,620	8,640	3,100	11,800
22	2,890	2,570	21,700	9,950	5,600	7,700	54,500	13,500	8,290	9,500	2,720	11,200
23	2,930	2,580	19,900	9,770	5,300	7,370	60,000	12,600	7,320	9,270	2,740	9,970
24	3,510	2,690	18,400	10,500	5,000	6,970	57,500	11,400	6,580	8,180	2,840	8,760
25	3,630	2,520	17,400	10,900	4,930	7,190	51,500	9,830	6,080	7,170	2,850	9,550
26	4,500	2,520	15,700	10,900	5,010	7,100	45,400	8,460	5,740	5,810	3,170	13,300
27	5,020	2,580	12,800	9,410	4,900	6,850	40,200	7,640	5,560	5,150	3,670	19,700
28	5,180	2,490	10,800	8,690	4,720	7,180	35,900	7,140	5,300	4,530	3,860	23,400
29	4,450	2,720	9,970	7,200	4,900	7,570	32,200	6,740	5,450	4,020	3,530	23,600
30	4,120	2,650	10,000	5,800	------	8,450	29,800	7,280	5,460	3,720	3,230	27,100
31	3,830	------	13,300	4,800	------	10,100	------	7,740	------	3,520	2,990	------
TOTAL	117,460	84,250	492,370	328,120	146,380	263,130	905,500	460,030	302,820	198,160	105,620	281,840
MEAN	3,789	2,808	15,880	10,580	5,048	8,488	30,180	14,840	10,090	6,392	3,407	9,395
MAX	7,030	3,580	34,800	19,700	6,290	13,500	60,000	27,700	22,100	11,200	5,570	27,100
MIN	2,890	2,490	2,410	4,000	4,000	5,120	11,300	6,740	5,300	3,520	2,720	2,080
CFSM	.34	.25	1.43	.95	.45	.76	2.72	1.34	.91	.58	.31	.85
IN.	.39	.28	1.65	1.10	.49	.88	3.03	1.54	1.01	.66	.35	.94

CAL YR 1971 TOTAL 2,885,070 MEAN 7,904 MAX 40,200 MIN 1,450 CFSM .71 IN 9.67
WTR YR 1972 TOTAL 3,685,680 MEAN 10,070 MAX 60,000 MIN 2,080 CFSM .91 IN 12.35

03340800 Big Raccoon Creek near Fincastle, Ind.

LOCATION.—Lat 39°48'45", long 86°57'14", in NW 1/4 SW 1/4 sec.22, T.16 N., R.5 W., Putnam County, on left bank at downstream side of county road bridge, 1.6 miles upstream from Ramp Creek, and 3.1 miles west of Fincastle.

DRAINAGE AREA.—132 sq mi.

PERIOD OF RECORD.—August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

GAGE.—Water-stage recorder. Datum of gage is 686.03 ft above mean sea level.

AVERAGE DISCHARGE.—15 years, 125 cfs (12.86 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,370 cfs Apr. 7 (gage height, 11.16 ft); minimum daily, 12 cfs Sept. 20.
Period of record: Maximum discharge, 15,100 cfs Jan. 26, 1962; maximum gage height, 15.68 ft Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 cfs Sept. 16, 17, and Oct. 5, 6, 1964.
Flood of June 28, 1957, reached a stage of 19.10 ft, discharge, 39,900 cfs from slope-area measurement.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1909: 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	23	240	72	129	52	130	102	59	20	14
2	22	20	22	198	75	276	52	122	73	46	20	14
3	20	19	20	167	74	246	55	106	60	415	40	14
4	19	19	19	150	50	171	176	97	52	178	32	14
5	21	18	19	135	45	129	159	90	46	100	24	13
6	20	17	27	125	48	107	123	82	60	66	36	13
7	17	16	412	120	49	105	2,150	77	117	50	55	13
8	17	16	528	110	48	88	1,050	79	70	41	32	15
9	17	16	289	138	45	70	513	103	67	36	24	25
10	17	16	286	222	46	69	360	99	98	33	20	18
11	17	16	520	182	48	66	268	81	83	30	19	15
12	16	16	316	152	53	69	507	72	59	27	57	13
13	15	15	206	141	55	67	438	75	146	25	69	13
14	15	15	1,060	107	57	67	292	80	423	23	38	15
15	14	15	3,000	50	110	60	218	83	884	23	42	18
16	14	15	1,410	80	88	62	732	89	445	47	35	17
17	14	15	570	100	75	63	579	81	221	30	25	15
18	13	14	360	110	79	57	325	68	151	25	21	14
19	13	15	258	110	65	52	236	62	115	78	18	13
20	13	16	214	110	60	49	1,870	57	93	52	17	12
21	13	16	186	132	62	49	1,780	53	77	30	18	13
22	21	16	162	156	61	55	1,820	51	64	24	16	13
23	75	15	155	206	57	51	876	49	55	20	16	14
24	60	15	152	168	67	46	504	46	50	74	88	22
25	48	14	140	135	66	44	325	43	47	292	60	29
26	39	14	140	100	79	44	250	40	44	105	31	91
27	33	15	128	84	85	46	194	38	41	59	22	336
28	30	16	116	75	92	50	160	36	47	42	19	243
29	27	18	100	65	105	49	148	65	104	33	17	225
30	23	20	268	60	------	57	143	216	105	27	15	328
31	22	------	378	68	------	53	------	167	------	23	15	------
TOTAL	731	489	11,484	3,996	1,916	2,546	16,355	2,537	3,999	2,113	961	1,612
MEAN	23.6	16.3	370	129	66.1	82.1	545	81.8	133	68.2	31.0	53.7
MAX	75	21	3,000	240	110	276	2,150	216	884	415	88	336
MIN	13	14	19	50	45	44	52	36	41	20	15	12
CFSM	.18	.12	2.80	.98	.50	.62	4.13	.62	1.01	.52	.23	.41
IN.	.21	.14	3.24	1.13	.54	.72	4.61	.71	1.13	.60	.27	.45

CAL YR 1971 TOTAL 45,965.1 MEAN 126 MAX 3,000 MIN 7.3 CFSM .95 IN 12.95
WTR YR 1972 TOTAL 48,739.0 MEAN 133 MAX 3,000 MIN 12 CFSM 1.01 IN 13.74

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0830	10.92	3,190	04-21	2200	9.78	2,570
04-07	1900	11.16	3,370				

03340800 Big Raccoon Creek near Fincastle, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	---	---	---	---	---	---	---	1.0	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	9.0	---	---	---	---	---	---	---	---	---
5	---	---	---	---	6.0	---	---	---	---	---	1.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	7.0	---	---	---	---	---	---	---
8	---	---	---	---	7.0	---	---	---	1.0	---	---	---
9	---	---	2.0	---	---	---	3.0	---	---	---	2.0	---
10	---	---	---	---	8.0	---	---	---	---	---	---	---
11	---	---	---	---	7.0	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	4.0	---	---	---	1.0	---	1.0	---	3.0	---
14	---	---	---	---	7.5	---	---	---	---	---	---	---
15	---	---	---	---	7.5	---	---	---	---	---	---	---
16	---	---	---	---	7.0	---	2.0	---	---	---	---	---
17	---	---	---	---	---	---	---	---	0.5	---	---	---
18	---	---	6.0	---	---	---	---	---	---	---	3.0	---
19	---	---	---	---	2.0	---	0.0	---	---	---	---	---
20	---	---	---	---	---	---	---	---	1.0	---	---	---
21	---	---	---	---	---	---	---	---	---	---	6.0	---
22	---	---	---	---	---	---	2.0	---	---	---	8.0	---
23	---	---	4.0	---	---	---	---	---	---	---	---	---
24	---	---	---	---	3.0	---	---	---	---	---	---	---
25	---	---	---	---	---	---	1.0	---	1.0	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	4.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	1.0	---	---	---
29	---	---	---	---	3.0	---	1.0	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	21.0	---	---	---	26.0	---
2	3.0	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	20.0	---	23.0	---	---	---
4	---	---	---	---	16.0	---	19.0	---	---	---	21.0	---
5	---	---	---	---	---	---	20.0	---	---	---	---	---
6	---	---	12.0	---	---	---	---	---	23.0	---	---	---
7	4.0	---	---	---	16.0	---	21.0	---	---	---	21.0	---
8	3.5	---	---	---	---	---	---	---	---	---	---	---
9	3.0	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	22.0	---	23.0	---
11	---	---	12.0	---	15.0	---	---	---	19.0	---	---	---
12	4.0	---	---	---	---	---	28.0	---	21.0	---	---	---
13	---	---	---	---	16.0	---	22.0	---	---	---	23.0	---
14	---	---	---	---	19.0	---	---	---	22.0	---	23.0	---
15	5.0	---	---	---	20.0	---	---	---	---	---	---	---
16	6.5	---	---	---	20.0	---	---	---	---	---	---	---
17	4.0	---	13.0	---	20.0	---	20.0	---	---	---	---	---
18	---	---	---	---	---	---	---	---	26.0	---	22.0	---
19	---	---	---	---	20.0	---	---	---	---	---	---	---
20	8.0	---	---	---	---	---	---	---	---	---	---	---
21	9.0	---	14.0	---	---	---	28.0	---	---	---	---	---
22	10.0	---	---	---	---	---	---	---	26.0	---	22.0	---
23	---	---	---	---	21.0	---	---	---	---	---	---	---
24	---	---	---	---	---	---	22.0	---	---	---	20.0	---
25	9.0	---	---	---	---	---	22.0	---	---	---	21.0	---
26	---	---	---	---	21.0	---	23.0	---	24.0	---	21.0	---
27	---	---	14.0	---	---	---	---	---	---	---	20.0	---
28	12.0	---	---	---	---	---	---	---	---	---	19.0	---
29	---	---	---	---	20.0	---	---	---	25.0	---	18.0	---
30	---	---	16.5	---	21.0	---	---	---	---	---	15.0	---
31	---	---	---	---	---	---	22.0	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	28.0	.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

03340800 Big Raccoon Creek near Fincastle, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
DEC.							
07...	1700	70.0	728	12600	24800	10	17
29...	1700	3.0	365	2470	2430	16	23
APR.							
07...	1730	4.0	3240	8380	73300	19	30
22...	0800	10.0	2220	18800	113000	14	25
MAY							
30...	1540	15.0	234	400	153	60	73
JUNE							
13...	1700	16.0	210	5770	3270	17	26
15...	1200	20.0	1140	6440	19800	23	32
16...	0700	20.0	510	1540	2120	51	68

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC.							
07...	26	45	86	100	--	--	--
29...	34	59	91	100	--	--	--
APR.							
07...	41	62	78	99	100	--	--
22...	34	48	72	90	97	98	100
MAY							
30...	81	91	98	99	99	100	--
JUNE							
13...	40	66	97	99	100	--	--
15...	46	70	94	99	100	--	--
16...	79	89	96	99	100	--	--

03340870 Mansfield Lake at Ferndale, Ind.

LOCATION.—Lat 39°43'02", long 87°04'20", in SE 1/4 NE 1/4 sec.28, T.15 N., R.6 W., Parke County, in discharge tower of reservoir on Big Raccoon Creek at Ferndale, 4.4 miles upstream from Rocky Fork Creek, and 6.1 miles northeast of Mansfield.

DRAINAGE AREA.—208 sq mi.

PERIOD OF RECORD.—December 1960 to current year. Prior to September 1970, published as Mansfield "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 600.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 57,360 acre-ft Apr. 26 (elevation, 664.77 ft); minimum, 16,210 acre-ft Jan. 26 (elevation, 640.02 ft).
Period of record: Maximum contents, 87,510 acre-ft May 4, 1964 (elevation, 676.52 ft); minimum, 16,080 acre-ft many times (elevation, 639.9 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4 ft wide and 8 ft high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 16,180 acre-ft (elevation, 640 ft). Seasonal pool capacity is 49,300 acre-ft (elevation, 661 ft). Capacity at uncontrolled spillway elevation (690 ft) is 133,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	655.84	39,270	-
Oct. 31	648.87	27,730	-11,540
Nov. 30	640.17	16,370	-11,360
Dec. 31	640.86	17,130	+760
Calendar year 1971	-	-	+800
Jan. 31	640.17	16,370	-760
Feb. 29	640.21	16,420	+50
Mar. 31	640.35	16,570	+150
Apr. 30	661.76	50,840	+34,270
May 31	661.41	50,110	-730
June 30	661.17	49,600	-510
July 31	661.05	49,350	-250
Aug. 31	661.10	49,460	+110
Sept. 30	656.76	40,940	-8,520
Water year 1972	-	-	+1,670

03340900 Big Raccoon Creek at Ferndale, Ind.

LOCATION.—Lat 39°41'44", long 87°05'01", in SE 1/4 SW 1/4 sec.33, T.15 N., R.6 W., Parke County, on right bank 1.1 miles southwest of Ferndale, 1.8 miles northeast of Mansfield, 2.0 miles upstream from Rocky Fork Creek, and 2.1 miles downstream from Mansfield Lake.

DRAINAGE AREA.—215 sq mi.

PERIOD OF RECORD.—October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Ferndale.

GAGE.—Water-stage recorder. Datum of gage is 582.36 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.—16 years, 207 cfs (13.07 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,860 cfs Dec. 22 (gage height, 7.33 ft); minimum daily, 17 cfs Apr. 1, 2.
Period of record: Maximum discharge, 40,500 cfs June 28, 1957 (gage height, 19.87 ft) from rating curve extended above 5,000 cfs on basis of records for station at Mansfield; minimum daily, 2.7 cfs Oct. 11, 1956.

REMARKS.—Records good. Flow regulated since October 1960, by Mansfield Lake (See sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	519	319	98	581	134	203	17	737	411	142	29	29
2	336	256	42	433	135	195	17	272	161	119	29	30
3	289	255	41	314	124	76	19	214	124	98	31	30
4	266	219	40	255	93	234	20	191	110	237	30	29
5	243	201	40	226	63	428	18	155	78	225	29	86
6	238	201	42	215	63	393	18	136	77	142	73	165
7	224	199	369	199	80	288	48	123	76	116	99	182
8	218	199	711	229	91	199	31	123	76	60	98	206
9	217	198	703	249	90	139	25	123	119	32	98	218
10	215	217	487	296	76	107	24	123	190	31	52	218
11	213	226	508	318	67	117	23	123	120	31	31	256
12	212	226	586	257	67	115	26	124	73	30	92	292
13	200	188	450	227	76	118	28	126	93	30	99	292
14	184	169	364	174	89	131	25	126	179	30	102	296
15	184	85	188	101	123	139	24	127	294	31	101	292
16	182	36	131	80	161	139	59	127	313	31	76	292
17	182	35	123	106	165	125	33	128	626	30	31	292
18	182	134	119	120	166	117	28	129	626	32	30	292
19	194	344	606	190	131	95	29	115	625	44	30	291
20	264	341	947	231	102	69	70	100	622	71	29	289
21	292	339	1,360	201	102	40	59	86	584	71	29	239
22	377	336	1,780	199	110	107	78	70	403	71	29	212
23	355	251	1,800	283	110	131	106	61	145	71	31	213
24	176	208	1,740	291	111	74	99	61	76	82	31	218
25	82	206	1,690	239	131	74	97	61	75	124	30	217
26	59	205	1,630	138	143	74	493	55	74	147	30	276
27	54	204	888	88	151	74	1,000	41	73	147	29	356
28	53	203	247	106	166	74	1,000	41	77	148	29	406
29	148	203	213	116	167	76	1,010	46	75	81	29	350
30	378	202	228	128	------	53	999	204	117	31	29	155
31	377	------	415	134	------	18	------	421	------	30	29	------
TOTAL	7,113	6,405	18,586	6,724	3,287	4,222	5,523	4,569	6,692	2,565	1,514	6,719
MEAN	229	214	600	217	113	136	184	147	223	82.7	48.8	224
MAX	519	344	1,800	581	167	428	1,010	737	626	237	102	406
MIN	53	35	40	80	63	18	17	41	73	30	29	29

CAL YR 1971 TOTAL 73,953 MEAN 203 MAX 1,800 MIN 18
WTR YR 1972 TOTAL 73,919 MEAN 202 MAX 1,800 MIN 17

03341300 Big Raccoon Creek at Coxville, Ind.

LOCATION.—Lat 39°39'09", long 87°17'37", in SW 1/4 SW 1/4 sec.15, T.14 N., R.8 W., Parke County, on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mile upstream from Rock Run, 1.5 miles downstream from Little Raccoon Creek, and 2.1 miles northwest of Rosedale.

DRAINAGE AREA.—440 sq mi.

PERIOD OF RECORD.—October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Coxville.

GAGE.—Water-stage recorder. Datum of gage is 494.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.—16 years, 438 cfs (13.52 inches per year).

EXTREMES.—Current year: Maximum discharge, 7,560 cfs Dec. 15 (gage height, 13.37 ft); minimum daily, 74 cfs Sept. 5.
Period of record: Maximum discharge, 108,000 cfs June 28, 1957 (gage height, 21.23 ft) from rating curve extended above 35,000 cfs on basis of an estimate made by a slope-area study; minimum daily, 6.5 cfs Oct. 10, 1956.

REMARKS.—Records good. Flow regulated by Mansfield Lake (See sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	677	446	220	967	250	355	127	1,480	796	252	88	75
2	515	328	121	897	240	581	126	890	443	240	87	75
3	383	313	108	644	230	353	130	638	300	252	92	77
4	368	295	103	596	210	325	224	572	272	338	103	77
5	323	252	98	485	180	623	192	488	218	392	90	74
6	298	252	113	443	160	629	166	422	196	254	159	127
7	283	246	939	419	170	545	967	373	184	230	174	148
8	266	242	1,220	404	180	407	985	360	172	172	148	174
9	268	242	1,060	503	180	315	500	355	220	137	139	196
10	260	244	1,170	581	166	258	378	325	343	122	127	198
11	254	266	1,160	611	154	252	313	305	260	115	96	206
12	250	266	1,050	560	157	248	368	293	190	110	208	264
13	248	254	918	476	166	246	545	298	449	107	204	272
14	226	208	3,040	413	186	244	404	305	2,270	104	162	300
15	220	192	5,400	345	264	250	315	298	2,300	103	283	295
16	260	116	1,850	280	290	252	1,580	295	1,190	104	182	293
17	228	105	1,220	220	290	244	950	272	1,250	103	130	290
18	222	100	936	260	308	222	608	258	1,100	99	107	293
19	222	303	852	335	268	208	485	244	1,020	99	97	295
20	256	386	1,400	410	216	180	2,290	216	971	113	92	295
21	338	392	1,480	407	212	151	1,780	194	925	119	87	278
22	425	392	2,030	416	218	196	2,250	178	789	118	85	222
23	521	363	2,140	497	214	248	1,390	154	479	115	86	224
24	363	254	2,100	524	242	184	1,030	147	293	140	95	248
25	210	248	2,040	473	244	170	789	142	250	162	86	250
26	164	244	1,980	330	253	162	719	137	226	180	83	315
27	141	246	1,740	250	288	166	1,430	127	206	186	81	1,050
28	131	244	726	210	315	164	1,450	119	214	180	80	855
29	126	248	557	230	325	172	1,510	159	224	162	78	1,020
30	358	246	740	250	------	178	1,630	1,010	230	107	77	638
31	449	------	782	250	------	137	------	796	------	93	76	------
TOTAL	9,253	7,933	39,293	13,686	6,616	8,665	25,631	11,850	17,980	5,008	3,682	9,124
MEAN	298	264	1,268	441	228	280	854	382	599	162	119	304
MAX	677	446	5,400	967	325	629	2,290	1,480	2,300	392	283	1,050
MIN	126	100	98	210	154	137	126	119	172	93	76	74
CFSM	.68	.60	2.88	1.00	.52	.64	1.94	.87	1.36	.37	.27	.69
IN.	.78	.67	3.32	1.16	.56	.73	2.17	1.00	1.52	.42	.31	.77

CAL YR 1971 TOTAL 158,032 MEAN 433 MAX 5,400 MIN 68 CFSM .98 IN 13.36
WTR YR 1972 TOTAL 158,721 MEAN 434 MAX 5,400 MIN 74 CFSM .99 IN 13.42

03341500 Wabash River at Terre Haute, Ind.

LOCATION.—Lat 39°28'00", long 87°25'08", in NE 1/4 SW 1/4 sec.21, T.12 N., R.9 W., Vigo County, on left bank at upstream side of Wabash Avenue bridge at Terre Haute, 2.2 miles upstream from Sugar Creek, 4 miles downstream from Lost Creek, and at mile 214.4.

DRAINAGE AREA.—12,200 sq mi, approximately.

PERIOD OF RECORD.—August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year. Gage-height records collected at site 3,300 ft upstream June 1891 to June 1897 and since December 1904 are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 442.90 ft above mean sea level. See WSP 1725 for history of changes prior to Oct. 27, 1928.

AVERAGE DISCHARGE.—45 years, 10,230 cfs (11.39 inches per year).

EXTREMES.—Current year: Maximum discharge, 58,900 cfs Apr. 24 (gage height, 22.53 ft); minimum daily, 2,640 cfs Sept. 7. Period of record: Maximum discharge, 189,000 cfs May 20, 1943 (gage height, 30.50 ft); minimum daily, 701 cfs Aug. 3, 1934. Flood of Mar. 27, 1913, reached a stage of 31.1 ft (present site and datum), discharge, 245,000 cfs.

REMARKS.—Records good. Natural flow affected by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 205: 1905. WSP 1335: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,400	4,010	3,350	16,400	4,400	5,470	11,900	30,800	8,420	5,500	3,660	3,100
2	6,620	3,990	3,420	19,500	5,000	6,040	14,100	28,800	7,930	5,310	3,500	2,910
3	5,450	3,770	3,280	20,500	6,140	6,770	13,100	27,100	7,720	7,500	3,440	2,810
4	4,780	3,770	3,380	20,100	6,380	7,460	11,900	25,200	8,710	11,600	3,400	2,910
5	4,300	3,600	3,140	18,900	5,630	10,100	12,300	21,800	10,800	8,420	3,350	2,700
6	4,100	3,470	3,150	16,800	4,770	11,600	11,800	18,500	8,040	7,200	3,630	2,760
7	3,780	3,450	3,770	14,200	4,270	13,300	13,900	16,400	9,230	7,330	4,380	2,640
8	3,680	3,350	6,350	12,400	4,780	13,600	22,300	15,100	10,100	7,570	3,880	3,010
9	3,890	3,310	7,610	11,600	5,050	11,600	25,000	14,700	8,630	6,920	3,820	6,770
10	3,670	3,240	11,400	11,000	4,990	10,000	27,300	15,100	7,790	5,910	3,770	6,400
11	3,600	3,290	15,400	10,700	5,020	8,440	28,000	17,400	8,200	5,150	3,640	5,100
12	3,600	3,430	18,500	10,700	5,000	7,190	28,400	18,100	7,800	4,680	3,920	4,300
13	3,600	3,290	20,400	11,600	5,080	6,010	28,700	16,800	6,850	4,380	4,510	3,850
14	3,630	3,280	21,000	12,500	5,180	6,200	28,000	15,700	16,400	4,090	5,000	3,740
15	3,600	3,420	28,100	10,800	5,530	6,960	26,800	15,000	21,900	3,870	6,110	4,900
16	3,740	3,240	31,300	6,000	5,950	9,700	28,600	15,500	22,700	5,830	5,000	12,500
17	3,710	3,140	32,800	4,700	6,200	12,400	30,400	17,200	22,500	5,400	4,200	15,200
18	3,610	3,180	33,800	4,200	6,390	13,000	29,800	18,100	21,300	5,260	3,850	13,700
19	3,600	3,220	34,000	5,400	6,820	12,400	28,900	17,500	17,200	5,640	3,880	11,600
20	3,490	3,290	32,500	6,770	6,410	11,100	30,800	16,800	13,500	7,130	3,660	10,400
21	3,430	3,360	30,400	11,000	6,220	9,620	36,900	15,500	11,100	8,260	3,400	11,400
22	3,530	3,320	26,600	11,100	6,060	8,510	47,200	14,300	9,500	8,900	3,140	11,400
23	3,520	3,250	22,700	10,500	5,750	7,840	56,600	13,500	8,220	9,260	3,100	10,400
24	3,770	3,330	20,700	11,000	5,420	7,430	58,500	12,300	7,200	8,540	3,210	9,230
25	3,950	3,240	19,300	11,400	5,310	7,350	56,100	10,900	6,470	7,660	3,220	9,050
26	4,190	3,150	17,900	11,600	5,320	7,460	52,100	9,350	6,070	6,430	3,310	11,900
27	4,880	3,260	15,300	10,600	5,320	7,190	46,600	8,240	5,770	5,470	3,700	17,300
28	5,160	3,210	12,900	9,570	5,150	7,300	40,500	7,540	5,500	4,980	4,000	21,800
29	4,930	3,290	11,300	8,380	5,230	7,680	35,600	7,130	5,500	4,400	3,810	22,900
30	4,330	3,360	11,000	6,400	------	8,270	32,500	7,890	5,470	4,080	3,530	25,400
31	4,270	------	13,000	5,200	------	9,590	------	8,940	------	3,850	3,350	------
TOTAL	129,810	101,510	517,750	351,520	158,770	277,580	914,600	497,190	316,520	196,520	118,370	272,080
MEAN	4,187	3,384	16,700	11,340	5,475	8,954	30,490	16,040	10,550	6,339	3,818	9,069
MAX	7,400	4,010	34,000	20,500	6,820	13,600	58,500	30,800	22,700	11,600	6,110	25,400
MIN	3,430	3,140	3,140	4,200	4,270	5,470	11,800	7,130	5,470	3,850	3,100	2,640
CFSM	.34	.28	1.37	.93	.45	.73	2.50	1.31	.86	.52	.31	.74
IN.	.40	.31	1.58	1.07	.48	.85	2.79	1.52	.97	.60	.36	.83

CAL YR 1971 TOTAL 3,209,430 MEAN 8,793 MAX 47,400 MIN 1,700 CFSM .72 IN 9.79
WTR YR 1972 TOTAL 3,852,220 MEAN 10,530 MAX 58,500 MIN 2,640 CFSM .86 IN 11.75

03341920 Wabash River at Hutsonville, Ill.

LOCATION.—Lat 39°06'37", long 87°39'18", Crawford County, Illinois, Sullivan County, Indiana, at center of bridge (state line) on Indiana State Highway 154, 0.2 mile northeast of Hutsonville, 0.3 mile downstream from Sewage Disposal Plant, and 0.5 mile upstream from Huston Creek.

DRAINAGE AREA.—12,700 sq mi, approximately.

PERIOD OF RECORD.—Chemical analyses: July 1969 to September 1972.

REMARKS.—Records of discharge are available for Wabash River at Riverton, Ind. (03342000), drainage area, 13,100 sq mi, approximately.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
07...	0900	18.0	9.5	600	8.0	7.0	74	6.6	48700	6800
NOV.										
03...	0930	16.0	9.0	650	7.4	5.3	54	5.2	100000	47000
DEC.										
01...	1330	7.5	--	--	--	--	--	--	--	--
01...	1330	7.8	.5	750	8.4	11.0	92	4.8	5670	820
JAN.										
04...	0915	1.5	-16.0	650	8.8	10.4	74	4.8	16300	4000
FEB.										
02...	0930	2.5	1.5	775	9.0	12.2	90	5.2	78000	1440
MAR.										
08...	1000	3.0	8.0	700	9.1	12.6	93	7.2	12000	480
APR.										
05...	1030	9.0	12.0	630	8.1	12.0	103	7.0	53000	480
MAY										
11...	1100	17.0	19.0	550	8.8	7.8	80	3.4	8400	860
JUNE										
01...	0930	22.0	20.0	540	7.4	6.5	74	7.6	5333	1160
JULY										
20...	0930	27.5	33.0	575	8.1	7.2	90	8.0	55000	1320
AUG.										
24...	1100	29.0	29.0	530	7.6	5.7	73	4.6	12500	1700
SEP.										
21...	0900	25.0	25.0	550	8.2	5.8	69	4.0	49000	500

DATE	TIME	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY											
20...	0930	.43	.040	2.2	1.6	.010	.28	340	.46	508	168
AUG.											
24...	1100	.71	.040	.50	1.6	.070	.21	316	.43	374	58
SEP.											
21...	0900	.60	.060	2.8	1.6	.11	.35	350	.48	560	210

03342000 Wabash River at Riverton, Ind.

LOCATION.—Lat 39°01'13", long 87°34'07", in NE 1/4 SW 1/4 sec.30, T.7 N., R.10 W., Sullivan County, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.6 mile downstream from Turtle Creek, and at mile 162.0.

DRAINAGE AREA.—13,100 sq mi, approximately.

PERIOD OF RECORD.—October 1938 to current year. Prior to April 1939 monthly discharge only, published in WSP 1305. June 1911 to December 1914 (gage heights only) available in the Corps of Engineers office, Louisville, Ky.

GAGE.—Water-stage recorder. Datum of gage is 414.65 ft above mean sea level. Prior to July 17, 1951, nonrecording gage at same site and datum, read twice daily.

AVERAGE DISCHARGE.—34 years, 11,010 cfs (11.42 inches per year).

EXTREMES.—Current year: Maximum discharge, 61,700 cfs Apr. 26 (gage height, 20.30 ft); minimum daily, 2,400 cfs Sept. 8.
Period of record: Maximum discharge, 201,00 cfs May 21, 1943 (gage height, 29.36 ft); minimum daily, 858 cfs Sept. 27-30, 1941.
Flood of Mar. 28, 1913, reached a stage of 26.4 ft, from graph based on once-daily readings by Illinois Central Railroad Co. (discharge, 250,000 cfs).

REMARKS.—Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).—WSP 1335: 1939, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,930	4,240	3,190	14,300	6,310	5,790	10,000	46,300	9,450	6,030	4,160	3,270
2	7,270	4,030	3,200	17,100	5,480	7,420	12,400	41,800	8,910	6,020	3,950	2,970
3	6,520	3,920	3,250	19,500	5,520	8,130	13,700	37,500	8,430	5,920	3,900	2,760
4	5,450	3,670	3,170	20,200	6,210	7,810	12,800	33,800	8,350	9,540	3,990	2,630
5	4,780	3,650	3,200	20,000	6,470	8,460	12,200	30,600	9,630	10,900	3,750	2,660
6	4,310	3,440	2,990	18,800	5,840	10,600	12,300	26,600	10,600	8,650	3,570	2,490
7	4,090	3,310	3,230	16,600	5,030	11,900	12,200	21,500	8,910	7,760	4,050	2,430
8	3,770	3,280	4,510	14,200	4,660	13,300	17,900	18,400	9,820	7,930	4,640	2,400
9	3,670	3,170	6,520	12,700	5,040	13,000	22,500	16,600	10,200	7,940	4,180	3,030
10	3,770	3,110	8,170	12,200	5,250	10,800	25,000	15,800	9,060	7,430	4,040	6,580
11	3,530	3,050	12,000	11,600	5,230	8,910	26,300	16,300	8,410	6,410	3,980	6,400
12	3,440	3,160	15,400	11,100	5,250	7,550	28,200	18,000	8,600	5,630	3,890	5,250
13	3,440	3,250	18,000	11,200	5,260	6,580	29,600	18,300	8,180	5,120	4,130	4,430
14	3,470	3,130	19,700	12,000	5,340	6,220	30,700	17,200	8,810	4,820	4,640	3,920
15	3,470	3,050	23,500	12,200	5,520	6,420	30,800	16,100	18,600	4,490	5,360	3,770
16	3,490	3,110	27,200	10,400	5,870	7,500	33,800	15,600	21,300	4,400	6,280	5,920
17	3,680	3,020	28,400	7,850	6,270	10,300	35,500	16,200	21,900	6,100	5,450	12,400
18	3,550	2,890	29,600	5,740	6,490	12,400	35,200	17,600	21,800	5,860	4,500	14,200
19	3,490	2,930	31,000	5,670	6,720	12,700	34,500	18,000	20,300	5,740	4,110	13,200
20	3,380	2,950	32,700	6,030	6,950	12,200	36,600	17,500	16,800	6,230	4,050	11,300
21	3,220	3,020	34,000	7,630	6,610	10,900	37,700	16,800	13,500	7,660	3,790	10,400
22	3,260	3,140	34,200	11,000	6,390	9,650	42,200	15,600	11,300	8,550	3,500	11,100
23	3,280	3,140	32,300	11,200	6,280	8,660	46,200	14,500	9,860	9,130	3,170	11,100
24	3,290	3,110	28,500	10,800	6,060	8,150	52,100	13,700	8,720	9,400	3,050	10,200
25	3,640	3,140	24,300	11,200	5,810	7,760	58,500	12,500	7,800	8,960	3,150	9,290
26	3,860	3,070	20,900	11,500	5,930	7,710	61,400	11,200	7,110	8,130	3,100	9,670
27	4,220	3,010	18,600	11,500	5,960	7,730	61,000	9,810	6,670	7,080	3,210	12,800
28	4,870	3,070	15,700	10,500	5,810	7,520	58,400	8,810	6,370	6,010	3,660	17,700
29	5,080	3,070	13,200	9,430	5,620	7,700	54,900	8,180	6,100	5,400	4,010	21,000
30	4,840	3,100	12,300	8,650	------	8,020	50,800	8,030	6,130	4,790	3,860	22,500
31	4,370	------	12,600	7,650	------	8,690	------	9,020	------	4,420	3,530	------
TOTAL	130,430	97,230	525,530	370,450	169,180	280,480	995,400	587,850	331,620	212,450	124,650	247,770
MEAN	4,207	3,241	16,950	11,950	5,834	9,048	33,180	18,960	11,050	6,853	4,021	8,259
MAX	7,930	4,240	34,200	20,200	6,950	13,300	61,400	46,300	21,900	10,900	6,280	22,500
MIN	3,220	2,890	2,990	5,670	4,660	5,790	10,000	8,030	6,100	4,400	3,050	2,400
CFSM	.32	.25	1.29	.91	.45	.69	2.53	1.45	.84	.52	.31	.63
IN.	.37	.28	1.49	1.05	.48	.80	2.83	1.67	.94	.60	.35	.70

CAL YR 1971 TOTAL 3,337,760 MEAN 9,145 MAX 47,400 MIN 1,520 CFSM .70 IN 9.48
WTR YR 1972 TOTAL 4,073,040 MEAN 11,130 MAX 61,400 MIN 2,400 CFSM .85 IN 11.57

03342000 Wabash River at Riverton, Ind.—Continued

PERIOD OF RECORD.—Water temperature: July 1954 to September 1961, October 1962 to September 1965, October 1967 to September 1972.

EXTREMES.—1971-72:
Water temperatures: Maximum, 26.0°C Aug. 19; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 33.0°C July 20, Aug. 29, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.—Temperatures affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	24.0	18.0	17.0	7.5	7.5	5.5	5.0	0.5	0.0	9.0	7.5
2	25.0	24.5	18.0	17.5	7.5	7.0	5.0	4.0	2.5	0.0	9.0	7.5
3	25.5	24.5	17.5	16.0	7.0	6.5	4.5	3.5	3.0	2.0	7.5	6.5
4	25.0	24.0	16.0	15.0	7.5	6.5	4.5	4.0	2.5	1.0	7.0	6.5
5	25.0	23.0	15.0	14.0	8.0	7.5	4.0	3.5	1.5	0.5	6.5	5.5
6	23.5	22.5	14.0	12.5	8.5	8.0	3.5	2.5	1.0	1.0	6.0	4.5
7	22.5	20.5	12.5	10.5	9.5	8.5	2.5	1.5	1.5	1.0	5.0	4.0
8	20.5	19.5	10.5	9.5	10.0	9.5	2.0	1.5	2.5	1.5	4.5	3.5
9	19.5	18.0	9.5	9.0	10.0	8.5	2.5	2.0	2.5	2.0	4.0	3.0
10	18.5	17.0	9.5	9.0	9.5	8.5	3.0	2.0	2.5	2.0	4.5	3.5
11	17.5	16.0	9.5	8.5	9.5	8.0	3.5	3.0	3.0	2.0	5.5	4.0
12	16.5	16.0	10.0	9.0	8.0	7.5	3.5	3.0	3.5	3.0	7.0	5.5
13	16.5	16.0	11.0	9.5	7.5	7.0	4.0	3.5	3.5	3.0	8.5	7.0
14	16.5	16.0	12.5	11.0	7.0	6.0	3.5	2.5	3.5	2.5	9.0	7.5
15	17.0	16.5	14.0	12.5	6.5	6.0	2.5	0.0	4.0	3.5	9.0	9.0
16	18.0	17.0	15.0	14.0	7.5	6.5	0.0	0.0	4.0	3.5	9.5	8.5
17	18.5	18.0	15.5	15.0	7.5	7.0	0.0	0.0	4.0	3.0	9.0	8.0
18	19.0	18.5	16.0	15.5	7.0	5.0	2.0	0.0	3.0	2.5	8.0	6.5
19	20.0	19.0	16.0	14.5	5.0	3.5	4.0	2.0	2.5	2.0	7.0	6.0
20	20.5	19.5	14.5	13.0	3.5	3.0	6.0	4.0	2.0	0.5	8.0	6.5
21	21.0	20.5	13.0	11.0	3.5	3.5	6.0	4.0	2.0	1.0	9.5	8.0
22	22.0	21.0	11.0	10.0	3.5	3.0	4.0	1.0	3.0	2.0	10.0	9.5
23	22.5	22.0	10.0	9.0	4.0	3.5	3.5	1.5	3.0	3.0	10.0	9.0
24	22.0	21.5	9.0	8.5	4.5	4.0	4.0	3.0	3.0	2.5	9.5	9.0
25	21.5	21.0	8.5	7.5	4.5	4.5	4.0	3.0	3.5	2.5	9.0	8.5
26	21.0	20.5	7.5	6.5	5.0	4.0	3.0	1.5	4.5	3.0	9.0	8.5
27	20.5	20.0	6.5	6.0	6.5	5.0	2.0	0.0	4.5	4.0	9.0	8.0
28	20.0	19.5	6.5	6.0	6.5	6.0	0.5	0.0	5.5	4.0	8.5	8.0
29	19.5	19.0	7.0	6.5	6.0	6.0	0.0	0.0	7.5	5.0	8.5	8.0
30	19.5	18.5	7.5	7.0	6.5	6.0	0.0	0.0	---	---	8.5	7.5
31	19.0	18.0	---	---	6.0	5.5	0.0	0.0	---	---	9.0	8.0
MONTH	25.5	16.0	18.0	6.0	10.0	3.0	6.0	0.0	7.5	0.0	10.0	3.0

03342000 Wabash River at Riverton, Ind.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	15.0	14.0	---	---	---	---	23.5	22.5	24.5	23.5
2	8.0	7.5	15.0	14.5	---	---	---	---	23.0	22.5	24.5	24.0
3	7.5	7.0	16.0	15.0	---	---	---	---	23.0	22.0	24.0	23.0
4	8.0	7.0	16.0	15.0	---	---	---	---	23.5	23.0	23.0	21.5
5	9.0	7.5	16.0	15.5	---	---	---	---	23.0	22.5	22.0	20.5
6	10.5	8.5	17.5	16.0	---	---	---	---	22.5	21.5	21.0	20.5
7	11.5	10.5	18.5	17.5	---	---	---	---	22.0	21.0	21.5	21.0
8	11.5	9.5	19.0	18.5	---	---	---	---	21.5	20.5	22.5	21.5
9	9.5	7.0	18.5	18.0	---	---	---	---	21.5	21.0	23.0	22.0
10	7.0	6.0	18.0	17.5	---	---	---	---	22.0	21.0	22.0	21.0
11	7.5	6.0	17.5	16.5	---	---	---	---	22.0	21.0	21.5	21.0
12	9.5	7.5	17.0	16.5	---	---	---	---	22.5	22.0	22.5	21.0
13	11.5	9.5	17.5	17.5	---	---	---	---	22.5	22.0	23.0	22.0
14	12.0	11.5	18.5	17.5	---	---	---	---	23.0	22.5	23.0	23.0
15	13.0	12.0	18.5	18.0	---	---	---	---	23.0	22.0	23.0	22.0
16	13.5	13.0	18.5	18.0	---	---	---	---	22.0	21.5	23.0	22.0
17	13.5	12.5	19.0	18.0	---	---	---	---	22.5	22.0	22.0	21.5
18	14.0	12.5	19.0	18.5	---	---	---	---	24.0	22.5	22.0	21.5
19	14.5	13.5	19.5	18.5	---	---	---	---	26.0	24.0	22.5	21.0
20	15.5	14.5	20.5	19.5	---	---	---	---	25.0	24.5	23.0	22.0
21	15.5	14.5	21.5	20.5	---	---	---	---	24.5	24.0	23.0	22.5
22	14.5	13.5	22.0	21.0	---	---	---	---	25.0	24.0	23.0	21.5
23	14.0	13.5	22.5	21.5	---	---	---	---	25.5	25.0	22.0	21.5
24	13.5	12.0	22.5	21.0	---	---	---	---	25.5	24.5	21.5	21.0
25	13.0	12.0	23.0	22.0	---	---	---	---	25.0	24.5	21.0	21.0
26	12.5	11.5	23.5	22.0	---	---	---	---	25.0	24.5	21.0	20.5
27	13.0	12.0	24.0	23.0	---	---	---	---	25.0	24.0	20.5	20.0
28	13.5	12.5	24.0	23.0	---	---	---	---	24.0	23.0	20.0	20.0
29	13.5	13.0	23.5	22.5	---	---	---	---	24.0	23.0	20.0	20.0
30	14.0	13.0	22.5	21.0	---	---	---	---	24.0	23.5	20.0	18.5
31	---	---	21.0	20.0	---	---	---	---	24.5	24.0	---	---
MONTH	15.5	6.0	24.0	14.0	---	---	---	---	26.0	20.5	24.5	18.5

03342100 Busseron Creek near Hymera, Ind.

LOCATION.—Lat 39°12'54", long 87°18'41", in NW 1/4 NW 1/4 sec. 21, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 900 North, 1.9 miles northwest of Hymera, and 3.9 miles upstream from West Fork Busseron Creek.

DRAINAGE AREA.—16.7 sq mi.

PERIOD OF RECORD.—June 1966 to current year.

GAGE.—Water-stage recorder. Concrete control since Sept. 12, 1969. Datum of gage is 480.00 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.—6 years, 15.8 cfs (12.84 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,180 cfs Apr. 16 (gage height, 16.67 ft); minimum daily, 0.01 cfs Oct. 6-8, July 22, 23, Aug. 22.
Period of record: Maximum discharge, 1,450 cfs Dec. 8, 1966, Jan. 29, 1969; maximum gage height, 17.44 ft Jan. 29, 1969; no flow at times most years.

REMARKS.—Records fair except those for January and February, which are poor. Flow affected by Soil Conservation Service flood-water retarding structures.

REVISIONS.—Revised figures of discharge, in cubic feet per second, for the Water Year 1971, superseding those published in WRD Ind. 1971, are given herein:

Sept. 21.....	1.1	Sept. 24.....	0.21	Sept. 27.....	0.21
Sept. 22.....	.70	Sept. 24.....	.40	Sept. 28.....	.11
Sept. 23.....	.40	Sept. 26.....	.40	Sept. 29.....	.06
				Sept. 30.....	.04

Month	Cfs-days	Maximum	Minimum	Mean	Per Square Mile	Runoff in Inches
September 1971	9.47	3.4	0	0.32	.02	0.02
Water Year 1971	3,075.79	580	0	8.43	.50	6.85

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	.04	10	.45	31	2.5	28	.15	.21	.06	.21
2	.03	.06	.06	7.5	1.1	199	2.2	21	.15	.15	.04	.21
3	.04	.04	.04	5.0	1.2	73	2.7	13	.11	.11	20	.15
4	.03	.03	.04	4.0	1.3	56	4.7	11	.11	.04	35	.11
5	.02	.02	.04	3.3	1.0	40	3.6	16	.08	.04	17	.06
6	.01	.03	.40	3.5	.70	28	3.2	10	.11	.06	25	.04
7	.01	.04	5.3	3.2	.60	20	71	7.3	.11	.04	15	.04
8	.01	.02	1.8	2.7	.40	13	49	5.5	.04	.06	9.9	1.8
9	.04	.03	1.1	5.5	.70	9.9	30	6.1	.06	.04	5.7	.06
10	.03	.04	1.3	4.5	.70	7.4	19	4.6	.04	.06	3.2	.03
11	.02	.04	1.0	7.2	.45	5.9	20	3.7	.04	.04	2.1	.03
12	.02	.04	.60	5.0	1.2	4.5	183	2.9	.04	.06	2.1	.03
13	.03	.04	.50	4.0	1.7	4.4	102	4.5	.04	.04	1.8	.04
14	.04	.04	21	3.2	1.4	4.0	67	3.9	.08	.04	2.5	.06
15	.04	.04	39	2.5	2.4	3.4	51	3.3	13	.04	2.9	.04
16	.04	.04	20	2.0	2.6	3.7	415	2.9	3.5	.40	1.1	.04
17	.04	.04	11	1.0	2.2	3.3	95	2.0	2.0	.11	.60	.04
18	.04	.04	7.2	1.2	2.8	2.7	75	1.5	1.3	.04	.21	.04
19	.04	.15	5.3	1.5	2.5	2.1	72	1.3	.60	.03	.11	.04
20	.04	.04	5.1	1.8	2.7	2.0	160	1.0	.60	.02	.04	.04
21	.11	.04	4.0	2.0	2.0	2.0	183	.80	.30	.02	.02	.04
22	.60	.03	2.9	2.2	1.8	2.5	204	.60	.11	.01	.01	.04
23	.21	.03	2.5	2.5	2.5	1.8	79	.50	.04	.01	14	7.1
24	.15	.04	2.0	2.3	5.0	1.6	67	.40	.04	.11	12	1.4
25	.15	.04	1.6	2.0	4.5	1.5	54	.30	.04	1.1	6.7	.90
26	.11	.04	1.5	1.4	20	1.4	39	.21	.04	.60	4.2	14
27	.03	.15	1.3	1.2	14	1.5	31	.21	.04	.60	2.7	124
28	.04	.04	1.3	1.2	13	1.5	22	.21	1.6	.40	1.8	30
29	.04	.21	1.0	1.3	12	2.5	47	.21	.40	.15	1.3	172
30	.04	.11	35	1.1	------	2.7	42	.40	.70	.04	.40	62
31	.04	------	17	.85	------	2.2	------	.30	------	.04	.50	------
TOTAL	2.26	1.74	191.60	100.65	111.60	535.4	2,175.9	154.64	25.89	5.17	192.49	414.21
MEAN	.073	.058	6.18	3.25	3.85	17.3	72.5	4.99	.86	.17	6.21	13.8
MAX	.60	.21	39	10	20	199	415	28	13	1.1	35	172
MIN	.01	.02	.04	.85	.70	1.4	2.2	.21	.04	.01	.01	.03
CFSM	.004	.003	.37	.19	.23	1.04	4.34	.30	.05	.01	.37	.83
IN.	.005	.003	.43	.22	.25	1.19	4.85	.34	.06	.01	.43	.92

CAL YR 1971 TOTAL 3,193.70 MEAN 8.75 MAX 580 MIN 0 CFSM .52 IN 7.11
WTR YR 1972 TOTAL 3,912.15 MEAN 10.7 MAX 415 MIN .01 CFSM .64 IN 8.71

NOTE.—Ice effected Jan. 2 to Feb. 25.

03342150 West Fork Busseron Creek near Hymera, Ind.

LOCATION.—Lat 39°11'10", long 87°19'44", in NW 1/4 NW 1/4 sec.32, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on State Highway 48, 1.4 miles upstream from mouth, 1.5 miles west of Hymera, and 3.7 miles east of U.S. Highway 41.

DRAINAGE AREA.—14.4 sq mi.

PERIOD OF RECORD.—October 1966 to current year.

GAGE.—Water-stage recorder. Datum of gage is 476.00 ft above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.—6 years, 10.8 cfs (10.18 inches per year).

EXTREMES.—Current year: Maximum discharge, 724 cfs probably occurred Apr. 16 (gage height, 11.44 ft, from floodmark); minimum daily, 0.02 cfs Oct. 2.
Period of record: Maximum discharge, 1,230 cfs about Jan. 29, 1969 (gage height, 12.28 ft); no flow at times most years.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.07	.10	5.6	.75	27	2.2	13	1.1	1.1	.14	.10
2	.02	.07	.10	4.3	.45	45	2.2	10	.93	1.1	.14	.10
3	.04	.07	.10	3.2	1.0	40	2.4	7.5	.84	.60	.43	.10
4	.12	.04	.10	4.6	.75	30	4.6	7.7	.84	.54	16	.10
5	.10	.04	.10	4.3	.66	15	3.4	11	.84	.50	.93	.10
6	.04	.24	.22	3.6	.56	6.9	3.0	7.1	.93	.45	4.4	.10
7	.08	.15	6.9	2.3	.60	6.9	83	6.1	.93	.45	2.5	.10
8	.10	.04	3.7	2.1	.64	5.0	32	6.6	.93	.45	.37	1.6
9	.18	.04	1.6	3.0	.56	3.6	15	8.0	.93	.45	.15	.24
10	.15	.09	1.3	7.0	.56	3.7	9.0	5.0	.93	.45	.04	.15
11	.15	.13	1.0	4.5	.64	3.6	65	4.2	.93	.45	.04	.10
12	.10	.12	.90	3.0	.80	3.6	190	3.4	.84	.60	.10	.10
13	.04	.10	.80	2.0	1.4	3.4	70	5.6	.75	.36	.12	.10
14	.08	.04	39	1.4	1.3	3.2	35	5.6	.75	.30	.24	.31
15	.04	.04	109	.72	1.6	3.0	16	3.4	29	.45	.15	.25
16	.12	.12	25	.70	2.0	3.2	480	2.8	5.3	.90	.12	.20
17	.10	.12	5.3	.70	1.7	3.2	36	2.3	2.4	.70	.10	.17
18	.04	.12	2.4	.90	2.2	2.6	20	1.9	1.5	.45	.04	.14
19	.06	.14	2.3	1.2	2.0	2.3	19	1.5	1.1	.34	.04	.12
20	.04	.20	3.2	1.4	2.2	2.1	182	1.6	.58	.30	.04	.11
21	.06	.13	2.4	1.6	1.7	2.1	132	1.5	.43	.30	.04	.10
22	.15	.10	1.9	1.9	1.5	2.6	256	1.4	.43	.40	.15	.10
23	.12	.04	1.7	2.2	2.0	2.3	30	1.3	.37	.25	.66	1.4
24	.10	.13	1.6	1.9	2.7	1.9	18	1.2	.25	5.0	.22	1.1
25	.04	.14	1.6	1.5	7.1	1.8	13	1.1	.24	3.5	.14	1.1
26	.04	.12	1.6	1.1	21	1.6	10	1.0	.31	1.2	.15	5.4
27	.04	.15	1.6	1.1	13	1.6	8.0	.90	.37	1.6	.14	42
28	.04	.15	1.6	1.1	12	1.6	7.7	.84	3.2	.70	.12	4.7
29	.07	.14	1.3	1.2	12	2.6	24	.93	1.6	.60	.10	94
30	.07	.15	60	.90	------	2.8	24	1.2	1.1	.25	.10	2.6
31	.07	------	11	.70	------	2.2	------	1.6	------	.22	.10	------
TOTAL	2.30	3.56	269.42	70.72	95.75	338.6	1,792.5	127.57	60.68	25.20	29.29	167.81
MEAN	.074	.12	8.69	2.28	3.30	10.9	59.8	4.12	2.02	.81	.94	5.59
MAX	.18	.24	109	7.0	21	95	480	13	29	5.0	16	99
MIN	.02	.04	.10	.70	.56	1.6	2.2	.84	.24	.22	.04	.10
CFSM	.005	.008	.60	.15	.23	.76	4.15	.29	.14	.06	.07	.39
IN.	.007	.009	.70	.18	.25	.87	4.63	.33	.16	.07	.08	.43

CAL YR 1971 TOTAL 2,163.81 MEAN 5.93 MAX 344 MIN 0 CFSM .41 IN 5.59
WTR YR 1972 TOTAL 2,981.48 MEAN 8.15 MAX 480 MIN .02 CFSM .57 IN 7.70

PEAK DISCHARGE (BASE, 500 CFS).—Apr. 16 (unknown) 724 cfs (11.44 ft). Apr. 22 (0200) 644 cfs (11.26 ft).

03342250 Mud Creek near Dugger, Ind.

LOCATION.—Lat 39°06'28", long 87°16'42", in SE 1/4 NE 1/4 sec.27, T.8 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 700 East, 0.6 mile north of County Road 100 North, 1.7 miles upstream from mouth, and 2.5 miles northwest of Dugger.

DRAINAGE AREA.—11.9 sq mi.

PERIOD OF RECORD.—June 1966 to current year.

GAGE.—Water-stage recorder. Datum of gage is 466.41 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.—6 years, 13.2 cfs (15.06 inches per year).

EXTREMES.—Current year: Maximum discharge, 906 cfs Apr. 16 (gage height, 13.63 ft); minimum daily, 0.97 cfs Oct. 19, 20, 31.
Period of record: Maximum discharge, 906 cfs Apr. 16, 1972 (gage height, 13.63 ft); minimum daily, 0.44 cfs Nov. 22, 1968.

REMARKS.—Records good, except those for parts of January and February, which are poor. Flow affected by surface-mined areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.1	2.3	20	2.6	32	5.3	16	3.2	2.0	1.1	1.6
2	1.3	2.0	2.5	19	3.2	58	5.3	12	3.2	2.0	1.1	1.8
3	1.3	1.8	2.3	16	3.7	19	5.3	10	3.2	2.5	17	1.8
4	1.3	1.6	2.0	11	4.0	12	7.7	9.9	3.2	2.0	5.6	1.6
5	1.3	1.6	2.1	10	3.0	8.9	6.6	9.9	3.2	2.0	2.3	1.6
6	1.1	2.1	4.6	11	2.5	8.0	5.8	8.9	3.2	1.6	4.4	1.6
7	1.1	2.1	23	10	2.9	8.0	22	8.5	3.2	1.6	2.5	1.6
8	1.5	1.8	11	8.5	2.7	6.6	15	9.2	3.2	1.6	2.0	2.5
9	4.6	1.8	8.5	17	2.4	6.1	8.5	9.2	3.2	1.6	1.6	1.5
10	1.8	1.8	8.9	13	2.2	5.8	7.2	8.5	3.2	1.6	1.5	1.5
11	1.3	1.6	9.2	11	2.5	6.6	9.9	8.0	3.0	1.6	1.2	1.5
12	1.1	1.6	7.7	9.0	5.5	6.9	47	7.4	3.2	1.5	1.8	1.1
13	1.5	1.6	6.9	9.0	6.0	6.6	24	7.7	3.6	1.5	1.6	1.1
14	1.5	1.6	34	7.0	5.2	6.1	18	8.0	3.6	1.5	4.1	1.8
15	1.3	1.6	27	8.0	6.0	6.1	15	8.2	20	2.3	2.1	1.1
16	1.5	1.5	11	5.0	10	6.9	323	7.2	5.6	1.8	1.6	1.1
17	1.1	1.6	6.9	3.2	8.2	6.3	47	5.8	3.6	1.6	1.6	1.1
18	1.1	1.8	6.9	4.0	8.9	5.6	30	5.1	3.0	1.5	1.5	1.1
19	.97	2.3	6.9	6.0	9.2	5.3	37	4.8	2.7	1.5	1.5	1.1
20	.97	2.0	7.2	7.0	12	5.1	113	4.8	2.5	1.5	1.3	1.1
21	2.1	1.6	5.3	7.5	6.6	5.1	71	4.8	2.3	1.5	1.3	1.3
22	4.1	1.6	3.9	7.0	6.6	7.2	66	4.6	2.3	1.4	2.1	1.1
23	2.5	1.5	3.4	8.5	10	5.8	28	4.4	2.1	1.3	7.2	1.3
24	2.0	2.0	3.0	8.0	12	5.3	20	4.1	2.1	2.7	3.4	8.9
25	1.8	2.0	2.7	5.0	13	5.1	17	4.1	2.1	5.0	2.3	2.5
26	1.6	2.0	2.7	4.5	18	4.6	14	3.9	2.1	3.0	2.1	5.1
27	1.5	3.2	2.5	4.0	12	4.6	12	3.9	2.1	1.7	2.1	8.2
28	1.3	2.3	3.0	4.0	9.9	5.1	12	3.9	6.3	1.3	2.0	2.3
29	1.1	5.3	2.3	4.0	9.9	6.3	24	3.8	2.7	1.3	1.8	6.6
30	1.1	3.2	124	3.5	------	6.6	23	4.1	2.1	1.1	1.8	5.3
31	.97	------	31	2.9	------	5.6	------	3.4	------	1.1	1.8	------
TOTAL	51.21	59.6	374.7	263.5	202.7	287.2	1,039.6	213.9	109.0	56.2	85.4	71.8
MEAN	1.65	1.99	12.1	8.50	6.99	9.26	34.7	6.90	3.63	1.81	2.75	2.39
MAX	6.1	5.3	124	20	18	58	323	16	20	5.0	17	8.9
MIN	.97	1.1	2.0	2.4	2.2	4.6	5.3	3.4	2.1	1.1	1.1	1.1
CFSM	.14	.17	1.02	.71	.59	.78	2.92	.58	.31	.15	.23	.20
IN.	.15	.19	1.17	.82	.63	.90	3.25	.67	.34	.18	.27	.22

CAL YR 1971 TOTAL 3,151.61 MEAN 8.63 MAX 219 MIN .90 CFSM .73 IN 9.85
WTR YR 1972 TOTAL 2,814.81 MEAN 7.69 MAX 323 MIN .97 CFSM .65 IN 8.80

03342300 Busseron Creek near Sullivan, Ind.

LOCATION.—Lat 39°04'33", long 87°23'11", in SE 1/4 NW 1/4 sec.2, T.7 N., R.9 W., Sullivan County, on left bank at upstream side of bridge on State Road 54, 1.5 miles southeast of Sullivan, 1.6 miles east of intersection of U.S. Highway 41 and State Road 54, and 1.7 miles upstream from Buttermilk Creek.

DRAINAGE AREA.—138 sq mi.

PERIOD OF RECORD.—June 1966 to current year.

GAGE.—Water-stage recorder. Datum of gage is 440.00 ft above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.—6 years, 123 cfs (12.10 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,350 cfs Apr. 17 (gage height, 13.86 ft); minimum daily, 2.4 cfs Nov. 5.
Period of record: Maximum discharge, 5,480 cfs Jan. 30, 1969 (gage height, 15.83 ft); minimum daily, 0.9 cfs Sept. 8, 1966.

REMARKS.—Records good. Flow affected by surface-mined areas and Soil Conservation Service flood-retarding structures.

REVISIONS.—The minimum daily discharge for the Water Year 1971 has been revised to 1.3 cfs Sept. 15-17, 1971, superseding figure published in WRD Ind. 1971.
Revised figures of discharge, in cubic feet per second, for the Water Year 1971, superseding those published in WRD Ind. 1971, are given herein:

Aug. 27, 1971.....	2.6	Sept. 23.....	5.9
Aug. 28.....	2.6	Sept. 24.....	4.3
Aug. 29.....	2.6	Sept. 25.....	9.8
Aug. 30.....	2.6	Sept. 26.....	12
Sept. 19.....	2.4	Sept. 27.....	8.4
Sept. 20.....	30	Sept. 28.....	5.5
Sept. 21.....	14	Sept. 29.....	4.3
Sept. 22.....	8.8	Sept. 30.....	3.5

Month	Cfs-days	Maximum	Minimum	Mean	Per Square Mile	Runoff in Inches
August 1971	206.5	24	2.6	6.66	0.05	0.06
September 1971	203.5	30	1.3	6.85	.05	.06
Water Year 1971	30,046.5	2,330	1.3	82.3	.60	8.10

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	38	4.3	86	11	116	30	195	9.4	11	3.0	3.2
2	2.8	63	4.3	62	14	723	30	155	8.2	8.7	3.2	3.2
3	2.8	60	4.5	46	16	689	30	126	7.4	7.4	23	3.0
4	2.8	36	3.5	46	18	251	46	105	6.7	5.5	51	3.0
5	2.7	2.4	3.0	43	11	155	46	128	6.1	5.3	29	3.0
6	2.7	2.7	6.1	45	11	107	38	104	6.4	4.5	18	2.8
7	2.5	3.0	40	42	13	92	117	80	6.1	4.3	30	2.7
8	2.5	37	46	35	11	77	444	73	5.8	4.1	19	7.0
9	8.2	57	23	60	10	59	154	74	6.1	4.1	11	4.8
10	3.9	60	18	87	9.6	53	105	60	6.7	4.3	7.0	3.6
11	2.8	58	15	62	12	49	87	47	5.3	4.8	5.5	3.2
12	2.5	36	13	46	24	48	607	34	5.0	4.3	5.4	3.2
13	2.7	2.5	11	39	25	47	606	46	5.3	4.5	5.3	2.8
14	3.0	2.7	109	30	23	44	488	55	5.0	4.3	5.0	4.8
15	2.8	2.7	244	25	41	43	277	46	60	4.3	16	3.6
16	3.9	2.7	177	19	43	44	1,270	38	87	5.3	4.4	3.2
17	3.4	2.5	62	14	35	47	2,130	32	23	4.3	5.4	3.2
18	2.8	2.8	36	17	45	41	1,270	28	14	4.1	4.4	3.0
19	2.8	3.6	28	25	40	35	430	24	11	3.6	4.4	2.4
20	2.7	4.1	31	30	43	30	1,100	21	8.6	3.4	4.3	2.7
21	2.5	3.4	32	33	33	31	1,220	19	7.0	3.4	4.1	2.4
22	12	2.7	25	31	30	40	1,360	18	6.4	3.2	4.3	3.4
23	5.5	2.5	20	40	34	40	1,450	16	5.3	3.0	5.8	3.2
24	4.3	3.9	19	37	66	32	530	15	4.8	11	11	37
25	4.4	3.4	17	28	59	29	320	13	4.5	5.5	8.2	31
26	4.1	3.0	17	14	145	27	250	12	4.5	3.6	6.1	46
27	3.9	5.3	17	15	113	28	208	11	4.5	4.1	4.4	380
28	3.4	5.3	17	16	92	27	166	9.8	18	3.9	4.3	342
29	3.0	8.3	16	18	88	32	188	9.4	37	3.6	3.9	355
30	3.0	7.0	310	15	------	40	316	11	13	3.2	3.6	440
31	3.0	------	254	12	------	34	------	11	------	3.0	3.2	------
TOTAL	112.4	521.5	1,626.7	1,120	1,115.6	3,114	15,313	1,620.2	348.5	147.6	320.4	1,759.2
MEAN	3.64	17.4	52.5	36.1	38.5	101	510	52.3	13.3	4.76	10.3	58.6
MAX	12	63	310	87	145	723	2,130	195	87	11	51	440
MIN	2.5	2.4	3.0	12	9.6	27	30	9.4	4.5	3.0	3.0	2.4
CFSM	.03	.13	.38	.26	.28	.73	3.70	.38	.10	.03	.07	.42
IN.	.03	.14	.44	.30	.30	.84	4.13	.44	.11	.04	.09	.47

CAL YR 1971 TOTAL 30,103.0 MEAN 82.5 MAX 2,330 MIN 1.3 CFSM .60 IN 8.11
WTR YR 1972 TOTAL 27,171.5 MEAN 74.2 MAX 2,130 MIN 2.4 CFSM .54 IN 7.32

03342350 Buttermilk Creek near Paxton, Ind.

LOCATION.—Lat 39°03'43", long 87°20'37", in SE 1/4 NW 1/4 sec.7, T.7 N., R.8 W., Sullivan County, on left bank at downstream side of bridge, 3 miles northeast of Paxton, and 3 miles upstream from mouth.

DRAINAGE AREA.—16.5 sq mi.

PERIOD OF RECORD.—June 1966 to current year.

GAGE.—Water-stage recorder. Datum of gage is 450.08 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.—6 years, 14.2 cfs (11.69 inches per year).

EXTREMES.—Current year: Maximum discharge, 416 cfs Apr. 16 (gage height, 12.76 ft); no flow Sept. 18.
Period of record: Maximum discharge, 442 cfs Apr. 4, 1968 (gage height, 13.02 ft); no flow at times most years.

REMARKS.—Records poor. Flow affected by surface-mined areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.8	3.1	20	1.0	46	5.0	14	3.1	2.0	.14	.25
2	.43	2.0	4.5	17	1.3	111	4.6	16	5.2	1.3	.25	2.4
3	.95	1.0	6.2	13	1.5	21	5.4	13	4.1	2.4	3.4	.40
4	1.6	1.3	4.6	9.0	1.7	13	9.5	12	1.6	1.4	1.4	.14
5	1.4	1.5	4.5	7.0	1.2	9.0	6.4	11	2.0	1.2	.60	.71
6	1.1	2.0	10	5.0	1.0	7.4	5.0	10	1.1	1.2	.71	.14
7	1.0	.70	37	5.5	1.2	7.2	30	10	.25	.60	.95	.07
8	1.1	.40	12	4.5	1.1	6.2	19	10	.40	.40	.71	2.6
9	6.4	.25	7.9	6.0	1.0	5.2	8.6	10	2.0	.25	.25	2.4
10	2.8	.35	9.0	8.0	.90	5.0	6.8	8.8	1.1	.19	.10	1.2
11	2.3	.50	8.1	7.0	1.0	4.6	8.3	7.9	.40	.25	.04	.50
12	1.8	.60	7.4	4.5	1.5	4.3	80	7.2	.32	.32	.50	.32
13	1.9	.50	7.2	3.0	2.2	5.0	41	9.5	.50	.32	.14	.19
14	2.0	.40	83	2.5	2.0	4.8	23	8.6	.60	.25	.60	.95
15	2.0	.25	51	3.2	4.5	5.0	18	8.3	12	.32	8.8	.40
16	4.1	.50	15	2.0	8.1	7.0	266	7.2	6.8	.71	1.9	.10
17	2.3	.50	8.6	1.3	4.8	6.2	58	5.7	4.3	.60	.83	.04
18	1.6	.50	6.6	1.7	6.2	4.8	34	5.2	3.1	1.1	.32	0
19	1.6	.83	7.6	2.5	6.2	2.8	44	4.6	2.9	.32	.10	.25
20	1.3	.95	8.2	3.0	5.4	2.8	194	5.2	2.2	.25	.10	.19
21	2.0	.60	7.0	3.4	4.1	2.6	124	4.0	1.6	.25	.07	.14
22	9.8	.60	6.2	3.0	4.1	4.0	120	3.1	1.3	.60	2.2	.14
23	5.4	.60	5.5	3.8	7.0	2.9	41	3.1	.71	.19	4.1	.14
24	5.5	.71	5.2	3.2	11	2.2	29	2.8	.60	3.4	6.4	21
25	6.6	.71	4.6	2.5	9.8	2.2	23	2.4	.60	2.4	1.1	17
26	5.0	.60	5.0	1.7	20	1.8	21	2.3	.50	1.3	2.9	23
27	3.0	1.4	4.5	1.6	12	4.0	19	2.2	1.2	1.2	.95	14
28	2.2	1.3	5.5	1.5	10	7.0	17	2.2	5.0	.60	.40	5.4
29	1.9	4.0	4.8	1.7	9.5	9.0	22	2.2	4.5	.50	.25	24
30	1.7	2.0	184	1.3	------	6.0	22	3.4	2.4	.25	.14	12
31	1.5	------	38	.90	------	4.3	------	3.2	------	.25	.10	------
TOTAL	83.51	29.95	572.4	150.30	141.30	324.5	1,306.6	219.1	72.78	26.12	40.90	134.07
MEAN	2.69	.97	18.5	4.85	4.87	10.5	43.6	7.07	2.43	.84	1.32	4.60
MAX	9.8	4.0	184	20	20	111	266	18	12	3.4	8.8	28
MIN	.83	.25	3.1	.90	.90	1.8	4.6	2.2	.25	.19	.04	0
CFSM	.16	.06	1.12	.29	.30	.64	2.64	.43	.15	.05	.09	.28
IN.	.19	.07	1.29	.34	.32	.73	2.95	.49	.16	.06	.09	.31

CAL YR 1971 TOTAL 3,697.41 MEAN 10.7 MAX 266 MIN .25 CFSM .65 IN 8.79
WTR YR 1972 TOTAL 3,104.53 MEAN 8.48 MAX 266 MIN 0 CFSM .51 IN 7.00

03342500 Busseron Creek near Carlisle, Ind.

LOCATION.—Lat 38°58'26", long 87°25'33", in NW 1/4 survey 17, Vincennes Tract, Sullivan County, on left bank 10 ft downstream from bridge on State Highway 58, 1.5 miles northwest of Carlisle, and 6.8 miles upstream from mouth.

DRAINAGE AREA.—228 sq mi.

PERIOD OF RECORD.—October 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 425.36 ft above mean sea level (Indiana State Highway Department bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft upstream at same datum.

AVERAGE DISCHARGE.—29 years, 205 cfs (12.21 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,400 cfs Apr. 22 (gage height, 14.09 ft); minimum daily, 3.8 cfs Sept. 7.
Period of record: Maximum discharge, 8,800 cfs Jan. 5, 1950 (gage height, 20.05 ft); maximum gage height, 20.30 ft May 9, 1961; no flow many days in 1954.

REMARKS.—Records good. Flow affected by Soil Conservation Service flood water retarding structures and surface-mined areas.

REVISIONS.—WSP 1335: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	9.9	14	254	23	295	49	303	20	14	4.6	4.6
2	8.0	61	9.9	162	24	1,050	46	218	15	12	4.8	4.6
3	7.4	61	9.9	118	33	1,160	46	173	14	16	22	5.0
4	7.6	57	13	112	36	641	80	142	13	11	75	5.4
5	7.6	16	14	99	21	283	79	142	11	8.8	54	4.4
6	9.0	5.6	16	107	21	187	68	136	11	8.0	21	4.1
7	8.3	5.8	135	91	26	161	116	107	11	7.3	25	3.8
8	7.6	7.3	108	65	21	134	641	99	9.9	6.8	27	93
9	13	56	56	127	19	102	282	104	10	6.6	17	17
10	11	58	40	176	18	88	159	94	15	7.1	11	8.5
11	7.6	56	48	135	22	80	138	78	11	7.3	8.3	6.4
12	7.1	54	34	99	47	78	853	67	9.3	6.6	7.8	5.4
13	6.8	16	28	85	49	74	1,120	74	9.0	6.2	8.3	5.0
14	7.3	5.8	474	57	45	73	903	90	9.3	5.8	7.1	4.8
15	7.3	5.8	631	68	81	68	526	84	60	16	19	6.6
16	7.8	6.2	417	42	84	82	1,820	63	133	15	15	5.2
17	11	6.4	167	30	66	84	2,060	48	40	7.1	9.9	4.8
18	9.0	6.4	93	36	86	71	2,200	43	20	6.4	7.6	4.4
19	8.0	6.4	68	55	76	61	2,010	39	15	6.6	6.6	4.1
20	8.0	8.0	73	60	84	53	1,860	36	13	6.0	6.4	4.4
21	7.6	9.0	73	63	57	51	1,880	33	11	6.8	6.0	4.3
22	18	9.0	58	61	51	61	2,300	29	9.9	5.0	19	4.3
23	18	7.8	48	78	63	61	2,030	27	8.8	5.0	70	4.6
24	11	7.8	45	75	143	52	1,850	23	8.3	5.4	35	51
25	9.9	8.8	41	58	131	45	1,250	21	7.8	14	16	115
26	9.9	9.9	39	39	285	42	537	21	7.6	7.8	10	100
27	9.3	11	39	35	243	40	375	20	7.3	6.6	11	195
28	8.5	13	36	35	184	42	290	20	17	6.4	7.3	414
29	8.5	16	34	38	165	48	258	19	46	5.8	8.2	355
30	8.3	19	830	28	------	61	462	20	24	5.6	5.6	586
31	8.0	------	745	21	------	56	------	24	------	4.8	5.0	------
TOTAL	284.8	619.9	4,436.8	2,509	2,208	5,344	26,288	2,399	597.2	260.6	548.9	2,014.7
MEAN	9.19	20.7	143	80.9	76.1	174	876	77.4	19.9	8.41	17.7	67.2
MAX	18	61	830	254	285	1,160	2,300	303	133	16	75	586
MIN	6.8	5.6	9.9	21	18	40	46	19	7.3	4.8	4.6	3.8
CFSM	.04	.09	.63	.35	.33	.76	3.84	.34	.09	.04	.08	.29
IN.	.05	.10	.72	.41	.36	.88	4.29	.39	.10	.04	.09	.33

CAL YR 1971 TOTAL 51,438.0 MEAN 141 MAX 2,190 MIN 4.3 CFSM .62 IN 8.39
WTR YR 1972 TOTAL 47,550.9 MEAN 130 MAX 2,300 MIN 3.8 CFSM .57 IN 7.76

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-16	1500	13.69	2,230	04-22	0700	14.09	2,400
04-18	1700	13.76	2,250				

03343000 Wabash River at Vincennes, Ind.

LOCATION.—Lat 38°42'26", long 87°31'10", in NW 1/4 SW 1/4 sec.10, T.3 N., R.10 W., Knox County, near center of span on downstream side of bridge on U.S. Highway 50 at the Indiana-Illinois State line, 4.9 miles downstream from Maria Creek, 7.7 miles upstream from Embarras River, and at mile 129.8.

DRAINAGE AREA.—13,700 sq mi, approximately.

PERIOD OF RECORD.—October 1929 to current year. Prior to December 1929 monthly discharge only, published in WSP 1305. Gage-height records for flood peaks in 1867 and 1883, intermittent records 1887-1904, and continuous since November 1904, collected at site 2.1 miles downstream, are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 394.43 ft above mean sea level. Oct. 1, 1960, to September 30, 1968, nonrecording gage at site 2.1 miles downstream at same datum (now used as an auxiliary gage). Oct. 1, 1960, to Sept. 30, 1968, auxiliary water-stage recorder at site 2.6 miles upstream from base gage at datum 0.80 ft lower. See WSP 1725 for history of changes prior to Oct. 1, 1960.

AVERAGE DISCHARGE.—43 years, 11,270 cfs (11.17 inches per year).

EXTREMES.—Current year: Maximum discharge, 54,000 cfs Apr. 27 (gage height, 21.74 ft); minimum daily, 2,700 cfs Sept. 7.
Period of record: Maximum discharge, 189,000 cfs May 22, 23, 1943 (gage height, 29.33 ft, present datum); minimum daily, 770 cfs Aug. 4, 5, 1934.
Flood of Mar. 29, 1913, reached a stage of 26.3 ft, present datum, from floodmarks, determined by Corps of Engineers (discharge, 255,000 cfs).

REMARKS.—Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).—WSP 803: Drainage area. WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,920	4,270	3,200	14,500	7,250	6,240	9,650	45,700	9,720	5,050	4,220	3,490
2	7,220	4,110	3,180	16,700	6,070	8,380	11,400	42,000	9,460	5,580	4,030	3,240
3	6,490	3,960	3,240	19,000	5,830	9,770	13,400	38,500	8,900	5,900	4,180	3,050
4	6,010	3,810	3,200	20,400	6,140	9,360	13,800	35,900	8,540	7,020	4,200	2,910
5	5,170	3,660	3,220	20,600	6,670	8,880	12,700	33,300	8,980	11,100	4,000	2,820
6	4,640	3,620	3,200	19,900	6,490	10,000	12,600	30,500	10,100	9,720	3,720	2,800
7	4,270	3,410	3,220	18,200	5,790	11,700	12,500	26,500	9,740	8,040	3,750	2,700
8	3,960	3,300	3,430	15,500	5,350	13,000	14,700	19,300	9,340	7,680	4,580	3,350
9	3,750	3,280	5,590	13,900	5,240	13,700	20,200	19,300	10,400	7,940	4,290	3,240
10	3,750	3,240	7,180	13,200	5,430	12,200	23,000	17,800	9,650	7,700	3,940	4,850
11	3,700	3,200	10,000	12,500	5,440	10,200	24,500	17,200	8,570	6,920	3,920	6,640
12	3,510	3,140	13,600	12,000	5,520	8,660	27,000	18,000	8,570	5,400	3,650	5,740
13	3,490	3,300	16,400	11,700	5,570	7,660	28,900	19,000	8,500	5,320	3,920	4,850
14	3,490	3,240	18,600	12,100	5,590	6,740	30,100	18,300	7,780	4,980	4,380	4,210
15	3,510	3,160	21,300	12,700	5,790	6,690	31,000	17,300	13,700	4,640	5,040	3,810
16	3,490	3,140	24,500	10,400	5,960	7,150	33,100	16,400	20,000	4,360	5,980	4,180
17	3,560	3,140	26,400	9,490	6,330	9,170	35,600	16,500	21,200	4,970	5,850	9,770
18	3,660	3,070	27,600	8,820	6,660	11,800	36,600	17,600	21,600	5,960	4,850	13,600
19	3,560	3,010	28,600	8,230	6,830	12,900	37,000	18,200	21,200	5,540	4,270	13,600
20	3,470	3,030	29,300	8,190	7,110	12,700	38,300	18,100	18,800	5,740	4,030	11,900
21	3,350	3,030	30,200	7,060	7,020	11,900	39,900	17,500	15,000	6,760	3,690	10,600
22	3,300	3,120	30,900	9,890	6,740	10,600	42,000	16,500	12,500	8,160	3,870	10,800
23	3,350	3,160	31,100	11,700	6,600	9,500	43,400	15,600	10,900	8,900	4,140	11,200
24	3,290	3,140	29,900	11,600	6,580	8,710	45,300	14,600	9,480	9,610	3,820	10,800
25	3,410	3,140	27,100	11,600	6,370	8,260	48,900	13,600	8,380	9,140	3,330	10,100
26	3,700	3,140	23,600	11,700	6,490	7,990	52,200	13,600	7,610	8,600	3,240	9,500
27	3,870	3,120	20,600	11,900	6,650	8,040	53,700	10,700	6,920	7,320	3,240	11,200
28	4,470	3,090	17,900	11,300	6,420	7,870	53,500	9,600	6,530	6,140	3,430	15,200
29	4,930	3,140	15,100	10,300	6,210	7,900	51,900	8,900	6,280	5,610	3,830	19,300
30	5,020	3,100	14,200	9,600	------	8,160	49,100	8,350	6,070	5,040	3,940	21,600
31	4,580	------	14,400	8,660	------	8,620	------	8,690	------	4,580	3,720	------
TOTAL	131,060	99,330	510,380	387,670	180,000	294,250	945,550	622,040	334,220	210,850	127,300	240,520
MEAN	4,228	3,311	16,460	12,510	6,207	9,492	31,520	20,070	11,140	6,802	4,106	8,017
MAX	7,220	4,270	31,100	20,600	7,250	13,700	53,700	45,700	21,600	11,100	5,980	21,600
MIN	3,280	3,010	3,180	8,190	5,240	6,240	9,650	8,350	6,070	4,360	3,240	2,700
CFSM	.31	.24	1.20	.91	.45	.69	2.30	1.47	.81	.50	.30	.59
IN.	.36	.27	1.39	1.05	.49	.80	2.57	1.69	.91	.57	.35	.65

CAL YR 1971 TOTAL 3,421,990 MEAN 9,375 MAX 45,400 MIN 2,200 CFSM .68 IN 9.29
WTR YR 1972 TOTAL 4,023,170 MEAN 11,160 MAX 53,700 MIN 2,700 CFSM .81 IN 11.09

03345500 Embarras River at Ste. Marie, Ill.

LOCATION.—Lat 38°56'10", long 88°01'10", in NW 1/4 NW 1/4 sec.30, T.6 N., R.14 W., Jasper County, on left bank at downstream side of highway bridge at Ste. Marie.

DRAINAGE AREA.—1,513 sq mi.

PERIOD OF RECORD.—October 1909 to December 1912, August 1914 to current year.

GAGE.—Water-stage recorder. Datum of gage is 445.75 ft above mean sea level (levels by Corps of Engineers). Prior to June 29, 1940, nonrecording gage and June 29, 1940, to Jan. 24, 1967, water-stage recorder at same site at datum 1.00 ft higher.

AVERAGE DISCHARGE.—61 years, 1,167 cfs (10.47 inches per year).

EXTREMES.—Current year: Maximum discharge, 7,460 cfs Apr. 24 (gage height, 17.96 ft); minimum daily, 28 cfs Nov. 12-14.
Period of record: Maximum discharge, 44,800 cfs Jan. 4, 1950 (gage height, 25.95 ft, present datum), from rating curve extended above 29,000 cfs; maximum gage height, 26.54 ft, present datum, June 30, 1957; minimum discharge, 1 cfs Oct. 5-9, 1914.

REMARKS.—Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).—WSP 1083: 1934. WSP 1113: 1910-31, 1933, 1939-40, 1945(M). WSP 1725: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	34	34	1,230	400	418	344	1,900	1,060	202	92	96
2	73	34	36	1,370	350	598	390	1,660	1,150	194	132	93
3	69	33	36	1,460	350	593	428	1,520	959	180	1,460	92
4	66	31	38	1,440	350	470	430	1,390	781	170	438	88
5	62	31	36	1,330	998	415	470	1,280	623	164	251	87
6	57	30	39	1,130	966	385	480	1,180	509	357	270	85
7	57	29	48	1,020	791	360	493	1,050	445	570	173	83
8	55	30	62	903	704	342	945	970	403	579	172	187
9	53	30	183	924	641	339	1,130	1,590	369	456	187	102
10	52	29	174	945	577	328	880	1,120	345	343	158	84
11	49	29	426	1,000	550	314	877	903	346	351	147	342
12	48	28	764	931	488	300	1,640	792	333	275	143	629
13	48	28	588	844	472	293	1,950	739	299	218	190	659
14	47	28	899	767	440	302	2,520	744	275	189	233	561
15	46	29	2,840	577	370	332	2,310	720	266	169	249	415
16	46	29	4,490	500	380	380	5,110	668	244	154	293	337
17	45	29	4,750	480	385	455	6,180	626	243	154	267	378
18	44	29	3,750	460	375	458	5,190	582	300	151	206	550
19	43	32	3,520	500	368	432	2,910	533	328	135	163	590
20	40	30	3,620	550	346	405	4,920	493	313	135	137	536
21	40	29	3,390	550	312	380	6,240	461	277	136	122	430
22	42	30	2,510	500	284	358	7,250	438	253	119	112	342
23	43	33	1,930	500	305	348	7,210	417	229	111	272	296
24	43	37	1,610	550	351	346	7,380	397	216	105	391	267
25	41	38	1,480	606	388	337	6,630	379	202	102	126	280
26	50	34	1,380	585	496	323	5,690	359	191	101	131	365
27	47	39	1,290	504	526	309	4,780	343	180	104	114	509
28	42	34	1,210	455	458	300	3,280	338	174	105	102	677
29	39	34	1,120	395	418	305	2,460	528	168	101	96	847
30	37	33	1,090	398	------	316	2,180	384	170	107	92	977
31	34	------	1,090	400	------	330	------	740	------	100	95	------
TOTAL	1,529	943	44,433	23,804	13,839	11,571	92,697	25,244	11,651	6,337	7,014	10,984
MEAN	49.3	31.4	1,433	768	477	373	3,090	814	388	204	226	366
MAX	73	39	4,750	1,460	998	598	7,380	1,900	1,150	579	1,460	977
MIN	34	28	34	395	284	293	344	338	168	100	92	83
CFSM	.03	.02	.95	.51	.32	.25	2.04	.54	.26	.13	.15	.24
IN.	.04	.02	1.09	.59	.34	.28	2.28	.62	.29	.16	.17	.27

CAL YR 1971 TOTAL 287,524 MEAN 788 MAX 7,780 MIN 28 CFSM .52 IN 7.07
WTR YR 1972 TOTAL 250,046 MEAN 683 MAX 7,380 MIN 28 CFSM .45 IN 6.15

03346000 North Fork Embarras River near Oblong, Ill.

LOCATION.—Lat 39°00'01", long 87°56'42", in NW 1/4 SE 1/4 sec.35, T.7 N., R.14 W., Crawford County, at upstream side of pier of bridge on county highway, 200 ft downstream from Illinois Central Gulf Railroad bridge, 2 miles west of Oblong, and 7.8 miles upstream from mouth.

DRAINAGE AREA.—319 sq mi.

PERIOD OF RECORD.—October 1940 to current year.

GAGE.—Water-stage recorder. Datum of gage is 456.19 ft above mean sea level. Prior to Dec. 11, 1940, nonrecording gage and Dec. 11, 1940, to Sept. 30, 1964, water-stage recorder at site 0.8 mile upstream at datum 2.00 ft higher. Oct. 1, 1964, to Oct. 8, 1971, water-stage recorder at site 0.8 mile upstream at present datum.

AVERAGE DISCHARGE.—32 years, 236 cfs (10.05 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,480 cfs Apr. 22 (gage height, 16.18 ft); minimum, 0.20 cfs Nov. 18.
Period of record: Maximum discharge, 27,100 cfs Jan. 4, 1950 (gage height, 24.38 ft, present datum), from rating curve extended above 16,000 cfs; no flow for many days in 1953-54, 1964.

REMARKS.—Records fair except those for winter periods, which are poor.

REVISIONS.—WSP 1725: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	1.3	3.1	206	27	156	30	216	160	10	3.1	3.6
2	4.5	1.3	3.1	123	25	462	29	168	71	10	3.1	4.0
3	3.4	1.3	3.1	96	35	455	27	142	43	9.2	86	8.8
4	3.2	1.0	3.1	86	80	187	34	119	33	10	250	5.9
5	3.0	1.2	3.3	75	100	132	49	105	26	8.4	181	4.0
6	2.8	1.0	3.8	69	80	100	59	94	23	7.7	58	3.3
7	2.6	1.0	11	60	60	77	52	84	20	7.1	38	2.6
8	2.6	1.2	70	55	50	68	360	128	19	6.8	25	18
9	2.8	1.6	78	60	40	58	385	148	18	6.5	19	8.4
10	2.6	1.6	44	153	35	48	177	99	18	95	11	3.8
11	3.1	1.5	110	241	29	43	146	71	87	84	7.7	2.8
12	2.6	1.8	178	171	25	41	365	58	37	12	8.4	2.4
13	2.4	2.0	83	119	29	44	705	56	22	9.2	14	2.3
14	2.4	1.8	113	79	37	45	829	61	18	7.4	23	3.3
15	2.6	1.2	892	70	48	48	416	65	20	5.6	125	3.8
16	2.8	.80	1,300	70	59	50	1,840	52	16	5.6	81	2.6
17	2.8	.50	690	65	74	48	2,980	45	16	5.3	20	2.3
18	2.8	.30	240	65	67	46	2,470	38	14	5.0	11	2.0
19	2.6	.70	159	73	67	41	582	34	12	5.0	7.7	2.3
20	2.6	1.0	127	61	57	36	1,910	30	12	4.5	6.2	2.3
21	2.4	1.2	110	60	48	36	2,860	27	11	4.3	5.0	1.8
22	3.3	1.2	91	67	38	34	3,340	24	10	5.3	4.5	1.8
23	3.1	1.3	77	111	40	35	2,560	23	9.6	4.3	14	2.3
24	3.1	2.4	67	137	59	34	1,460	21	8.8	4.0	128	2.6
25	2.4	3.8	63	96	104	30	352	20	8.4	3.8	38	2.6
26	2.3	3.6	58	65	178	29	245	18	8.0	3.8	20	3.8
27	2.8	3.6	54	55	234	28	195	17	7.7	4.8	12	4.5
28	2.6	3.3	51	45	168	28	167	17	8.0	5.6	8.0	5.3
29	2.4	3.3	48	40	141	29	157	186	8.0	4.5	5.9	5.3
30	2.0	3.3	108	35	------	29	202	67	8.0	3.8	4.8	5.6
31	1.7	------	278	30	------	31	------	208	------	3.6	4.0	------
TOTAL	88.2	51.10	5,119.5	2,738	2,034	2,528	24,983	2,441	772.5	362.1	1,222.4	124.1
MEAN	2.85	1.70	165	88.3	70.1	81.5	833	78.7	25.8	11.7	39.4	4.14
MAX	5.6	3.8	1,300	241	234	462	3,340	216	160	95	250	18
MIN	1.7	.30	3.1	30	25	28	27	17	7.7	3.6	3.1	1.8
CFSM	.009	.005	.52	.28	.22	.26	2.61	.25	.08	.04	.12	.01
IN.	.01	.005	.60	.32	.24	.29	2.91	.28	.09	.04	.14	.01

CAL YR 1971 TOTAL 58,096.10 MEAN 159 MAX 5,100 MIN .30 CFSM .50 IN 6.77
WTR YR 1972 TOTAL 42,463.90 MEAN 116 MAX 3,340 MIN .30 CFSM .36 IN 4.95

03346900 Prairie Creek Reservoir near Muncie, Ind.

LOCATION.—Lat 40°08'46", long 85°17'35", in NE 1/4 NE 1/4 sec.32, T.20 N., R.11 E., Delaware County, at intake tower of reservoir on Prairie Creek, 0.3 mile above mouth, and 5.8 miles southeast of Muncie.

DRAINAGE AREA.—16.8 sq mi.

PERIOD OF RECORD.—1962 to current year.

GAGE.—Water-stage recorder.

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by three 24-inch valves. Capacity at uncontrolled spillway elevation (990 ft) is 22,100 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir was filled for the first time in the spring of 1963.

COOPERATION.—Records furnished by Muncie Water Works Company.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	989.6	21,350	-
Oct. 31	989.4	21,100	-250
Nov. 30	988.8	20,360	-740
Dec. 31	990.3	22,230	+1,870
Calendar year 1971	-	-	+2,830
Jan. 31	990.0	21,850	-380
Feb. 29	990.0	21,850	0
Mar. 31	990.0	21,850	0
Apr. 30	990.2	22,100	+250
May 31	990.1	21,975	-125
June 30	990.3	22,230	+255
July 31	990.0	21,850	-380
Aug. 31	989.9	21,725	-125
Sept. 30	990.0	21,850	+125
Water year 1972	-	-	+500

Diversion for municipal supply for city of Muncie

Water supply for the city of Muncie is from White River and augmented by Prairie Creek Reservoir. Water is diverted at Muncie Water Works on Burlington Drive, 3.0 miles upstream from White River at Muncie (03347000) and returned at sewage disposal plant 3.9 miles downstream from station.

Diversion, monthly and yearly means in cfs

Oct.	Nov.	Dec.	1971 Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	1972 Water year
20.8	20.2	13.8	20.2	19.9	20.6	19.4	19.3	20.0	21.0	19.3	21.3	20.7	19.7

03347000 White River at Muncie, Ind.

LOCATION.—Lat 40°12'15", long 85°23'14", in SE 1/4 NW 1/4 Hackley Reserve, Delaware County, on right bank 200 ft downstream from Walnut Street bridge in Muncie, and 6 miles upstream from Bell Creek.

DRAINAGE AREA.—241 sq mi.

PERIOD OF RECORD.—November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. Daily gage heights from October 1924 to December 1929 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 917.10 ft above mean sea level (city of Muncie bench mark). See WSP 1705 for history of changes prior to Jan. 28, 1942. Jan. 28, 1942, to Apr. 27, 1964, water-stage recorder at present site at datum 3.00 ft higher.

AVERAGE DISCHARGE.—41 years (1931 to current year), 203 cfs (11.43 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,340 cfs Apr. 22 (gage height, 7.88 ft); minimum daily, 9.7 cfs Sept. 1.
Period of record: Maximum discharge, 14,300 cfs Apr. 21, 1964; maximum gage height, 21.07 ft Jan. 15, 1937, present datum; minimum daily discharge, 1.1 cfs Sept. 16, 17, 23-25, 1954, and Oct. 10, 1956.
Maximum stage known, 22.6 ft in March 1913, present datum (discharge, 20,000 cfs).

REMARKS.—Records good. Natural flow affected by regulation of Prairie Creek Reservoir (See sta 03346900) and by diversion of municipal water supply by Muncie Water Works Co. Records of diversion available since October 1937.

REVISIONS (WATER YEARS).—WSP 1335: 1931-32(M), 1936(M), 1938, 1948. WSP 1435: 1955. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	33	34	782	116	1,890	121	197	220	150	21	9.7
2	23	27	32	530	100	914	116	185	145	100	21	12
3	23	26	31	444	96	525	104	155	111	127	52	46
4	17	24	31	412	90	350	144	133	90	140	107	33
5	15	24	31	437	84	290	146	121	72	97	50	25
6	14	26	58	346	76	239	334	113	72	72	41	18
7	14	28	362	273	73	194	1,700	106	66	59	43	14
8	22	23	426	212	80	166	974	126	59	56	31	18
9	27	21	243	249	72	158	680	235	55	55	28	18
10	27	22	191	503	68	160	467	266	56	59	22	19
11	23	23	191	429	66	155	280	188	53	46	18	17
12	18	24	131	318	68	158	600	146	46	41	21	23
13	18	23	95	263	72	158	1,400	175	116	40	22	27
14	19	27	552	216	98	160	500	408	535	39	21	70
15	20	23	2,760	190	212	185	300	824	519	122	21	66
16	24	18	1,730	160	247	194	1,100	806	707	245	17	44
17	24	18	806	150	163	169	520	543	434	144	15	32
18	18	16	480	170	130	160	400	358	264	100	11	65
19	14	20	346	202	110	150	458	262	181	285	13	71
20	14	23	278	189	100	150	2,140	207	147	198	15	49
21	12	27	258	212	95	141	1,530	172	260	117	14	32
22	83	21	214	226	90	149	2,680	149	179	127	9.8	24
23	160	18	188	255	85	149	2,070	126	118	73	21	191
24	121	17	172	251	84	128	902	106	102	67	23	483
25	100	20	152	205	83	121	557	93	96	60	22	227
26	78	25	144	139	86	118	413	83	84	48	18	567
27	55	26	133	128	94	113	326	78	68	42	18	819
28	43	31	123	120	113	111	262	69	61	37	17	472
29	38	34	109	110	1,130	133	224	69	70	35	11	506
30	39	33	1,020	100	------	149	211	104	200	31	11	862
31	39	------	1,660	100	------	131	------	186	------	27	11	------
TOTAL	1,165	721	12,981	8,321	3,981	7,968	21,659	6,789	5,186	2,839	765.8	4,859.7
MEAN	37.6	24.0	419	268	137	257	722	219	173	91.6	24.7	162
MAX	160	34	2,760	782	1,130	1,890	2,680	824	707	285	107	862
MIN	12	16	31	100	66	111	104	69	46	27	9.8	9.7
CFSM	.16	.10	1.74	1.11	.57	1.07	3.00	.91	.72	.38	.10	.67
IN.	.18	.11	2.00	1.28	.61	1.23	3.34	1.05	.80	.44	.12	.75

CAL YR 1971 TOTAL 61,812.8 MEAN 169 MAX 2,760 MIN 5.8 CFSM .70 IN 9.54
WTR YR 1972 TOTAL 77,235.5 MEAN 211 MAX 2,760 MIN 9.7 CFSM .88 IN 11.92

PEAK DISCHARGE (BASE, 2,500 CFS).—Dec. 15 (1400) 3,060 cfs (7.66 ft). Apr. 22 (2100) 3,340 cfs (7.88 ft).

03347500 Buck Creek near Muncie, Ind.

LOCATION.—Lat 40°08'05", long 85°22'25", in SW 1/4 SE 1/4 sec.34, T.20 N., R.10 E., Delaware County, on left bank at downstream side of highway bridge, 1 mile upstream from Muncie Water Works Co. pumping station, and 4.2 miles southeast of courthouse in Muncie.

DRAINAGE AREA.—35.5 sq mi.

PERIOD OF RECORD.—October 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 944.67 ft above mean sea level. Prior to May 5, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—18 years, 33.1 cfs (12.66 inches per year).

EXTREMES.—Current year: Maximum discharge, 757 cfs Dec. 14 (gage height, 9.64 ft); minimum daily, 12 cfs Oct. 15-21, Sept. 7, 10, 11.
Period of record: Maximum discharge, 1,780 cfs Apr. 21, 1964 (gage height, 13.96 ft); minimum daily, 5.6 cfs Dec. 20, 1964. Maximum stage known, about 15 ft, from information by local residents. Date unknown.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1909: 1955, 1957. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	16	58	19	59	24	34	25	27	17	13
2	15	16	15	54	21	215	23	32	24	26	17	13
3	15	16	14	45	21	A5	23	30	23	36	59	15
4	15	15	14	50	19	61	30	28	22	27	32	13
5	14	14	14	45	17	46	27	27	21	25	24	13
6	14	15	26	39	16	39	26	27	24	24	24	13
7	13	14	93	35	15	38	183	26	22	22	24	12
8	13	14	66	32	14	35	84	39	21	22	22	15
9	14	14	45	45	14	31	70	49	21	21	21	13
10	14	14	39	56	14	29	56	38	21	21	19	12
11	13	14	35	45	16	27	46	32	20	20	18	12
12	13	13	31	39	18	27	77	30	20	20	18	14
13	13	13	28	37	21	27	202	46	40	21	17	14
14	13	13	254	32	31	27	68	61	33	18	17	24
15	12	13	424	24	41	27	52	68	64	48	18	18
16	12	13	148	23	28	27	164	51	55	47	17	17
17	12	13	81	31	27	28	85	41	39	30	16	16
18	12	13	57	27	24	28	58	36	35	28	15	21
19	12	14	46	29	22	27	56	32	32	37	15	20
20	12	14	44	30	21	27	205	30	31	26	15	17
21	12	13	41	31	20	25	125	28	50	30	14	16
22	32	13	36	32	19	29	282	27	32	27	14	17
23	33	13	33	32	19	26	119	26	29	28	15	38
24	30	13	31	30	20	24	75	25	28	27	14	30
25	30	13	29	27	21	24	58	24	27	25	14	25
26	25	13	29	25	23	23	46	24	26	22	14	56
27	23	15	28	23	27	23	40	23	25	21	14	44
28	20	14	26	21	27	22	37	22	25	20	13	32
29	19	16	26	19	32	26	36	22	31	19	13	59
30	18	17	222	18	------	27	35	30	32	18	13	61
31	17	------	95	17	------	24	------	27	------	17	13	------
TOTAL	526	421	2,086	1,051	627	1,183	2,412	1,035	898	800	576	683
MEAN	17.0	14.0	67.3	33.9	21.6	38.2	80.4	33.4	29.9	25.8	18.6	22.8
MAX	33	17	424	58	41	215	282	68	64	48	59	61
MIN	12	13	14	17	14	22	23	22	20	17	13	12
CFSM	.48	.39	1.90	.95	.61	1.08	2.26	.94	.84	.73	.52	.64
IN.	.55	.44	2.19	1.10	.66	1.24	2.53	1.08	.94	.84	.60	.72

CAL YR 1971 TOTAL 11,886.2 MEAN 32.6 MAX 424 MIN 8.4 CFSM .92 IN 12.46
WTR YR 1972 TOTAL 12,298.0 MEAN 33.6 MAX 424 MIN 12 CFSM .95 IN 12.89

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	2315	9.64	757	04-13	0300	6.77	410
12-30	1345	6.99	434	04-22	0515	7.63	504

03348000 White River at Anderson, Ind.

LOCATION.—Lat 40°06'22", long 85°40'20", in SW 1/4 SW 1/4 sec.7, T.19 N., R.8 E., Madison County, on left bank at municipal water-supply plant in Anderson, 1 mile upstream from Killbuck Creek.

DRAINAGE AREA.—406 sq mi.

PERIOD OF RECORD.—July 1925 to September 1926, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 700 ft downstream December 1910 to February 1918 and at present site since February 1918 are contained in reports of U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Anderson.

GAGE.--Nonrecording gage and concrete dam. Gage read twice daily. Datum of gage is 825.02 ft above mean sea level. Prior to May 12, 1934, nonrecording gage at site 250 ft upstream at same datum.

AVERAGE DISCHARGE.—42 years, 367 cfs (12.28 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,370 cfs Dec. 16 (gage height, 10.55 ft); minimum daily, 78 cfs Sept. 11.
Period of record: Maximum discharge, 18,700 cfs Apr. 21, 1964 (gage height, 19.41 ft); maximum gage height, 19.96 ft June 14, 1958; minimum daily discharge, 9.1 cfs Sept. 24, 1940.
Maximum stage known, 23.6 ft Mar. 25, 1913, present site and datum, based on determination of U.S. Weather Bureau at site then in use (discharge, 28,000 cfs).

REMARKS.—Records poor. The city of Anderson diverts water for its municipal supply above the gage.

COOPERATION.—Gage readings furnished by city of Anderson.

REVISIONS (WATER YEARS).—WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	107	97	1,440	200	436	270	368	402	240	122	85
2	117	107	105	1,040	270	1,830	240	488	335	185	117	85
3	117	107	100	884	185	2,230	229	453	255	185	127	110
4	122	107	95	796	160	1,440	328	409	223	226	190	114
5	122	107	85	818	130	950	335	361	218	198	174	120
6	117	107	132	654	130	673	368	328	207	218	148	93
7	117	107	460	505	130	578	996	328	215	196	188	83
8	117	107	884	402	140	498	2,020	352	209	153	148	102
9	107	107	488	395	130	422	1,710	505	198	166	148	107
10	112	107	402	488	130	368	1,180	570	158	142	132	83
11	112	107	385	774	130	315	950	453	153	155	120	78
12	102	107	240	643	140	315	862	368	148	201	120	83
13	112	107	212	612	160	302	1,300	368	212	148	120	107
14	102	107	335	463	171	302	1,090	654	456	148	110	153
15	102	102	2,610	330	255	309	774	1,240	774	292	114	158
16	102	102	2,810	250	402	309	950	1,240	1,020	419	117	127
17	102	102	1,580	250	335	309	1,650	1,040	711	198	117	107
18	102	102	1,010	280	270	296	1,130	862	484	212	102	107
19	102	102	703	350	210	296	973	559	388	302	102	226
20	102	107	559	368	180	289	2,170	477	286	402	102	158
21	102	107	477	361	170	270	2,230	477	286	261	90	132
22	102	102	426	382	170	335	2,620	368	335	261	90	212
23	270	102	309	422	170	302	2,620	328	240	207	90	522
24	240	102	309	429	170	296	1,650	296	207	177	110	505
25	158	107	302	429	170	264	1,180	264	207	190	97	635
26	132	107	246	348	180	258	862	240	207	158	97	1,990
27	107	95	240	250	212	252	635	237	182	148	93	2,310
28	107	93	234	210	352	240	578	207	158	142	93	884
29	107	90	232	190	361	240	526	207	158	117	88	730
30	107	97	1,330	180	------	355	470	234	212	117	88	1,130
31	107	------	2,310	180	------	302	------	335	------	117	88	------
TOTAL	3,749	3,117	19,707	15,123	5,813	15,581	32,896	14,616	9,244	6,281	3,642	11,336
MEAN	121	104	636	488	200	503	1,097	471	308	203	117	378
MAX	270	107	2,810	1,440	402	2,230	2,620	1,240	1,020	419	190	2,310
MIN	102	90	85	180	130	240	229	207	148	117	88	78
CFSM	.30	.26	1.57	1.20	.49	1.24	2.70	1.16	.76	.50	.29	.93
IN.	.34	.29	1.81	1.39	.53	1.43	3.01	1.34	.85	.58	.33	1.04

CAL YR 1971 TOTAL 112,290 MEAN 308 MAX 3,820 MIN 39 CFSM .76 IN 10.29
WTR YR 1972 TOTAL 141,105 MEAN 386 MAX 2,810 MIN 78 CFSM .95 IN 12.93

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0300	10.55	3,370	04-23	0200	10.22	3,060
12-30	2200	9.88	2,770	09-27	0100	9.92	2,790
04-20	2000	10.05	2,900				

03348020 Killbuck Creek near Gaston, Ind.

LOCATION.—Lat 40°15'45", long 85°30'53", in SE 1/4 SW 1/4 sec.16, T.21 N., R.9 E., Delaware County, on right bank 30 ft upstream from bridge on County Road 500 North, and 15 ft east of County Road 675 West, 3.6 miles southwest of Gaston.

DRAINAGE AREA.—25.5 sq mi.

PERIOD OF RECORD.—June 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage 873.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 354 cfs Apr. 20 (gage height, 11.14 ft); minimum daily, 2.5 cfs Oct. 3.
Period of record: Maximum discharge, 378 cfs Jan. 18, 1969; maximum gage height, 11.14 ft Apr. 20, 1972; minimum daily discharge, 2.5 cfs Oct. 3, 1971.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.1	4.0	57	11	30	22	35	17	9.2	6.8	5.9
2	2.8	2.9	3.6	50	11	190	19	33	15	8.6	6.8	5.9
3	2.5	3.2	3.5	43	11	153	17	31	14	15	7.2	6.2
4	2.6	3.4	3.4	49	10	72	25	29	13	14	7.1	6.5
5	2.6	3.3	3.5	47	9.8	51	26	27	12	11	6.8	6.2
6	3.1	3.3	5.1	36	9.0	38	23	25	12	9.6	6.7	6.2
7	3.0	3.3	32	30	8.2	33	169	24	13	8.8	7.4	6.1
8	3.0	3.3	41	25	7.6	30	156	24	11	8.5	7.8	6.3
9	3.3	3.3	27	30	7.4	24	106	27	11	8.2	7.1	6.3
10	3.8	3.4	23	50	7.6	21	85	26	11	8.0	6.7	6.1
11	3.6	3.4	51	42	8.0	19	63	23	9.9	8.1	6.6	6.1
12	3.7	3.3	39	34	9.0	19	52	21	9.6	8.0	6.8	6.5
13	3.5	3.2	27	30	10	18	63	22	13	8.6	6.7	7.4
14	4.3	3.2	51	25	11	20	55	41	19	8.3	6.5	11
15	4.8	3.1	186	21	13	18	44	94	21	8.4	6.9	14
16	4.6	2.9	142	16	13	18	94	67	21	17	6.9	9.2
17	3.4	2.9	70	18	12	17	118	48	17	12	6.6	7.7
18	3.2	3.1	47	20	11	15	66	37	15	9.2	6.5	15
19	3.1	3.1	36	22	10	14	63	30	13	21	6.5	29
20	4.8	3.2	31	24	9.0	13	323	26	12	16	6.6	15
21	5.6	3.2	31	25	8.5	13	317	23	22	11	6.5	11
22	8.6	3.1	27	30	8.5	16	312	26	26	13	6.5	8.7
23	16	3.1	24	37	8.5	16	269	23	18	9.4	6.5	30
24	11	3.1	23	31	9.0	14	119	19	14	8.3	6.4	60
25	5.7	3.2	20	27	9.5	13	78	18	12	10	6.3	34
26	4.0	3.2	20	20	10	13	63	16	11	8.5	6.2	96
27	4.1	3.4	18	17	11	13	52	15	9.8	7.7	6.2	173
28	5.2	3.4	17	15	13	14	44	14	9.2	7.5	6.2	83
29	5.7	3.5	16	13	16	19	41	14	9.7	7.2	6.1	93
30	5.1	4.0	87	12	------	34	38	18	10	7.0	6.0	107
31	3.5	------	107	11	------	26	------	21	------	7.0	6.0	------
TOTAL	143.2	97.1	1,216.1	907	292.6	1,004	2,922	897	421.2	314.1	205.9	878.3
MEAN	4.62	3.24	39.2	29.3	10.1	32.4	97.4	28.9	14.0	10.1	6.64	29.3
MAX	16	4.0	186	57	16	190	323	94	26	21	7.8	173
MIN	2.5	2.9	3.4	11	7.4	13	17	14	9.2	7.0	6.0	5.9
CFSM	.18	.13	1.54	1.15	.40	1.27	3.82	1.13	.55	.40	.26	1.15
IN.	.21	.14	1.77	1.32	.43	1.46	4.26	1.31	.61	.46	.30	1.28

CAL YR 1971 TOTAL 6,955.0 MEAN 19.1 MAX 280 MIN 2.5 CFSM .75 IN 10.15
WTR YR 1972 TOTAL 9,298.5 MEAN 25.4 MAX 323 MIN 2.5 CFSM 1.00 IN 13.56

PEAK DISCHARGE (BASE, 250 CFS).—Apr. 20 (2400) 354 cfs (11.14 ft).

03348350 Pipe Creek at Frankton, Ind.

LOCATION.—Lat 40°13'38", long 85°45'58", in SE 1/4 NE 1/4 sec.31, T.21 N., R.7 E., Madison County, on right bank 20 ft downstream from bridge on County Road 500 West, at northeast edge of Frankton.

DRAINAGE AREA.—113 sq mi.

PERIOD OF RECORD.—May 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 810.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 1,980 cfs Apr. 21 (gage height, 11.10 ft); minimum daily, 4.5 cfs Sept. 6.
Period of record: Maximum discharge, 1,980 cfs Apr. 21, 1972 (gage height, 11.10 ft); minimum daily, 4.2 cfs Oct. 6, 7, 1970.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	20	294	54	105	79	140	39	31	15	5.0
2	16	21	18	219	50	690	68	130	35	26	15	9.0
3	17	21	17	195	47	537	61	110	32	301	32	13
4	16	19	16	232	43	281	92	90	30	309	22	8.0
5	16	17	16	90	40	189	101	75	29	123	15	5.5
6	16	17	22	83	37	121	85	65	32	79	20	4.5
7	14	18	207	80	36	101	599	62	31	56	28	10
8	15	16	465	77	35	80	886	64	28	46	20	13
9	16	16	283	75	34	70	568	80	28	39	15	10
10	17	17	217	216	33	62	427	87	28	35	13	7.0
11	14	16	283	192	33	59	301	67	26	31	12	5.5
12	15	16	216	149	46	61	229	62	24	28	21	10
13	14	15	152	126	49	62	228	74	112	26	15	20
14	13	15	243	95	46	78	216	120	237	26	12	65
15	12	15	889	137	56	73	170	100	172	31	10	105
16	12	14	868	123	51	74	250	85	137	49	14	40
17	11	14	449	110	43	73	500	70	89	37	12	20
18	11	13	253	101	40	64	350	67	66	30	11	16
19	11	15	178	93	39	57	280	63	54	52	10	14
20	11	15	149	81	37	53	1,500	60	47	46	9.7	13
21	10	15	137	84	35	53	1,800	56	44	31	9.4	12
22	21	14	119	140	34	60	1,400	52	40	39	9.4	30
23	37	13	105	229	34	58	1,100	48	36	30	11	50
24	35	13	101	181	34	52	850	44	33	26	13	75
25	29	13	102	151	34	49	600	40	32	39	10	70
26	24	13	89	103	35	47	400	37	29	29	7.7	500
27	21	15	82	81	39	48	300	35	28	24	7.0	670
28	20	14	71	73	42	51	230	33	26	21	6.6	500
29	18	16	69	70	56	59	200	32	35	19	6.0	600
30	17	19	324	63	------	129	150	44	40	17	5.6	700
31	19	------	606	58	------	97	------	44	------	16	5.2	------
TOTAL	537	474	6,766	4,001	1,192	3,593	14,020	2,136	1,619	1,692	412.6	3,620.5
MEAN	17.3	15.8	218	129	41.1	116	467	68.9	54.0	54.6	13.3	121
MAX	37	21	889	294	56	690	1,800	140	237	309	32	700
MIN	10	13	16	58	33	47	61	32	24	16	5.2	4.5
CFSM	.15	.14	1.93	1.14	.36	1.03	4.13	.61	.48	.48	.12	1.07
IN.	.18	.16	2.23	1.32	.39	1.18	4.62	.70	.53	.56	.14	1.19

CAL YR 1971 TOTAL 29,003.3 MEAN 79.5 MAX 1,340 MIN 5.1 CFSM .70 IN 9.55
WTR YR 1972 TOTAL 40,063.1 MEAN 109 MAX 1,800 MIN 4.5 CFSM .96 IN 13.19

PEAK DISCHARGE (BASE, 700 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2300	8.55	1,030	04-21	Unknown	11.10	1,980
12-31	0300	7.69	736	09-27	Unknown	Unknown	840
03-02	1900	8.06	868	09-30	Unknown	Unknown	880
04-08	0100	9.05	1,210				

NOTE.—No gage-height record April 16 to May 18, July 30 to Sept. 30.

03348500 White River near Noblesville, Ind.

LOCATION.—Lat 40°07'46", long 85°57'46", in NE 1/4 NE 1/4 sec.4, T.19 N., R.5 E., Hamilton County, near center of span on downstream side of highway bridge, 1 mile west of Strawtown, 7 miles northeast of Noblesville, 9.5 miles upstream from Cicero Creek, and at mile 277.4.

DRAINAGE AREA.—828 sq mi.

PERIOD OF RECORD.—May 1915 to September 1926, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "West Branch of White River" prior to October 1922 and as "West Fork of White River" October 1922 to September 1948. Records of daily discharge for the water year 1928, published in WSP 663, have been found to be unreliable and should not be used.

GAGE.—Water-stage recorder. Datum of gage is 763.08 ft above mean sea level (levels by Corps of Engineers). Prior to July 1, 1922, nonrecording gage at bridge 2 miles downstream at different datum. July 1, 1922, to Nov. 21, 1933, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—55 years, 781 cfs (12.81 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,900 cfs Apr. 21 (gage height, 12.98 ft); minimum daily, 126 cfs Sept. 11.
Period of record: Maximum discharge, 27,200 cfs Mar. 21, 1927 (gage height, 16.3 ft, from graph based on gage readings); maximum gage height, 16.35 ft June 14, 1958, Apr. 22, 1964; minimum daily discharge, 39 cfs Sept. 25, 1941.

REMARKS.—Records good. See also period of record.

REVISIONS (WATER YEARS).—WSP 1335: 1915-16, 1918, 1920, 1921(M), 1922, 1927-28(M), 1929-30, 1933(M), 1936, 1941(M). WSP 1725: 1959(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	179	197	2,800	390	728	686	1,130	585	500	204	129
2	193	179	193	1,800	450	2,780	610	1,040	575	375	197	132
3	176	172	183	1,540	350	4,640	565	938	490	858	244	190
4	208	169	179	1,520	310	3,030	794	830	420	1,230	304	208
5	224	165	165	1,640	290	1,800	872	746	380	752	316	162
6	169	165	212	1,340	270	1,290	782	686	410	530	264	147
7	153	156	799	1,110	270	1,080	2,430	644	405	420	292	141
8	150	153	1,790	926	280	950	4,830	656	355	360	280	190
9	179	165	1,410	896	260	806	3,590	776	345	320	228	172
10	197	169	1,090	1,290	250	716	2,690	866	340	292	204	138
11	172	162	1,360	1,490	250	656	2,050	782	308	292	193	126
12	165	159	1,220	1,240	280	626	1,670	674	288	320	193	138
13	159	162	890	1,080	310	626	2,130	704	466	292	176	176
14	165	150	1,200	780	410	674	2,070	1,020	1,200	264	169	296
15	165	141	4,390	580	495	656	1,500	1,870	1,360	272	172	400
16	159	150	5,990	400	638	668	1,780	2,110	1,440	610	197	272
17	159	150	3,600	450	585	704	3,160	1,640	1,200	595	176	208
18	147	150	2,060	600	525	674	2,300	1,250	854	440	165	172
19	159	153	1,450	680	390	615	1,780	1,020	650	644	159	340
20	156	156	1,230	700	340	565	6,160	860	560	770	150	370
21	150	153	1,110	800	330	555	8,420	758	530	555	144	264
22	232	141	1,010	938	330	615	7,740	692	662	728	147	208
23	360	147	908	1,220	330	615	8,000	638	500	505	150	296
24	430	150	848	1,140	385	570	4,870	575	425	375	159	838
25	360	147	782	1,010	380	520	2,970	530	385	385	159	926
26	340	138	740	812	405	495	2,210	495	360	340	153	896
27	284	150	704	520	420	495	1,780	460	345	292	147	2,230
28	248	162	650	420	450	505	1,480	420	320	268	138	2,130
29	216	162	605	360	510	565	1,320	405	320	244	144	1,670
30	200	197	1,540	340	------	890	1,220	520	380	220	141	2,320
31	190	------	4,000	330	------	812	------	605	------	200	135	------
TOTAL	6,477	4,752	42,505	30,752	10,883	30,921	82,459	26,340	16,858	14,248	5,900	15,885
MEAN	209	158	1,371	992	375	997	2,749	850	562	460	190	530
MAX	430	197	5,990	2,800	638	4,640	8,420	2,110	1,440	1,230	316	2,320
MIN	147	138	165	330	250	495	565	405	288	200	135	126
CFSM	.25	.19	1.66	1.20	.45	1.20	3.32	1.03	.68	.56	.23	.64
IN.	.29	.21	1.91	1.38	.49	1.39	3.70	1.18	.76	.64	.27	.71

CAL YR 1971 TOTAL 224,481 MEAN 615 MAX 7,500 MIN 109 CFSM .74 IN 10.09
WTR YR 1972 TOTAL 287,980 MEAN 787 MAX 8,420 MIN 126 CFSM .95 IN 12.94

PEAK DISCHARGE (BASE, 5,500 CFS).—Dec. 16 (1100) 6,200 cfs (11.54 ft). Apr. 21 (1100) 8,900 cfs (12.98 ft).

03348500 White River near Noblesville, Ind.—Continued

PERIOD OF RECORD.—Water temperature: October 1953 to July 1957, October 1962 to September 1972.
Sediment records: July 1968 to September 1972 (partial record).

EXTREMES.—1971-72:
Water temperatures: Maximum, 29.0°C July 23, 24; minimum, freezing point on several days in January and February.

Period of record:
Water temperatures: Maximum, 31.0°C July 14, 1954; minimum, freezing point on many days during most winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	25.5	17.5	16.0	5.0	4.0	5.0	4.0	0.0	0.0	9.0	8.5
2	26.5	25.0	16.5	16.0	4.0	3.5	4.5	4.0	0.0	0.0	9.0	6.5
3	26.5	25.0	16.0	12.5	3.5	3.5	4.0	4.0	0.0	0.0	6.5	4.5
4	26.0	24.5	12.5	11.0	3.5	3.5	4.5	4.0	0.0	0.0	4.5	4.0
5	24.5	23.5	11.5	9.5	4.5	3.5	4.0	3.5	0.0	0.0	4.0	3.5
6	23.5	20.5	11.0	10.0	5.5	4.5	3.5	2.0	0.0	0.0	3.5	3.0
7	20.5	19.0	10.0	8.0	6.5	5.5	2.5	2.0	0.0	0.0	4.5	3.0
8	19.0	17.5	8.0	6.5	6.5	6.5	2.0	2.0	0.0	0.0	4.5	4.5
9	18.0	17.5	7.0	6.5	7.0	6.5	3.5	2.0	0.0	0.0	4.5	4.0
10	17.5	16.5	8.0	6.5	9.5	7.0	4.5	3.5	0.0	0.0	4.0	3.5
11	17.0	16.0	8.5	7.5	9.5	9.0	5.0	4.5	0.0	0.0	7.0	4.5
12	17.0	15.5	9.0	8.5	9.0	8.0	5.0	4.5	0.0	0.0	9.5	7.0
13	16.5	16.0	10.5	9.0	8.0	7.0	4.5	4.0	0.5	0.0	10.0	9.0
14	17.0	16.0	12.0	10.5	7.0	6.5	4.0	2.0	1.5	0.5	9.5	8.0
15	18.0	16.5	13.0	11.5	8.0	7.0	2.0	1.5	2.5	1.5	8.0	6.5
16	20.0	18.0	13.5	13.0	8.0	8.0	1.5	1.0	3.0	2.5	7.0	6.5
17	20.0	19.0	14.0	13.5	8.0	5.5	1.0	0.0	3.5	3.0	7.5	7.0
18	20.0	19.5	14.0	14.0	5.5	3.5	0.5	0.0	3.5	3.5	7.5	7.0
19	21.0	19.5	14.0	11.0	3.5	3.0	0.5	0.5	3.5	2.0	8.0	6.5
20	21.0	19.0	11.0	9.5	3.0	3.0	0.5	0.5	2.0	1.0	10.0	8.0
21	21.0	20.5	9.5	7.0	3.5	3.0	2.0	0.5	2.5	1.5	11.5	10.0
22	21.0	20.5	7.0	6.0	3.5	3.5	4.0	2.0	3.5	2.5	11.5	9.0
23	20.5	20.0	6.0	4.5	3.5	3.5	4.0	4.0	3.5	2.0	9.0	6.5
24	20.0	19.5	4.5	4.5	4.0	3.5	4.0	4.0	3.0	2.0	6.5	5.5
25	19.5	19.0	4.5	4.0	4.5	4.0	4.0	1.5	3.5	3.0	7.5	6.0
26	19.0	18.0	4.5	4.0	6.0	4.5	1.5	0.5	4.0	3.5	8.0	6.5
27	19.0	18.0	4.5	4.5	7.5	6.0	0.5	0.0	4.0	3.5	8.0	8.0
28	19.0	18.0	5.0	4.5	7.5	5.5	0.0	0.0	6.5	4.0	9.0	8.0
29	19.0	18.0	5.5	5.0	5.5	4.5	0.0	0.0	8.5	6.0	9.0	7.0
30	18.5	18.0	5.0	5.0	5.5	4.5	0.0	0.0	---	---	7.5	6.5
31	18.5	17.5	---	---	5.5	5.0	0.0	0.0	---	---	8.5	7.0
MONTH	26.5	15.5	17.5	4.0	9.5	3.0	5.0	0.0	8.5	0.0	11.5	3.0

03348500 White River near Noblesville, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	14.5	13.5	16.5	14.5	22.0	20.5	26.0	25.0	26.5	24.5
2	8.0	7.5	16.0	14.5	18.0	16.0	22.0	21.5	25.5	24.5	26.0	22.5
3	7.5	6.0	15.5	14.5	20.5	18.0	22.0	19.0	25.5	24.5	22.5	21.5
4	6.5	5.5	15.5	14.0	22.0	20.0	19.5	19.0	25.0	24.0	22.0	21.0
5	10.0	6.5	16.0	14.5	22.0	21.0	19.0	18.0	25.0	23.5	22.0	20.5
6	12.0	10.0	17.0	15.0	21.5	21.0	19.0	18.0	25.0	23.0	22.0	20.5
7	12.0	6.0	17.0	16.5	22.0	20.0	19.0	18.0	24.0	23.0	21.5	20.0
8	6.0	4.5	16.5	14.5	22.0	20.5	20.0	18.5	23.0	22.0	22.0	21.5
9	6.5	4.5	14.5	13.5	20.5	19.0	21.0	20.0	22.5	21.0	22.5	21.5
10	8.5	6.5	14.5	12.5	19.0	18.0	22.5	21.0	23.0	20.5	22.0	20.0
11	10.5	8.5	15.5	13.5	19.0	17.0	24.5	22.0	22.5	21.5	21.5	20.5
12	11.5	10.5	16.5	14.5	18.5	17.5	25.5	24.0	24.5	22.5	23.0	21.5
13	14.5	11.5	16.5	15.5	19.5	18.5	26.0	24.5	26.5	24.0	24.0	22.5
14	14.5	13.5	16.0	15.5	20.5	19.0	26.5	25.5	26.5	24.5	24.0	23.0
15	13.5	13.0	16.0	14.5	20.5	20.5	26.5	24.5	26.0	24.5	23.0	21.0
16	13.0	13.0	14.5	14.0	20.5	20.0	24.5	24.5	25.5	23.0	21.5	20.5
17	13.0	12.0	15.5	14.0	20.0	19.0	24.5	24.0	27.0	25.0	23.0	21.0
18	13.5	12.0	17.0	15.0	19.5	19.0	26.0	24.0	28.5	26.5	23.0	22.5
19	14.0	13.5	19.0	17.0	21.5	19.0	26.0	25.0	28.5	27.0	23.0	22.0
20	14.0	12.5	20.0	18.5	22.5	21.0	27.5	25.5	27.5	26.5	23.0	21.5
21	12.5	10.0	21.0	19.5	22.5	20.5	28.5	27.0	27.5	26.0	22.0	20.5
22	10.5	9.5	22.0	20.5	21.0	17.5	28.5	28.0	27.5	27.0	20.5	19.0
23	11.0	10.5	22.5	20.5	17.5	15.0	29.0	27.5	27.0	26.5	20.0	18.5
24	11.0	10.0	22.5	21.0	15.0	14.0	29.0	27.0	26.5	26.0	18.5	18.5
25	10.0	9.5	23.0	21.0	15.5	14.0	28.0	26.5	27.0	26.0	19.0	18.5
26	11.0	10.0	23.0	21.0	17.5	15.5	27.5	25.5	28.0	26.5	20.0	18.5
27	12.0	11.0	23.0	21.5	19.5	17.0	25.5	24.5	27.0	25.0	20.0	20.0
28	12.0	11.5	22.5	21.0	19.5	19.0	24.5	24.0	26.0	24.0	20.0	19.5
29	12.0	12.0	22.0	21.0	19.5	19.0	25.5	24.0	26.5	24.5	19.5	18.5
30	13.5	11.5	21.0	19.5	21.0	19.0	26.0	24.0	27.0	24.5	18.5	17.0
31	---	---	19.5	16.0	---	---	26.0	24.5	26.5	24.5	---	---
MONTH	14.5	4.5	23.0	12.5	22.5	14.0	29.0	18.0	28.5	20.5	26.5	17.0
YEAR	29.0	0.0										

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 06...	1230	22.0	170	21	9.6	--	--
DEC. 01...	1210	4.0	19	7	3.6	--	--
16...	1110	8.0	6170	305	5080	65	78
JAN. 05...	1250	3.5	1640	42	186	--	--
JUNE 01...	1335	15.0	618	15	25	--	--
SEP. 06...	1245	21.0	154	14	5.8	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT. 06...	--	--	--	--	--	--	--
DEC. 01...	--	--	--	--	--	--	--
16...	85	92	96	97	98	98	100
JAN. 05...	--	--	--	--	--	--	--
JUNE 01...	--	--	--	--	--	--	--
SEP. 06...	--	--	--	--	--	--	--

03349000 White River at Noblesville, Ind.

LOCATION.—Lat 40°02'50", long 86°01'00", in SE 1/4 SE 1/4 sec.36, T.19 N., R.4 E., Hamilton County, on right bank at downstream side of Logan Street bridge in Noblesville, 1.5 miles upstream from Cicero Creek, 3.5 miles downstream from dam at Clare, and at mile 269.0.

DRAINAGE AREA.—858 sq mi.

PERIOD OF RECORD.—October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and after June 1951, and at a site 400 ft downstream January 1936 to May 1951, are contained in reports of U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Noblesville.

GAGE.—Water-stage recorder. Datum of gage is 738.16 ft above mean sea level.

AVERAGE DISCHARGE.—26 years, 793 cfs (12.55 inches per year).

EXTREMES.—Current year: Maximum discharge, 9,080 cfs Apr. 21 (gage height, 14.34 ft); minimum daily, 149 cfs Nov. 15.
Period of record: Maximum discharge, 26,800 cfs Apr. 22, 1964 (gage height, 21.31 ft); minimum daily, 44 cfs Sept. 28, 1954.
Maximum stage known, 23.8 ft Mar. 25, 1913, present site and datum, from U.S. Weather Bureau records.

REMARKS.—Records good. Flow slightly regulated by powerplant above station.

REVISIONS (WATER YEARS).—WSP 1335: 1949. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	188	196	3,290	450	682	718	1,160	640	475	203	158
2	188	186	190	2,000	500	2,740	634	1,080	652	365	200	161
3	179	186	182	1,650	400	4,920	580	982	545	670	220	194
4	186	190	177	1,580	350	3,540	814	870	475	1,260	276	215
5	198	179	171	1,710	310	2,070	926	765	432	765	299	184
6	168	174	180	1,430	290	1,720	842	694	465	515	255	174
7	156	171	576	1,140	310	1,150	2,330	646	460	405	279	168
8	152	164	1,740	940	320	1,000	5,070	652	410	340	276	198
9	167	168	1,490	884	290	856	4,260	765	392	303	231	194
10	184	171	1,070	1,260	280	737	3,120	863	387	282	210	170
11	170	167	1,290	1,550	290	676	2,400	800	360	276	198	156
12	165	165	1,260	1,300	310	646	1,900	676	336	289	196	165
13	161	161	884	1,120	330	634	2,210	688	423	289	188	184
14	161	158	588	980	360	670	2,990	982	1,210	252	177	273
15	164	149	4,260	580	441	664	1,660	1,860	1,480	252	180	383
16	158	156	6,520	450	568	664	1,860	2,280	1,520	505	196	285
17	155	154	4,480	540	550	700	3,370	1,830	1,360	586	186	234
18	155	156	2,420	700	490	682	2,680	1,400	947	432	180	194
19	158	161	1,600	780	446	628	1,900	1,130	712	545	174	282
20	161	165	1,300	921	387	568	6,000	947	610	718	165	387
21	159	165	1,140	842	360	556	8,710	828	556	568	164	285
22	192	152	1,030	968	360	610	8,470	751	676	652	165	223
23	292	155	912	1,290	360	622	8,350	694	550	490	170	249
24	383	161	842	1,220	387	580	5,800	628	455	360	179	682
25	336	159	765	1,090	383	530	3,440	580	414	344	179	940
26	317	153	724	870	405	500	2,470	535	383	324	176	772
27	282	159	682	660	423	495	1,930	505	365	282	168	2,180
28	249	173	634	520	437	505	1,580	465	340	255	162	2,520
29	223	173	592	530	480	568	1,370	446	328	237	164	1,870
30	210	192	1,440	400	------	898	1,260	562	365	218	165	2,600
31	196	------	4,170	400	------	963	------	682	------	205	159	------
TOTAL	6,228	5,008	43,505	33,395	11,267	32,374	99,644	27,746	18,248	13,459	6,140	16,680
MEAN	201	167	1,403	1,077	389	1,044	2,988	895	608	434	198	556
MAX	383	192	6,520	3,290	568	4,920	8,710	2,280	1,520	1,260	299	2,600
MIN	152	149	171	400	280	495	580	446	328	205	159	156
CFSM	.23	.19	1.64	1.26	.45	1.22	3.48	1.04	.71	.51	.23	.65
IN.	.27	.22	1.89	1.45	.49	1.40	3.89	1.20	.79	.58	.27	.72

CAL YR 1971 TOTAL 231,500 MEAN 634 MAX 7,710 MIN 123 CFSM .74 IN 10.04
WTR YR 1972 TOTAL 303,694 MEAN 830 MAX 8,710 MIN 149 CFSM .97 IN 13.17

PEAK DISCHARGE (BASE, 6,000 CFS).—Dec. 16 (1300) 6,640 cfs (12.40 ft). Apr. 21 (1700) 9,080 cfs (14.34 ft).

03349000 White River at Noblesville, Ind.--Continued

PERIOD OF RECORD.--Water temperatures: November 1952 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.5°C Aug. 26, 30, 31.

Period of record:
Water temperatures: Maximum, 34.0°C Aug.1, 1953; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperatures affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.0	25.5	21.0	19.5	6.0	4.5	---	---	---	---	---	---
2	26.0	25.5	21.0	19.0	6.0	4.0	---	---	---	---	---	---
3	26.0	25.0	20.5	18.0	5.5	4.0	---	---	---	---	---	---
4	25.0	24.0	18.0	16.5	6.0	4.5	---	---	---	---	---	---
5	24.5	22.5	17.0	15.0	6.0	4.5	---	---	---	---	---	---
6	23.5	21.0	15.5	10.0	6.5	4.5	---	---	---	---	---	---
7	21.5	20.5	10.0	8.0	8.0	6.0	---	---	---	---	---	---
8	20.5	18.5	9.5	6.0	---	7.0	---	---	---	---	---	---
9	19.5	17.0	9.5	8.0	---	---	---	---	---	---	---	---
10	17.0	14.5	10.0	8.5	---	---	---	---	---	---	---	---
11	16.5	13.5	11.5	9.5	---	---	---	---	---	---	---	---
12	17.0	16.0	12.0	10.0	---	---	---	---	---	---	---	---
13	17.5	16.5	12.5	11.0	---	---	---	---	---	---	---	---
14	18.0	17.0	12.0	10.5	---	---	---	---	---	---	---	---
15	19.5	17.5	14.5	11.5	---	---	---	---	---	---	---	---
16	20.0	19.0	16.5	14.5	---	---	---	---	---	---	---	---
17	19.5	18.0	18.0	16.0	---	---	---	---	---	---	---	---
18	18.5	16.5	18.5	17.0	---	---	---	---	---	---	---	---
19	20.5	18.5	18.5	16.0	---	---	---	---	---	---	---	---
20	23.0	20.5	16.0	13.0	---	---	---	---	---	---	---	---
21	23.5	22.0	13.0	8.0	---	---	---	---	---	---	---	---
22	24.0	23.0	8.0	6.0	---	---	---	---	---	---	---	---
23	24.0	21.5	8.5	6.0	---	---	---	---	---	---	---	---
24	21.5	20.5	8.5	6.0	---	---	---	---	---	---	---	---
25	20.5	19.5	7.0	4.0	---	---	---	---	---	---	---	---
26	20.0	19.5	4.0	3.0	---	---	---	---	---	---	---	---
27	20.0	19.5	5.5	4.0	---	---	---	---	---	---	---	---
28	21.0	19.5	8.0	4.5	---	---	---	---	---	---	---	---
29	21.0	19.5	6.5	4.0	---	---	---	---	---	---	---	---
30	21.5	20.5	7.5	5.5	---	---	---	---	---	---	---	---
31	21.5	20.0	---	---	---	---	---	---	---	---	---	---
MONTH	27.0	13.5	21.0	3.0	---	---	---	---	---	---	---	---

0334900 White River at Noblesville, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	25.0	24.0	30.0	29.0
2	---	---	---	---	---	---	---	---	26.0	25.0	30.0	26.0
3	---	---	---	---	---	---	---	---	26.0	25.5	26.0	24.5
4	---	---	---	---	---	---	---	---	25.5	24.0	24.5	23.5
5	---	---	---	---	---	---	---	---	25.0	23.0	24.5	23.0
6	---	---	---	---	---	---	---	---	24.5	23.0	25.0	23.0
7	---	---	---	---	---	---	---	---	24.0	23.0	26.0	25.0
8	---	---	---	---	---	---	---	---	23.5	22.5	27.0	26.0
9	---	---	---	---	---	---	---	---	22.5	21.0	27.0	25.0
10	---	---	---	---	---	---	---	---	23.5	21.5	25.0	22.0
11	---	---	---	---	---	---	---	---	23.5	22.5	24.5	23.0
12	---	---	---	---	---	---	---	---	25.0	23.0	26.5	24.5
13	---	---	---	---	---	---	---	---	26.5	25.0	28.5	26.5
14	---	---	---	---	---	---	---	---	27.0	24.5	28.5	26.0
15	---	---	---	---	---	---	---	---	27.0	26.0	26.0	23.0
16	---	---	---	---	---	---	---	---	26.5	24.5	23.0	22.0
17	---	---	---	---	---	---	---	---	28.0	26.0	23.0	22.0
18	---	---	---	---	---	---	---	---	29.5	28.0	24.5	22.5
19	---	---	---	---	---	---	---	---	30.0	29.0	25.0	23.5
20	---	---	---	---	---	---	---	---	30.0	29.0	23.5	21.0
21	---	---	---	---	---	---	---	---	29.0	26.5	22.5	19.5
22	---	---	---	---	---	---	---	---	29.5	28.5	19.5	17.5
23	---	---	---	---	---	---	---	---	29.5	29.0	18.5	17.0
24	---	---	---	---	---	---	---	---	29.5	29.0	17.0	17.0
25	---	---	---	---	---	---	---	---	29.5	29.0	18.0	16.5
26	---	---	---	---	---	---	---	---	30.5	29.5	19.5	18.0
27	---	---	---	---	---	---	---	---	30.0	27.0	19.5	19.5
28	---	---	---	---	---	---	---	---	28.0	25.5	19.5	19.0
29	---	---	---	---	---	---	---	---	29.0	27.5	19.0	18.5
30	---	---	---	---	---	---	---	---	30.5	29.0	18.5	17.0
31	---	---	---	---	---	---	---	---	30.5	28.5	---	---
MONTH	---	---	---	---	---	---	---	---	30.5	21.0	30.0	16.5

03349500 Cicero Creek near Arcadia, Ind.

LOCATION.—Lat 40°10'34", long 85°59'43", in NW 1/4 NW 1/4 sec.20, T.20 N., R.5 E., Hamilton County, on left bank at downstream side of bridge, 1.5 miles east of Arcadia, and 10 miles upstream from Morse Dam.

DRAINAGE AREA.—131 sq mi.

PERIOD OF RECORD.—October 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 815.12 ft above mean sea level. Prior to Dec. 7, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—18 years, 113 cfs (11.72 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,710 cfs Apr. 20 (gage height, 9.08 ft); minimum daily, 3.8 cfs Sept. 7.
Period of record: Maximum discharge, 6,720 cfs June 29, 1957 (gage height, 11.86 ft); minimum daily, 0.5 cfs Oct. 10, 1956. Maximum stage known, 15.6 ft (probably the flood in January 1937), from information by local residents.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	19	263	45	105	68	118	46	18	14	4.3
2	15	18	18	218	40	451	57	105	36	17	13	4.8
3	14	18	16	188	35	291	52	86	31	409	18	9.0
4	15	16	16	192	34	192	129	72	27	281	14	5.9
5	16	16	15	172	30	130	144	61	24	166	12	4.2
6	17	16	30	136	29	104	119	55	34	108	13	4.1
7	15	15	229	125	28	80	555	51	39	73	14	3.8
8	14	14	415	96	27	60	592	53	35	55	12	9.2
9	20	14	241	123	26	56	528	70	31	42	12	7.5
10	18	15	219	203	25	53	394	76	30	36	10	5.7
11	17	15	303	182	28	53	278	60	23	30	8.7	4.3
12	17	15	227	150	32	53	219	52	20	27	9.7	5.7
13	15	15	158	137	36	52	201	66	183	25	8.7	7.8
14	13	14	340	97	45	52	163	100	309	22	8.0	95
15	14	13	1,010	79	58	47	136	93	259	26	9.4	125
16	13	13	832	62	48	54	287	74	257	34	8.1	47
17	12	13	481	50	43	57	469	61	153	25	7.7	27
18	11	13	304	58	40	51	281	52	104	156	7.4	19
19	16	14	219	55	40	45	232	47	81	855	7.0	15
20	13	15	176	79	35	43	1,520	43	66	417	6.7	12
21	13	14	152	82	32	45	1,610	40	53	224	5.8	11
22	20	13	131	124	30	51	1,490	37	43	138	6.2	9.7
23	21	13	125	181	30	47	1,170	35	36	88	6.2	21
24	26	14	125	160	30	41	721	32	33	60	13	88
25	25	14	118	126	30	40	478	30	30	50	10	81
26	25	13	119	90	30	38	335	27	26	34	7.5	542
27	26	13	108	75	32	40	250	25	24	29	6.6	804
28	25	16	99	70	36	40	194	23	23	25	5.4	613
29	24	16	88	60	47	63	158	23	24	21	5.5	714
30	21	21	369	55	------	97	135	37	21	17	5.1	879
31	19	------	455	50	------	77	------	56	------	15	4.6	------
TOTAL	555	446	7,157	3,748	1,021	2,608	12,965	1,760	2,101	3,523	289.3	4,183.0
MEAN	17.9	14.9	231	121	35.2	84.1	432	56.8	70.0	114	9.33	139
MAX	26	21	1,010	263	58	451	1,610	118	309	855	18	879
MIN	11	13	15	50	25	38	52	23	20	15	4.6	3.8
CFSM	.14	.11	1.76	.92	.27	.64	3.30	.43	.53	.87	.07	1.06
IN.	.15	.13	2.03	1.06	.29	.74	3.68	.50	.60	1.00	.08	1.19

CAL YR 1971 TOTAL 32,525.1 MEAN 89.1 MAX 1,210 MIN 3.2 CFSM .68 IN 9.24
WTR YR 1972 TOTAL 40,356.3 MEAN 110 MAX 1,610 MIN 3.8 CFSM .84 IN 11.46

PEAK DISCHARGE (BASE, 1,100 CFS).—Apr. 20 (2100) 1,710 cfs (9.08 ft).

03349700 Little Cicero Creek near Arcadia, Ind.

LOCATION.—Lat 40°10'32", long 86°02'45", in NE 1/4 NW 1/4 sec.23, T.20 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 0.5 mile downstream from Taylor Creek, 1.3 miles west of Arcadia, 3.9 miles upstream from mouth, and 9.3 miles northwest of Noblesville.

DRAINAGE AREA.—40.4 sq mi.

PERIOD OF RECORD.—October 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 833.36 ft.

AVERAGE DISCHARGE.—17 years, 36.9 cfs (12.40 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,240 cfs Apr. 20 (gage height, 6.44 ft); minimum daily, 0.80 cfs Sept. 1.
Period of record: Maximum discharge, 3,980 cfs June 28, 1957 (gage height, 8.69 ft); no flow at times during 1957, 1963, 1964, 1966-68.

REMARKS.—Records poor.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.5	4.7	86	14	70	21	30	9.1	3.8	1.7	.80
2	1.8	1.7	4.1	75	13	210	18	27	7.2	3.4	1.7	1.2
3	1.6	1.5	3.8	64	12	117	19	22	6.0	5.4	1.9	2.1
4	2.0	1.5	3.6	87	10	79	63	19	5.2	5.4	1.8	2.0
5	1.8	1.5	3.6	79	9.4	50	52	16	4.6	4.4	1.7	1.8
6	1.9	1.9	9.0	54	9.0	36	41	15	8.9	3.4	2.3	1.3
7	1.4	1.8	105	40	8.5	25	382	14	13	3.0	1.9	1.1
8	1.6	1.6	121	30	8.0	20	241	17	9.1	2.5	1.3	5.5
9	1.7	1.9	67	47	8.0	21	208	27	8.0	2.2	1.2	2.2
10	1.5	2.1	70	89	8.0	19	146	20	7.3	2.0	1.1	1.5
11	1.9	2.1	107	72	8.7	19	103	16	5.1	2.0	1.1	1.0
12	1.4	2.3	68	56	9.5	19	85	15	4.5	1.9	1.4	1.2
13	1.2	2.4	42	47	10	19	88	20	18	2.0	1.3	1.5
14	1.2	2.6	159	31	13	19	69	24	24	2.0	1.3	2.3
15	1.1	2.1	397	23	22	17	52	20	36	2.0	1.2	1.5
16	1.0	2.0	243	23	18	20	187	19	38	2.0	1.2	1.3
17	1.1	1.9	137	22	16	25	187	16	22	2.0	1.2	1.2
18	1.1	1.8	87	21	15	22	107	14	15	91	1.2	1.1
19	1.0	2.1	62	21	14	19	123	12	12	156	1.2	1.0
20	1.0	2.1	49	24	13	18	1,000	10	10	41	1.2	1.0
21	1.1	2.3	44	27	13	18	398	9.6	8.8	23	1.3	1.0
22	1.6	2.1	38	53	11	20	554	8.4	6.9	14	1.5	1.0
23	3.8	1.9	36	72	11	17	249	7.6	5.8	8.6	2.2	1.8
24	3.7	2.0	35	59	12	15	165	7.1	5.2	6.1	2.8	1.9
25	3.1	2.1	33	40	11	14	115	6.3	4.9	6.3	2.2	1.7
26	2.9	2.1	33	25	13	13	80	5.3	4.3	4.6	1.7	23
27	2.6	2.7	30	23	16	15	58	4.6	3.8	3.8	1.3	42
28	2.4	2.6	26	20	19	14	45	4.3	3.8	3.6	1.1	26
29	2.1	3.6	24	19	27	23	37	4.4	4.2	3.1	1.0	56
30	2.0	4.5	152	17	------	30	33	10	4.0	2.5	.90	42
31	1.7	------	145	15	------	24	------	12	------	2.0	.90	------
TOTAL	56.4	64.3	2,338.8	1,361	372.1	1,047	4,926	452.6	314.7	415.0	45.80	229.00
MEAN	1.82	2.14	75.4	43.9	12.8	33.8	164	14.6	10.5	13.4	1.48	7.63
MAX	3.8	4.5	397	89	27	210	1,000	30	38	156	2.8	56
MIN	1.0	1.5	3.6	15	8.0	13	18	4.3	3.8	1.9	.90	.80
CFSM	.05	.05	1.87	1.09	.32	.84	4.06	.36	.26	.33	.04	.19
IN.	.05	.06	2.15	1.25	.34	.96	4.54	.42	.29	.38	.04	.21

CAL YR 1971 TOTAL 10,307.16 MEAN 28.2 MAX 539 MIN .50 CFSM .70 IN 9.49
WTR YR 1972 TOTAL 11,622.70 MEAN 31.8 MAX 1,000 MIN .80 CFSM .79 IN 10.70

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	1700	4.70	510	04-22	0700	5.21	663
04-20	1400	6.44	1,240				

03350100 Hinkle Creek near Cicero, Ind.

LOCATION.—Lat 40°06'05", long 86°05'10", in NW 1/4 NW 1/4 sec.16, T.19 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 3.7 miles above mouth, 4.0 miles upstream from Morse Reservoir Dam, 4.2 miles southwest of Cicero, and 5.7 miles northwest of Noblesville.

DRAINAGE AREA.—18.5 sq mi.

PERIOD OF RECORD.—October 1955 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 820 ft (from topographic map).

AVERAGE DISCHARGE.—17 years, 18.3 cfs (13.43 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,300 cfs Apr. 20 (gage height, 5.39 ft); minimum daily, 0.49 cfs Sept. 1.
Period of record: Maximum discharge, 4,920 cfs June 28, 1957 (gage height, 8.45 ft); minimum daily, 0.07 cfs Sept. 8, 1967.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	2.8	2.7	48	9.5	45	10	17	15	4.0	1.1	.49
2	.73	3.0	2.2	45	9.0	107	8.8	16	12	3.6	1.2	.63
3	.65	3.0	2.2	35	8.0	51	8.8	14	10	6.9	1.7	.88
4	.79	3.0	2.2	64	7.4	35	31	13	9.1	3.9	1.5	.83
5	.88	2.8	2.2	47	7.5	23	21	12	8.2	3.6	1.2	.73
6	.73	2.7	9.5	41	7.0	13	17	11	21	3.0	1.9	.66
7	.73	2.8	75	24	7.0	16	290	11	15	2.7	1.9	.63
8	.73	2.8	53	20	6.5	12	113	15	12	2.7	1.2	4.5
9	1.0	2.8	30	30	6.5	11	94	20	11	2.6	1.0	1.3
10	1.1	2.8	33	44	6.5	9.6	64	14	11	2.5	.78	.93
11	.98	2.8	56	32	7.0	9.8	44	12	8.3	2.4	.73	.85
12	.88	2.8	32	25	8.0	9.9	41	11	8.1	2.1	.93	.93
13	.93	2.8	23	22	9.0	10	56	16	11	2.1	.87	.94
14	.98	2.7	133	19	11	9.8	36	23	11	1.8	.72	1.7
15	.98	2.7	256	18	19	8.9	28	25	26	2.0	.71	1.6
16	1.0	2.5	112	17	12	10	130	27	20	2.5	.72	1.2
17	.93	2.5	64	15	10	11	87	20	14	1.9	.68	1.1
18	1.0	2.4	38	15	9.0	9.2	48	16	11	2.0	.58	1.1
19	1.0	2.5	29	15	7.7	7.8	48	14	10	6.1	.58	1.1
20	1.1	2.5	24	16	7.0	7.4	558	13	9.7	2.6	.58	1.1
21	1.1	2.4	23	17	7.0	7.7	155	12	8.4	1.9	.58	1.0
22	1.6	2.2	21	37	6.8	9.1	219	11	7.3	1.6	.58	1.0
23	2.5	2.0	20	37	6.7	7.4	98	10	6.3	1.4	.78	2.0
24	2.5	2.4	20	29	7.1	6.4	64	9.5	6.2	1.8	1.4	2.5
25	2.7	2.0	18	22	7.2	6.2	43	8.7	6.1	2.4	.98	2.3
26	2.7	2.0	18	17	11	5.9	31	7.8	5.5	1.5	.83	15
27	2.8	2.4	17	15	12	6.7	25	7.2	5.0	1.4	.73	11
28	2.5	2.4	15	13	13	6.1	21	6.8	5.1	1.5	.78	6.5
29	2.7	2.8	14	12	18	11	19	7.1	6.0	1.3	.68	36
30	2.8	4.1	137	11	------	14	18	23	5.0	1.2	.63	28
31	2.8	------	84	10	------	11	------	21	------	1.2	.54	------
TOTAL	44.64	79.4	1,366.0	815	263.4	507.9	2,426.6	445.1	314.3	78.2	29.09	128.50
MEAN	1.44	2.65	44.1	26.3	9.08	16.4	80.9	14.4	10.5	2.52	.94	4.28
MAX	2.8	4.1	256	64	19	107	558	27	26	6.9	1.9	36
MIN	.65	2.0	2.2	10	6.5	5.9	8.8	6.8	5.0	1.2	.54	.49
CFSM	.08	.14	2.38	1.42	.49	.89	4.37	.78	.57	.14	.05	.23
IN.	.09	.16	2.75	1.64	.53	1.02	4.88	.90	.63	.16	.06	.26

CAL YR 1971 TOTAL 6,510.74 MEAN 17.8 MAX 878 MIN .21 CFSM .96 IN 13.09
WTR YR 1972 TOTAL 6,498.13 MEAN 17.8 MAX 558 MIN .49 CFSM .96 IN 13.07

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	0900	3.81	626	04-22	0300	3.31	453
04-20	0600	5.39	1,300				

03350300 Morse Reservoir near Noblesville, Ind.

LOCATION.—Lat 40°04'21", long 86°02'47", in SE 1/4 SW 1/4 sec.23, T.19 N., R.4 E., Hamilton County, in intake structure of reservoir on Cicero Creek, 2.5 miles northwest of courthouse in Noblesville, and 4.7 miles above mouth.

DRAINAGE AREA.—214 sq mi.

PERIOD OF RECORD.—December 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 760.00 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 22,520 acre-ft Dec. 16 (elevation, 810.97 ft); minimum, 20,790 acre-ft Aug. 1 (elevation, 809.70 ft).
Period of record: Maximum contents, 25,310 acre-ft June 28, 1957 (elevation, 812.95 ft); minimum, 14,120 acre-ft Jan. 5, 1964 (elevation, 804.26).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by two 36-inch valves or one 16-inch valve. Minimum design capacity is essentially empty at invert of outlet conduit at elevation of 763.50 ft. Capacity at uncontrolled spillway elevation (810 ft) is 21,180 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir put in operation on Dec. 9, 1955, and was filled for the first time on Feb. 3, 1957.

COOPERATION.—Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	810.04	21,230	-
Oct. 31	810.02	21,210	-20
Nov. 30	810.00	21,180	-30
Dec. 31	810.65	22,070	+890
Calendar year 1971	-	-	+90
Jan. 31	810.15	21,380	-690
Feb. 29	810.14	21,370	-10
Mar. 31	810.21	21,460	+90
Apr. 30	810.30	21,590	+130
May 31	810.14	21,370	-220
June 30	809.80	20,920	-450
July 31	809.71	20,800	-120
Aug. 31	809.82	20,950	+150
Sept. 30	810.71	22,150	+1,200
Water year 1972	-	-	+920

03350500 Cicero Creek at Noblesville, Ind.

LOCATION.—Lat 40°03'20", long 86°02'30", in NW 1/4 NE 1/4 sec.35, T.19 N., R.4 E., Hamilton County, on right bank 150 ft downstream from bridge on State Highway 38, 1 mile northwest of Noblesville, 1.5 miles downstream from Hinkle Creek, and 2.5 miles upstream from mouth.

DRAINAGE AREA.—216 sq mi.

PERIOD OF RECORD.—July 1950 to current year.

GAGE.—Water-stage recorder. Datum of gage is 750.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—22 years, 181 cfs (11.38 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,370 cfs Apr. 20 (gage height, 12.40 ft); minimum daily, 1.3 cfs Oct. 8.
Period of record: Maximum discharge, 9,800 cfs June 28, 1957 (gage height, 15.26 ft); minimum daily, 0.6 cfs Sept. 25, 1954.

REMARKS.—Records good. Flow regulated by Morse Reservoir (See sta 03350300).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	8.0	13	569	112	192	149	246	79	28	12	12
2	20	20	28	443	108	755	130	224	67	29	2.3	24
3	5.5	29	143	375	112	678	130	198	60	76	2.9	23
4	10	7.0	2.3	425	84	438	213	172	81	279	3.5	21
5	5.0	2.9	1.8	381	73	317	266	141	87	220	2.9	12
6	2.2	10	2.3	290	79	218	249	128	103	160	3.7	1.8
7	1.4	20	130	257	76	194	1,070	130	82	117	5.8	1.8
8	1.3	3.1	590	202	69	189	1,260	161	78	94	18	3.5
9	3.0	3.7	487	202	64	134	1,030	178	82	79	34	3.9
10	4.0	5.8	381	326	58	114	811	152	88	75	32	3.1
11	2.5	2.7	508	357	57	101	587	143	75	75	21	2.9
12	1.4	2.7	440	299	58	117	474	125	58	75	3.1	2.9
13	1.5	3.7	306	288	70	121	451	158	35	73	3.9	3.5
14	1.8	5.4	492	209	73	125	373	235	224	48	2.7	8.5
15	2.1	5.8	1,670	139	106	105	306	273	295	29	2.7	44
16	5.1	9.0	1,580	132	119	114	521	240	348	30	2.5	60
17	9.0	12	979	130	108	125	930	183	240	30	3.1	47
18	3.3	14	581	138	114	123	632	156	165	31	3.3	31
19	4.2	46	420	150	110	99	513	141	127	531	5.4	28
20	6.6	17	341	160	72	92	2,810	119	108	620	4.8	15
21	11	73	284	160	82	92	2,850	106	99	350	3.1	20
22	34	11	233	178	82	132	2,680	97	117	209	2.7	11
23	28	2.3	207	328	79	121	1,970	84	110	145	2.7	18
24	27	2.7	211	337	82	67	1,310	78	76	114	3.3	43
25	26	2.7	200	279	81	69	888	73	75	110	3.1	75
26	21	2.1	202	154	90	72	638	60	53	82	4.2	260
27	16	12	193	138	88	84	490	51	32	82	4.8	860
28	18	3.9	178	125	94	82	388	47	28	79	3.5	745
29	16	13	161	115	117	112	326	37	28	48	3.5	748
30	16	35	498	132	------	169	286	112	29	34	3.5	1,060
31	20	------	885	119	------	161	------	101	------	24	3.3	------
TOTAL	344.9	385.5	12,347.4	7,537	2,517	5,512	24,731	4,349	3,129	3,976	207.3	4,188.9
MEAN	11.1	12.9	398	243	86.8	178	824	140	104	128	6.69	140
MAX	34	73	1,670	569	119	755	2,850	273	348	620	34	1,060
MIN	1.3	2.1	1.8	115	57	67	130	37	28	24	2.3	1.8

CAL YR 1971 TOTAL 54,461.2 MEAN 149 MAX 2,190 MIN 1.3
WTR YR 1972 TOTAL 69,225.0 MEAN 189 MAX 2,850 MIN 1.3

03350700 Stony Creek near Noblesville, Ind.

LOCATION.—Lat 40°01'44", long 85°59'42", in NE 1/4 NE 1/4 sec.7, T.18 N., R.5 E., Hamilton County, on left bank at downstream side of county road bridge, 1.4 miles upstream from mouth, and 1.4 miles southeast of Noblesville.

DRAINAGE AREA.—50.8 sq mi.

PERIOD OF RECORD.—July 1967 to current year.

GAGE.—Water-stage recorder. Datum of gage is 749.00 ft above mean sea level (State Highway Commission bench mark).

AVERAGE DISCHARGE.—5 years, 41.1 cfs (10.99 inches per year).

EXTREMES.—Current year: Maximum discharge, 763 cfs Apr. 22 (gage height, 5.54 ft); minimum daily, 4.7 cfs Oct. 13.
Period of record: Maximum discharge, 1,010 cfs Feb. 2, 1968 (gage height, 6.64 ft); maximum gage height, 6.91 ft Jan. 18, 1969 (backwater from ice); minimum daily discharge, 3.8 cfs Sept. 1, 1967.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.4	6.3	129	25	49	30	58	24	11	10	6.6
2	5.5	5.3	6.1	111	24	194	27	52	21	11	12	6.4
3	5.3	4.9	6.0	90	25	144	26	43	20	40	13	7.9
4	5.3	5.2	5.8	109	20	103	40	38	18	19	16	9.0
5	5.3	5.1	5.9	108	18	76	38	34	18	14	11	8.6
6	5.0	5.7	7.2	76	17	56	35	32	39	10	13	8.1
7	4.9	5.6	41	57	14	51	234	30	28	9.5	16	7.8
8	4.9	5.5	62	45	14	43	210	34	22	9.6	17	9.9
9	5.3	5.5	40	53	14	36	176	37	22	9.7	17	11
10	5.5	5.4	38	80	14	34	136	27	21	28	15	9.8
11	5.0	5.7	78	69	15	33	108	24	19	43	10	6.6
12	4.9	5.5	62	57	16	33	105	23	19	19	10	6.2
13	4.7	5.5	44	51	19	33	212	35	20	17	11	6.0
14	4.9	5.5	135	42	23	32	142	45	22	11	10	6.5
15	5.0	5.5	402	36	30	30	108	73	39	11	11	8.2
16	5.0	5.4	256	29	25	32	200	74	39	13	9.4	7.0
17	4.9	5.3	158	31	22	32	194	59	25	13	8.8	6.7
18	4.9	5.2	109	35	20	30	126	47	21	12	9.0	6.4
19	4.9	5.4	76	37	19	27	102	40	18	12	8.3	6.5
20	4.9	5.5	62	40	18	26	422	33	15	13	8.3	6.2
21	4.9	5.5	53	44	17	26	312	30	15	10	8.4	6.1
22	6.3	5.4	45	59	17	29	665	26	14	23	7.5	6.0
23	7.8	5.4	42	65	16	26	363	24	12	15	7.7	7.8
24	7.2	5.4	40	57	17	23	202	23	12	15	9.0	19
25	6.8	5.5	36	45	17	22	154	22	12	23	8.9	9.6
26	6.1	5.7	35	40	23	22	122	20	11	16	8.0	27
27	5.8	6.0	32	36	25	22	102	19	11	14	7.6	35
28	5.6	6.1	30	33	25	22	85	18	11	15	8.0	18
29	5.5	6.3	27	30	31	28	74	18	12	14	8.0	61
30	5.4	6.7	210	28	------	37	65	49	12	14	7.8	75
31	5.4	------	224	26	------	32	------	34	------	13	7.1	------
TOTAL	168.5	166.1	2,374.3	1,748	580	1,383	4,815	1,121	592	497.8	323.8	415.9
MEAN	5.44	5.54	76.6	56.4	20.0	44.6	161	36.2	19.7	16.1	10.4	13.9
MAX	7.8	6.7	402	129	31	194	665	74	39	43	17	75
MIN	4.7	4.9	5.8	26	14	22	26	18	11	9.5	7.1	6.0
CFSM	.11	.11	1.51	1.11	.39	.88	3.17	.71	.39	.32	.20	.27
IN.	.12	.12	1.74	1.28	.42	1.01	3.53	.82	.43	.36	.24	.30

CAL YR 1971 TOTAL 12,397.6 MEAN 34.0 MAX 610 MIN 4.7 CFSM .67 IN 9.08
WTR YR 1972 TOTAL 14,185.4 MEAN 38.8 MAX 665 MIN 4.7 CFSM .76 IN 10.39

PEAK DISCHARGE (BASE, 300 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1100	4.50	472	04-16	2000	3.91	307
12-30	2200	4.00	332	04-20	1600	4.82	562
04-07	2000	4.05	329	04-22	1200	5.54	763

03351000 White River near Nora, Ind.

LOCATION.—Lat 39°54'35", long 86°06'20", in NW 1/4 NW 1/4 sec.20, T.17 N., R.4 E., Marion County, on downstream side of center pier of bridge on State Highway 100, 2 miles east of Nora, 14 miles upstream from Fall Creek, and at mile 253.4.

DRAINAGE AREA.—1,219 sq mi.

PERIOD OF RECORD.—October 1929 to current year. Prior to April 1930 monthly discharge only, published in WSP 1305. Prior to October 1948, published as West Fork White River near Nora.

GAGE.—Water-stage recorder. Datum of gage is 710.94 ft above mean sea level (levels by Corps of Engineers). Oct. 26, 1929, to July 29, 1942, at site 200 ft downstream at same datum. Supplemental water-stage recorder 4.5 miles downstream.

AVERAGE DISCHARGE.—43 years, 1,053 cfs (11.73 inches per year).

EXTREMES.—Current year: Maximum discharge, 12,500 cfs Apr. 22 (gage height, 13.02 ft); minimum daily, 160 cfs Dec. 2, result of dredging.
Period of record: Maximum discharge, 32,400 cfs May 19, 1943; maximum gage height, 18.65 ft Apr. 23, 1964; minimum daily discharge, 49 cfs Sept. 17, 1941.
Flood of Mar. 26, 1913, reached a stage of 22.4 ft, from floodmark, determined by State Highway Department of Indiana (discharge, 58,500 cfs).

REMARKS.—Records good except those for January and February, which are fair. Flow slightly regulated by Morse Reservoir (See sta 03350300).

REVISIONS (WATER YEARS).—WSP 1335: 1930-31, 1934(m), 1936, 1941, 1943, 1945, 1947-48. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	234	255	4,480	620	760	948	1,630	754	505	272	169
2	293	234	160	2,890	640	2,430	854	1,510	744	530	262	175
3	269	234	306	2,320	680	5,060	760	1,400	675	560	258	227
4	244	230	280	2,210	520	4,660	918	1,270	650	1,280	280	255
5	248	224	224	2,370	470	2,910	1,190	1,130	580	1,180	322	248
6	262	214	262	2,050	430	1,970	1,160	1,030	732	815	333	208
7	234	211	495	1,650	450	1,520	2,470	978	690	665	329	184
8	208	208	446	1,340	460	1,340	5,580	978	595	560	329	234
9	202	199	2,210	1,190	430	1,100	5,900	1,110	560	505	329	238
10	214	199	1,620	1,480	410	954	4,360	1,140	555	465	297	211
11	230	199	1,800	2,060	410	864	3,360	1,130	525	455	276	178
12	211	202	1,920	1,860	430	826	2,720	1,000	485	446	269	163
13	196	196	1,420	1,580	475	820	2,730	997	485	455	248	166
14	187	193	1,520	1,200	500	826	3,120	1,240	978	424	227	209
15	184	190	4,450	900	600	837	2,410	2,060	1,870	378	211	314
16	187	181	7,480	720	690	810	2,280	2,870	1,810	424	214	401
17	184	184	6,550	800	754	842	3,860	2,400	1,750	665	230	337
18	181	190	5,940	920	705	954	3,960	1,840	1,230	590	217	283
19	169	190	2,420	980	665	815	2,740	1,450	936	713	208	244
20	169	211	1,920	984	580	732	5,360	1,210	788	1,330	202	353
21	172	211	1,610	1,020	535	716	10,100	1,060	722	1,100	190	349
22	196	227	1,420	1,110	525	760	12,200	948	722	859	184	290
23	266	211	1,260	1,560	525	804	11,400	882	771	776	181	266
24	353	193	1,170	1,660	525	749	9,250	810	635	590	202	407
25	410	193	1,100	1,500	520	655	5,190	744	570	535	205	936
26	378	193	1,020	1,160	540	605	3,490	690	535	500	199	900
27	357	193	978	972	570	595	2,750	645	485	465	193	2,160
28	314	196	918	820	585	600	2,300	600	455	406	187	3,110
29	283	211	837	740	635	635	1,980	570	450	374	178	2,620
30	258	227	1,490	640	------	924	1,770	705	437	322	175	3,040
31	244	------	4,140	600	------	1,090	------	826	------	294	175	------
TOTAL	7,604	6,178	57,621	45,766	15,879	39,063	117,110	36,853	23,174	19,166	7,382	18,874
MEAN	245	206	1,859	1,476	548	1,260	3,904	1,189	772	618	238	629
MAX	410	234	7,480	4,480	754	5,060	12,200	2,870	1,870	1,330	333	3,110
MIN	169	181	160	600	410	595	760	570	437	294	175	163
CFSM	.20	.17	1.53	1.21	.45	1.03	3.20	.98	.63	.51	.20	.52
IN.	.23	.19	1.76	1.40	.48	1.19	3.57	1.12	.71	.58	.23	.58

CAL YR 1971 TOTAL 313,285 MEAN 858 MAX 9,340 MIN 151 CFSM .70 IN 9.56
WTR YR 1972 TOTAL 394,670 MEAN 1,078 MAX 12,200 MIN 160 CFSM .88 IN 12.04

PEAK DISCHARGE (BASE, 7,000 CFS).—Dec. 16 (2000) 7,870 cfs (10.41 ft). Apr. 22 (1300) 12,500 cfs (13.02 ft).

03351000 White River near Nora, Ind.—Continued

PERIOD OF RECORD.—Water temperatures: June 1954 to May 1960, October 1962 to April 1972 (discontinued).

EXTREMES.—1971-72:
Water temperatures: Minimum, freezing point Feb. 5.

Period of record:
Water temperatures: Maximum, 32.0°C July 14, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.—Temperatures affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	22.0	17.0	16.0	4.0	3.0	4.5	4.0	1.0	0.5	6.0	5.0
2	23.0	22.0	16.0	16.0	4.5	3.0	4.0	3.5	1.0	1.0	6.5	6.0
3	23.5	23.0	16.0	15.5	4.0	2.0	3.5	3.0	1.0	1.0	6.5	5.5
4	23.5	23.5	15.5	13.5	4.0	3.0	3.0	3.0	1.0	0.5	5.5	5.5
5	23.5	23.0	13.5	13.0	4.0	4.0	3.0	3.0	0.5	0.0	5.5	5.0
6	23.5	22.5	13.0	13.0	4.5	4.0	3.0	2.0	0.5	0.5	5.0	4.0
7	22.5	21.0	13.0	11.5	5.0	4.5	2.0	2.0	1.0	0.5	4.5	4.0
8	21.0	19.5	11.5	10.0	6.0	5.0	2.0	1.5	0.5	0.5	4.5	4.0
9	19.5	19.0	10.0	9.5	6.0	6.0	1.5	1.5	0.5	0.5	4.5	4.5
10	19.0	18.0	9.5	9.5	6.5	6.0	1.5	1.5	0.5	0.5	5.0	4.5
11	18.0	17.0	10.5	9.5	7.0	6.5	2.0	1.5	0.5	0.5	5.0	5.0
12	17.0	17.0	11.0	10.5	7.5	7.0	2.0	2.0	1.0	0.5	6.0	5.0
13	17.0	16.5	12.0	11.0	8.0	7.5	2.0	2.0	1.5	1.0	7.0	6.0
14	16.5	16.0	13.0	12.0	8.0	7.0	2.0	2.0	2.0	1.5	7.5	7.0
15	16.0	16.0	14.0	13.0	7.5	7.0	2.0	1.0	3.0	2.0	7.5	7.0
16	16.5	16.0	14.5	14.0	8.0	7.5	1.5	1.0	3.0	2.5	7.0	7.0
17	17.0	16.5	14.5	14.5	8.0	8.0	1.5	1.0	3.0	3.0	7.0	7.0
18	17.0	17.0	15.0	14.5	8.0	6.5	1.0	1.0	3.5	3.0	7.0	7.0
19	17.5	17.0	15.5	15.0	6.5	6.0	1.0	1.0	3.5	3.5	7.0	7.0
20	18.0	17.5	15.0	13.0	6.0	4.0	1.0	0.5	3.5	3.5	7.0	7.0
21	18.0	18.0	13.0	11.0	4.0	4.0	0.5	0.5	3.5	3.5	8.0	7.0
22	18.0	18.0	11.0	8.5	4.0	4.0	1.0	0.5	3.5	3.5	8.5	8.0
23	18.0	18.0	8.5	6.5	4.0	4.0	2.0	1.0	3.5	3.5	8.5	8.5
24	18.0	18.0	6.5	5.5	4.0	4.0	2.0	2.0	3.5	3.5	8.5	8.0
25	18.0	17.5	5.5	4.5	4.0	4.0	2.0	2.0	3.5	3.5	8.0	8.0
26	17.5	17.0	4.5	4.0	4.0	4.0	2.0	2.0	4.0	3.5	8.5	8.0
27	17.0	17.0	4.0	4.0	4.5	4.0	2.0	1.5	4.0	4.0	8.5	8.5
28	17.0	17.0	4.0	4.0	5.0	4.5	1.5	1.0	4.5	4.0	9.0	8.5
29	17.0	17.0	4.0	4.0	5.0	5.0	1.0	1.0	5.0	4.5	9.0	9.0
30	17.0	17.0	4.0	4.0	5.0	5.0	1.0	0.5	---	---	9.0	8.5
31	17.0	17.0	---	---	5.0	4.5	1.0	0.5	---	---	9.0	9.0
MONTH	23.5	16.0	17.0	4.0	8.0	2.0	4.5	0.5	5.0	0.0	9.0	4.0

03351000 White River near Nora, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	---	---	---	---	---	---	---	---	---	---
2	9.0	9.0	---	---	---	---	---	---	---	---	---	---
3	9.0	9.0	---	---	---	---	---	---	---	---	---	---
4	9.0	8.5	---	---	---	---	---	---	---	---	---	---
5	9.0	9.0	---	---	---	---	---	---	---	---	---	---
6	9.5	9.0	---	---	---	---	---	---	---	---	---	---
7	10.5	9.5	---	---	---	---	---	---	---	---	---	---
8	10.0	9.0	---	---	---	---	---	---	---	---	---	---
9	9.0	9.0	---	---	---	---	---	---	---	---	---	---
10	9.5	9.0	---	---	---	---	---	---	---	---	---	---
11	10.0	9.0	---	---	---	---	---	---	---	---	---	---
12	11.0	10.0	---	---	---	---	---	---	---	---	---	---
13	13.0	11.0	---	---	---	---	---	---	---	---	---	---
14	14.0	13.0	---	---	---	---	---	---	---	---	---	---
15	14.0	14.0	---	---	---	---	---	---	---	---	---	---
16	14.5	14.0	---	---	---	---	---	---	---	---	---	---
17	15.0	14.5	---	---	---	---	---	---	---	---	---	---
18	15.0	15.0	---	---	---	---	---	---	---	---	---	---
19	15.0	15.0	---	---	---	---	---	---	---	---	---	---
20	16.0	15.0	---	---	---	---	---	---	---	---	---	---
21	16.0	16.0	---	---	---	---	---	---	---	---	---	---
22	16.0	15.5	---	---	---	---	---	---	---	---	---	---
23	15.5	15.0	---	---	---	---	---	---	---	---	---	---
24	15.0	14.5	---	---	---	---	---	---	---	---	---	---
25	14.5	14.0	---	---	---	---	---	---	---	---	---	---
26	14.0	14.0	---	---	---	---	---	---	---	---	---	---
27	14.0	14.0	---	---	---	---	---	---	---	---	---	---
28	14.5	14.0	---	---	---	---	---	---	---	---	---	---
29	14.5	14.5	---	---	---	---	---	---	---	---	---	---
30	14.5	14.5	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	16.0	8.5	---	---	---	---	---	---	---	---	---	---

03351310 Crooked Creek at Indianapolis, Ind.

LOCATION.—Lat 39°49'47", long 86°12'22", in NW 1/4 SE 1/4 sec.16, T.16 N., R.3 E., Marion County, on left bank 150 ft downstream from 42nd Street bridge in Indianapolis.

DRAINAGE AREA.—17.9 sq mi.

PERIOD OF RECORD.—June 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 711.00 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 795 cfs Dec. 14 (gage height, 5.38 ft); minimum daily, 0.47 cfs Dec. 2.
Period of record: Maximum discharge, 858 cfs Nov. 19, 1970 (gage height, 5.58 ft); minimum daily, 0.47 cfs Dec. 2, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	.52	27	5.0	40	11	14	8.1	4.7	1.9	1.5
2	1.4	1.2	.47	32	4.8	180	9.5	12	6.8	4.4	1.9	6.5
3	1.4	1.2	1.2	22	4.6	58	19	11	5.4	4.7	25	25
4	2.2	1.1	.83	44	4.5	41	37	9.5	4.7	4.1	4.9	5.1
5	1.5	.67	.81	25	4.4	28	21	9.0	4.1	3.9	2.6	3.1
6	1.4	.72	5.6	17	4.3	20	16	8.1	78	3.6	11	2.3
7	1.4	.92	44	14	4.2	20	263	8.1	20	3.6	9.1	1.9
8	1.4	.89	11	11	4.1	16	94	15	11	3.6	4.3	41
9	4.2	.89	8.5	21	4.0	13	64	17	12	3.3	8.2	6.2
10	2.4	.82	22	26	4.0	11	44	11	13	3.3	2.9	2.8
11	1.9	.80	63	19	4.0	11	37	8.6	7.2	3.3	2.8	1.7
12	1.6	.83	22	15	4.0	11	43	7.7	6.1	3.1	14	1.5
13	1.8	.94	14	12	7.0	13	40	19	23	2.9	4.4	1.4
14	2.3	.70	318	9.8	16	12	31	17	48	2.7	13	5.6
15	2.0	.63	280	8.4	25	10	24	14	188	7.2	21	2.8
16	1.4	.81	82	7.4	16	12	116	13	55	4.4	5.9	2.2
17	1.3	.65	41	6.8	12	11	54	11	27	2.9	3.5	1.6
18	1.4	.65	24	6.2	10	9.0	33	8.6	17	2.7	2.8	1.8
19	1.4	.80	18	6.0	8.0	8.1	27	7.2	12	2.5	2.3	1.7
20	1.4	.68	20	9.0	7.0	7.7	114	6.5	10	2.3	1.9	1.5
21	1.9	.70	17	13	6.5	8.1	144	6.1	8.1	2.3	1.8	1.3
22	11	.65	13	34	6.0	12	253	5.4	6.8	2.1	1.9	1.4
23	4.8	.66	11	28	5.5	8.6	78	4.7	6.1	2.1	2.2	18
24	4.2	.65	11	20	6.0	6.8	43	4.4	5.8	5.8	4.1	6.7
25	4.6	.61	9.0	14	7.0	6.5	31	3.9	5.4	5.0	2.5	7.9
26	3.6	.61	9.0	10	8.0	6.1	26	3.6	5.8	2.7	2.3	43
27	3.0	1.1	8.6	7.8	9.0	7.2	22	3.3	5.0	9.5	1.9	18
28	2.1	1.1	7.7	6.8	16	7.2	17	3.3	11	3.6	1.5	8.9
29	2.2	1.8	6.5	6.2	16	26	17	3.1	8.1	2.5	1.7	42
30	2.3	1.3	102	5.6	------	17	17	51	6.1	1.9	1.5	22
31	1.6	------	44	5.4	------	12	------	15	------	1.9	1.5	------
TOTAL	76.4	26.38	1,215.73	489.4	232.9	649.3	1,745.5	331.1	624.6	112.6	166.3	286.4
MEAN	2.46	.88	39.2	15.8	8.03	20.9	58.2	10.7	20.8	3.63	5.36	9.55
MAX	11	1.8	318	44	25	180	263	51	188	9.5	25	43
MIN	1.3	.61	.47	5.4	4.0	6.1	9.5	3.1	4.1	1.9	1.5	1.3
CFSM	.14	.05	2.19	.88	.45	1.17	3.25	.60	1.16	.20	.30	.53
IN.	.16	.05	2.53	1.02	.48	1.35	3.63	.69	1.30	.23	.35	.60

CAL YR 1971 TOTAL 4,886.61 MEAN 13.4 MAX 318 MIN .47 CFSM .75 IN 10.16
WTR YR 1972 TOTAL 5,956.61 MEAN 16.3 MAX 318 MIN .47 CFSM .91 IN 12.38

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1930	5.38	795	04-22	0215	4.80	470
12-30	1000	4.16	252	06-06	0930	4.03	228
03-02	0815	4.22	275	06-15	1145	4.57	378
04-07	0615	4.65	410				

03351400 Sugar Creek near Middletown, Ind.

LOCATION.—Lat 40°02'27", long 85°31'30", in NW 1/4 SE 1/4 sec.5, T.18 N., R.9 E., Henry County, on right bank 90 ft upstream from bridge on County Road 750 North, 1 mile southeast of Middletown.

DRAINAGE AREA.—5.80 sq mi.

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 950.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 278 cfs Dec. 14 (gage height, 5.75 ft); minimum daily, 0.02 cfs Aug. 30 to Sept. 2. Period of record: Maximum discharge, 278 cfs Dec. 14, 1971 (gage height, 5.75 ft); maximum gage height, 6.16 ft Feb. 17, 1971 (backwater from ice); minimum daily discharge, 0.02 cfs Aug. 30 to Sept. 2, 1972.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.44	.90	18	1.6	18	2.7	2.7	1.8	.33	.33	.02
2	.33	.53	.68	16	1.6	67	2.2	2.4	1.5	.30	.42	.02
3	.27	.63	.68	12	1.5	30	2.2	2.0	1.2	.36	.86	.03
4	.33	.53	.68	15	1.2	19	7.0	1.3	1.0	.30	.27	.03
5	.27	.44	.63	13	1.0	11	5.4	1.2	1.0	.30	.18	.03
6	.22	.48	6.4	9.8	.92	7.0	4.7	1.1	1.2	.27	.27	.03
7	.20	.53	32	7.6	.90	6.0	53	1.1	1.1	.22	.27	.03
8	.20	.44	21	5.4	.88	4.3	32	8.1	.90	.20	.22	.12
9	.27	.44	12	14	.90	4.1	25	14	1.0	.18	.22	.04
10	.27	.53	10	20	.94	3.5	18	6.2	.90	.18	.27	.04
11	.22	.44	7.9	13	1.0	3.3	12	3.7	.78	.16	.20	.04
12	.20	.44	6.7	10	1.1	3.1	40	2.7	.78	.16	.20	.04
13	.20	.44	4.3	8.5	1.4	3.1	48	14	2.5	.16	.20	.04
14	.20	.44	100	6.6	4.5	3.1	22	21	1.8	.16	.16	.12
15	.20	.40	110	4.3	8.8	2.7	12	14	7.6	.80	.16	.06
16	.18	.40	48	4.0	4.1	3.3	50	8.5	4.7	.63	.16	.05
17	.18	.40	28	4.6	3.3	3.1	26	6.7	1.4	.40	.14	.04
18	.18	.40	16	5.2	4.5	2.4	15	5.4	1.0	.40	.10	.04
19	.20	.58	10	5.7	3.7	2.0	10	4.5	.78	1.6	.06	.04
20	.20	.58	7.3	6.7	3.0	2.0	36	4.1	.78	.53	.06	.04
21	.36	.58	6.2	6.7	2.0	2.4	33	3.5	.73	.40	.06	.04
22	1.7	.48	4.7	7.6	1.6	3.9	55	2.7	.63	.40	.06	.05
23	1.5	.44	4.7	6.7	1.4	3.5	34	2.4	.48	.40	.06	.30
24	4.0	.44	3.9	6.2	1.4	2.9	18	2.1	.48	.44	.06	.20
25	3.8	.44	3.1	4.7	1.5	2.6	10	1.8	.48	.40	.05	.20
26	1.6	.44	3.3	3.4	3.9	2.2	7.0	1.4	.44	.40	.05	1.8
27	1.0	.58	2.7	2.6	4.1	2.4	4.7	1.2	.40	.36	.04	1.0
28	.78	.63	2.0	2.1	4.3	2.0	4.1	1.2	.36	.36	.03	.44
29	.58	.78	1.8	1.7	7.9	3.1	3.5	1.2	.48	.40	.03	3.8
30	.53	1.2	54	1.5	------	3.5	3.1	3.1	.44	.40	.02	4.5
31	.48	------	26	1.6	------	2.9	------	3.1	------	.33	.02	------
TOTAL	21.01	15.52	535.57	244.2	74.94	229.4	595.6	148.4	38.64	11.93	5.23	13.23
MEAN	.68	.52	17.3	7.88	2.58	7.40	19.9	4.79	1.29	.38	.17	.44
MAX	4.0	1.2	110	20	8.8	67	55	21	7.6	1.6	.86	4.5
MIN	.18	.40	.63	1.5	.88	2.0	2.2	1.1	.36	.16	.02	.02
CFSM	.12	.09	2.98	1.36	.44	1.28	3.43	.83	.22	.07	.03	.08
IN.	.13	.10	3.44	1.57	.48	1.47	3.82	.95	.25	.08	.03	.08

CAL YR 1971 TOTAL 1,823.61 MEAN 5.00 MAX 110 MIN .08 CFSM .86 IN 11.70
WTR YR 1972 TOTAL 1,933.67 MEAN 5.28 MAX 110 MIN .02 CFSM .91 IN 12.40

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1900	5.75	278	04-12	1930	4.74	151
12-30	1000	4.53	121				

03351500 Fall Creek near Fortville, Ind.

LOCATION.—Lat 39°57'15", long 85°52'05", in NW 1/4 NE 1/4 sec.5, T.17 N., R.6 E., Hamilton County, on right bank 100 ft downstream from bridge on State Highway 238, 1 mile downstream from Lick Creek, and 2 miles northwest of Fortville.

DRAINAGE AREA.—169 sq mi.

PERIOD OF RECORD.—July 1941 to current year.

GAGE.—Water-stage recorder. Datum of gage is 787.43 ft above mean sea level (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—31 years, 160 cfs (12.86 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,340 cfs Dec. 15 (gage height, 7.20 ft); minimum daily, 27 cfs Sept. 1.
Period of record: Maximum discharge, 8,750 cfs Apr. 21, 1964 (gage height, 9.88 ft); minimum daily, 5.0 cfs Sept. 23, 24, 1941.
Maximum stage known, about 12 ft March 1913 (information by local resident).

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1435: 1949(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	56	63	489	94	200	141	232	119	66	45	27
2	43	54	64	392	105	1,160	134	220	106	63	45	30
3	42	52	61	344	92	1,010	131	202	100	67	71	38
4	51	50	59	339	84	552	175	189	94	64	77	38
5	54	48	58	337	78	382	182	174	89	61	55	34
6	44	48	75	274	74	286	167	163	130	58	56	31
7	41	48	289	237	70	256	751	159	118	55	63	29
8	39	46	445	201	66	229	855	183	101	54	58	40
9	48	46	277	224	62	197	615	234	100	52	59	41
10	53	48	226	327	60	181	461	209	97	53	54	33
11	48	47	250	287	62	172	366	176	88	55	48	31
12	44	46	212	240	66	171	320	161	84	52	50	30
13	42	45	176	223	74	167	797	185	107	52	46	30
14	42	44	554	170	80	165	589	383	143	48	42	40
15	42	44	2,010	130	142	155	380	608	287	57	41	49
16	40	43	1,740	100	138	157	648	410	359	115	42	39
17	39	43	809	120	115	158	800	303	222	89	40	34
18	38	42	480	150	110	151	467	243	163	72	37	33
19	38	43	363	160	100	141	354	208	135	76	36	33
20	37	45	320	162	94	134	594	185	121	92	36	31
21	37	43	293	174	90	132	622	168	120	71	33	30
22	70	42	260	180	86	155	1,360	156	110	64	32	29
23	134	40	237	187	84	159	1,100	143	95	58	33	42
24	105	41	224	172	88	144	679	134	90	69	34	66
25	119	42	204	159	98	137	470	126	85	68	33	55
26	105	41	198	130	105	132	373	117	82	60	32	76
27	87	45	185	110	120	131	316	109	74	57	31	111
28	79	48	170	95	138	129	273	105	74	55	31	84
29	70	51	155	88	156	135	250	102	75	51	30	101
30	63	58	607	82	------	161	245	123	72	48	29	162
31	60	------	879	80	------	147	------	142	------	46	28	------
TOTAL	1,811	1,389	11,943	6,363	2,731	7,586	14,615	6,252	3,640	1,948	1,347	1,447
MEAN	58.4	46.3	385	205	94.2	245	487	202	121	62.8	43.5	48.2
MAX	134	58	2,010	489	156	1,160	1,360	608	359	115	77	162
MIN	37	40	58	80	60	129	131	102	72	46	28	27
CFSM	.35	.27	2.28	1.21	.56	1.45	2.88	1.20	.72	.37	.26	.29
IN.	.40	.31	2.63	1.40	.60	1.67	3.22	1.38	.80	.43	.30	.32

CAL YR 1971 TOTAL 53,406 MEAN 146 MAX 2,170 MIN 26 CFSM .86 IN 11.76
WTR YR 1972 TOTAL 61,072 MEAN 167 MAX 2,010 MIN 27 CFSM .99 IN 13.44

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2100	7.20	2,340	04-22	1600	5.91	1,460
03-02	1700	5.87	1,440				

03351700 Geist Reservoir near Oaklandon, Ind.

LOCATION.—Lat 39°54'26", long 85°59'07", in SW 1/4 NE 1/4 sec.20, T.17 N., R.5 E., Marion County, in intake structure of reservoir on Fall Creek, 2.6 miles northwest of Oaklandon, 17 miles above mouth.

DRAINAGE AREA.—215 sq mi.

PERIOD OF RECORD.—January 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 755.00 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 23,640 acre-ft Dec. 16 (elevation, 786.24 ft); minimum, 18,790 acre-ft Oct. 21, 22 (elevation, 783.65 ft).
Period of record: Maximum contents, 27,360 acre-ft May 18, 1943 (elevation, 788.02 ft); minimum, 11,230 acre-ft Jan. 5, 1964 (elevation, 778.42 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by a 36-inch valve. Minimum design capacity is essentially empty at invert on outlet conduit at elevation of 756.75 ft. Capacity at uncontrolled spillway elevation (785 ft) is 21,180 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir filled for first time on March 17, 1943.

COOPERATION.—Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	784.00	19,400	-
Oct. 31	784.11	19,590	+190
Nov. 30	784.05	19,480	-110
Dec. 31	785.79	22,710	+3,230
Calendar year 1971	-	-	+4,620
Jan. 31	785.20	21,560	-1,150
Feb. 29	785.23	21,610	+50
Mar. 31	785.32	21,780	+170
Apr. 30	785.43	21,990	+210
May 31	785.31	21,760	-230
June 30	785.22	21,590	-170
July 31	785.13	21,420	-170
Aug. 31	784.53	20,340	-1,080
Sept. 30	784.57	20,410	+70
Water year 1972	-	-	+1,010

Diversion for municipal supply for city of Indianapolis

Water supply for the city of Indianapolis is from both White River and Fall Creek. Water from White River is diverted below White River near Nora (03351000) into Indianapolis Water Canal at Westfield Boulevard. Water from Fall Creek is diverted below Fall Creek at Millersville (03352500) at pumping station at Keystone Avenue. The return flow of the diversion is made below White River at Indianapolis (03353000). Major return flow is made at mouth of Eagle Creek and minor return flow is made at Southport Road.

Diversion, monthly and yearly means in cfs

			1971									1972
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
140	133	128	139	133	134	134	137	154	159	165	166	156	145

03352200 Mud Creek at Indianapolis, Ind.

LOCATION.—Lat 39°53'30", long 86°00'57", in SE 1/4 NE 1/4 sec.25, T.17 N., R.4 E., Marion County, on left bank at downstream side of Lantern Road bridge at Indianapolis, 0.2 mile northeast of intersection of 75th Street and Sargent Road, 1.5 miles upstream from mouth, and 2.0 miles southeast of Castleton.

DRAINAGE AREA.—42.4 sq mi.

PERIOD OF RECORD.—May 1958 to current year.

GAGE.—Water-stage recorder. Datum of gage is 752.99 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—14 years, 34.2 cfs (10.95 inches per year).

EXTREMES.—Current year: Maximum discharge, 568 cfs Dec. 15 (gage height, 6.47 ft); minimum daily, 3.2 cfs Aug. 31, Sept. 1. Period of record: Maximum discharge, 2,010 cfs Apr. 21, 1964 (gage height, 8.37 ft); minimum daily, 0.2 cfs several days in September 1963, 1966.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.4	5.4	181	22	47	23	45	15	9.9	6.6	3.2
2	4.4	5.0	5.0	145	22	256	21	42	13	9.3	6.4	3.5
3	4.7	4.9	4.9	116	21	188	21	38	12	9.6	7.0	5.4
4	4.7	4.9	5.0	129	20	120	38	35	12	11	6.6	4.6
5	4.7	4.9	5.0	124	19	79	34	32	11	9.9	5.8	4.0
6	4.6	5.0	8.3	87	17	55	31	30	28	9.3	6.8	3.6
7	4.3	4.7	74	66	15	50	290	29	25	9.1	7.5	3.5
8	4.1	4.6	152	52	14	43	225	31	19	8.6	7.3	8.1
9	4.4	4.7	93	63	14	36	177	32	17	8.3	6.8	5.6
10	4.9	4.7	81	96	14	33	133	28	16	8.3	5.8	4.1
11	4.7	4.6	189	81	15	32	99	26	13	44	5.6	4.0
12	4.3	4.4	154	65	15	32	86	25	12	19	5.8	3.8
13	4.1	4.4	95	60	17	30	128	32	23	13	5.4	3.8
14	4.4	4.3	219	45	21	29	114	39	24	11	5.0	5.0
15	4.4	4.1	516	35	37	27	81	47	83	10	5.0	6.4
16	4.3	4.1	410	30	29	28	195	67	62	14	5.0	5.0
17	4.1	4.1	219	30	24	27	195	41	37	10	4.6	4.6
18	4.0	4.3	146	40	21	23	122	33	28	8.6	4.4	4.4
19	4.0	4.7	105	43	19	21	88	29	23	12	4.3	4.3
20	3.8	4.7	84	48	17	20	194	26	21	13	4.1	4.1
21	3.7	4.9	70	54	16	20	218	24	19	9.1	4.1	4.0
22	6.6	4.6	58	57	16	22	452	22	17	21	4.0	3.8
23	14	4.3	52	62	16	20	337	20	15	19	4.0	6.8
24	14	4.4	50	54	17	18	196	19	15	14	5.4	9.6
25	11	4.3	46	46	17	18	138	17	14	19	4.3	8.8
26	9.3	4.3	44	37	26	17	103	16	13	13	4.0	16
27	8.6	4.6	41	32	27	17	77	15	12	13	3.8	23
28	7.5	4.6	37	27	27	17	62	14	11	9.6	3.8	15
29	6.8	5.0	33	24	33	23	54	14	12	8.1	3.6	29
30	6.2	5.6	230	22	------	31	49	17	11	7.5	3.5	52
31	5.8	------	329	20	------	25	------	16	------	6.8	3.2	------
TOTAL	180.6	139.1	3,560.6	1,971	588	1,404	3,981	901	633	388.0	159.5	259.0
MEAN	5.83	4.64	115	63.6	20.3	45.3	133	29.1	21.1	12.5	5.15	8.63
MAX	14	5.6	516	181	37	256	452	67	83	44	7.5	52
MIN	3.7	4.1	4.9	20	14	17	21	14	11	6.8	3.2	3.2
CFSM	.14	.11	2.71	1.50	.48	1.07	3.14	.69	.50	.29	.12	.20
IN.	.16	.12	3.12	1.73	.52	1.23	3.49	.79	.56	.34	.14	.23

CAL YR 1971 TOTAL 13,893.8 MEAN 38.1 MAX 516 MIN 3.1 CFSM .90 IN 12.19
WTR YR 1972 TOTAL 14,164.8 MEAN 38.7 MAX 516 MIN 3.2 CFSM .91 IN 12.43

PEAK DISCHARGE (BASE, 450 CFS).—Dec. 15 (1100) 568 cfs (6.47 ft). Apr. 22 (1400) 483 cfs (6.06 ft).

03352500 Fall Creek at Millersville, Ind.

LOCATION.—Lat 39°51'07", long 86°05'15", in NE 1/4 NE 1/4 sec.9, T.16 N., R.4 E., Marion County, on right bank at downstream side of Emerson Way bridge at Millersville, 8.6 miles upstream from mouth.

DRAINAGE AREA.—298 sq mi.

PERIOD OF RECORD.—October 1929 to current year. Monthly discharges only for some periods, published in WSP 1305. Twice-daily chain gage readings at former site and datum from July 1925 to September 1926 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 722.16 ft above mean sea level. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.—43 years, 271 cfs (12.35 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,250 cfs Dec. 16 (gage height, 8.50 ft); minimum daily, 51 cfs Dec. 5.
Period of record: Maximum discharge, 12,900 cfs May 28, 1956 (gage height, 13.53 ft); minimum daily, 7.8 cfs Sept. 28, 1941.
Maximum stage known, 16.3 ft Mar. 26, 1913, from floodmarks (discharge, 22,000 cfs by slope-area measurement).

REMARKS.—Records good. Flow regulated by Geist Reservoir (See sta 03351700).

REVISIONS (WATER YEARS).—WSP 1335: 1930-31, 1933, 1936-38, 1942-43. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	81	58	1,120	169	320	248	399	179	115	65	67
2	81	82	52	860	178	1,630	240	392	155	105	74	89
3	82	81	52	728	175	1,840	248	356	142	110	78	143
4	105	80	52	720	150	1,270	323	311	138	112	99	87
5	96	80	51	704	140	912	305	273	126	102	72	75
6	88	81	79	560	135	684	290	240	273	93	87	71
7	85	80	159	486	130	532	1,570	240	258	83	93	68
8	83	79	265	420	125	458	1,730	296	192	77	83	117
9	98	81	434	420	115	380	1,360	341	175	78	91	90
10	88	80	462	572	115	332	1,080	311	197	79	81	80
11	86	77	596	592	120	270	876	273	117	129	76	80
12	83	69	516	516	125	270	776	238	106	111	89	80
13	81	64	395	476	135	268	856	323	210	91	78	78
14	81	63	1,040	350	159	253	1,060	540	363	75	73	97
15	79	63	2,700	250	245	245	828	1,030	846	84	74	91
16	76	58	3,030	180	260	240	1,140	1,170	959	125	70	88
17	75	59	1,810	220	230	243	1,440	832	683	131	67	86
18	75	59	1,030	281	210	233	1,070	604	453	110	67	83
19	75	64	756	308	190	205	816	469	339	118	67	79
20	73	62	628	323	180	188	967	374	282	123	67	78
21	76	60	532	344	170	183	1,210	305	238	117	65	78
22	121	59	462	359	160	203	2,410	273	199	204	66	78
23	109	58	402	386	160	213	2,230	240	156	118	70	124
24	105	59	374	365	150	210	1,480	213	140	110	86	249
25	101	59	356	311	159	185	1,050	192	129	143	74	136
26	93	59	335	281	188	169	796	174	129	109	72	255
27	91	63	314	230	210	185	656	149	124	108	71	214
28	88	60	287	190	223	180	540	133	130	104	71	139
29	86	70	263	170	245	210	469	127	130	81	69	244
30	83	75	832	150	------	253	434	212	123	61	68	288
31	82	------	1,520	140	------	248	------	212	------	62	67	------
TOTAL	2,707	2,065	19,842	13,012	4,951	13,012	28,498	11,242	7,691	3,268	2,330	3,532
MEAN	87.3	68.8	640	420	171	420	950	363	256	105	75.2	118
MAX	121	82	3,030	1,120	260	1,840	2,410	1,170	959	204	99	288
MIN	73	58	51	140	115	169	240	127	106	61	65	67

CAL YR 1971 TOTAL 96,455 MEAN 264 MAX 3,260 MIN 50
WTR YR 1972 TOTAL 112,150 MEAN 306 MAX 3,030 MIN 51

03353000 White River at Indianapolis, Ind.

LOCATION.—Lat 39°45'05", long 86°10'30", in NW 1/4 NW 1/4 sec.14, T.15 N., R.3 E., Marion County, on downstream side of second pier from right bank of Morris Street bridge in Indianapolis, 2.5 miles downstream from Fall Creek, and at mile 235.8.
DRAINAGE AREA.—1,635 sq mi.
PERIOD OF RECORD.—March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of U.S. Weather Bureau for site 1.1 miles upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 miles upstream since Oct. 16, 1913. Prior to October 1948, published as West Fork White River at Indianapolis.
GAGE.—Water-stage recorder. Datum of gage is 662.26 ft above mean sea level. March 1904 to July 1906, nonrecording gage at railroad bridge 0.8 mile upstream at datum approximately 2.9 ft higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant, 2.5 miles downstream at datum 660 ft lower. July 21, 1931, to Mar. 2, 1932, nonrecording gage at present site at datum 660 ft lower.
AVERAGE DISCHARGE.—43 years (1904-5, 1930 to current year), 1,342 cfs (11.15 inches per year).
EXTREMES.—Current year: Maximum discharge, 17,300 cfs Apr. 22 (gage height, 13.94 ft); minimum daily, 123 cfs Dec. 3.
Period of record: Maximum discharge, 37,200 cfs May 18, 1943; maximum gage height, 21.57 ft Jan. 16, 1937; minimum daily discharge, 8.0 cfs Sept. 29, 1941.
Flood of Mar. 26, 1913, reached a stage of 30.0 ft, from floodmarks determined by Indianapolis Water Co. (discharge, 70,000 cfs).
REMARKS.—Records good. Natural flow affected by regulation of Morse Reservoir (See sta 03350300) and Geist Reservoir (See sta 03351700), and by diversion of municipal water supply by the Indianapolis Water Co.
REVISIONS (WATER YEARS).—WSP 1335: 1932-33, 1937, 1939-41. WSP 1505: 1938. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	216	186	6,370	862	1,060	1,220	2,040	1,010	495	246	134
2	274	208	178	4,460	860	4,740	1,080	1,770	952	557	278	378
3	299	196	123	3,250	740	7,190	1,080	1,650	864	527	658	705
4	378	190	196	2,980	620	6,760	1,330	1,440	784	980	311	294
5	254	192	170	3,080	540	4,420	1,510	1,270	711	1,240	301	245
6	275	197	327	2,660	580	3,040	1,450	1,120	1,700	848	537	215
7	245	191	829	2,150	600	2,290	5,300	1,040	1,250	665	406	193
8	235	198	1,300	1,790	560	1,930	8,100	1,210	919	554	329	290
9	332	176	2,390	1,640	540	1,580	8,090	1,260	906	488	329	269
10	253	164	2,030	1,950	520	1,320	6,020	1,300	874	455	294	225
11	270	165	2,100	2,570	520	1,210	4,600	1,220	739	430	273	199
12	258	164	2,250	2,450	540	1,130	3,850	1,120	658	450	392	196
13	248	149	1,670	2,080	590	1,200	3,690	1,360	1,160	430	262	196
14	242	156	3,490	1,550	641	1,080	4,320	1,640	1,510	410	266	248
15	225	165	7,420	1,200	845	1,070	3,490	2,590	4,130	466	318	297
16	222	146	10,500	900	936	1,070	4,370	4,030	3,370	455	208	450
17	229	133	9,490	900	1,000	1,090	5,740	3,440	2,740	624	208	350
18	229	141	5,500	1,210	972	1,090	5,670	2,610	1,900	624	193	294
19	213	166	3,560	1,310	858	998	3,950	2,030	1,350	532	167	245
20	199	159	2,750	1,280	762	911	6,900	1,620	1,050	1,110	167	229
21	233	164	2,180	1,310	675	914	12,600	1,360	912	1,130	172	349
22	482	174	1,860	1,460	622	986	16,700	1,230	794	932	154	333
23	300	155	1,600	1,900	767	966	14,600	1,060	847	834	164	482
24	410	141	1,440	2,160	760	930	12,200	1,010	716	879	235	594
25	467	148	1,560	1,960	654	855	7,430	896	628	608	199	920
26	395	159	1,470	1,580	727	761	4,850	833	581	529	188	1,110
27	348	178	1,370	1,250	767	749	3,780	770	535	555	180	1,450
28	300	159	1,180	1,100	787	769	3,070	714	664	445	185	2,910
29	269	214	1,080	900	839	1,050	2,570	693	582	382	162	3,170
30	234	193	2,510	780	------	1,120	2,230	1,260	478	329	141	2,830
31	228	------	5,170	720	------	1,300	------	1,150	------	276	133	------
TOTAL	8,863	5,157	77,879	60,900	20,684	55,579	161,780	46,736	35,314	19,239	8,056	19,800
MEAN	286	172	2,512	1,965	713	1,793	5,393	1,508	1,177	621	260	660
MAX	482	216	10,500	6,370	1,000	7,190	16,700	4,030	4,130	1,240	658	3,170
MIN	199	133	123	720	520	749	1,080	693	478	276	133	134
CFSM	.17	.11	1.54	1.20	.44	1.10	3.30	.92	.72	.38	.16	.40
IN.	.20	.12	1.77	1.39	.47	1.26	3.68	1.06	.80	.44	.18	.45

CAL YR 1971 TOTAL 413,760 MEAN 1,134 MAX 12,900 MIN 123 CFSM .69 IN 9.41
WTR YR 1972 TOTAL 519,987 MEAN 1,421 MAX 16,700 MIN 123 CFSM .87 IN 11.83

PEAK DISCHARGE (BASE, 8,500 CFS).—Dec. 16 (2000) 11,200 cfs (11.04 ft). Apr. 22 (0700) 17,300 cfs (13.94 ft).

03353120 Pleasant Run at Arlington Avenue at Indianapolis, Ind.

LOCATION.—Lat 39°46'33", long 86°03'50", in SW 1/4 NW 1/4 sec.2, T.15 N., R.4 E., Marion County, on right bank 46 ft upstream from Arlington Avenue Bridge in Indianapolis, and 0.5 mile downstream from small left-bank tributary.

DRAINAGE AREA.—7.58 sq mi.

PERIOD OF RECORD.—December 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 780.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—12 years (1960-72), 6.54 cfs (11.72 inches per year).

EXTREMES.—Current year: Maximum discharge, 858 cfs Apr. 7 (gage height, 7.43 ft); minimum daily, 0.41 cfs Oct. 2, Nov. 22, 23. Period of record: Maximum discharge, 1,610 cfs Mar. 4, 1963 (gage height, 10.32 ft); no flow at times some years. Flood in May 1956 reached a stage of 16.0 ft, from information by local resident.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.0	1.4	8.3	1.1	28	2.8	2.0	1.8	1.2	.60	.80
2	.41	1.0	1.0	11	1.0	173	2.6	1.8	1.2	1.2	1.0	51
3	8.8	1.0	1.0	5.8	.90	18	10	1.4	.80	1.8	11	42
4	9.8	1.0	.60	20	.90	11	10	1.2	1.0	1.6	2.8	3.8
5	1.8	1.0	.80	9.3	.95	6.3	3.8	1.2	.80	1.6	.80	2.4
6	1.2	2.4	32	6.3	.90	5.0	3.4	1.0	53	.60	22	1.8
7	.80	1.6	61	5.0	.80	4.7	192	1.0	3.2	.60	4.4	1.4
8	.80	1.6	9.3	4.4	.75	3.6	27	10	2.0	.60	2.0	11
9	11	2.4	5.0	17	.85	3.2	13	5.0	4.5	.60	1.2	1.8
10	2.2	2.0	16	10	1.3	3.0	8.8	2.4	5.3	1.0	.80	1.2
11	1.4	1.8	8.8	6.3	8.3	3.0	6.3	1.4	1.0	1.0	3.4	1.2
12	1.2	1.8	4.1	4.7	16	2.8	19	1.0	.60	.80	9.8	1.4
13	2.8	2.0	3.2	5.0	23	3.4	11	22	23	.80	2.2	1.0
14	1.6	1.6	214	2.0	20	3.0	5.4	24	12	1.0	15	4.7
15	.80	1.8	70	1.4	20	2.8	4.4	9.7	127	14	3.2	1.4
16	1.2	2.0	17	1.8	3.8	3.0	113	3.6	11	2.0	1.2	1.0
17	.60	1.8	8.8	2.3	3.0	2.6	14	2.4	3.6	1.0	1.0	1.0
18	.80	1.8	5.4	3.6	5.8	2.8	6.8	1.8	2.0	1.4	.80	1.8
19	.80	3.6	5.0	8.3	3.0	2.2	5.8	1.4	2.2	1.2	.80	1.0
20	.80	.80	9.8	5.0	2.0	2.0	29	1.2	6.8	1.8	.60	1.0
21	6.8	.80	5.0	4.4	1.8	3.2	64	1.2	4.6	92	.80	1.6
22	33	.41	3.8	9.8	1.8	5.8	82	1.2	1.6	20	1.0	1.4
23	3.2	.41	3.6	5.4	2.6	2.2	15	1.0	.60	4.1	3.0	33
24	7.3	1.8	3.2	5.8	4.4	1.8	5.8	.80	.60	31	7.8	20
25	2.6	1.0	2.8	2.0	3.4	1.6	3.8	1.0	.80	6.8	1.6	20
26	2.4	.60	3.0	1.5	7.8	1.6	3.0	.80	.60	3.0	1.0	63
27	1.2	3.2	3.2	1.2	3.4	2.4	2.6	.60	.60	9.8	.80	15
28	1.0	.80	3.6	1.0	3.0	1.6	1.6	.80	9.8	2.2	1.0	4.7
29	1.0	8.8	3.4	.95	2.8	24	2.6	.60	2.5	1.6	1.0	46
30	1.0	2.8	95	.95	------	5.0	2.8	20	1.6	1.2	.80	16
31	1.2	------	15	1.0	------	3.2	------	3.3	------	.60	.80	------
TOTAL	110.31	54.62	615.80	171.50	145.35	335.8	671.3	126.80	286.10	208.10	104.20	353.40
MEAN	3.56	1.82	19.9	5.53	5.01	10.8	22.4	4.09	9.54	6.71	3.36	11.8
MAX	33	8.8	214	20	23	173	192	24	127	92	22	63
MIN	.41	.41	.60	.95	.75	1.6	1.6	.60	.60	.60	.60	.80
CFSM	.47	.24	2.63	.73	.66	1.42	2.96	.54	1.26	.89	.44	1.56
IN.	.54	.27	3.02	.84	.71	1.65	3.29	.62	1.40	1.02	.51	1.73

CAL YR 1971 TOTAL 2,554.15 MEAN 7.00 MAX 214 MIN .27 CFSM .92 IN 12.53
WTR YR 1972 TOTAL 3,183.28 MEAN 8.70 MAX 214 MIN .41 CFSM 1.15 IN 15.62

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1415	7.41	852	04-22	0015	6.00	500
03-02	0515	7.00	750	06-15	1130	6.30	575
04-07	0430	7.43	858	07-21	1900	7.04	760

03353160 Pleasant Run at Brookville Road at Indianapolis, Ind.

LOCATION.—Lat 39°45'52", long 86°05'43", in NE 1/4 NW 1/4 sec.9, T.15 N., R.4 E., Marion County, on right bank at downstream side of Brookville Road bridge in Indianapolis, and 2.2 miles downstream from Arlington Avenue.

DRAINAGE AREA.—10.1 sq mi.

PERIOD OF RECORD.—November 1959 to current year.

GAGE.—Water-stage recorder. Datum of gage is 752.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—12 years (1960 to current year), 9.05 cfs (12.17 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,080 cfs Dec. 14 (gage height, 6.79 ft); minimum daily, 0.54 cfs Nov. 2, 4.
Period of record: Maximum discharge, 2,010 cfs Mar. 4, 1963 (gage height, 9.22 ft); no flow at times during most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1909: 1960. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.70	2.1	7.3	2.0	46	1.9	2.6	1.4	1.5	1.0	1.1
2	1.6	.54	1.6	11	2.0	265	1.7	2.3	1.2	1.4	1.3	59
3	12	.62	1.6	6.0	1.8	10	7.0	2.3	.98	1.7	13	43
4	14	.54	1.4	17	1.6	6.6	6.6	2.2	1.1	1.6	2.7	3.4
5	2.1	.62	1.4	7.5	1.8	4.0	2.5	2.1	1.0	1.7	1.3	2.1
6	1.4	1.6	29	5.8	1.5	3.4	2.2	1.9	47	1.4	22	1.6
7	1.2	1.9	63	5.6	1.2	3.4	255	1.9	3.4	1.4	3.7	1.3
8	1.0	1.4	8.5	5.4	1.0	2.9	17	7.5	2.1	1.4	2.0	9.7
9	13	2.1	5.0	14	1.0	2.5	7.3	4.0	3.8	1.4	1.5	1.8
10	2.9	2.1	15	8.6	2.0	2.4	4.5	2.3	4.6	1.6	1.1	1.2
11	2.4	1.6	7.9	6.6	5.0	2.4	3.6	1.9	1.6	1.7	2.4	1.2
12	1.9	1.6	4.1	5.6	9.0	2.5	9.7	1.7	1.4	1.5	7.8	1.2
13	3.4	1.6	3.3	10	14	2.7	5.7	24	29	1.4	2.1	1.2
14	2.5	1.4	291	3.0	13	2.5	3.2	26	9.5	1.4	15	4.2
15	1.2	1.4	88	2.0	12	2.4	2.7	6.3	148	19	3.7	1.6
16	1.4	1.9	13	2.5	8.0	2.4	116	3.1	8.5	2.3	1.9	1.2
17	.89	2.4	6.3	5.0	5.0	2.2	8.8	2.3	3.2	1.5	1.4	1.1
18	.89	2.1	4.9	12	10	2.1	4.0	1.9	2.1	1.5	1.5	1.5
19	1.0	5.7	4.8	23	23	2.1	4.0	1.7	1.9	1.5	1.4	1.1
20	.89	1.4	7.7	21	22	1.9	21	1.5	5.8	1.5	1.2	1.0
21	6.3	1.6	5.1	21	21	2.7	67	1.5	5.0	88	1.3	.78
22	30	.79	3.7	30	21	4.5	97	1.5	1.9	18	1.2	.87
23	4.5	.79	3.9	24	23	1.6	11	1.3	1.5	3.8	1.7	28
24	8.8	1.9	3.8	27	27	2.1	5.7	1.2	1.4	35	8.1	13
25	3.4	2.1	3.6	12	27	1.6	4.2	1.3	1.4	5.6	1.9	12
26	2.9	1.4	3.6	5.0	33	1.9	3.6	1.3	1.2	2.8	1.4	60
27	1.2	6.3	4.0	2.5	26	2.4	3.1	1.4	1.4	11	1.2	8.7
28	1.0	3.0	4.3	2.0	25	2.1	2.7	1.4	10	2.3	1.3	2.6
29	.89	13	4.6	1.5	24	19	3.1	2.2	3.2	1.7	1.2	35
30	.70	4.8	109	1.5	------	3.0	3.2	14	1.6	1.4	1.3	9.1
31	.89	------	13	2.0	------	2.1	------	2.8	------	1.3	.96	------
TOTAL	128.15	68.90	698.2	307.4	363.9	412.4	685.0	129.4	306.18	219.3	109.56	309.55
MEAN	4.13	2.30	22.5	9.92	12.5	13.3	22.8	4.17	10.2	7.07	3.53	10.3
MAX	30	13	291	30	33	265	255	26	148	88	22	60
MIN	.70	.54	1.4	1.5	1.0	1.6	1.7	1.2	.98	1.3	.96	.78
CFSM	.41	.23	2.23	.98	1.24	1.32	2.26	.41	1.01	.70	.35	1.02
IN.	.47	.25	2.57	1.13	1.34	1.52	2.52	.48	1.13	.81	.40	1.14

CAL YR 1971 TOTAL 3,226.14 MEAN 8.84 MAX 335 MIN .06 CFSM .88 IN 11.88
WTR YR 1972 TOTAL 3,737.94 MEAN 10.2 MAX 291 MIN .54 CFSM 1.01 IN 13.77

PEAK DISCHARGE (BASE, 520 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1415	6.79	1,080	04-22	0045	5.25	580
03-02	0500	6.47	964	06-15	1100	5.82	751
04-07	0500	6.78	1,070	07-21	2000	5.86	772

03353180 Bean Creek at Indianapolis, Ind.

LOCATION.—Lat 39°43'45", long 86°07'14", in NW 1/4 SW 1/4 sec.20, T.15 N., R.4 E., Marion County, on left bank 80 ft upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis.

DRAINAGE AREA.—4.40 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 735.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 149 cfs June 15 (gage height, 4.25 ft); minimum daily, 1.2 cfs Nov. 21, 22, 26, 28.
Period of record: Maximum discharge, 358 cfs Feb. 4, 1971 (gage height, 5.91 ft); minimum daily, 0.75 cfs Feb. 2, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.6	1.5	6.3	2.4	14	2.7	4.0	4.4	3.4	2.9	1.5
2	2.6	2.0	1.4	7.9	2.3	49	2.7	4.4	4.0	3.2	2.4	9.9
3	4.7	2.0	1.5	5.9	2.2	16	7.1	4.0	4.0	3.7	12	12
4	5.5	2.2	1.4	12	2.1	12	6.7	4.0	3.7	3.2	3.2	1.6
5	3.1	2.0	1.3	7.1	2.2	8.3	4.0	3.7	4.0	2.9	2.7	1.4
6	3.1	2.6	11	5.5	2.2	6.7	4.0	3.4	15	3.2	9.1	1.5
7	3.1	1.6	19	5.5	2.2	6.7	52	2.9	5.1	3.2	2.4	1.5
8	3.1	1.5	4.7	4.7	2.1	5.5	17	8.7	4.7	2.9	2.9	4.4
9	5.9	2.4	3.7	7.9	2.0	4.4	11	5.1	8.3	2.7	2.7	1.3
10	2.4	2.0	8.5	6.3	1.9	4.0	8.7	3.7	6.7	2.9	2.2	1.4
11	1.8	2.2	5.1	5.5	1.9	3.4	7.5	3.7	4.0	3.2	3.2	1.5
12	1.9	2.0	4.0	5.5	2.0	2.7	13	3.4	4.0	3.2	5.5	1.6
13	2.4	2.2	4.0	5.5	2.3	2.4	14	14	21	3.2	2.7	1.5
14	2.2	1.5	53	4.7	4.0	3.2	8.7	5.9	9.9	3.2	6.3	3.7
15	1.8	1.8	34	4.0	6.7	3.2	7.9	4.0	40	7.9	4.4	1.6
16	1.8	2.0	16	3.2	3.4	3.2	44	3.7	12	2.4	2.9	1.8
17	1.8	2.0	14	3.8	3.4	2.9	10	3.4	6.7	2.2	2.9	1.8
18	1.8	2.0	11	4.1	4.4	2.4	6.3	3.2	4.4	2.0	2.7	1.5
19	2.2	2.8	9.4	4.4	2.7	1.8	7.5	2.9	3.7	1.8	2.7	2.0
20	2.6	1.5	11	4.4	2.3	2.0	16	2.7	3.7	2.0	2.4	2.0
21	5.5	1.2	9.4	4.4	2.4	2.9	28	2.4	3.4	5.5	2.4	2.0
22	12	1.2	8.5	5.9	2.7	3.4	30	2.4	3.2	2.9	2.9	2.0
23	2.6	1.6	8.6	3.7	3.7	2.4	14	2.9	3.2	1.5	3.4	12
24	3.4	2.0	7.4	4.0	3.4	2.4	8.7	2.9	2.9	9.5	4.0	9.9
25	2.4	1.4	5.9	3.7	5.9	2.0	7.1	2.9	2.7	2.9	2.4	9.1
26	2.4	1.2	5.9	3.2	8.3	1.5	6.3	2.9	2.9	2.2	1.8	14
27	2.6	1.6	6.2	2.8	3.7	1.8	5.5	2.9	3.2	5.1	1.6	8.7
28	2.8	1.2	5.6	2.4	4.0	2.2	5.1	2.4	8.7	1.6	1.6	3.2
29	2.8	3.4	5.6	2.2	4.7	12	5.1	2.7	4.0	1.5	1.5	14
30	2.0	1.8	34	2.2	------	5.1	4.4	12	3.7	1.4	1.5	7.1
31	1.4	------	9.1	2.3	------	3.7	------	4.4	------	1.6	1.5	------
TOTAL	96.3	56.5	321.7	151.0	93.5	193.2	365.0	131.6	207.2	98.1	102.8	137.5
MEAN	3.11	1.88	10.4	4.87	3.22	6.23	12.2	4.25	6.91	3.16	3.32	4.58
MAX	12	3.4	53	12	8.3	49	52	14	40	9.5	12	14
MIN	1.4	1.2	1.3	2.2	1.9	1.5	2.7	2.4	2.7	1.4	1.5	1.3
CFSM	.71	.43	2.36	1.11	.73	1.42	2.77	.97	1.57	.72	.75	1.04
IN.	.81	.48	2.72	1.28	.79	1.63	3.09	1.11	1.75	.83	.87	1.16

CAL YR 1971 TOTAL 1,854.5 MEAN 5.08 MAX 53 MIN 1.2 CFSM 1.15 IN 15.68
WTR YR 1972 TOTAL 1,954.4 MEAN 5.34 MAX 53 MIN 1.2 CFSM 1.21 IN 16.52

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1145	3.95	120	04-16	0830	3.71	94
12-30	0745	3.61	89	04-22	0045	3.55	82
03-02	0430	4.22	146	06-13	1230	3.52	82
04-07	0445	3.90	114	06-15	1100	4.25	149

03353200 Eagle Creek at Zionsville, Ind.

LOCATION.—Lat 39°56'56", long 86°15'22", in SW 1/4 NW 1/4 sec.1, T.17 N., R.2 E., Boone County, on downstream side of second pier from right bank of bridge on State Highway 334 at Zionsville, and 200 ft upstream from Long Branch.

DRAINAGE AREA.—103 sq mi.

PERIOD OF RECORD.—October 1957 to current year.

GAGE.—Water-stage recorder. Datum of gage is 816.85 ft above mean sea level. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—15 years, 89.0 cfs (11.73 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,090 cfs Apr. 20 (gage height, 10.26 ft); minimum daily, 0.69 cfs Sept. 2, 6, 7.
Period of record: Maximum discharge, 12,400 cfs Apr. 20, 1964 (gage height, 14.64 ft); no flow at times during 1959, 1963-68, 1970, 1971.
Flood of June 28, 1957, reached a stage of 19.20 ft, from floodmark.

REMARKS.—Records fair.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.4	7.7	198	22	165	33	53	55	9.6	1.4	.76
2	3.0	4.8	7.4	193	21	678	28	48	38	7.7	1.3	.69
3	2.8	4.3	6.7	153	20	245	28	39	29	13	1.7	1.2
4	3.7	4.0	6.4	266	20	165	115	34	25	10	2.0	1.1
5	4.0	4.3	6.4	193	19	107	98	29	20	7.4	1.7	.84
6	3.7	4.6	14	165	19	75	75	27	304	6.4	4.6	.69
7	3.5	4.6	185	96	19	60	1,220	25	180	5.1	8.6	.69
8	3.0	4.3	213	71	18	56	575	30	107	4.6	6.4	6.7
9	3.2	4.6	115	113	18	42	452	62	87	4.3	5.4	4.0
10	3.5	4.8	121	208	18	39	269	50	85	3.7	4.3	2.1
11	3.5	4.8	257	153	20	38	183	36	58	3.5	4.0	1.6
12	3.2	4.8	145	117	27	39	178	30	45	3.0	5.1	1.4
13	2.8	4.8	94	104	35	39	272	38	58	2.8	6.0	1.2
14	2.8	4.8	705	71	50	39	163	45	111	2.6	5.4	1.4
15	2.6	4.8	1,590	40	55	34	117	64	175	2.8	12	1.6
16	2.6	4.8	678	35	55	38	723	137	153	3.0	8.6	1.7
17	2.5	4.8	322	35	37	38	436	79	96	3.0	6.7	1.5
18	2.3	4.6	180	35	32	32	205	53	68	2.6	5.1	1.3
19	2.3	5.1	127	35	30	26	145	42	50	3.0	4.0	1.2
20	2.1	4.8	106	39	27	24	2,470	37	41	3.2	3.2	1.1
21	2.3	4.6	94	56	25	25	1,180	33	33	2.6	2.5	.92
22	3.5	4.6	79	135	24	32	1,560	30	24	2.1	2.3	.92
23	4.8	4.3	75	170	23	26	638	27	20	2.0	2.0	1.5
24	7.4	4.6	77	129	24	22	315	25	17	2.3	4.3	2.5
25	7.4	4.6	71	94	26	20	195	23	16	3.7	4.0	4.3
26	7.4	4.6	73	75	30	19	137	20	14	3.0	2.8	58
27	7.0	5.4	66	45	40	23	104	17	11	3.5	2.0	111
28	5.7	5.4	56	32	56	23	81	16	15	2.6	1.6	71
29	5.0	7.4	50	27	83	28	69	17	19	2.0	1.3	153
30	5.7	8.1	647	25	------	44	62	73	13	1.7	1.1	213
31	5.7	------	392	24	------	36	------	94	------	1.5	.84	------
TOTAL	124.2	147.4	6,566.6	3,132	893	2,277	12,126	1,333	1,967	128.3	122.24	648.91
MEAN	4.01	4.91	212	101	30.8	73.5	404	43.0	65.6	4.14	3.94	21.6
MAX	7.4	8.1	1,590	266	83	678	2,470	137	304	13	12	213
MIN	2.1	4.0	6.4	24	18	19	28	16	11	1.5	.84	.69
CFSM	.04	.05	2.06	.98	.30	.71	3.92	.42	.64	.04	.04	.21
IN.	.04	.05	2.37	1.13	.32	.82	4.38	.48	.71	.05	.04	.23

CAL YR 1971 TOTAL 24,441.83 MEAN 67.0 MAX 1,590 MIN .31 CFSM .65 IN 8.83
WTR YR 1972 TOTAL 29,465.65 MEAN 80.5 MAX 2,470 MIN .69 CFSM .78 IN 10.64

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	2200	7.67	1,900	04-20	1000	10.26	4,090
04-07	1200	7.87	2,010	04-22	0500	8.51	2,400

03353200 Eagle Creek at Zionsville, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.												
04...	1500	21.5	3.5	19	.18	--	--	--	--	--	--	--
NOV.												
05...	1210	9.0	4.2	25	.28	--	--	--	--	--	--	--
DEC.												
10...	0855	8.0	105	33	9.4	--	--	--	--	--	--	--
JAN.												
05...	1130	.5	188	28	14	--	--	--	--	--	--	--
MAR.												
20...	1355	4.5	26	32	2.2	--	--	--	--	--	--	--
APR.												
22...	1555	13.5	1120	264	798	76	82	87	94	98	98	100
JULY												
10...	1555	22.0	3.8	44	.45	--	--	--	--	--	--	--
AUG.												
10...	1330	20.0	4.4	102	1.2	--	--	--	--	--	--	--
SEP.												
06...	1210	19.5	.75	19	.04	--	--	--	--	--	--	--

03353450 Eagle Creek Reservoir near Indianapolis, Ind.

LOCATION.—Lat 39°49'20", long 86°18'11", in NW 1/4 NW 1/4 sec.22, T.16 N., R.2 E., Marion County, in outlet structure of reservoir on Eagle Creek, 800 ft upstream from Interstate Highway 74, 0.5 mile downstream from School Branch, 1.0 mile northeast of Clermont, and 2 miles west of Indianapolis.

DRAINAGE AREA.—162 sq mi.

PERIOD OF RECORD.—March 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 780.00 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 24,430 acre-ft Apr. 20 (elevation, 790.31 ft); minimum, 13,750 acre-ft Nov. 28 (elevation, 781.25 ft).
Period of record: Maximum contents, 24,480 acre-ft Feb. 5, 1971 (elevation, 790.34 ft); minimum, 13,750 acre-ft Nov. 28, 1971 (elevation, 781.25 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Low flow is controlled through a 48-inch diameter conduit. Spillway (elevation, 783 ft) is an ogee section with 6 taintor gates, each 40 ft wide and 25 ft high. Permanent pool capacity is 24,000 acre-ft (elevation, 790.00 ft). Reservoir is used for flood control, pollution abatement, and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.—Records furnished by Indianapolis Flood Control District.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	782.22	14,720	-
Oct. 31	781.73	14,230	-490
Nov. 30	781.30	13,800	-430
Dec. 31	788.54	22,100	+8,300
Calendar year 1971	-	-	+3,380
Jan. 31	787.08	20,200	-1,900
Feb. 29	788.47	22,010	+1,810
Mar. 31	790.08	24,110	+2,100
Apr. 30	789.78	23,710	-400
May 31	790.02	24,030	+320
June 30	790.01	24,010	-20
July 31	789.77	23,700	-310
Aug. 31	789.66	23,560	-140
Sept. 30	790.07	24,100	+540
Water year 1972	-	-	+9,380

03353500 Eagle Creek at Indianapolis, Ind.

LOCATION.—Lat 39°46'33", long 86°15'01", in NW 1/4 NW 1/4 sec.6, T.15 N., R.3 E., Marion County, on right bank at downstream side of bridge on Lynhurst Drive, approximately 600 ft south of intersection of West 10th Street and Lynhurst Drive, 0.5 mile downstream from West 10th Street bridge, 1.0 mile upstream from Vermont Street bridge, 2.9 miles upstream from mouth of Little Eagle Creek, and 6.9 miles from mouth.

DRAINAGE AREA.—174 sq mi.

PERIOD OF RECORD.—November 1938 to current year.

GAGE.—Water-stage recorder. Datum of gage is 699.00 ft above mean sea level. Aug. 8, 1957, to June 30, 1958, temporary site during reconstruction of bridge on Lynhurst Drive, a nonrecording gage on downstream side of 10th Street bridge. Mar. 10, 1966, to Aug. 16, 1967, during channelization of Eagle Creek, a nonrecording gage on downstream side of Lynhurst Drive bridge. Prior to Oct. 1, 1967, at datum 7.21 ft higher.

AVERAGE DISCHARGE.—33 years (1939 to current year), 145 cfs (11.32 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,740 cfs Apr. 22 (gage height, 7.07 ft); minimum daily, 7.0 cfs Oct. 1.
Period of record: Maximum discharge, 28,800 cfs June 28, 1957 (gage height, 23.59 ft), from rating curve extended above 9,000 cfs on basis of a combined current-meter measurement and slope-area measurement; no flow for several days in August 1941. Flood in March 1913 reached a stage of 23.2 ft, from information by local residents.

REMARKS.—Records poor. Flow regulated by Eagle Creek Reservoir, 4.7 miles upstream (See sta 03353450).

REVISIONS (WATER YEARS).—WSP 953: 1939. WSP 1625: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	10	8.2	636	94	64	105	143	24	23	13	13
2	7.3	13	8.2	639	73	430	100	88	98	23	12	15
3	7.3	10	8.2	139	39	496	125	152	20	24	12	14
4	7.2	8.8	8.2	51	38	346	229	130	61	50	12	13
5	8.2	10	8.2	41	37	214	404	57	24	32	12	12
6	7.8	11	9.0	58	36	187	212	35	475	22	19	12
7	8.5	10	10	147	35	171	1,170	36	241	23	16	12
8	9.2	9.4	11	227	35	150	893	152	115	24	13	12
9	12	8.6	12	231	35	95	737	109	197	24	14	12
10	9.3	9.3	16	229	35	101	468	146	63	22	13	11
11	8.4	9.4	22	196	36	71	393	78	82	22	13	12
12	8.9	9.3	14	223	38	95	364	67	60	24	16	15
13	9.5	9.0	11	226	39	202	429	124	161	20	13	19
14	9.0	9.3	143	229	41	44	348	118	286	19	13	17
15	9.0	9.2	157	251	43	99	343	135	494	20	13	14
16	9.4	7.8	496	253	41	108	678	222	293	19	12	13
17	10	8.9	643	245	42	60	810	196	113	18	12	13
18	9.0	8.3	740	202	43	112	488	83	107	17	12	14
19	8.5	8.3	460	192	43	42	344	107	91	17	11	15
20	8.9	8.5	211	202	45	40	2,360	103	85	16	12	14
21	11	9.5	34	207	38	109	1,550	56	30	16	13	15
22	16	9.5	34	199	80	94	2,800	47	53	15	13	15
23	9.6	9.5	34	202	274	42	1,150	45	23	15	14	22
24	10	8.3	176	211	169	39	594	37	23	15	15	18
25	9.4	8.6	487	220	42	105	499	51	22	14	13	17
26	8.7	9.0	466	208	44	40	353	25	22	14	12	34
27	8.8	7.8	338	204	43	40	350	19	22	14	13	52
28	8.4	7.1	185	204	42	99	297	20	83	14	14	359
29	8.5	8.8	186	181	42	111	78	34	107	13	13	37
30	8.9	8.2	256	102	------	99	102	273	24	13	13	70
31	9.5	------	329	103	------	41	------	134	------	13	13	------
TOTAL	283.2	274.4	5,521.0	6,658	1,642	3,946	18,773	3,022	3,499	615	409	911
MEAN	9.14	9.15	178	215	56.6	127	626	97.5	117	19.8	13.2	30.4
MAX	16	13	740	639	274	496	2,800	273	494	50	19	359
MIN	7.0	7.1	8.2	41	35	39	78	19	20	13	11	11

CAL YR 1971 TOTAL 41,015.4 MEAN 112 MAX 2,430 MIN 5.5
WTR YR 1972 TOTAL 45,553.6 MEAN 124 MAX 2,800 MIN 7.0

03353600 Little Eagle Creek at Speedway, Ind.

LOCATION.—Lat 39°47'15", long 86°13'41", in NE 1/4 SW 1/4 sec.32, T.16 N., R.3 E., Marion County, on right bank at downstream side of 16th Street bridge in Speedway, 0.6 mile upstream from Dry Run, and 2.4 miles upstream from mouth.

DRAINAGE AREA.—23.9 sq mi (includes 5.57 sq mi from Dry Run basin). Since June 1964 part of the flow from the 5.57 sq mi of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.—October 1959 to current year. Figures of runoff June 1964 to September 1966 have been found to be in error and should not be used.

GAGE.—Water-stage recorder. Datum of gage is 710.82 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—13 years, 16.7 cfs.

EXTREMES.—Current year: Maximum discharge, 761 cfs Dec. 14 (gage height, 4.13 ft); minimum daily, 0.78 cfs Nov. 10.
Period of record: Maximum discharge, 1,940 cfs Apr. 25, 1961 (gage height, 7.44 ft); no flow at times most years.

REMARKS.—Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	1.4	5.1	29	6.5	46	18	21	4.3	3.7	2.5	3.7
2	3.1	1.3	4.9	35	6.5	216	18	19	4.1	3.6	3.1	5.4
3	3.1	1.3	4.9	26	6.0	49	23	19	3.8	3.6	16	12
4	3.4	1.2	4.6	50	6.0	32	34	18	3.6	3.6	3.1	5.1
5	3.1	1.2	4.7	32	6.0	20	24	16	3.5	3.6	2.6	3.7
6	2.8	1.0	20	24	5.8	16	22	15	21	3.5	4.8	3.0
7	2.8	1.0	86	30	5.6	16	384	14	5.3	3.5	4.1	5.2
8	2.6	.88	28	22	5.5	16	98	15	4.2	3.4	3.6	13
9	4.0	.89	17	30	5.4	15	62	15	3.9	3.3	3.3	6.0
10	3.1	.78	27	34	5.3	15	46	11	3.7	3.3	3.1	2.6
11	2.8	.82	61	26	5.2	14	37	11	3.6	3.2	4.0	2.4
12	2.6	1.7	27	23	7.0	14	51	9.5	3.5	3.1	4.6	3.0
13	2.8	2.4	19	20	12	14	47	13	9.7	3.1	4.0	5.6
14	3.1	2.5	368	17	13	14	36	9.1	22	3.0	3.6	6.2
15	3.1	2.4	351	15	23	14	32	7.8	194	3.4	4.3	2.7
16	2.8	2.4	75	13	16	13	150	7.2	19	3.0	4.1	2.2
17	2.8	2.2	37	11	14	11	56	6.8	7.5	2.8	3.6	2.2
18	2.6	2.3	23	11	12	11	39	5.9	4.6	2.8	3.3	2.3
19	2.6	3.5	18	13	10	12	35	5.2	4.0	2.7	3.1	2.4
20	2.4	3.5	17	15	9.0	11	124	4.8	3.9	2.6	4.3	2.1
21	3.1	3.2	19	18	8.0	12	172	4.0	3.7	2.5	4.3	2.2
22	7.2	3.2	20	36	7.5	13	278	3.7	3.7	2.5	4.3	2.4
23	2.8	2.9	21	30	7.0	13	62	3.6	3.7	2.4	3.5	11
24	2.6	2.9	21	24	7.5	13	41	3.5	3.7	4.3	3.0	5.5
25	2.4	2.7	19	19	8.0	14	34	3.4	3.7	3.9	2.6	5.3
26	2.4	2.6	20	15	9.0	14	30	3.3	3.7	3.7	4.3	28
27	2.2	5.3	20	11	10	14	26	3.2	3.7	3.4	4.3	11
28	2.2	4.4	18	9.0	15	14	24	3.1	9.9	3.2	4.3	5.6
29	2.0	6.8	18	8.0	15	24	23	3.1	4.4	2.9	3.5	27
30	1.9	5.6	151	7.5	------	18	22	25	3.9	2.7	3.1	9.9
31	1.6	------	50	7.0	------	17	------	4.7	------	2.6	2.7	------
TOTAL	89.4	74.27	1,575.2	660.5	266.8	735	2,048	303.9	373.3	98.9	125.0	198.7
MEAN	2.88	2.48	50.8	21.3	9.20	23.7	68.3	9.80	12.4	3.19	4.03	6.62
MAX	7.2	6.8	368	50	23	216	384	25	194	4.3	16	28
MIN	1.6	.78	4.6	7.0	5.2	11	18	3.1	3.5	2.4	2.5	2.1

CAL YR 1971 TOTAL 5,950.07 MEAN 16.3 MAX 492 MIN .78
WTR YR 1972 TOTAL 6,548.97 MEAN 17.9 MAX 384 MIN .78

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	2045	4.13	761	04-22	0245	3.20	578
04-07	1100	3.30	578				

03353620 Lick Creek at Indianapolis, Ind.

LOCATION.—Lat 39°42'21", long 86°06'13", in NE 1/4 NE 1/4 sec.32, T.15 N., R.4 E., Marion County, on left bank at upstream side of Sherman Drive bridge in Indianapolis.

DRAINAGE AREA.—15.6 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 742.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 365 cfs June 15 (gage height, 4.70 ft); minimum daily, 1.6 cfs Oct. 19.
Period of record: Maximum discharge, 578 cfs Feb. 4, 1971 (gage height, 5.46 ft); minimum daily, 1.4 cfs May 4, 1971.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.5	3.5	16	5.4	185	11	15	6.2	7.7	3.2	2.5
2	2.7	3.2	3.0	15	5.3	77	9.5	14	5.6	6.6	3.2	40
3	3.9	2.5	2.5	17	5.0	42	9.0	12	4.7	8.9	24	41
4	8.5	2.0	2.7	28	4.5	29	30	12	4.4	7.0	7.0	9.2
5	5.0	1.8	2.2	16	3.9	19	21	10	4.1	7.0	5.3	6.6
6	3.2	6.4	28	13	4.2	17	17	9.6	44	5.9	27	5.0
7	2.3	5.2	85	12	4.0	15	140	8.5	11	5.6	10	4.4
8	1.9	4.4	27	11	3.6	12	100	19	7.7	5.3	6.6	13
9	10	3.7	14	19	3.5	10	60	13	13	5.0	4.7	5.3
10	5.0	3.5	28	15	3.6	9.2	40	8.9	14	5.0	3.5	3.8
11	3.0	3.2	17	14	3.9	9.6	30	7.3	8.1	5.0	9.3	3.5
12	2.5	3.0	12	13	4.6	8.9	75	7.0	5.3	4.4	16	3.5
13	7.0	2.9	7.7	12	6.6	10	40	29	45	4.1	5.9	3.5
14	4.0	2.9	179	11	15	12	26	15	47	4.4	9.7	8.3
15	3.0	6.6	154	10	32	11	22	12	170	18	15	5.0
16	2.6	4.4	27	7.5	15	11	120	8.5	66	8.5	5.6	3.8
17	3.6	3.6	22	9.0	13	10	64	7.3	28	5.3	3.8	3.5
18	2.7	2.5	20	10	19	10	41	6.6	17	4.1	3.5	3.2
19	1.6	4.4	19	13	10	9.5	32	6.2	14	4.7	3.5	3.0
20	2.2	3.2	26	12	9.0	9.0	79	6.2	12	4.4	3.0	3.0
21	4.5	2.2	22	12	8.0	14	94	5.3	9.6	4.1	3.0	3.2
22	42	2.2	19	17	7.7	20	124	5.3	9.2	18	2.7	3.2
23	9.6	2.2	17	14	12	13	53	4.7	10	5.0	3.8	2.7
24	11	3.0	15	13	12	10	34	4.4	10	32	7.0	39
25	8.1	2.5	14	10	40	9.2	26	4.1	9.6	14	4.4	35
26	5.0	2.2	14	7.0	28	9.0	22	3.8	8.9	5.9	3.5	37
27	4.7	5.0	13	6.0	22	12	20	3.5	7.3	13	2.7	71
28	4.1	3.8	13	5.2	21	9.0	17	3.0	20	5.9	3.0	45
29	4.1	10	13	5.2	24	11	18	4.7	12	4.4	2.5	20
30	3.8	7.0	110	5.2	------	9.7	18	26	9.2	3.8	2.2	74
31	3.5	------	20	5.4	------	9.2	------	9.6	------	3.8	2.5	------
TOTAL	177.3	113.0	949.6	373.5	345.8	642.3	1,392.5	301.5	632.9	236.8	207.1	501.2
MEAN	5.72	3.77	30.6	12.0	11.9	20.7	46.4	9.73	21.1	7.64	6.68	16.7
MAX	42	10	179	28	40	185	140	29	170	32	27	74
MIN	1.6	1.8	2.2	5.2	3.5	8.9	9.0	3.0	4.1	3.8	2.2	2.5
CFSM	.37	.24	1.96	.77	.76	1.33	2.97	.62	1.35	.49	.43	1.07
IN.	.42	.27	2.26	.89	.82	1.53	3.32	.72	1.51	.56	.49	1.20

CAL YR 1971 TOTAL 5,034.3 MEAN 13.8 MAX 209 MIN 1.4 CFSM .88 IN 12.00
WTR YR 1972 TOTAL 5,873.5 MEAN 16.0 MAX 185 MIN 1.6 CFSM 1.03 IN 14.01

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-07	1100	3.82	176	04-16	unknown	unknown	a205
12-14	1200	4.67	358	04-22	0400	3.95	200
12-30	unknown	4.30	320	06-15	1300	4.70	365
03-01	1300	4.68	360	08-03	0200	3.92	194
04-07	unknown	unknown	a280				

a About

NOTE.—No gage-height record Mar. 13 to Apr. 17.

03353700 West Fork White Lick Creek at Danville, Ind.

LOCATION.—Lat 39°45'36", long 86°30'47", in NW 1/4 NE 1/4 sec.10, T.15 N., R.1 W., Hendricks County, on upstream side of bridge on U.S. Highway 36, 0.1 mile east of city limits of Danville, 0.5 mile upstream from small left-bank tributary, and 7 miles west of Avon.

DRAINAGE AREA.—28.8 sq mi.

PERIOD OF RECORD.—May 1958 to current year.

GAGE.—Water-stage recorder. Datum of gage is 828.83 ft above mean sea level. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.—14 years, 25.2 cfs (11.88 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,320 cfs Dec. 14 (gage height, 7.06 ft); minimum daily, 0.03 cfs Aug. 31, Sept. 20, 21.
Period of record: Maximum discharge, 3,330 cfs July 14, 1962 (gage height, 11.32 ft); no flow at times some years. Flood of June 28, 1957, reached a stage of 16.0 ft, from floodmarks (discharge, 6,660 cfs, from contracted-opening measurement).

REMARKS.—Records fair.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.74	7.2	53	13	66	9.5	20	12	5.6	4.0	1.0
2	1.4	.87	6.9	53	14	201	9.1	18	8.7	5.0	2.3	3.2
3	1.6	.74	6.6	44	15	88	11	16	6.9	8.0	4.0	4.3
4	1.4	.74	6.2	88	12	64	22	14	5.9	5.3	3.8	2.7
5	1.2	.74	6.6	64	9.8	39	18	13	4.3	5.0	.74	1.6
6	.87	.74	18	53	10	29	16	12	9.9	4.3	9.9	.23
7	.87	.74	114	35	9.0	28	402	11	8.0	4.0	6.9	.62
8	.74	.62	74	29	8.2	21	214	13	5.6	3.6	2.5	8.3
9	1.7	.87	43	54	7.6	19	138	14	18	3.4	1.2	4.0
10	1.2	.74	67	74	7.2	17	89	9.9	45	3.4	.32	1.9
11	.87	.74	153	53	6.6	17	62	8.7	20	3.2	.74	.62
12	.74	.62	69	41	7.6	17	133	8.0	13	2.7	8.0	.74
13	.87	.62	42	36	8.7	19	105	13	144	2.5	6.6	.10
14	1.0	.62	560	28	13	17	61	12	135	2.1	4.0	2.5
15	.87	.62	758	20	29	14	43	15	120	1.6	2.7	.32
16	.74	.62	256	16	24	16	205	11	60	2.3	1.4	.10
17	.74	.62	144	21	28	14	110	9.5	30	1.2	.23	.06
18	.62	.62	86	21	24	12	65	8.3	18	1.0	1.0	.62
19	.62	3.8	60	21	18	11	46	7.2	14	1.4	.42	.23
20	.52	2.1	48	21	13	11	239	6.6	14	1.0	.32	.03
21	1.4	1.9	45	20	12	12	336	6.2	11	1.2	.15	.03
22	6.2	1.4	38	42	12	13	408	5.6	9.5	.74	1.6	.10
23	5.0	1.6	36	46	13	10	153	5.0	8.3	.52	4.0	5.0
24	3.8	1.4	36	36	14	9.5	91	4.3	7.6	4.0	7.2	11
25	3.0	1.6	31	25	15	9.5	60	3.6	7.2	3.8	3.6	15
26	2.3	1.7	30	20	25	9.1	44	3.2	6.6	1.6	2.1	66
27	1.7	3.8	27	16	32	10	35	2.7	6.2	1.9	1.0	75
28	1.2	6.9	22	14	32	9.5	28	2.5	10	1.0	.52	48
29	1.4	8.7	21	13	39	11	24	3.0	8.3	1.0	1.4	85
30	1.0	8.7	106	12	------	10	21	30	6.9	.87	.10	80
31	.87	------	81	13	------	9.5	------	20	------	.74	.03	------
TOTAL	48.14	56.22	2,998.5	1,082	471.7	833.1	3,197.6	326.3	773.9	83.97	82.77	418.30
MEAN	1.55	1.87	96.7	34.9	16.3	26.9	107	10.5	25.8	2.71	2.67	13.9
MAX	6.2	8.7	758	88	39	201	408	30	144	8.0	9.9	85
MIN	.52	.62	6.2	12	6.6	9.1	9.1	2.5	4.3	.52	.03	.03
CFSM	.05	.06	3.36	1.21	.57	.93	3.72	.36	.90	.09	.09	.48
IN.	.06	.07	3.87	1.40	.61	1.08	4.13	.42	1.00	.11	.11	.54

CAL YR 1971 TOTAL 10,761.67 MEAN 29.5 MAX 758 MIN .11 CFSM 1.02 IN 13.90
WTR YR 1972 TOTAL 10,372.50 MEAN 28.3 MAX 758 MIN .03 CFSM .98 IN 13.40

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1845	7.06	1,320	06-13	2045	5.30	710
04-22	0015	5.92	902				

03353800 White Lick Creek at Mooresville, Ind.

LOCATION.—Lat 39°36'28", long 86°22'56", in NE 1/4 SE 1/4 sec.35, T.14 N., R.1 E., Morgan County, on right bank at downstream side of bridge on State Highway 42 at Mooresville, 1.0 mile downstream from McCracken Creek, and 2.0 miles upstream from East Fork White Lick Creek.

DRAINAGE AREA.—212 sq mi.

PERIOD OF RECORD.—August 1957 to current year.

GAGE.—Water-stage recorder. Datum of gage is 644.64 ft above mean sea level. Dec. 10, 1963, to Sept. 30, 1964, nonrecording gage at bridge 1,950 ft upstream at datum 1.39 ft higher.

AVERAGE DISCHARGE.—15 years, 194 cfs (12.43 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,440 cfs Apr. 22 (gage height, 18.38 ft); minimum daily, 12 cfs Oct. 20.
Period of record: Maximum discharge, 18,000 cfs Mar. 4, 1963 (gage height, 22.95 ft); minimum daily, 2.0 cfs Dec. 24, 25, 1960, Sept. 2, 1966.
Flood of June 28, 1957, reached a stage of 22.5 ft, from levels to high-water mark by Indiana Flood Control and Water Resources Commission.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	47	405	115	310	111	202	106	71	17	16
2	17	20	43	368	115	2,560	110	189	77	62	18	18
3	16	20	41	332	105	776	110	167	63	62	20	41
4	17	19	42	447	90	471	156	153	56	57	20	31
5	16	18	42	350	80	325	155	138	49	56	18	25
6	15	19	57	308	80	252	138	129	71	51	36	20
7	14	20	412	230	75	244	2,160	122	136	49	40	18
8	13	19	385	222	70	213	1,440	131	82	47	31	25
9	18	19	226	290	65	180	717	134	80	43	25	37
10	17	18	209	420	60	172	495	122	134	42	20	30
11	15	18	525	342	60	163	368	106	126	41	17	22
12	14	17	340	282	70	167	772	100	88	38	36	20
13	14	17	224	258	85	163	748	121	165	37	36	17
14	15	17	3,200	170	100	160	462	134	1,160	30	25	20
15	15	17	4,530	140	207	148	325	119	1,950	33	22	20
16	14	17	1,680	120	169	148	1,430	113	682	34	20	18
17	15	17	766	150	146	146	936	100	292	30	22	16
18	17	17	468	169	181	136	522	90	209	30	24	18
19	14	23	340	189	130	126	408	83	171	28	22	22
20	12	30	299	174	110	121	1,100	78	143	27	20	22
21	23	25	266	176	115	119	1,530	74	126	25	18	18
22	41	22	238	196	124	129	3,830	71	106	25	18	16
23	44	22	222	308	118	124	1,190	66	95	25	20	24
24	36	22	215	254	138	116	689	61	88	33	34	37
25	35	25	200	180	138	113	468	57	82	37	31	48
26	29	28	196	150	207	110	358	53	78	29	31	210
27	27	32	187	120	209	111	292	49	71	33	24	313
28	23	38	171	105	205	111	252	48	98	28	20	207
29	22	44	150	100	219	119	232	47	122	24	20	282
30	22	51	785	105	------	127	221	128	89	20	18	382
31	21	------	709	110	------	114	------	176	------	20	17	------
TOTAL	630	691	17,215	7,170	3,586	8,274	21,725	3,361	6,795	1,167	740	1,993
MEAN	20.3	23.0	555	231	124	267	724	108	227	37.6	23.9	66.4
MAX	44	51	4,530	447	219	2,560	3,830	202	1,950	71	40	382
MIN	12	17	141	100	60	110	110	47	49	20	17	16
CFSM	.10	.11	2.62	1.09	.58	1.26	3.42	.51	1.07	.18	.11	.31
IN.	.11	.12	3.02	1.26	.63	1.45	3.81	.59	1.19	.20	.13	.35

CAL YR 1971 TOTAL 72,961 MEAN 200 MAX 4,530 MIN 12 CFSM .94 IN 12.80
WTR YR 1972 TOTAL 73,347 MEAN 200 MAX 4,530 MIN 12 CFSM .94 IN 12.87

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1500	18.34	5,410	04-22	0530	18.38	5,440
03-02	1000	17.75	4,900	06-15	1500	16.46	3,920
04-07	1900	17.65	4,820				

03354000 White River near Centerton, Ind.

LOCATION.—Lat 39°30'02", long 86°24'24", in SW 1/4 SE 1/4 sec.3, T.12 N., R.1 E., Morgan County, on right bank 0.4 mile downstream from bridge on Blue Bluff Road, 1 mile south of Centerton, 1.1 miles downstream from White Lick Creek, and at mile 202.6.

DRAINAGE AREA.—2,444 sq mi.

PERIOD OF RECORD.—July 1925 to September 1930 (gage heights only), October 1930 to March 1932, October 1946 to current year. Monthly discharge only for October and November 1946, published in WSP 1305. Published as West Fork White River at Martinsville prior to March 1932, and as West Fork White River near Centerton October 1946 to September 1948.

GAGE.—Water-stage recorder. Datum of gage is 595.44 ft above mean sea level (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953.

AVERAGE DISCHARGE.—27 years (1930-31, 1946 to current year), 2,269 cfs (12.61 inches per year).

EXTREMES.—Current year: Maximum discharge, 23,700 cfs Apr. 22 (gage height, 14.08 ft); minimum daily, 318 cfs Aug. 31, Sept. 1. Period of record: Maximum discharge, 50,500 cfs Apr. 22, 1964 (gage height, 17.57 ft); minimum daily, 131 cfs Nov. 15, 1930. Flood in March 1913 reached a stage of 22.8 ft at Martinsville site (from information by State Highway Department of Indiana) and 21.9 ft at present site (from information by Corps of Engineers), discharge, 90,000 cfs.

REMARKS.—Records good. Flow regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 1335: 1948-49. WSP 1909: 1931(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	568	456	488	7,390	1,430	1,790	1,840	3,360	1,640	1,030	578	318
2	488	440	464	7,110	1,480	7,540	1,670	2,960	1,430	1,030	514	325
3	416	456	416	5,260	1,350	8,590	1,550	2,740	1,290	1,000	881	1,120
4	576	440	339	4,510	1,200	8,820	1,930	2,520	1,200	1,080	852	841
5	528	424	456	4,580	1,120	7,100	2,350	2,290	1,110	1,710	628	586
6	408	432	456	4,080	1,100	4,910	2,350	2,020	1,670	1,510	694	509
7	408	464	1,520	3,550	1,150	3,780	5,530	1,850	2,220	1,230	1,100	442
8	360	424	2,210	3,110	1,090	3,120	11,100	1,970	1,550	1,060	798	543
9	472	456	2,700	3,000	1,070	2,680	10,400	2,100	1,370	939	715	767
10	512	448	2,910	3,320	1,020	2,290	9,360	2,150	1,580	863	669	548
11	376	424	3,090	3,640	1,020	2,090	7,130	2,000	1,260	818	605	460
12	424	432	3,230	3,760	1,040	1,940	6,650	1,920	1,140	819	762	437
13	408	416	2,810	3,400	1,080	1,930	6,310	2,010	1,320	846	852	382
14	440	454	3,870	2,850	1,140	1,860	6,080	2,400	3,510	792	588	425
15	416	384	10,800	2,200	1,520	1,750	5,740	2,890	6,630	829	801	556
16	400	448	11,300	1,800	1,610	1,790	8,630	3,990	7,040	1,010	629	582
17	392	400	11,600	1,590	1,600	1,780	8,740	4,430	4,390	863	540	688
18	376	376	10,300	1,910	1,680	1,730	8,280	3,550	3,310	1,080	518	604
19	424	408	6,470	2,240	1,560	1,670	6,700	2,840	2,430	984	486	566
20	400	472	4,830	2,230	1,380	1,550	7,050	2,290	1,950	1,090	423	459
21	392	416	3,700	2,190	1,310	1,530	11,700	2,020	1,760	1,570	414	547
22	704	376	3,090	2,270	1,250	1,580	21,100	1,770	1,550	1,490	447	568
23	840	432	2,720	2,690	1,300	1,610	22,800	1,620	1,460	1,310	411	678
24	608	392	2,460	3,010	1,510	1,530	17,700	1,500	1,390	1,200	520	1,150
25	760	353	2,560	2,940	1,350	1,480	13,400	1,400	1,260	1,540	537	1,280
26	760	325	2,590	2,530	1,530	1,370	8,430	1,310	1,150	1,040	466	2,040
27	672	376	2,470	2,100	1,600	1,290	6,200	1,200	1,090	1,050	407	2,670
28	616	424	2,170	1,900	1,560	1,340	5,080	1,110	1,150	960	371	3,400
29	584	424	1,950	1,720	1,610	1,450	4,250	1,040	1,620	823	397	4,060
30	544	584	3,730	1,590	------	1,830	3,660	1,370	1,180	725	358	4,170
31	480	------	5,940	1,460	------	1,840	------	2,010	------	619	318	------
TOTAL	15,752	12,756	113,639	95,930	38,660	85,560	233,710	68,630	61,650	32,910	18,279	31,721
MEAN	508	425	3,666	3,095	1,333	2,760	7,790	2,214	2,055	1,062	590	1,057
MAX	840	584	11,600	7,390	1,680	8,820	22,800	4,430	7,040	1,710	1,100	4,170
MIN	360	325	339	1,460	1,020	1,290	1,550	1,040	1,090	619	318	318
CFSM	.21	.17	1.50	1.27	.55	1.13	3.19	.91	.84	.43	.24	.43
IN.	.24	.19	1.73	1.46	.59	1.30	3.56	1.04	.94	.50	.28	.48

CAL YR 1971 TOTAL 700,764 MEAN 1,920 MAX 22,300 MIN 325 CFSM .79 IN 10.67
WTR YR 1972 TOTAL 809,197 MEAN 2,211 MAX 22,800 MIN 318 CFSM .90 IN 12.32

PEAK DISCHARGE (BASE, 9,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0100	10.38	12,100	04-16	1700	9.53	10,800
03-02	1900	9.28	10,500	04-22	1700	14.08	23,700
04-08	0300	10.23	11,800	06-15	2200	8.91	9,980

03354000 White River near Centerton, Ind.—Continued

PERIOD OF RECORD.—Water temperatures: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1972. Sediment records: March 1965 to July 1968 (partial record).

EXTREMES.—1971-72:
Water temperatures: Maximum, 32.0°C July 22; minimum, 2.5°C Jan. 31, but may have been less during period of missing record.

Period of record:
Water temperatures: Maximum, 33.0°C July 3, 1970; minimum, freezing point Feb. 13, 14, 1955, Jan. 7-10, 1970, and Feb. 1-15, 1971.

REMARKS.—Temperature affected by upstream powerplants and reservoirs. Sediment samples were taken at highway bridge, 0.4 mile upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972.

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	28.0	26.0	19.5	18.0	8.0	8.0	7.5	6.5	---	---	9.0	7.5
2	28.0	26.0	20.0	19.0	8.0	8.0	6.5	6.5	---	---	7.5	4.0
3	27.0	25.5	19.0	16.5	8.0	8.0	6.5	6.0	---	---	4.0	4.0
4	26.5	24.5	16.5	15.0	8.0	8.0	6.0	5.5	---	---	4.0	3.5
5	26.0	24.0	15.5	14.5	9.5	8.0	5.5	5.0	---	---	3.5	3.0
6	24.0	22.0	15.5	13.5	9.5	9.5	5.0	4.5	---	---	3.0	3.0
7	22.0	20.5	13.5	11.5	9.5	9.0	4.5	4.0	---	---	4.0	3.0
8	21.0	19.5	11.5	10.5	9.0	9.0	4.0	4.0	---	---	4.0	4.0
9	19.5	18.5	11.0	11.0	9.0	9.0	5.0	4.0	---	---	4.0	4.0
10	18.5	17.0	11.5	11.0	9.5	9.0	6.0	5.0	---	---	5.5	4.0
11	17.5	16.5	12.5	11.0	9.5	9.0	6.5	6.0	---	---	8.0	5.5
12	17.0	16.0	13.5	12.0	9.0	9.0	6.0	6.0	---	---	9.0	8.0
13	16.5	16.0	15.0	13.5	9.0	8.5	6.0	5.5	---	---	9.0	8.5
14	17.5	16.0	16.5	15.0	8.5	8.0	5.5	4.5	---	---	8.5	8.0
15	18.0	17.0	18.0	16.5	9.0	8.0	4.5	4.0	---	---	8.0	7.5
16	20.0	18.0	18.0	18.0	9.0	9.0	4.0	3.5	---	---	8.0	7.5
17	20.0	19.0	18.0	17.5	9.0	6.5	3.5	3.5	---	---	8.0	8.0
18	20.5	20.0	18.0	16.5	6.5	5.5	4.0	3.5	---	---	8.5	8.0
19	21.5	20.5	16.5	14.5	5.5	5.5	4.0	3.5	---	---	8.5	8.0
20	21.5	20.0	14.5	12.5	5.5	5.5	5.0	4.0	---	---	9.5	8.0
21	21.5	21.0	12.5	10.0	5.5	5.5	6.0	5.0	---	---	11.0	9.5
22	21.5	21.0	10.0	8.5	5.5	5.5	7.0	6.0	---	---	11.0	8.5
23	21.5	21.5	8.5	8.0	5.5	5.5	7.0	7.0	---	---	8.5	7.0
24	21.5	21.0	8.5	8.5	6.5	5.5	7.0	6.5	---	---	8.0	7.0
25	21.0	20.0	8.5	8.5	7.0	6.5	6.5	5.5	---	---	8.5	8.0
26	20.0	19.5	8.5	8.5	8.0	7.0	5.5	4.5	---	---	8.5	8.0
27	19.5	19.5	8.5	8.5	9.5	8.0	4.5	4.0	---	---	8.0	8.0
28	20.0	19.5	8.5	8.0	9.5	9.0	4.0	3.5	---	---	9.5	8.0
29	20.0	19.0	8.0	8.0	9.0	8.5	3.5	3.0	---	---	9.5	8.0
30	20.0	19.5	8.0	8.0	9.0	8.5	3.0	3.0	---	---	8.0	7.0
31	20.0	19.0	---	---	9.0	7.5	3.0	2.5	---	---	9.0	8.0
MONTH	28.0	16.0	20.0	8.0	9.5	5.5	7.5	2.5	---	---	11.0	3.0

03354000 White River near Centerton, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	12.5	12.0	19.0	19.0	26.5	23.0	27.0	25.5	28.0	25.5
2	8.5	8.0	13.0	12.0	20.5	19.0	25.5	24.0	26.5	25.0	26.0	25.0
3	8.0	7.0	12.5	12.5	21.0	19.5	25.0	23.5	28.0	26.0	25.0	23.0
4	9.5	7.0	12.5	12.5	24.0	20.5	24.0	22.0	28.0	25.5	23.0	21.5
5	9.5	9.0	13.5	12.5	23.5	22.0	22.0	21.0	27.0	24.5	23.5	21.0
6	11.5	9.5	15.0	13.5	23.5	22.0	21.5	20.5	25.5	24.0	23.5	21.5
7	11.5	4.5	15.0	14.5	23.0	21.5	21.0	20.5	25.0	23.5	24.0	22.0
8	5.5	4.0	14.5	14.5	22.0	20.0	23.0	20.5	23.5	22.0	25.0	24.0
9	5.5	5.5	14.5	14.5	20.5	20.0	23.0	22.0	23.5	21.5	26.0	24.0
10	7.0	5.5	14.5	14.5	20.5	19.0	25.5	22.0	25.0	22.0	24.0	22.0
11	9.5	7.0	14.5	14.5	20.0	18.0	27.5	24.0	24.5	22.0	23.5	22.0
12	11.0	9.5	14.5	14.5	20.0	18.5	28.5	25.5	26.5	24.0	25.5	23.5
13	13.5	11.0	14.5	14.5	22.0	20.0	28.5	26.0	28.5	25.5	27.0	24.5
14	13.5	13.5	15.0	14.5	21.5	20.5	28.5	26.5	28.5	26.0	26.5	25.0
15	13.5	13.5	15.5	14.5	21.5	21.0	28.0	25.5	27.5	26.5	26.0	24.5
16	13.5	12.0	15.5	14.5	21.5	21.0	25.5	24.5	28.0	25.5	25.0	24.5
17	12.0	12.0	16.0	15.5	21.0	21.0	26.0	24.0	29.0	26.0	26.0	24.5
18	13.5	12.0	16.5	15.5	21.5	21.0	28.5	25.5	30.0	27.5	26.0	25.0
19	13.5	13.5	18.0	16.5	24.0	21.5	30.5	27.5	30.5	28.5	26.5	25.0
20	13.5	13.0	19.5	18.0	25.5	24.0	31.0	28.5	30.0	28.0	26.5	24.5
21	13.0	10.5	20.0	19.5	24.5	22.0	31.5	30.5	29.5	27.5	25.5	24.0
22	10.5	10.5	21.5	20.0	22.0	20.5	32.0	31.0	29.0	27.0	24.0	22.0
23	10.5	10.0	23.0	21.5	20.5	19.0	31.5	30.5	27.0	26.5	23.0	22.0
24	10.0	9.5	24.0	22.5	19.0	18.5	31.0	28.5	28.0	25.5	22.0	21.5
25	9.5	9.0	24.0	22.0	19.0	18.0	29.5	28.5	28.0	25.5	21.5	21.5
26	9.5	9.5	24.0	23.0	21.0	19.0	28.5	26.5	28.5	26.5	22.0	21.5
27	10.5	9.5	25.0	23.5	23.5	20.5	28.5	26.5	27.0	25.0	22.0	22.0
28	11.0	10.5	24.5	23.0	23.5	23.0	28.0	26.0	26.5	24.5	22.0	21.5
29	11.5	11.0	23.5	21.5	23.0	22.0	27.5	25.5	27.0	24.5	21.5	20.0
30	12.0	11.5	21.5	21.0	24.5	21.5	28.0	25.5	28.5	25.5	20.0	19.0
31	---	---	21.0	19.0	---	---	28.0	25.5	27.0	25.0	---	---
MONTH	13.5	4.0	25.0	12.0	25.5	18.0	32.0	20.5	30.5	21.5	28.0	19.0

03354500 Beanblossom Creek at Beanblossom, Ind.

LOCATION.—Lat 39°15'45", long 86°14'55", in SW 1/4 NW 1/4 sec.31, T.10 N., R.3 E., Brown County, on right bank 15 ft downstream from bridge on State Highway 135, 0.3 mile south of Beanblossom, and 2.5 miles upstream from North Fork Beanblossom Creek.

DRAINAGE AREA.—14.6 sq mi.

PERIOD OF RECORD.—October 1951 to current year. Prior to October 1965, published as Bean Blossom Creek at Bean Blossom.

GAGE.—Water-stage recorder. Datum of gage is 673.65 ft above mean sea level.

AVERAGE DISCHARGE.—21 years, 15.3 cfs (14.23 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,480 cfs Apr. 16 (gage height, 9.97 ft); no flow Aug. 11 to Sept. 23.
Period of record: Maximum discharge, 8,140 cfs June 23, 1960 (gage height, 11.78 ft), from curve extended above 2,000 cfs on basis of contracted-opening measurement; no flow for many days in most years.

REMARKS.—Records good except those for periods of no gage-height record, which are fair.

REVISIONS (WATER YEARS).—WSP 1555: 1952, 1953(M), 1956-57. WSP 1705: 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.39	1.1	17	4.1	50	6.8	10	1.7	3.0	.14	0
2	.18	.44	.94	15	4.6	180	5.9	8.8	1.4	2.4	.20	0
3	.18	.39	.86	10	4.0	70	6.8	7.1	1.3	1.5	.07	0
4	.18	.39	.86	14	3.5	35	8.8	6.8	1.1	1.1	.59	0
5	.18	.39	.86	15	2.9	23	7.4	5.9	.94	.90	.18	0
6	.18	.44	2.0	13	3.4	17	6.8	4.8	1.0	.65	.71	0
7	.18	.54	16	8.8	3.0	15	334	4.4	.86	.57	.71	0
8	.18	.54	6.8	7.7	2.7	12	102	24	.71	.70	.30	0
9	.30	.59	3.5	21	2.4	9.6	47	47	.94	.60	.11	0
10	.26	.59	3.7	20	2.2	8.4	30	22	.94	.54	.04	0
11	.18	.59	4.8	13	2.2	7.4	23	15	.71	.45	0	0
12	.18	.59	3.5	9.6	2.3	6.8	58	10	.59	.35	0	0
13	.30	.54	2.6	8.4	2.7	7.7	82	84	.86	.45	0	0
14	.30	.54	59	6.2	3.3	7.1	52	92	1.7	.56	0	0
15	.26	.54	66	4.8	10	6.2	37	61	12	.47	0	0
16	.26	.54	27	4.0	14	8.8	770	50	10	.40	0	0
17	.22	.54	13	5.0	13	8.0	89	27	3.3	.30	0	0
18	.22	.54	7.4	5.6	12	6.5	52	18	2.3	.27	0	0
19	.22	.78	5.9	5.8	11	5.6	40	13	1.7	.25	0	0
20	.22	.71	7.1	5.0	9.0	5.0	78	8.4	1.4	.23	0	0
21	.30	.64	5.6	5.8	8.0	4.8	138	5.9	1.3	.18	0	0
22	2.5	.59	4.4	6.5	7.5	7.7	151	4.4	.94	.27	0	0
23	1.3	.54	3.7	7.8	8.0	6.2	65	3.3	.80	.27	0	0
24	.71	.64	3.3	9.0	10	5.0	40	2.8	.70	.19	0	.15
25	.64	.78	2.9	8.0	11	4.8	28	2.5	.66	.17	0	.64
26	.54	.78	2.8	6.4	20	4.2	21	2.2	1.4	.15	0	1.0
27	.44	1.3	2.8	6.0	23	5.3	17	2.5	1.8	.14	0	.49
28	.44	1.1	2.9	6.2	20	5.0	14	1.7	1.0	.12	0	.26
29	.39	1.9	2.6	5.4	16	8.0	12	1.6	.80	.11	0	4.4
30	.39	1.7	80	4.6	------	8.8	11	2.5	.95	.11	0	2.6
31	.39	------	31	3.7	------	7.4	------	2.5	------	.12	0	------
TOTAL	12.37	20.58	374.92	278.3	235.8	556.3	2,333.5	551.1	55.80	17.52	3.05	9.54
MEAN	.40	.69	12.1	8.98	8.13	17.9	77.8	17.8	1.86	.57	.098	.32
MAX	2.5	1.9	80	21	23	180	770	92	12	3.0	.71	4.4
MIN	.15	.39	.86	3.7	2.2	4.2	5.9	1.6	.59	.11	0	0
CFSM	.03	.05	.83	.62	.56	1.23	5.33	1.22	.13	.04	.007	.02
IN.	.03	.05	.96	.71	.60	1.42	5.95	1.40	.14	.04	.007	.02

CAL YR 1971 TOTAL 4,407.17 MEAN 12.1 MAX 460 MIN .05 CFSM .83 IN 11.23
WTR YR 1972 TOTAL 4,448.78 MEAN 12.2 MAX 770 MIN 0 CFSM .84 IN 11.34

PEAK DISCHARGE (BASE, 700 CFS).—Apr. 7 (1645) 1,600 cfs (8.22 ft). Apr. 16 (0700) 2,500 cfs (9.97 ft).

NOTE.—No gage-height record Jan. 14 to Mar. 7, June 23 to Aug. 2.

03355000 Bear Creek near Trevlac, Ind.

LOCATION.—Lat 39°16'40", long 86°20'45", in NE 1/4 NE 1/4 sec.30, T.10 N., R.2 E., Brown County, on left bank 15 ft west of Bear Creek Road, 100 ft upstream from Slippery Elm Shoot Road ford, 1.1 miles northwest of Trevlac, and 1.3 miles upstream from mouth.

DRAINAGE AREA.—6.94 sq mi.

PERIOD OF RECORD.—May 1952 to current year.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.—20 years, 6.58 cfs (12.88 inches per year).

EXTREMES.—Current year: Maximum discharge, 544 cfs Apr. 7 (gage height, 4.98 ft); no flow Aug. 20–22, Aug. 27 to Sept. 7, Sept. 11, 17–24.
Period of record: Maximum discharge, 1,830 cfs June 12, 1957 (gage height, 7.62 ft), from rating curve extended above 290 cfs on basis of slope-area measurement of peak flow at gage height, 6.43 ft; no flow at times most years.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1555: 1952(M), 1955(M), 1956–57. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.44	.27	5.3	1.4	36	4.5	4.8	.48	.30	.06	0
2	.15	.44	.24	5.3	1.5	116	4.3	4.3	.44	1.2	.06	0
3	.24	.44	.24	4.0	1.3	29	4.8	3.2	.40	1.3	.09	0
4	.44	.44	.24	4.8	1.3	17	6.8	3.0	.37	.44	.18	0
5	.22	.40	.24	4.8	1.4	4.5	5.9	2.8	.24	.37	.05	0
6	.24	.48	.58	5.6	2.3	6.2	5.6	2.8	.34	.34	.83	0
7	.22	.48	4.6	3.4	2.6	5.6	137	2.0	.24	.30	.19	0
8	.24	.44	1.3	3.6	2.0	5.0	70	4.5	.22	.26	.10	.20
9	.56	.48	.86	4.5	2.0	4.5	28	6.5	.40	.24	.11	.10
10	.34	.44	1.1	5.3	1.4	4.0	19	4.5	.37	.22	.05	.01
11	.34	.40	1.2	4.5	1.2	3.0	14	3.6	.24	.19	.04	0
12	.30	.40	1.0	3.6	1.3	3.0	25	2.8	.17	.19	.07	.01
13	.34	.37	.80	3.4	1.4	3.2	35	18	2.9	.17	.07	.01
14	.37	.34	13	2.8	2.1	3.0	26	20	2.4	.17	.06	.16
15	.37	.34	16	2.3	3.2	2.8	18	17	39	.31	.05	.09
16	.37	.34	7.7	2.0	6.5	3.2	191	15	14	.30	.05	.04
17	.34	.34	4.8	1.8	7.7	3.2	66	9.0	4.0	.27	.04	0
18	.34	.30	3.4	2.3	6.8	2.8	42	6.8	2.1	.24	.03	0
19	.37	.44	2.9	2.6	6.8	2.6	37	4.3	1.3	.25	.01	0
20	.37	.37	2.8	2.4	6.8	2.4	64	2.8	1.2	.12	0	0
21	.46	.27	2.3	2.9	5.0	2.4	90	2.1	1.0	.09	0	0
22	1.4	.27	1.9	3.6	4.0	3.2	95	1.6	.58	.07	0	0
23	.86	.27	1.7	4.5	5.0	3.0	27	1.3	.44	.05	.06	0
24	.74	.34	1.5	4.0	5.9	2.6	18	1.0	.40	.35	.03	0
25	.68	.30	1.4	3.5	7.1	2.4	10	.80	.37	.20	.01	.45
26	.58	.30	1.3	3.2	12	2.4	7.7	.68	.34	.13	.01	.62
27	.58	.44	1.3	3.1	11	2.6	6.5	.63	.30	.13	.01	.35
28	.53	.37	1.4	2.6	9.4	2.8	5.6	.53	.46	.15	0	.20
29	.53	.53	1.2	2.1	8.0	4.1	5.3	.53	.37	.12	0	4.3
30	.53	.44	32	1.7	------	5.9	5.0	.68	.30	.07	0	.92
31	.53	------	12	1.3	------	5.0	------	.53	------	.04	0	------
TOTAL	13.73	11.65	121.27	106.8	128.4	293.4	1,074.0	148.08	75.37	8.58	2.26	7.46
MEAN	.44	.39	3.91	3.45	4.43	9.46	35.8	4.78	2.51	.28	.073	.25
MAX	1.4	.53	32	5.6	12	116	191	20	39	1.3	.83	4.3
MIN	.15	.27	.24	1.3	1.2	2.4	4.3	.53	.17	.04	0	0
CFSM	.06	.06	.56	.50	.64	1.36	5.16	.69	.36	.04	.01	.04
IN.	.07	.06	.65	.57	.69	1.57	5.76	.79	.40	.05	.01	.04

CAL YR 1971 TOTAL 2,186.96 MEAN 5.99 MAX 149 MIN 0 CFSM .86 IN 11.72
WTR YR 1972 TOTAL 1,991.00 MEAN 5.44 MAX 191 MIN 0 CFSM .78 IN 10.67

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-07	1600	4.98	544	04-21	1900	4.03	299
04-16	0400	4.82	500				

03355400 Lake Lemon near Bloomington, Ind.

LOCATION.—Lat 39°16'20", long 86°25'37", in NW 1/4 SE 1/4 sec.28, T.10 N., R.1 E., Monroe County, on left side of dam on Beanblossom Creek, 5 miles downstream from Bear Creek, 5.5 miles west of Trevlac, and 9.2 miles northeast of Bloomington.

DRAINAGE AREA.—70.9 sq mi.

PERIOD OF RECORD.—April 1953 to March 1958, October 1960 to current year.

GAGE.—Water-stage recorder. Datum of gage is 620.10 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 16,810 acre-ft Mar. 2 (gage height, 11.38 ft); minimum, 10,590 acre-ft Dec. 5, 6 (gage height, 7.28 ft).
Period of record: Maximum contents, 20,470 acre-ft May 24, 1968 (gage height, 13.32 ft); minimum, 5,390 acre-ft Mar. 3, 1964 (gage height, 2.50 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by 42-inch diameter gate in 42-inch conduit. Capacity at uncontrolled spillway elevation (9.87 ft) is 14,420 acre-ft. Reservoir is used for flood control, low-flow augmentation, and recreation. Reservoir put in operation on April 15, 1953.

COOPERATION.—Capacity tables furnished by Indiana Department of Natural Resources.

REVISIONS.—WRD Ind. 1968: Drainage area.

Month-end gage-height and contents, water year October 1971 to September 1972

Date	Gage-height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8.38	12,080	-
Oct. 31	7.90	11,460	-620
Nov. 30	7.35	10,690	-770
Dec. 31	9.64	14,020	+3,330
Calendar year 1971	-	-	-790
Jan. 31	10.12	14,790	+770
Feb. 29	10.30	15,080	+290
Mar. 31	10.20	14,920	-160
Apr. 30	10.22	14,950	+30
May 31	9.92	14,470	-480
June 30	9.88	14,410	-60
July 31	9.14	13,220	-1,190
Aug. 31	8.48	12,272	-948
Sept. 30	8.25	11,950	-322
Water year 1972	-	-	-130

03356000 Beanblossom Creek at Dolan, Ind.

LOCATION.—Lat 39°14'30", long 86°29'57", in NW 1/4 SW 1/4 sec.2, T.9 N., R.1 W., Monroe (revised) County, on downstream side of pier of highway bridge at Dolan, 5.8 miles northeast of Bloomington, and 17.5 miles upstream from mouth.

DRAINAGE AREA.—100 sq mi.

PERIOD OF RECORD.—April 1946 to current year. Prior to October 1965, published as Bean Blossom Creek at Dolan.

GAGE.—Water-stage recorder. Datum of gage is 576.41 ft above mean sea level (unadjusted). Prior to Sept. 28, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—26 years, 110 cfs (14.94 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,700 cfs Apr. 17 (gage height, 12.84 ft); minimum daily, 11 cfs Oct. 20, Dec. 2, 3. Period of record: Maximum discharge, 9,420 cfs June 2, 1947; maximum gage height, 17.9 ft Jan. 5, 1949; no flow at times during 1946-49, 1953.

REMARKS.—Records excellent. Flow regulated by Lake Lemon 8.1 miles upstream (See sta 03355400).

REVISIONS (WATER YEARS).—WSP 1113: 1947. WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	12	47	26	171	66	81	18	17	15	14
2	13	13	11	36	25	1,100	64	65	17	17	15	14
3	13	13	11	31	26	1,250	68	52	16	20	16	14
4	13	13	12	34	22	489	73	47	17	18	17	14
5	13	13	12	37	24	249	76	41	16	18	15	14
6	13	14	14	33	21	181	74	40	16	17	20	14
7	13	14	43	32	20	136	467	35	16	17	17	14
8	13	14	29	32	19	97	1,490	40	15	17	16	15
9	14	14	20	51	19	84	671	71	17	17	15	14
10	13	14	19	64	20	72	314	79	17	17	15	14
11	13	14	26	73	20	69	220	67	16	16	15	14
12	13	13	22	75	21	55	371	57	16	16	16	14
13	12	13	18	68	22	57	457	90	18	16	15	14
14	13	13	91	60	24	47	449	237	24	16	15	15
15	12	14	129	50	35	51	305	220	162	16	15	14
16	12	14	72	43	47	54	1,010	207	135	16	15	14
17	12	13	34	38	57	51	1,570	158	65	16	15	14
18	12	14	25	35	69	49	795	111	48	16	15	14
19	12	16	22	34	69	44	334	79	38	16	15	14
20	11	14	24	35	58	42	439	60	32	16	15	14
21	12	14	22	36	54	42	593	46	34	16	15	14
22	16	14	18	40	53	42	1,270	40	26	16	15	14
23	13	14	17	44	56	41	915	34	23	15	19	14
24	13	15	17	54	72	42	415	31	20	17	31	16
25	13	14	17	34	76	41	260	27	19	16	20	16
26	12	14	17	30	135	39	185	25	18	15	21	15
27	12	15	16	28	167	48	140	23	18	16	16	33
28	13	14	16	26	148	44	114	22	19	16	15	18
29	13	15	16	24	132	54	92	19	20	15	15	117
30	13	12	208	24	------	67	86	22	18	15	15	40
31	13	------	113	25	------	72	------	20	------	15	14	------
TOTAL	396	414	1,123	1,273	1,537	4,880	13,383	2,146	934	507	508	579
MEAN	12.8	13.8	36.2	41.1	53.0	157	446	69.2	31.1	16.4	16.4	19.3
MAX	16	16	208	75	167	1,250	1,570	237	162	20	31	117
MIN	11	12	11	24	19	39	64	19	15	15	14	14
CFSM	.13	.14	.36	.41	.53	1.57	4.46	.69	.31	.16	.16	.19
IN.	.15	.15	.42	.47	.57	1.82	4.98	.80	.35	.19	.19	.22

CAL YR 1971 TOTAL 30,586 MEAN 83.8 MAX 1,590 MIN 11 CFSM .84 IN 11.38
WTR YR 1972 TOTAL 27,680 MEAN 75.6 MAX 1,570 MIN 11 CFSM .76 IN 10.30

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-03	0200	12.53	1,600	04-17	1900	12.84	1,700
04-08	0900	12.65	1,640				

03357350 Plum Creek near Bainbridge, Ind.

LOCATION.—Lat 39°45'42", long 86°43'46", in SW 1/4 SE 1/4 sec.3, T.15 N., R.3 W., Putnam County, on right upstream wingwall of bridge on U.S. Highway 36, 0.5 mile west of Groveland, and 4.5 miles east of Bainbridge.

DRAINAGE AREA.—3.00 sq mi.

PERIOD OF RECORD.—July 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 828.44 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 384 cfs Dec. 14 (gage height, 4.17 ft); minimum daily, 0.01 cfs July 23, 31, Aug. 1, 5, 18-22, 30, 31, Sept. 1, 6, 9-13, 16-22.
Period of record: Maximum discharge, 632 cfs July 24, 1971 (gage height, 5.29 ft); no flow at times during August, September, and October 1970.

REMARKS.—Records good, except those for parts of December, January, and February, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.24	.32	4.3	1.4	8.9	1.0	1.6	.67	.48	.01	.01
2	.22	.27	.26	3.8	1.5	15	.98	1.3	.43	.49	.02	.02
3	.18	.24	.26	3.4	1.4	7.3	2.0	1.1	.31	1.4	.03	.43
4	.34	.20	.27	3.1	1.1	5.9	3.4	.90	.25	.49	.02	.10
5	.20	.17	.27	2.8	.90	3.9	2.1	.76	.17	.41	.01	.02
6	.15	.18	2.9	2.6	.96	3.6	1.9	.64	.60	.28	.96	.01
7	.12	.17	17	2.4	1.0	3.7	27	.54	.27	.22	.18	.02
8	.26	.15	7.1	2.2	.94	2.4	10	.64	.20	.17	.03	.04
9	.27	.18	4.7	2.7	.86	2.1	7.7	.45	1.1	.15	.02	.01
10	.19	.18	15	4.5	.78	2.0	6.1	.32	.85	.13	.02	.01
11	.15	.17	15	3.7	.70	2.3	4.7	.27	.33	.09	.02	.01
12	.12	.17	7.0	3.1	.80	2.2	19	.23	.23	.07	.89	.01
13	.13	.17	4.5	2.8	.95	2.4	11	.17	59	.05	.18	.01
14	.12	.15	151	2.1	1.1	1.9	7.0	.30	16	.05	.04	.07
15	.11	.14	60	1.8	6.0	1.9	5.5	.70	16	.05	.04	.02
16	.10	.13	12	1.5	4.5	2.1	30	.45	5.9	.05	.02	.01
17	.09	.13	7.4	1.9	2.5	1.8	9.5	.38	3.1	.04	.02	.01
18	.09	.14	4.8	2.0	3.1	1.4	6.5	.33	2.1	.03	.01	.01
19	.09	.28	4.2	2.1	1.9	1.2	5.7	.30	1.5	.03	.01	.01
20	.08	.25	4.8	2.4	1.7	1.4	16	.27	1.2	.02	.01	.01
21	.75	.22	4.1	5.0	2.1	1.4	35	.24	.92	.02	.01	.01
22	.98	.14	3.3	2.9	1.9	1.6	24	.21	.71	.02	.01	.01
23	.78	.13	3.5	2.7	2.0	1.1	8.8	.18	.55	.01	1.6	.07
24	.60	.15	3.1	2.4	2.3	.97	6.4	.16	.51	.08	1.8	.69
25	.48	.16	2.6	2.0	2.2	.97	4.7	.14	.46	.02	.22	.92
26	.38	.17	2.6	1.7	3.3	.90	3.6	.13	.37	.02	.96	9.1
27	.34	.32	2.4	1.4	3.4	1.1	2.9	.11	.31	.24	.18	4.4
28	.29	.26	2.2	1.2	3.5	.93	2.5	.10	2.1	.05	.02	3.1
29	.27	.58	2.0	1.0	3.9	1.4	2.3	.13	1.3	.02	.02	5.9
30	.27	.53	7.0	1.1	------	1.1	1.9	3.6	1.0	.02	.01	3.9
31	.27	------	5.4	1.3	------	.95	------	1.4	------	.01	.01	------
TOTAL	8.68	6.37	356.98	77.9	58.69	85.82	269.18	18.05	118.44	5.21	7.38	32.84
MEAN	.28	.21	11.5	2.51	2.02	2.77	8.97	.58	3.95	.17	.24	1.09
MAX	.98	.58	151	5.0	6.0	15	35	3.6	59	1.4	1.8	9.1
MIN	.08	.13	.26	1.0	.70	.90	.98	.10	.17	.01	.01	.01
CFSM	.09	.07	3.83	.84	.67	.92	2.99	.19	1.32	.06	.08	.36
IN.	.11	.08	4.43	.97	.73	1.06	3.34	.22	1.47	.06	.09	.41

CAL YR 1971 TOTAL 1,430.60 MEAN 3.92 MAX 151 MIN .02 CFSM 1.31 IN 17.74
WTR YR 1972 TOTAL 1,045.54 MEAN 2.86 MAX 151 MIN .01 CFSM .95 IN 12.96

PEAK DISCHARGE (BASE, 150 CFS).—Dec. 14 (1815) 384 cfs (4.17 ft). June 13 (2115) 294 cfs (3.72 ft).

03357500 Big Walnut Creek near Reelsville, Ind.

LOCATION.—Lat 39°32'11", long 86°58'35", in NW 1/4 SW 1/4 sec.28, T.13 N., R.5 W., Putnam County, on left bank at highway bridge, 1.5 miles southwest of Reelsville, and 3 miles upstream from Mill Creek.

DRAINAGE AREA.—326 sq mi.

PERIOD OF RECORD.—July 1949 to current year. Published as Eel River near Reelsville, October 1952 to September 1956.

GAGE.—Water-stage recorder. Datum of gage is 588.24 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—23 years, 323 cfs (13.45 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,650 cfs Dec. 15 (gage height, 13.65 ft); minimum daily, 13 cfs Sept. 20, 21.
Period of record: Maximum discharge, 27,400 cfs June 28, 1957 (gage height, 18.63 ft), from rating curve extended above 18,000 cfs on basis of slope-conveyance method; minimum daily, 1.4 cfs Sept. 8, 1954.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1950. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	44	55	676	230	429	150	429	265	120	32	21
2	51	43	53	568	236	1,380	150	396	193	100	30	22
3	47	43	47	508	225	978	158	354	159	104	32	29
4	44	41	46	576	169	697	313	324	137	103	36	32
5	46	40	47	616	150	546	303	300	122	98	36	31
6	46	41	61	560	140	433	254	276	112	88	118	24
7	43	41	660	532	135	403	1,700	258	198	81	105	21
8	41	40	856	404	120	336	2,110	258	189	76	76	22
9	43	40	528	480	120	271	1,090	260	169	73	55	23
10	43	40	480	652	120	256	826	255	220	70	45	28
11	43	40	1,360	588	130	243	654	230	218	66	39	25
12	40	40	812	492	140	241	778	208	159	61	155	20
13	39	40	540	448	150	241	1,250	218	137	58	129	17
14	39	39	2,910	356	160	238	822	238	1,190	55	88	25
15	38	41	6,090	260	288	217	618	297	850	53	91	35
16	36	40	3,190	250	277	217	2,080	260	606	56	56	28
17	35	39	1,460	300	253	214	1,590	228	375	54	51	21
18	35	38	988	350	303	197	938	198	268	53	48	17
19	34	41	764	416	200	180	718	179	218	49	46	15
20	34	43	676	348	190	169	1,920	161	151	47	40	13
21	35	43	608	293	223	167	2,290	151	160	45	33	13
22	55	40	528	392	221	205	3,380	141	140	41	28	14
23	83	39	476	536	208	187	1,900	131	127	38	33	19
24	81	39	452	468	248	165	1,280	124	119	49	61	41
25	74	38	416	380	244	155	910	115	113	85	71	60
26	67	38	400	220	297	146	718	109	108	72	55	224
27	60	43	376	185	302	152	597	104	101	58	44	438
28	54	46	348	160	310	154	522	98	129	58	36	341
29	51	51	305	160	322	159	504	95	167	48	31	431
30	48	55	732	180	------	170	489	330	167	40	26	408
31	46	------	976	210	------	152	------	390	------	36	23	------
TOTAL	1,486	1,246	27,240	12,564	6,111	9,698	31,012	7,115	7,267	2,035	1,749	2,458
MEAN	47.9	41.5	879	405	211	313	1,034	230	242	65.6	56.4	81.9
MAX	83	55	6,090	676	322	1,380	3,380	429	1,190	120	155	438
MIN	34	38	46	160	120	146	150	95	101	36	23	13
CFSM	.15	.13	2.70	1.24	.65	.96	3.17	.71	.74	.20	.17	.25
IN.	.17	.14	3.11	1.43	.70	1.11	3.54	.81	.83	.23	.20	.28

CAL YR 1971 TOTAL 119,936 MEAN 329 MAX 6,100 MIN 27 CFSM 1.01 IN 13.69
WTR YR 1972 TOTAL 109,981 MEAN 300 MAX 6,090 MIN 13 CFSM .92 IN 12.55

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0145	13.65	6,650	04-22	0600	10.50	3,950
04-07	1930	10.57	4,000				

03357500 Big Walnut Creek near Reelsville, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT.								
27...	1100	17.0	61	63	10	--	--	--
DEC.								
15...	1515	10.5	6310	1240	21100	29	38	46
16...	1205	--	2900	727	5690	--	--	--
APR.								
11...	1650	--	619	160	267	--	--	--
SEP.								
28...	1200	20.0	316	192	164	44	58	72

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.							
27...	--	--	--	--	--	--	--
DEC.							
15...	57	69	78	83	88	98	100
16...	--	--	--	--	--	--	--
APR.							
11...	--	--	--	--	--	--	--
SEP.							
28...	85	92	99	100	--	--	--

03358000 Mill Creek near Cataract, Ind.

LOCATION.—Lat 39°26'00", long 86°45'48", in NE 1/4 SE 1/4 sec.32, T.12 N., R.3 W., Owen County, on right bank at downstream side of bridge on State Highway 43, and 3 miles east of Cataract.

DRAINAGE AREA.—245 sq mi.

PERIOD OF RECORD.—July 1949 to current year.

GAGE.—Water-stage recorder. Datum of gage is 706.40 ft above mean sea level. Prior to Nov. 8, 1949, nonrecording gage, and Nov. 8, 1949, to Sept. 22, 1968, water-stage recorder at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.—23 years, 240 cfs (13.30 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,930 cfs Mar. 2 (gage height, 13.30 ft); minimum daily, 7.3 cfs Sept. 2.
Period of record: Maximum discharge, 11,400 cfs June 24, 1960 (gage height, 22.58 ft); minimum daily, 0.1 cfs Sept. 7, 28, 1954.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1505: 1956(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	26	450	76	428	76	151	78	82	13	7.7
2	16	24	21	378	79	2,600	74	142	59	62	12	7.3
3	16	20	20	330	70	2,450	75	118	49	57	15	9.1
4	17	19	18	395	60	925	106	102	44	51	15	19
5	16	18	18	473	50	505	99	94	39	48	15	16
6	14	17	21	303	47	333	88	90	36	44	22	11
7	13	17	152	250	45	298	717	88	39	40	79	8.5
8	13	16	285	180	40	236	1,680	98	39	37	39	7.7
9	14	18	93	348	38	170	576	99	44	35	20	11
10	15	18	66	558	38	160	380	90	49	36	14	14
11	15	19	176	368	41	146	282	78	44	32	12	10
12	14	18	108	264	45	148	463	72	34	29	25	8.5
13	13	18	57	232	57	139	756	89	37	29	73	7.9
14	12	16	841	152	70	136	552	107	1,510	25	30	10
15	12	16	2,370	90	250	113	338	106	1,760	26	36	13
16	12	20	2,410	75	206	119	1,930	99	1,990	30	22	17
17	12	17	946	80	142	121	1,790	86	747	30	14	14
18	11	18	455	112	206	103	609	74	318	26	11	12
19	11	19	298	154	137	90	390	66	190	30	9.8	11
20	11	20	260	145	100	86	888	60	134	23	8.9	11
21	12	20	248	140	95	86	1,160	56	103	19	8.5	11
22	20	19	200	146	110	99	2,850	53	86	16	8.5	12
23	47	18	174	222	105	95	2,130	50	74	15	15	20
24	31	17	166	174	178	83	723	47	68	20	161	60
25	24	17	140	130	182	78	440	44	66	35	61	79
26	21	17	140	90	450	77	313	42	62	30	45	155
27	30	18	130	75	383	78	248	42	58	25	29	378
28	21	19	119	72	315	82	202	38	63	22	16	130
29	24	22	101	70	315	81	180	36	98	19	12	218
30	21	24	960	70	------	94	170	61	130	16	9.1	254
31	20	------	1,090	75	------	81	------	110	------	14	8.3	------
TOTAL	545	560	12,109	6,601	3,930	10,240	20,285	2,488	8,048	1,003	859.1	1,542.7
MEAN	17.6	18.7	391	213	136	330	676	80.3	268	32.4	27.7	51.4
MAX	47	24	2,410	558	450	2,600	2,850	151	1,990	82	161	378
MIN	11	16	18	70	38	77	74	36	34	14	8.3	7.3
CFSM	.07	.08	1.60	.87	.56	1.35	2.76	.33	1.09	.13	.11	.21
IN.	.08	.09	1.84	1.00	.60	1.55	3.08	.38	1.22	.15	.13	.23

CAL YR 1971 TOTAL 73,040.4 MEAN 200 MAX 3,830 MIN 5.4 CFSM .82 IN 11.09
WTR YR 1972 TOTAL 68,210.8 MEAN 186 MAX 2,850 MIN 7.3 CFSM .76 IN 10.36

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2245	12.67	2,580	04-16	1800	12.71	2,600
03-02	1345	13.30	2,930	04-22	1400	13.29	2,920

03358000 Mill Creek near Cataract, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
27...	1330	75.0	20	25	1.4	--	--
DEC.							
15...	1220	--	2450	443	2930	38	49
16...	1100	--	2550	238	1640	--	--
SEP.							
28...	1500	21.0	120	46	15	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT.							
27...	--	--	--	--	--	--	--
DEC.							
15...	58	70	77	88	92	95	100
16...	--	--	--	--	--	--	--
SEP.							
28...	--	--	--	--	--	--	--

03358900 Cagles Mill Lake near Manhattan, Ind.

LOCATION.—Lat 39°29'14", long 86°55'02", in NE 1/4 NW 1/4 sec.13, T.12 N., R.5 W., Putnam County, in discharge tower of reservoir on Mill Creek, 1.5 miles upstream from Deer Creek, 2.8 miles above mouth, and 5.8 miles south of Manhattan.

DRAINAGE AREA.—293 sq mi.

PERIOD OF RECORD.—July 1953 to current year. Prior to September 1970, published as Cagles Mill "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 581.83 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 65,370 acre-ft Apr. 26 (elevation, 656.73 ft); minimum, 27,080 acre-ft June 2, 3, 23 (elevation, 635.98 ft). Pool lowered to elevation, 597.57 ft Oct. 23 (contents, dry) due to drainage of lake to kill fish.
Period of record: Maximum contents, 127,760 acre-ft May 15, 1961 (elevation, 679.30 ft); minimum, 26,370 acre-ft Dec. 5, 1968 (elevation, 635.46 ft). Pool lowered to elevation, 597.57 ft Oct. 23, 1971 (contents, dry) drained lake to kill fish.

REMARKS.—Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 5 ft wide and 10 ft high, in 12 ft by 12 ft concrete-lined tunnel 496 ft long through right abutment. Minimum design capacity is 27,110 acre-ft (elevation, 636 ft). Capacity at uncontrolled spillway elevation (704 ft) is 228,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	636.10	27,250	-
Oct. 31	604.88	0	-27,250
Nov. 30	609.93	0	0
Dec. 31	638.90	31,350	+31,350
Calendar year 1971	-	-	+4,940
Jan. 31	636.09	27,240	-4,110
Feb. 29	636.26	27,480	+240
Mar. 31	636.21	27,410	-70
Apr. 30	651.73	54,570	+27,680
May 31	636.30	27,540	-27,550
June 30	636.27	27,500	-40
July 31	636.05	27,180	-320
Aug. 31	636.08	27,230	+50
Sept. 30	636.78	28,220	+990
Water year 1972	-	-	+970

03359000 Mill Creek near Manhattan, Ind.

LOCATION.—Lat 39°29'22", long 86°55'50", in SW 1/4 SE 1/4 sec.11, T.12 N., R.5 W., Putnam County, on left bank 200 ft downstream from Cagles Mill, 0.8 mile downstream from Cagles Mill Lake, 0.8 mile upstream from Deer Creek, and 5.8 miles south of Manhattan.

DRAINAGE AREA.—294 sq mi.

PERIOD OF RECORD.—May to September 1931 (fragmentary), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage 581.83 ft above mean sea level. See WSP 1725 for history of changes prior to May 12, 1941.

AVERAGE DISCHARGE.—34 years (1938 to current year), 280 cfs (12.93 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,110 cfs Mar. 7 (gage height, 7.15 ft); maximum gage height, 7.39 ft Apr. 22 (backwater from Deer Creek); minimum daily discharge, 0.60 cfs Oct. 26, 27.
Period of record: Maximum discharge, 8,960 cfs Jan. 5, 1950 (gage height, 18.38 ft); no flow Aug. 7, 1953.

REMARKS.—Records good. Flow regulated by Cagles Mill Lake (See sta 03358900).

REVISIONS (WATER YEARS).—WSP 1335: 1940-41. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	.84	.94	410	91	271	124	1,840	201	167	14	15
2	27	.74	.89	220	91	160	139	1,880	112	109	14	15
3	27	.89	.88	100	92	108	127	1,830	24	65	14	15
4	27	.97	.82	835	92	110	105	1,790	14	37	15	14
5	19	.73	.82	1,440	92	112	128	1,850	14	36	14	15
6	3.5	.84	1.8	1,060	92	961	137	1,870	29	37	16	11
7	3.6	.80	3.7	428	92	1,960	130	1,810	35	37	15	3.1
8	3.8	.78	1.2	332	91	2,030	110	1,500	36	37	31	3.2
9	4.3	.88	.92	150	73	1,970	84	858	36	21	37	3.1
10	4.0	.89	1.6	375	26	1,440	361	186	36	14	34	2.8
11	4.0	.89	1.8	438	26	538	627	114	36	14	27	2.9
12	3.9	.89	1.3	437	69	241	300	89	36	14	15	2.8
13	3.9	.87	1.2	389	92	213	77	90	36	14	15	3.0
14	3.8	.85	1.2	218	93	154	78	91	37	14	30	3.2
15	1,690	.89	1.2	96	190	91	77	124	366	14	37	3.0
16	1,910	.83	1.3	96	280	165	78	139	818	26	31	3.0
17	1,970	.79	1.3	96	222	164	78	140	996	36	36	3.1
18	1,980	.84	1.0	96	154	106	79	124	1,230	36	35	3.1
19	1,930	1.2	.98	96	283	137	81	89	1,350	36	28	3.3
20	1,990	.90	1.2	148	155	122	82	44	1,080	22	14	3.3
21	1,440	.69	1.0	287	167	91	85	32	418	15	14	3.3
22	270	.69	.85	263	154	163	90	33	195	15	14	3.4
23	31	.71	.82	206	166	162	95	50	52	14	16	3.7
24	.9	.80	.85	206	184	91	103	55	15	14	15	13
25	.8	.82	.84	207	185	91	104	52	27	15	29	40
26	.6	.84	40	176	304	91	528	50	37	14	78	94
27	.6	1.1	95	94	440	91	957	41	37	15	92	94
28	.7	.99	95	167	440	90	1,490	26	38	14	72	244
29	.8	1.3	95	141	380	90	1,850	26	37	15	36	272
30	1.2	1.1	215	91	------	90	1,820	68	150	15	26	92
31	1.4	------	285	91	------	90	------	76	------	14	15	------
TOTAL	13,379.8	26.35	855.41	9,389	4,816	12,193	10,124	16,967	7,528	946	879	987.3
MEAN	432	.88	27.6	303	166	393	337	547	251	30.5	28.4	32.9
MAX	1,990	1.3	285	1,440	440	2,030	1,850	1,880	1,350	167	92	272
MIN	.60	.69	.82	91	26	90	77	26	14	14	14	2.8

CAL YR 1971 TOTAL 88,281.16 MEAN 242 MAX 2,360 MIN .60
WTR YR 1972 TOTAL 78,090.86 MEAN 213 MAX 2,030 MIN .60

03359500 Deer Creek near Putnamville, Ind.

LOCATION.—Lat 39°34'04", long 86°52'00", in SW 1/4 NW 1/4 sec.16, T.13 N., R.4 W., Putnam County, on right bank at downstream side of bridge on Stage Highway 243, 0.4 mile southwest of Putnamville, 0.4 mile downstream from small left-bank tributary, and 0.8 mile downstream from Limestone Creek.

DRAINAGE AREA.—59.0 sq mi.

PERIOD OF RECORD.—October 1954 to September 1965, October 1967 to September 1972 (Discontinued).

GAGE.—Water-stage recorder. Datum of gage is 628.00 ft above mean sea level. Prior to July 3, 1957, nonrecording gage, July 4, 1957, to May 10, 1965, water-stage recorder (January 1959 to July 1963, nonrecording gage used below 1.7 ft gage height), May 11, to Sept. 30, 1965, water-stage recorder at site 100 ft upstream at datum 2.73 ft higher.

AVERAGE DISCHARGE.—16 years (1954-65, 1967-72), 59.9 cfs (13.79 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,220 cfs Dec. 14 (gage height, 9.94 ft); minimum daily, 0.16 cfs Sept. 22.
Period of record: Maximum discharge, 10,700 cfs Mar. 4, 1963 (gage height, 12.95 ft, datum then in use); no flow Oct. 1-10, 1954.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.4	6.3	81	23	130	22	49	24	14	1.9	.52
2	3.4	3.6	5.1	74	22	530	22	44	16	8.9	1.7	.49
3	2.9	3.2	4.5	58	19	200	24	38	13	13	2.2	1.4
4	2.5	3.0	4.2	114	16	110	43	34	11	9.3	3.3	1.3
5	2.3	3.0	4.4	90	14	90	32	32	8.3	8.2	2.8	.86
6	2.2	3.2	16	80	13	80	29	29	7.3	6.5	101	.63
7	1.6	3.7	143	60	12	72	396	28	7.1	5.4	35	.45
8	1.7	3.4	71	52	12	60	194	33	6.2	4.8	9.8	.60
9	2.8	3.6	40	98	12	45	109	29	11	4.4	5.5	.55
10	3.2	3.8	51	100	12	41	80	25	12	4.2	3.4	.46
11	2.9	3.9	169	71	14	41	65	22	7.2	3.7	2.6	.44
12	2.4	3.5	64	56	15	40	94	19	5.5	3.6	15	.40
13	2.0	3.4	41	54	18	39	186	28	36	3.2	29	.27
14	1.9	3.3	782	45	23	37	114	33	131	2.6	20	2.0
15	1.9	3.0	558	30	33	33	84	28	173	2.9	17	2.8
16	1.9	2.9	201	26	27	36	651	24	89	4.5	5.1	1.4
17	1.9	2.8	113	40	22	35	208	18	38	4.2	3.5	.94
18	1.8	2.9	73	47	27	29	133	16	24	3.3	2.4	.70
19	1.7	3.8	60	52	17	26	106	13	17	2.6	1.6	.52
20	1.6	4.1	62	41	16	24	289	11	14	2.5	1.1	.36
21	1.5	3.5	55	47	19	25	389	10	10	2.1	1.0	.25
22	11	2.9	44	44	20	33	624	8.8	9.1	1.8	.94	.16
23	11	3.0	41	48	19	27	216	7.4	7.1	1.5	4.4	.30
24	7.5	3.0	39	63	19	23	140	6.3	6.1	7.4	87	11
25	6.8	3.0	34	45	35	22	99	5.4	5.8	19	16	1.8
26	6.0	3.2	35	30	120	21	78	4.4	5.7	6.9	5.3	128
27	5.0	4.8	32	24	95	23	65	3.9	5.0	4.8	2.5	102
28	4.5	5.0	30	21	75	23	58	3.4	46	4.0	1.4	14
29	4.2	7.7	25	20	90	27	56	3.0	51	3.6	1.0	61
30	4.3	8.0	239	20	------	28	54	107	28	2.9	.85	36
31	3.8	------	130	22	------	22	------	50	------	2.2	.65	------
TOTAL	112.1	111.6	3,172.5	1,653	859	1,972	4,660	762.6	824.4	168.0	384.94	371.60
MEAN	3.62	3.72	102	53.3	29.6	63.6	155	24.6	27.5	5.42	12.4	12.4
MAX	11	8.0	782	114	120	530	651	107	173	19	101	128
MIN	1.5	2.8	4.2	20	12	21	22	3.0	5.0	1.5	.65	.16
CFSM	.06	.06	1.73	.90	.50	1.08	2.63	.42	.47	.09	.21	.21
IN.	.07	.07	2.00	1.04	.54	1.24	2.94	.48	.52	.11	.24	.23

CAL YR 1971 TOTAL 17,504.70 MEAN 48.0 MAX 1,900 MIN 1.1 CFSM .81 IN 11.04
WTR YR 1972 TOTAL 15,051.74 MEAN 41.1 MAX 782 MIN .16 CFSM .70 IN 9.49

PEAK DISCHARGE (BASE, 2,000 CFS).--Dec. 14 (1530) 2,220 cfs (9.94 ft).

NOTE.--No gage-height record Feb. 4 to Mar. 10.

03360000 Eel River at Bowling Green, Ind.

LOCATION.—Lat 39°23'02", long 87°01'12", in NE 1/4 NE 1/4 sec.24, T.11 N., R.6 W., Clay County, on left bank 500 ft downstream from bridge on State Highway 46 at Bowling Green, and 0.5 mile downstream from Jordan Creek.

DRAINAGE AREA.—830 sq mi.

PERIOD OF RECORD.—January 1931 to current year. Prior to October 1934, published as "near Centerpoint".

GAGE.—Water-stage recorder. Datum of gage is 548.02 ft above mean sea level (levels by Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

AVERAGE DISCHARGE.—41 years, 823 cfs (13.47 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,880 cfs Dec. 16 (gage height, 16.75 ft); minimum daily, 32 cfs Sept. 21, 22. Period of record: Maximum discharge, 34,000 cfs Jan. 4, 1950 (gage height, 23.53 ft); minimum daily, 11 cfs Oct. 7, 8, 1954. Maximum stage known, about 30.0 ft in 1875, present datum, from information by Corps of Engineers.

REMARKS.—Records good. Flow regulated by Cagles Mill Lake (See sta 03358900).

REVISIONS (WATER YEARS).—WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939(M). WSP 1335: 1931(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	107	83	1,370	369	985	372	2,540	525	410	71	50
2	109	102	78	1,110	386	3,870	401	2,550	559	310	69	48
3	103	99	74	766	398	2,250	401	2,460	322	259	72	52
4	98	95	70	1,380	350	1,250	547	2,380	239	213	75	54
5	95	93	69	2,340	290	934	566	2,340	215	205	71	54
6	83	93	82	1,960	260	1,090	525	2,380	195	189	131	50
7	75	94	547	1,080	250	2,510	1,560	2,310	280	179	263	40
8	72	90	1,050	942	240	2,580	4,180	2,190	240	169	135	40
9	73	88	610	879	235	2,450	1,750	1,760	275	159	118	43
10	73	85	468	1,330	236	2,280	1,370	759	340	135	101	47
11	72	84	1,240	1,280	239	1,240	1,650	588	290	128	93	53
12	71	82	1,030	1,110	257	703	1,710	490	260	122	94	47
13	68	81	610	1,010	316	686	1,940	481	230	117	218	43
14	68	78	2,130	735	335	615	1,660	509	2,100	114	132	40
15	884	77	6,140	479	508	498	1,080	532	2,000	111	210	50
16	1,870	75	6,000	831	692	513	3,820	588	1,810	117	134	65
17	1,970	73	2,270	858	636	577	3,610	518	1,610	130	107	56
18	2,030	71	1,330	805	550	458	1,780	471	1,310	126	98	45
19	2,030	75	961	534	480	461	1,280	406	2,000	122	95	40
20	2,050	76	833	561	420	443	2,620	353	1,600	117	74	35
21	1,940	75	751	698	446	400	2,820	304	931	100	64	32
22	775	71	649	835	496	461	5,450	284	589	94	58	32
23	284	70	585	876	455	528	3,800	270	358	89	61	35
24	215	68	552	797	588	399	2,200	270	271	92	104	45
25	190	68	515	713	596	373	1,610	258	249	117	131	80
26	171	66	495	590	819	361	1,410	246	249	117	127	680
27	153	71	561	445	947	362	1,970	236	239	106	150	628
28	137	75	539	370	937	371	2,010	208	241	100	139	750
29	124	80	497	320	933	380	2,590	199	325	94	87	800
30	118	86	1,670	300	------	406	2,670	352	348	82	76	670
31	111	------	1,850	310	------	376	------	647	------	76	57	------
TOTAL	16,229	2,448	34,339	27,614	13,664	30,810	59,352	29,879	20,200	4,499	3,415	4,704
MEAN	524	81.6	1,108	891	471	994	1,978	964	673	145	110	157
MAX	2,050	107	6,140	2,340	947	3,870	5,450	2,550	2,100	410	263	800
MIN	68	66	69	300	235	361	372	199	195	76	57	32
CFSM	.63	.10	1.33	1.07	.57	1.20	2.38	1.16	.81	.17	.13	.19
IN.	.73	.11	1.54	1.24	.61	1.38	2.66	1.34	.91	.20	.15	.21

CAL YR 1971 TOTAL 283,397 MEAN 776 MAX 9,730 MIN 58 CFSM .93 IN 12.70
WTR YR 1972 TOTAL 247,153 MEAN 675 MAX 6,140 MIN 32 CFSM .81 IN 11.08

03360500 White River at Newberry, Ind.

LOCATION.--Lat 38°55'42", long 87°01'00", in NE 1/4 NE 1/4 sec.25, T.6 N., R.6 W., Greene County, on right bank 500 ft upstream from bridge on State Highway 57 at Newberry, 2.3 miles downstream from Doans Creek, and at mile 118.0.

DRAINAGE AREA.—4,688 sq mi.

PERIOD OF RECORD.—September 1928 to current year. Prior to October 1948, published as West Fork White River at Newberry.

GAGE.—Water-stage recorder. Datum of gage is 465.59 ft above mean sea level. Prior to Oct. 21, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—44 years, 4,485 cfs (12.99 inches per year).

EXTREMES.—Current year: Maximum discharge, 27,800 cfs Apr. 25 (gage height, 18.05 ft); minimum daily, 593 cfs Nov. 26.
Period of record: Maximum discharge, 76,900 cfs May 21, 1943 (gage height, 24.19 ft); minimum daily, 200 cfs Oct. 1, 1941. Maximum stage since at least 1875, 27.5 ft Mar. 27, 1913, from floodmarks by State Highway Department of Indiana (discharge, 130,000 cfs).

REMARKS.—Records good. Flow slightly regulated by four reservoirs above station.

REVISIONS (WATER YEARS).—WSP 873: 1937(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	825	690	9,400	2,590	3,800	3,000	9,110	2,860	2,310	1,170	808
2	1,020	788	750	8,910	2,400	4,520	3,000	8,230	2,850	2,140	1,100	782
3	936	750	720	9,200	2,300	12,700	2,970	7,650	2,670	2,070	1,180	762
4	880	728	690	8,260	2,100	14,500	3,030	7,090	2,420	1,950	1,440	737
5	818	705	668	7,270	2,000	14,000	3,270	6,720	2,230	1,860	1,390	1,150
6	856	705	653	7,680	2,200	12,400	3,560	6,320	2,130	1,970	1,240	1,020
7	840	698	1,100	7,270	2,000	9,520	3,990	6,000	2,030	2,220	1,250	888
8	758	683	2,080	6,160	1,900	8,200	9,410	5,700	2,570	2,020	1,450	1,060
9	780	683	3,080	5,670	1,900	7,410	13,400	5,820	2,650	1,840	1,430	923
10	750	668	3,030	5,860	1,800	6,700	14,800	5,460	2,360	1,720	1,240	851
11	758	675	3,370	6,400	1,800	6,090	14,700	4,480	2,260	1,620	1,150	899
12	780	668	3,720	7,000	1,800	4,960	15,600	3,980	2,310	1,540	1,130	837
13	720	660	4,140	6,500	1,900	4,160	18,000	3,790	2,140	1,460	1,120	761
14	720	653	4,750	5,640	2,000	3,850	16,500	4,150	2,030	1,440	1,240	745
15	705	645	8,200	4,920	2,170	3,690	14,300	4,360	3,710	1,410	1,230	725
16	904	630	12,100	3,940	2,400	3,530	15,800	4,530	7,820	1,450	1,100	710
17	2,010	608	14,100	3,270	2,640	3,540	21,300	5,000	9,920	1,510	1,230	757
18	2,210	608	15,200	3,200	2,870	3,480	21,700	5,610	8,380	1,470	1,080	775
19	2,270	615	14,100	3,220	3,060	3,260	21,100	5,250	6,300	1,460	1,050	823
20	2,290	593	12,500	3,550	2,820	3,100	20,400	4,510	5,200	1,510	998	777
21	2,330	608	8,600	3,750	2,870	2,960	19,800	3,880	4,730	1,430	951	741
22	2,440	623	6,430	3,720	2,800	2,910	20,400	3,460	3,830	1,630	971	695
23	1,870	600	5,240	3,920	2,840	2,960	22,200	3,140	3,200	1,820	973	737
24	1,370	600	4,570	4,180	2,940	3,010	24,200	2,930	2,740	1,770	1,050	892
25	1,230	615	4,090	4,380	2,850	2,830	27,200	2,730	2,510	1,800	1,130	2,260
26	1,070	608	3,810	4,320	3,110	2,670	27,600	2,590	2,320	1,820	1,110	1,980
27	1,080	608	3,800	3,960	3,250	2,580	24,700	2,440	2,160	1,740	1,280	4,610
28	1,050	593	3,740	3,550	3,240	2,510	18,800	2,320	2,100	1,490	1,100	6,830
29	984	630	3,580	3,200	3,600	2,520	12,200	2,190	2,240	1,460	944	6,790
30	920	690	5,820	3,060	------	2,680	10,200	2,120	2,400	1,350	885	9,900
31	880	------	9,380	2,810	------	2,970	------	2,130	------	1,260	830	------
TOTAL	37,319	19,763	164,701	164,170	72,150	164,010	447,130	143,690	103,070	52,540	35,442	52,225
MEAN	1,204	659	5,313	5,296	2,488	5,291	14,900	4,635	3,436	1,695	1,143	1,741
MAX	2,440	825	15,200	9,400	3,600	14,500	27,600	9,110	9,920	2,310	1,450	9,900
MIN	705	593	653	2,810	1,800	2,510	2,970	2,120	2,030	1,260	830	695
CFSM	.26	.14	1.13	1.13	.53	1.13	3.18	.99	.73	.36	.24	.37
IN.	.30	.16	1.31	1.30	.57	1.30	3.55	1.14	.82	.42	.28	.41

CAL YR 1971 TOTAL 1,358,797 MEAN 3,723 MAX 34,100 MIN 593 CFSM .79 IN 10.78
WTR YR 1972 TOTAL 1,456,210 MEAN 3,979 MAX 27,600 MIN 593 CFSM .85 IN 11.56

03361000 Big Blue River at Carthage, Ind.

LOCATION.—Lat 39°44'38", long 85°34'33", in SW 1/4 SW 1/4 sec.18, T.15 N., R.9 E., Rush County, on right bank 300 ft upstream from highway bridge, 0.5 mile northwest of Carthage, and 2.2 miles downstream from Three Mile Creek.

DRAINAGE AREA.—184 sq mi.

PERIOD OF RECORD.—October 1950 to current year. Prior to October 1961, published as Blue River at Carthage, Ind.

GAGE.—Water-stage recorder. Datum of gage is 859.33 ft above mean sea level. Prior to July 19, 1951, nonrecording gage at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.—22 years, 189 cfs (13.95 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,850 cfs Apr. 7 (gage height, 7.00 ft); minimum daily, 49 cfs Sept. 1.
Period of record: Maximum discharge, 12,900 cfs Mar. 4, 1963 (gage height, 14.62 ft, from floodmarks), from rating curve extended above 6,200 cfs; minimum daily, 18 cfs Sept. 18, 1955.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	77	85	402	110	308	123	214	177	111	68	49
2	67	77	80	358	110	1,460	121	205	154	102	69	51
3	64	74	78	303	110	825	119	189	141	102	80	71
4	66	71	76	310	100	489	143	175	131	98	80	60
5	63	69	75	315	84	353	137	163	123	98	69	56
6	62	69	100	244	100	265	133	157	141	95	74	53
7	61	69	397	214	92	244	1,220	154	127	91	78	51
8	61	66	439	186	88	232	927	313	119	91	72	59
9	71	69	262	226	86	198	705	489	121	90	91	56
10	65	69	208	343	84	182	498	323	117	88	72	51
11	63	67	179	283	86	173	381	239	107	93	66	50
12	62	67	153	232	94	168	343	207	105	95	75	53
13	64	65	139	216	111	173	786	483	163	88	68	56
14	87	65	479	182	139	175	492	726	193	85	63	66
15	69	64	1,450	145	275	163	345	720	366	121	66	62
16	74	64	1,130	130	207	166	747	507	453	137	65	56
17	71	64	582	145	163	168	792	375	232	102	62	53
18	68	63	381	157	173	157	489	290	180	93	60	51
19	68	68	293	161	147	143	353	242	154	88	59	54
20	66	66	265	161	123	139	510	214	147	85	62	51
21	67	66	251	163	125	139	501	196	189	82	56	50
22	121	64	219	175	127	161	1,400	180	141	78	57	50
23	148	64	200	186	121	154	807	168	127	77	68	119
24	150	66	186	175	117	141	504	157	121	82	60	143
25	169	65	168	166	119	135	387	147	117	85	57	113
26	131	64	166	139	175	131	310	139	111	75	56	180
27	112	77	159	125	163	133	268	131	107	83	53	154
28	99	74	152	115	157	129	242	125	111	75	54	111
29	90	81	139	110	180	137	226	125	145	72	53	203
30	85	90	675	110	------	139	226	253	131	69	51	310
31	81	------	768	110	------	127	------	230	------	68	50	------
TOTAL	2,595	2,074	9,934	6,287	3,766	7,707	14,235	8,236	4,751	2,799	2,014	2,542
MEAN	83.7	69.1	320	203	130	249	475	266	158	90.3	65.0	84.7
MAX	169	90	1,450	402	275	1,460	1,400	726	453	137	91	310
MIN	61	63	75	110	84	127	119	125	105	68	50	49
CFSM	.45	.38	1.74	1.10	.71	1.35	2.58	1.45	.86	.49	.35	.46
IN.	.52	.42	2.01	1.27	.76	1.56	2.88	1.67	.96	.57	.41	.51

CAL YR 1971 TOTAL 69,411 MEAN 190 MAX 2,980 MIN 39 CFSM 1.03 IN 14.03
WTR YR 1972 TOTAL 66,940 MEAN 183 MAX 1,460 MIN 49 CFSM .99 IN 13.53

PEAK DISCHARGE (BASE, 2,000 CFS).—No peak above base.

03361500 Big Blue River at Shelbyville, Ind.

LOCATION.—Lat 39°31'45", long 85°46'55", in SE 1/4 SE 1/4 sec.31, T.13 N., R.7 E., Shelby County, on left bank 0.2 mile downstream from bridge on U.S. Highway 421 at Shelbyville, and 0.6 mile downstream from Little Blue River.

DRAINAGE AREA.—421 sq mi.

PERIOD OF RECORD.—September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.

GAGE.—Water-stage recorder. Datum of gage is 737.67 ft above mean sea level. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mile upstream at datum 3.5 ft higher.

AVERAGE DISCHARGE.—29 years, 448 cfs (14.47 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,690 cfs Apr. 22 (gage height, 10.77 ft); minimum daily, 60 cfs Sept. 22.
Period of record: Maximum discharge, 15,800 cfs Mar. 5, 1963 (gage height, 17.70 ft); minimum daily, 32 cfs Oct. 2, 1953. Flood in March 1913 reached a stage of about 20.2 ft, from floodmarks.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1505: 1944. WSP 1909: 1959(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	124	124	1,140	200	475	230	489	526	254	116	68
2	100	116	118	915	225	2,220	223	458	389	221	113	67
3	93	114	113	820	200	2,970	219	416	320	212	117	81
4	90	107	107	718	175	1,510	234	380	281	199	130	96
5	88	104	105	799	150	1,120	246	344	254	194	120	83
6	83	104	118	654	175	831	239	320	306	184	113	76
7	82	102	311	538	196	690	1,160	308	303	174	120	72
8	80	98	953	437	170	630	2,910	404	251	167	117	74
9	86	97	662	468	160	526	1,810	806	244	163	117	75
10	92	98	468	768	155	447	1,360	682	239	159	121	70
11	86	98	386	746	150	404	1,090	496	219	155	105	65
12	83	97	323	598	160	389	929	416	204	161	106	63
13	85	95	279	526	190	374	1,150	558	221	170	113	64
14	92	93	514	431	249	386	1,220	1,380	518	153	100	74
15	105	92	2,170	284	538	359	876	1,350	686	148	96	82
16	95	90	2,640	270	518	356	1,450	1,340	1,340	230	96	76
17	98	90	1,480	300	371	356	2,140	1,010	960	200	93	71
18	95	88	1,020	320	374	335	1,290	775	646	172	89	67
19	90	92	754	330	350	300	967	614	461	155	86	65
20	86	93	614	329	256	279	1,110	503	383	146	85	64
21	86	93	554	323	256	276	1,300	440	425	138	85	62
22	100	90	479	344	249	308	3,220	395	416	130	82	60
23	195	86	416	416	234	317	2,650	356	311	125	90	62
24	215	88	392	404	239	279	1,520	326	271	163	96	153
25	286	90	350	374	232	261	1,120	300	251	176	85	175
26	259	88	329	300	284	249	880	279	234	150	81	159
27	206	92	311	260	377	244	734	259	219	174	79	246
28	173	102	294	220	350	244	622	241	215	187	77	188
29	154	105	269	200	377	239	550	239	271	155	75	171
30	139	116	810	190	------	261	514	362	303	133	72	388
31	131	------	1,740	185	------	239	------	782	------	122	69	------
TOTAL	3,760	2,942	19,203	14,607	7,560	17,874	33,963	17,028	11,667	5,270	3,044	3,117
MEAN	121	98.1	619	471	261	577	1,132	549	389	170	98.2	104
MAX	286	124	2,640	1,140	538	2,970	3,220	1,380	1,340	254	130	388
MIN	80	86	105	185	150	239	219	239	204	122	69	60
CFSM	.29	.23	1.47	1.12	.62	1.37	2.69	1.30	.92	.40	.23	.25
IN.	.33	.26	1.70	1.29	.67	1.58	3.00	1.50	1.03	.47	.27	.28

CAL YR 1971 TOTAL 147,932 MEAN 405 MAX 6,010 MIN 67 CFSM .96 IN 13.07
WTR YR 1972 TOTAL 140,035 MEAN 383 MAX 3,220 MIN 60 CFSM .91 IN 12.37

PEAK DISCHARGE (BASE, 3,400 CFS).—Mar. 3 (0200) 3,480 cfs (10.51 ft). Apr. 22 (1900) 3,690 cfs (10.77 ft).

03361500 Big Blue River at Shelbyville, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV.								
04...	1350	11.0	107	65	19	--	--	--
30...	1410	5.0	118	13	4.1	--	--	--
DEC.								
15...	0855	--	2090	581	3280	48	63	74
JAN.								
03...	1510	5.0	799	60	129	--	--	--
FEB.								
07...	1700	6.0	196	110	58	--	--	--
MAR.								
07...	1150	5.0	700	96	181	--	--	--
APR.								
17...	1615	14.0	1980	216	1150	57	67	79
MAY								
16...	1700	16.0	1300	130	456	--	--	--
JULY								
27...	1545	24.0	179	158	76	--	--	--
SEP.								
08...	1515	22.0	71	33	6.3	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.							
04...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
DEC.							
15...	87	93	96	98	98	99	100
JAN.							
03...	--	--	--	--	--	--	--
FEB.							
07...	--	--	--	--	--	--	--
MAR.							
07...	--	--	--	--	--	--	--
APR.							
17...	87	95	97	100	--	--	--
MAY							
16...	--	--	--	--	--	--	--
JULY							
27...	--	--	--	--	--	--	--
SEP.							
08...	--	--	--	--	--	--	--

03361650 Sugar Creek at New Palestine, Ind.

LOCATION.—Lat 39°42'51", long 85°53'08", in SE 1/4 SW 1/4 sec.29, T.15 N., R.6 E., Hancock County, on left bank 10 ft downstream from bridge on County Road 450 West, 0.5 mile south of New Palestine, 3 miles upstream from Little Sugar Creek, and 37.3 miles from mouth.

DRAINAGE AREA.—93.9 sq mi.

PERIOD OF RECORD.—October 1967 to current year.

GAGE.—Water-stage recorder. Datum of gage is 786.00 ft above mean sea level.

AVERAGE DISCHARGE.—5 years, 95.3 cfs (13.78 inches per year).

EXTREMES.—Current year: Maximum discharge, 886 cfs Dec. 15 (gage height, 6.77 ft); minimum daily, 4.8 cfs Sept. 1.
Period of record: Maximum discharge, 1,740 cfs Feb. 2, 1968 (gage height, 9.34 ft); minimum daily, 3.2 cfs Oct. 7, 1970.

REMARKS.—Records good except those for parts of January and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	15	298	46	131	53	97	42	30	9.7	4.8
2	17	15	16	204	41	517	50	91	38	27	11	7.0
3	15	14	16	166	38	586	47	84	33	25	13	18
4	27	14	16	156	37	382	59	75	30	24	12	13
5	17	13	15	163	35	247	76	69	27	24	10	10
6	14	13	21	137	35	164	74	64	37	22	13	8.8
7	13	13	118	112	36	131	493	61	33	20	14	7.9
8	12	12	231	91	35	112	786	74	31	19	13	10
9	14	12	175	103	33	91	705	118	29	18	12	9.7
10	17	12	122	162	31	79	438	124	28	18	12	8.9
11	13	12	109	163	31	72	307	96	25	17	12	8.7
12	11	13	90	128	30	70	249	79	22	16	15	8.3
13	13	13	74	111	33	68	244	100	50	15	13	11
14	14	12	276	91	39	66	197	149	102	14	11	13
15	13	12	755	65	70	61	163	179	280	19	10	11
16	12	12	838	50	76	59	407	188	367	24	9.9	10
17	12	11	615	60	60	62	504	155	263	21	9.4	11
18	11	11	302	70	61	60	346	114	147	22	9.2	9.8
19	12	13	200	72	59	54	239	93	99	18	8.0	8.9
20	12	12	160	76	45	51	252	80	90	20	7.3	8.2
21	12	12	136	77	49	50	325	71	71	22	6.9	8.0
22	30	10	118	80	41	65	564	63	83	16	6.6	7.9
23	50	9.3	105	81	39	74	531	57	62	14	8.9	24
24	37	10	98	76	39	63	348	50	49	15	7.8	21
25	39	9.5	88	69	40	56	242	45	43	18	6.2	25
26	25	9.7	82	54	65	51	182	41	39	15	6.5	45
27	21	11	78	50	66	49	149	37	35	20	6.5	61
28	19	11	70	47	70	48	125	34	36	16	6.0	49
29	18	13	66	45	80	50	112	32	36	13	6.1	73
30	17	14	204	43	------	56	106	39	32	11	5.6	112
31	16	------	397	45	------	56	------	40	------	10	5.2	------
TOTAL	569	363.5	5,606	3,145	1,360	3,681	8,373	2,599	2,259	583	296.8	623.9
MEAN	18.4	12.1	181	101	46.9	119	279	83.8	75.3	18.8	9.57	20.8
MAX	50	15	838	298	80	586	786	188	367	30	15	112
MIN	11	9.3	15	43	30	48	47	32	22	10	5.2	4.8
CFSM	.20	.13	1.93	1.08	.50	1.27	2.97	.89	.80	.20	.10	.22
IN.	.23	.14	2.22	1.25	.54	1.46	3.32	1.03	.89	.23	.12	.25

CAL YR 1971 TOTAL 31,309.0 MEAN 85.8 MAX 1,120 MIN 6.5 CFSM .91 IN 12.40
WTR YR 1972 TOTAL 29,459.2 MEAN 80.5 MAX 838 MIN 4.8 CFSM .86 IN 11.67

PEAK DISCHARGE (BASE, 950 CFS).—No peaks above base.

03361850 Buck Creek at Acton, Ind.

LOCATION.—Lat 39°39'25", long 85°57'27", in NW 1/4 SE 1/4 sec.15, T.14 N., R.5 E., Marion County, on left bank 30 ft downstream from McGregor Road bridge, 0.5 mile east of Acton, and 4.2 miles upstream from mouth.

DRAINAGE AREA.—78.8 sq mi.

PERIOD OF RECORD.—October 1967 to current year.

GAGE.—Water-stage recorder. Datum of gage is 757.00 ft above mean sea level.

AVERAGE DISCHARGE.—5 years, 83.2 cfs (14.34 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,250 cfs Apr. 16 (gage height, 8.04 ft); minimum daily, 4.0 cfs Oct. 1, 2, Nov. 14. Period of record: Maximum discharge, 5,300 cfs July 20, 1969 (gage height, 14.99 ft); minimum daily, 0.60 cfs Oct. 1, 4, 1967.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	8.0	8.2	186	23	153	33	55	21	17	5.6	4.6
2	4.0	7.6	7.0	145	22	922	29	52	17	15	5.6	29
3	4.2	7.2	6.1	114	21	540	27	46	16	15	7.0	50
4	6.7	7.0	5.9	123	19	294	46	40	14	13	7.6	28
5	7.3	7.0	5.9	115	17	184	46	35	12	12	6.1	13
6	7.3	6.7	13	100	18	116	40	33	90	12	7.3	8.2
7	6.7	6.7	139	77	19	103	680	31	66	11	13	5.9
8	6.4	6.1	177	59	17	83	678	42	35	10	9.2	7.0
9	7.3	5.9	101	89	17	65	410	45	28	9.9	7.0	7.9
10	8.9	5.6	83	159	16	58	263	35	31	9.2	5.9	5.9
11	7.0	4.9	100	120	15	51	179	29	22	8.9	5.4	4.9
12	5.9	4.9	74	91	16	51	173	27	18	8.2	7.3	4.4
13	7.0	4.4	56	81	21	49	227	60	50	7.9	7.9	4.4
14	7.3	4.0	368	59	35	46	153	97	180	7.6	6.4	5.6
15	7.0	4.4	916	45	97	39	111	91	554	8.2	5.9	6.7
16	6.7	4.2	580	35	71	42	795	85	618	19	5.9	5.9
17	6.1	4.6	321	39	54	41	514	77	224	11	5.4	5.1
18	5.9	7.9	182	44	69	36	242	57	123	8.9	5.1	4.9
19	6.4	9.6	123	49	53	30	154	45	83	7.9	4.9	4.9
20	6.1	9.2	101	56	40	28	242	37	68	7.3	4.6	4.6
21	6.4	9.6	89	60	36	28	361	33	63	6.7	4.6	4.6
22	20	8.9	75	63	33	38	825	30	43	28	4.6	5.6
23	32	8.5	68	66	29	34	376	26	33	16	4.9	38
24	24	8.2	64	59	35	29	219	23	28	13	5.4	64
25	25	7.9	54	52	36	27	145	21	27	25	5.6	91
26	22	7.6	54	38	107	27	107	19	24	12	5.4	210
27	17	7.0	49	30	101	27	84	18	20	12	5.1	173
28	12	6.7	44	26	86	25	70	16	23	11	4.9	100
29	10	7.6	37	24	96	33	64	16	30	7.9	4.9	184
30	9.0	9.2	308	23	------	46	61	30	21	6.7	4.9	224
31	8.4	------	346	23	------	37	------	30	------	6.1	4.6	------
TOTAL	314.0	207.1	4,555.1	2,250	1,219	3,282	7,354	1,281	2,582	363.4	188.0	1,305.1
MEAN	10.1	6.90	147	72.6	42.0	106	245	41.3	86.1	11.7	6.06	43.5
MAX	32	9.6	916	186	107	922	825	97	618	28	13	224
MIN	4.0	4.0	5.9	23	15	25	27	16	12	6.1	4.6	4.4
CFSM	.13	.09	1.87	.92	.53	1.35	3.11	.52	1.09	.15	.08	.55
IN.	.15	.10	2.15	1.06	.58	1.55	3.47	.60	1.22	.17	.09	.62

CAL YR 1971 TOTAL 23,754.2 MEAN 65.1 MAX 1,420 MIN 2.4 CFSM .83 IN 11.21
WTR YR 1972 TOTAL 24,900.7 MEAN 68.0 MAX 922 MIN 4.0 CFSM .86 IN 11.76

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	1730	7.78	1,170	06-15	2245	7.64	1,130
04-16	1745	8.04	1,250				

03362000 Youngs Creek near Edinburg, Ind.

LOCATION.—Lat 39°25'08", long 86°00'18", in SE 1/4 SW 1/4 sec.5, T.11 N., R.5 E., Johnson County, on left bank on upstream side of highway bridge, 0.5 mile southwest of Amity, 2 miles upstream from mouth, and 5 miles northwest of Edinburg.

DRAINAGE AREA.—107 sq mi.

PERIOD OF RECORD.—October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 670.20 ft above mean sea level. Prior to June 30, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—30 years, 104 cfs (13.20 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,180 cfs Apr. 22 (gage height, 8.44 ft); minimum daily, 2.7 cfs Oct. 3, Sept. 11. Period of record: Maximum discharge, 10,700 cfs Jan. 27, 1952 (gage height, 13.4 ft); minimum daily, 0.5 cfs Sept. 29, Oct. 20, 21, 1953.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1944. WSP 1909: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.1	4.9	129	25	93	42	86	42	27	6.8	3.5
2	3.3	3.5	4.9	97	26	900	41	81	37	21	6.5	3.5
3	2.7	3.5	4.7	74	25	474	39	73	33	26	6.5	3.9
4	2.9	3.3	4.5	73	23	293	46	67	31	22	6.3	3.5
5	3.5	3.3	4.1	76	22	198	43	61	30	19	6.1	3.7
6	4.5	3.5	5.3	68	22	132	42	58	39	18	6.1	3.7
7	4.1	3.3	14	62	23	117	217	56	51	16	7.1	3.5
8	3.5	3.3	16	52	21	95	502	70	39	15	6.8	3.7
9	4.1	3.7	13	62	21	78	235	86	37	14	6.8	3.7
10	4.5	4.1	9.2	102	20	73	148	68	37	13	5.7	3.5
11	3.5	3.9	8.9	86	21	68	102	59	33	13	5.5	2.7
12	3.7	3.9	9.5	73	22	68	198	56	30	12	5.5	3.5
13	3.9	3.9	8.6	70	29	65	318	102	29	13	5.5	3.7
14	4.1	3.9	36	53	36	62	221	145	85	19	4.7	5.3
15	3.9	3.7	274	42	59	56	117	155	166	16	5.5	5.1
16	3.5	3.9	208	37	51	59	1,150	182	362	17	6.8	3.9
17	3.7	3.7	83	40	43	58	813	108	125	19	7.4	3.3
18	3.5	3.9	59	47	46	52	369	85	70	15	5.7	2.9
19	3.7	4.1	48	48	43	47	233	71	52	12	5.3	3.7
20	3.5	4.9	46	46	42	46	373	64	52	11	4.7	3.7
21	3.5	4.1	41	44	36	47	605	59	73	9.5	4.3	3.7
22	14	3.7	35	46	33	53	1,930	55	44	8.6	4.3	3.7
23	11	4.3	31	47	30	50	745	51	35	8.0	4.1	3.9
24	8.6	4.3	30	46	36	44	435	47	29	8.3	4.1	5.1
25	6.3	4.3	29	44	35	43	288	44	27	14	4.1	13
26	5.3	4.1	27	33	47	42	210	42	26	19	4.1	21
27	4.5	4.5	27	32	62	42	152	39	23	13	3.9	28
28	4.1	4.9	27	30	64	43	119	37	22	10	3.5	27
29	3.9	4.9	26	28	67	46	102	36	29	8.6	4.3	27
30	3.7	5.7	212	27	------	48	93	44	33	7.4	3.7	32
31	3.5	------	304	27	------	43	------	48	------	7.1	3.5	------
TOTAL	142.0	119.2	1,650.6	1,741	1,030	3,535	9,928	2,235	1,721	451.5	165.2	238.4
MEAN	4.58	3.97	53.2	56.2	35.5	114	331	72.1	57.4	14.6	5.33	7.95
MAX	14	5.7	304	129	67	900	1,930	182	362	27	7.4	32
MIN	2.7	3.1	4.1	27	20	42	39	36	22	7.1	3.5	2.7
CFSM	.04	.04	.50	.53	.33	1.07	3.09	.67	.54	.14	.05	.07
IN.	.05	.04	.57	.61	.36	1.23	3.45	.78	.60	.16	.06	.08

CAL YR 1971 TOTAL 24,645.1 MEAN 67.5 MAX 2,020 MIN 2.5 CFSM .63 IN 8.57
WTR YR 1972 TOTAL 22,956.9 MEAN 62.7 MAX 1,930 MIN 2.7 CFSM .59 IN 7.98

PEAK DISCHARGE (BASE, 1,300 CFS).—Apr. 16 (2015) 1,600 cfs (7.42 ft). Apr. 22 (0630) 2,180 cfs (8.44 ft).

03362500 Sugar Creek near Edinburg, Ind.

LOCATION.—Lat 39°21'39", long 85°59'51", in SW 1/4 SE 1/4 sec.29, T.11 N., R.5 E., Johnson County, on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1.2 miles upstream from confluence with Blue River, and 1.5 miles northwest of Edinburg.

DRAINAGE AREA.—474 sq mi.

PERIOD OF RECORD.—October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 646.23 ft above mean sea level. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft downstream at same datum.

AVERAGE DISCHARGE.—30 years, 470 cfs (13.47 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,810 cfs Apr. 22 (gage height, 10.64 ft); minimum daily, 54 cfs Oct. 21.
Period of record: Maximum discharge, 27,600 cfs May 29, 1956 (gage height, 18.38 ft); minimum daily, 9.2 cfs Sept. 19, 1954.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	73	73	1,210	190	473	229	441	219	146	100	60
2	61	70	76	848	190	2,490	222	414	196	175	96	60
3	57	68	76	680	190	3,100	212	378	183	200	94	72
4	61	65	73	568	180	1,980	219	342	174	174	94	106
5	58	63	73	628	170	1,230	239	312	163	162	92	111
6	60	63	78	562	175	830	249	294	171	153	94	91
7	59	65	116	486	175	650	459	284	324	148	94	79
8	56	64	500	405	165	546	2,720	324	253	140	100	73
9	62	65	510	383	160	459	2,400	405	219	133	96	71
10	65	65	382	606	150	401	1,710	396	206	130	90	71
11	63	65	334	674	150	360	1,160	342	190	125	84	70
12	59	66	318	551	155	347	998	305	171	126	84	66
13	61	68	264	491	175	333	1,200	396	166	133	86	65
14	63	66	290	419	199	315	1,150	722	405	134	89	67
15	61	66	1,700	290	291	298	812	764	680	131	88	72
16	61	63	2,540	250	356	291	2,180	788	1,990	139	84	72
17	58	65	2,050	290	305	291	3,590	656	1,340	156	84	68
18	58	63	1,220	320	294	273	2,030	513	758	141	79	62
19	56	66	728	312	308	253	1,260	423	509	123	76	59
20	55	66	557	312	249	236	1,340	356	419	111	73	59
21	54	65	477	324	236	232	1,760	315	486	100	70	58
22	77	63	419	329	229	249	4,350	294	360	96	69	58
23	98	63	369	347	215	263	3,680	270	305	96	70	58
24	125	65	342	338	219	256	2,080	249	256	96	70	79
25	121	65	315	315	222	239	1,310	232	222	98	69	158
26	116	65	298	277	260	226	932	215	199	114	70	194
27	109	67	287	230	419	222	722	202	183	96	68	327
28	95	67	273	215	392	222	584	190	166	133	66	310
29	87	71	253	200	405	222	513	183	206	123	64	252
30	79	73	477	190	------	236	477	206	219	109	64	403
31	75	------	1,700	190	------	239	------	236	------	102	61	------
TOTAL	2,235	1,979	17,168	13,240	6,824	17,762	40,787	11,447	11,338	4,093	2,518	3,351
MEAN	72.1	66.0	554	427	235	573	1,360	369	378	132	81.2	112
MAX	125	73	2,540	1,210	419	3,100	4,350	788	1,990	200	100	403
MIN	54	63	73	190	150	222	212	183	163	96	61	58
CFSM	.15	.14	1.17	.90	.50	1.21	2.87	.78	.80	.28	.17	.24
IN.	.18	.16	1.35	1.04	.54	1.39	3.20	.90	.89	.32	.20	.26

CAL YR 1971 TOTAL 136,325 MEAN 373 MAX 6,110 MIN 50 CFSM .79 IN 10.70
WTR YR 1972 TOTAL 132,742 MEAN 363 MAX 4,350 MIN 54 CFSM .77 IN 10.42

PEAK DISCHARGE (BASE, 4,200 CFS).—Apr. 22 (2200) 4,810 cfs (10.64 ft).

03362500 Sugar Creek near Edinburg, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 29...	1515	18.0	87	33	7.8	--	--
NOV. 20...	1225	10.0	64	15	2.6	--	--
DEC. 15...	1600	--	2040	419	2310	57	69
FEB. 02...	1405	.0	187	74	37	--	--
MAR. 08...	1415	5.0	545	19	28	--	--
APR. 18...	1345	13.0	1920	100	518	--	--
MAY 17...	1430	18.0	650	56	98	--	--
JULY 26...	1810	24.0	112	86	26	--	--
AUG. 30...	1450	25.0	64	29	5.0	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT. 29...	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--
DEC. 15...	81	90	95	97	99	100
FEB. 02...	--	--	--	--	--	--
MAR. 08...	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--
MAY 17...	--	--	--	--	--	--
JULY 26...	--	--	--	--	--	--
AUG. 30...	--	--	--	--	--	--

03363000 Driftwood River near Edinburg, Ind.

LOCATION.—Lat 39°20'21", long 85°59'11", in NW 1/4 SW 1/4 sec.4, T.10 N., R.5 E., Bartholomew County, on left bank just downstream from highway bridge, 0.8 mile downstream from confluence of Blue River and Sugar Creek, and 1.5 miles southwest of Edinburg.

DRAINAGE AREA.—1,060 sq mi.

PERIOD OF RECORD.—October 1940 to current year. Prior to July 1941 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 636.99 ft above mean sea level. Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—32 years, 1,100 cfs (14.09 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,040 cfs Apr. 23 (gage height, 11.65 ft); minimum daily, 148 cfs Sept. 23.
Period of record: Maximum discharge, 40,500 cfs Mar. 6, 1963 (gage height, 16.97 ft); minimum daily, 38 cfs Sept. 23, 1941.
Flood in March 1913 reached a stage of 20.3 ft.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	256	213	2,870	550	945	580	1,160	955	604	269	165
2	197	242	222	1,980	564	3,270	564	1,090	855	560	258	163
3	185	232	222	1,690	552	5,870	552	1,000	755	536	252	191
4	179	222	216	1,450	492	5,190	556	920	624	516	252	202
5	173	213	213	1,460	428	2,950	588	850	560	492	252	214
6	170	209	219	1,440	504	2,050	604	790	544	468	252	191
7	167	206	270	1,200	464	1,600	940	750	696	444	255	178
8	165	203	1,210	1,040	420	1,390	4,410	770	705	424	252	175
9	170	200	1,450	955	400	1,200	5,370	1,030	588	388	252	173
10	173	200	1,080	1,230	390	1,060	3,880	1,220	568	372	245	170
11	173	200	879	1,530	390	955	2,680	1,050	548	364	242	168
12	173	197	791	1,350	410	905	2,220	905	508	352	235	163
13	173	197	675	1,180	440	870	2,330	885	476	352	229	160
14	182	197	715	1,050	484	845	2,420	1,510	692	352	229	163
15	179	194	2,900	780	640	810	1,980	2,180	1,180	344	226	170
16	185	191	4,980	600	935	785	3,510	2,260	2,590	344	223	173
17	179	188	4,870	760	860	780	5,860	1,990	2,730	420	220	168
18	179	188	2,890	785	760	745	4,460	1,570	1,770	400	214	160
19	179	185	1,830	795	785	700	2,710	1,260	1,250	356	211	158
20	173	185	1,440	780	688	660	2,470	1,080	1,040	332	197	153
21	170	185	1,220	775	612	640	3,190	960	995	316	191	150
22	200	185	1,090	780	600	660	6,520	885	980	300	189	150
23	235	182	970	835	576	688	7,460	815	845	293	186	148
24	365	185	900	865	560	668	5,180	775	715	293	189	170
25	390	185	840	830	564	632	3,090	720	644	320	191	324
26	445	182	780	745	580	604	2,250	680	596	348	186	376
27	417	188	745	630	810	592	1,800	648	552	332	180	516
28	365	188	710	550	870	588	1,520	616	512	356	178	580
29	325	203	664	520	855	584	1,330	588	504	360	173	484
30	295	206	860	500	------	600	1,220	580	592	320	170	644
31	277	------	2,990	500	------	608	------	790	------	286	165	------
TOTAL	7,048	5,994	39,054	32,455	17,183	40,444	82,444	32,327	26,569	11,944	6,763	7,000
MEAN	227	200	1,260	1,047	593	1,305	2,748	1,043	886	385	218	233
MAX	445	256	4,980	2,870	935	5,870	7,460	2,260	2,730	604	269	644
MIN	165	182	213	500	390	584	552	580	476	286	165	148
CFSM	.21	.19	1.19	.99	.56	1.23	2.59	.98	.84	.36	.21	.22
IN.	.25	.21	1.37	1.14	.60	1.42	2.89	1.13	.93	.42	.24	.25

CAL YR 1971 TOTAL 341,938 MEAN 937 MAX 11,300 MIN 125 CFSM .88 IN 12.00
WTR YR 1972 TOTAL 309,225 MEAN 845 MAX 7,460 MIN 148 CFSM .80 IN 10.85

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-03	2100	10.37	6,360	04-23	0300	11.65	8,040
04-17	1800	10.25	6,220				

03363500 Flatrock River at St. Paul, Ind.

LOCATION.—Lat 39°25'03", long 85°38'03", in SE 1/4 NE 1/4 sec.9, T.11 N., R.8 E., Shelby County, on right bank 500 ft downstream from highway bridge, 0.8 mile southwest of St. Paul, and 1.5 miles downstream from Mill Creek.

DRAINAGE AREA.—303 sq mi.

PERIOD OF RECORD.—October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul.

GAGE.—Water-stage recorder. Datum of gage is 764.84 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft upstream at same datum.

AVERAGE DISCHARGE.—42 years, 308 cfs (13.80 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,560 cfs Apr. 16 (gage height, 4.10 ft); minimum daily, 8.9 cfs Sept. 23.
Period of record: Maximum discharge, 18,500 cfs Jan. 5, 1949; maximum recorded gage height, 12.37 ft May 24, 1968; minimum daily discharge, 0.6 cfs Aug. 7, 1931.
Flood in March 1913 reached a stage of approximately 20.5 ft, from information by local residents.

REMARKS.—Records good. Slight diversion occasionally by quarry above gage.

REVISIONS (WATER YEARS).—WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	49	52	821	130	364	157	351	598	152	34	10
2	27	46	51	594	135	1,250	153	320	376	125	33	10
3	25	44	48	532	125	1,420	146	290	280	121	32	17
4	23	41	46	490	110	1,240	140	260	228	111	34	20
5	22	40	45	500	115	767	153	232	194	103	32	18
6	20	40	63	499	105	540	150	209	210	96	33	15
7	19	41	227	392	97	447	751	200	217	90	32	13
8	19	39	395	321	94	430	1,550	227	174	86	30	12
9	25	37	330	360	91	373	1,440	315	161	81	29	12
10	25	38	255	520	90	325	1,030	330	171	77	27	12
11	24	39	232	270	90	295	772	280	146	74	25	11
12	23	39	205	215	94	280	646	241	128	79	27	10
13	26	39	176	160	110	290	581	310	123	80	26	9.5
14	55	38	508	190	176	356	814	835	185	65	24	13
15	43	36	1,210	200	464	325	730	1,260	323	60	22	13
16	39	34	1,280	205	473	389	2,110	1,130	626	66	20	13
17	36	32	1,010	205	329	418	1,850	769	724	82	20	12
18	31	29	597	246	301	389	1,400	551	449	73	18	11
19	29	32	430	243	267	325	902	424	309	61	19	11
20	26	31	367	220	185	290	828	351	242	52	19	10
21	25	30	340	208	180	270	1,080	308	412	47	17	9.6
22	52	30	300	213	180	275	1,550	279	275	43	16	9.2
23	70	30	265	253	180	255	1,720	250	200	40	16	8.9
24	86	31	250	276	183	223	1,250	231	168	42	14	12
25	127	31	223	266	176	209	828	214	150	54	14	21
26	124	30	214	219	230	196	639	193	131	47	14	40
27	95	34	205	191	240	192	514	171	121	48	14	51
28	77	37	192	160	239	188	442	152	115	88	13	43
29	66	44	176	135	260	184	400	143	124	56	12	56
30	59	49	475	125	------	176	378	184	186	44	12	63
31	53	------	894	125	------	160	------	535	------	38	11	------
TOTAL	1,401	1,110	11,061	9,354	5,449	12,841	25,224	11,545	7,746	2,281	689	566.2
MEAN	45.2	37.0	357	302	188	414	841	372	258	73.6	22.2	18.9
MAX	127	49	1,280	821	473	1,420	2,110	1,260	724	152	34	63
MIN	19	29	45	125	90	160	146	143	115	38	11	8.9
CFSM	.15	.12	1.18	1.00	.62	1.37	2.78	1.23	.85	.24	.07	.06
IN.	.17	.14	1.36	1.15	.67	1.58	3.10	1.42	.95	.28	.08	.07

CAL YR 1971 TOTAL 91,480.0 MEAN 251 MAX 3,770 MIN 13 CFSM .83 IN 11.23
WTR YR 1972 TOTAL 89,247.2 MEAN 244 MAX 2,110 MIN 8.9 CFSM .81 IN 10.96

PEAK DISCHARGE (BASE, 2,500 CFS).—Apr. 16 (1200) 2,560 cfs (4.10 ft).

03363500 Flatrock River at St. Paul, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
NOV.												
04...	1600	12.0	40	66	7.1	--	--	--	--	--	--	--
30...	1625	4.0	50	9	1.2	--	--	--	--	--	--	--
DEC.												
15...	1045	--	1190	379	1220	48	62	75	87	93	98	100
JAN.												
03...	1710	4.0	521	160	225	--	--	--	--	--	--	--
FEB.												
07...	1830	.0	97	36	9.4	--	--	--	--	--	--	--
MAR.												
07...	1420	4.0	431	115	134	--	--	--	--	--	--	--
APR.												
20...	1520	14.0	836	72	163	--	--	--	--	--	--	--
MAY												
16...	1335	15.0	1130	198	604	--	--	--	--	--	--	--
JULY												
27...	1750	25.0	52	111	16	--	--	--	--	--	--	--
SEP.												
08...	1320	23.0	13	8	.28	--	--	--	--	--	--	--

03363900 Flatrock River at Columbus, Ind.

LOCATION.—Lat 39°14'06", long 85°55'36", in NE 1/4 SW 1/4 sec.12, T.9 N., R.5 E., Bartholomew County, on left bank at downstream side of U.S. Highway 31 (bypass) bridge, 0.2 mile northwest of Columbus city limits, and 2.6 miles upstream from mouth.

DRAINAGE AREA.—534 sq mi.

PERIOD OF RECORD.—October 1967 to current year.

GAGE.—Water-stage recorder. Datum of gage is 610.14 ft above mean sea level.

AVERAGE DISCHARGE.—5 years, 546 cfs (13.89 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,530 cfs Apr. 17 (gage height, 9.44 ft); minimum daily, 32 cfs Sept. 23.
Period of record: Maximum discharge, 20,000 cfs May 25, 1968 (gage height, 15.87 ft, from inside high-water mark); minimum daily, 22 cfs Oct. 5, 1967.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	109	90	1,220	280	472	346	805	934	301	117	40
2	71	103	96	934	301	1,270	336	771	689	266	111	38
3	65	98	96	810	290	2,640	329	733	533	255	107	41
4	62	93	94	742	260	2,090	329	694	448	246	103	52
5	57	89	91	776	225	1,470	336	655	392	228	99	52
6	54	87	95	757	230	1,030	329	621	368	214	105	48
7	51	86	119	669	210	820	432	592	436	200	107	46
8	49	84	392	572	190	757	2,090	587	372	189	101	47
9	52	81	472	529	180	703	2,040	626	339	179	95	42
10	51	80	374	733	180	640	1,560	713	339	174	89	40
11	54	79	326	796	185	577	1,170	679	315	166	85	39
12	53	79	299	708	200	553	976	621	287	159	81	38
13	53	79	273	635	220	538	1,080	606	273	157	80	37
14	57	78	270	500	259	563	1,150	874	308	159	78	38
15	78	76	1,070	380	472	577	1,080	1,790	485	147	74	38
16	80	75	2,150	300	713	582	2,270	1,690	1,260	140	71	40
17	74	73	1,750	340	592	655	3,900	1,460	1,170	140	64	38
18	72	71	1,180	380	499	650	2,430	1,120	771	149	57	38
19	69	71	791	380	485	587	1,570	904	572	140	57	37
20	63	71	665	396	400	524	1,280	767	468	129	57	36
21	61	71	597	376	364	495	1,380	679	519	121	55	35
22	66	70	543	364	360	495	2,600	616	476	113	55	34
23	80	69	480	412	343	490	2,730	553	384	107	52	32
24	142	70	452	452	336	456	2,400	495	332	103	51	36
25	158	70	424	452	336	424	1,620	456	301	103	50	40
26	225	70	396	408	368	408	1,290	416	276	107	48	45
27	203	72	380	360	440	392	1,110	384	252	105	47	52
28	170	73	360	310	440	384	970	343	234	125	46	78
29	148	78	346	285	440	380	886	318	228	181	44	78
30	133	84	404	270	------	380	838	329	240	149	42	85
31	119	------	1,110	270	------	360	------	650	------	127	41	------
TOTAL	2,749	2,389	16,185	16,516	9,798	22,362	40,857	22,547	14,001	5,079	2,269	1,340
MEAN	88.7	79.6	522	533	338	721	1,362	727	467	164	73.2	44.7
MAX	225	109	2,150	1,220	713	2,640	3,900	1,790	1,260	301	117	85
MIN	49	69	90	270	180	360	329	318	228	103	41	32
CFSM	.17	.15	.98	1.00	.63	1.35	2.55	1.36	.87	.31	.14	.08
IN.	.19	.17	1.13	1.15	.68	1.56	2.85	1.57	.98	.35	.16	.09

CAL YR 1971 TOTAL 150,178 MEAN 411 MAX 7,360 MIN 39 CFSM .77 IN 10.46
WTR YR 1972 TOTAL 156,092 MEAN 426 MAX 3,900 MIN 32 CFSM .80 IN 10.87

PEAK DISCHARGE (BASE, 3,500 CFS).—Apr. 17 (0500) 4,530 cfs (9.44 ft).

03364000 East Fork White River at Columbus, Ind.

LOCATION.—Lat 39°12'00", long 85°55'32", in NE 1/4 NW 1/4 sec.25, T.9 N., R.5 E., Bartholomew County, on left bank at abutment of abandoned bridge at west end of Second Street in Columbus, 0.6 mile downstream from confluence of Driftwood River and Flatrock River, and 1.3 miles upstream from Haw Creek.

DRAINAGE AREA.—1,707 sq mi.

PERIOD OF RECORD.—October 1947 to current year. Prior to January 1948 monthly discharge only, published in WSP 1305.

GAGE.—Water-stage recorder above concrete control. Datum of gage is 603.12 ft above mean sea level. Prior to Oct. 22, 1952, non-recording gage 600 ft upstream at same datum.

AVERAGE DISCHARGE.—25 years, 1,766 cfs (14.05 inches per year).

EXTREMES.—Current year: Maximum discharge, 10,400 cfs Apr. 16 (gage height, 5.47 ft); minimum daily, 194 cfs Sept. 23.
Period of record: Maximum discharge, 52,300 cfs Mar. 6, 1963 (gage height, 16.23 ft); minimum daily, 87 cfs Sept. 29, 1954.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1948-49. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	402	346	3,410	1,030	1,600	1,050	2,180	2,270	1,080	391	230
2	338	380	363	2,840	1,000	3,290	1,030	2,030	1,830	940	380	224
3	312	363	363	2,480	980	7,790	1,000	1,900	1,530	980	380	263
4	295	355	355	2,270	880	7,730	1,030	1,780	1,330	880	380	276
5	276	338	346	2,240	715	4,500	1,050	1,650	1,150	800	372	321
6	263	338	363	2,240	880	2,750	1,050	1,550	1,080	749	391	295
7	256	329	479	2,000	800	2,360	2,360	1,480	1,380	698	380	269
8	250	321	1,200	1,800	715	2,120	5,870	1,480	1,300	664	372	269
9	263	321	1,980	1,700	783	1,950	7,130	1,950	1,130	630	372	250
10	263	321	1,680	1,950	698	1,800	5,540	2,180	1,080	630	355	237
11	269	320	1,430	2,240	749	1,680	4,670	1,980	980	588	355	243
12	263	312	1,300	2,090	732	1,600	4,350	1,730	900	546	346	230
13	269	312	1,150	1,900	783	1,580	4,390	1,850	860	546	338	224
14	282	295	1,330	1,780	880	1,550	4,490	2,840	1,080	574	338	230
15	295	289	2,840	1,380	1,250	1,530	4,260	4,010	2,060	546	329	230
16	321	289	6,320	1,000	1,680	1,580	7,750	3,860	3,710	546	321	237
17	295	282	6,410	1,250	1,580	1,600	9,940	3,500	3,920	630	304	237
18	289	282	4,500	1,480	1,430	1,550	8,140	2,930	2,960	616	295	224
19	289	282	2,600	1,430	1,400	1,450	6,140	2,450	2,270	560	282	218
20	276	282	2,090	1,380	1,250	1,350	5,610	2,120	1,880	518	282	206
21	269	289	1,850	1,330	1,130	1,300	6,020	1,880	1,850	479	276	206
22	312	289	1,700	1,350	1,130	1,330	8,290	1,730	1,800	457	276	200
23	363	289	1,530	1,430	1,080	1,330	9,920	1,600	1,530	435	269	194
24	518	295	1,430	1,480	1,050	1,280	8,550	1,480	1,330	435	269	224
25	602	295	1,350	1,450	1,080	1,200	5,500	1,380	1,200	468	269	363
26	715	295	1,230	1,350	1,180	1,150	3,680	1,280	1,100	504	263	479
27	681	312	1,180	1,200	1,400	1,130	3,110	1,180	1,000	479	250	574
28	574	304	1,130	1,150	1,450	1,100	2,750	1,080	960	504	256	800
29	518	329	1,050	1,000	1,430	1,100	2,450	1,030	940	546	243	732
30	457	338	1,430	1,000	------	1,130	2,270	1,100	1,050	468	243	783
31	424	------	2,750	940	------	1,100	------	1,680	------	413	230	------
TOTAL	11,160	9,448	54,075	52,540	31,145	64,510	139,390	60,870	47,460	18,909	9,807	9,468
MEAN	360	315	1,744	1,695	1,074	2,081	4,646	1,964	1,582	610	316	316
MAX	715	402	6,410	3,410	1,680	7,790	9,940	4,010	3,920	1,080	391	800
MIN	250	282	346	940	698	1,100	1,000	1,030	860	413	230	194
CFSM	.21	.18	1.02	.99	.63	1.22	2.72	1.15	.93	.36	.19	.19
IN.	.24	.21	1.18	1.14	.68	1.41	3.04	1.33	1.03	.41	.21	.21

CAL YR 1971 TOTAL 503,537 MEAN 1,380 MAX 17,800 MIN 194 CFSM .81 IN 10.97
WTR YR 1972 TOTAL 506,782 MEAN 1,390 MAX 9,940 MIN 194 CFSM .81 IN 11.09

PEAK DISCHARGE (BASE 10,000 CFS).—Apr. 16 (2300) 10,400 cfs (5.47 ft). Apr. 23 (1300) 10,000 cfs (5.18 ft).

03364200 Haw Creek near Clifford, Ind.

LOCATION.—Lat 39°16'04", long 85°51'22", in NW 1/4 SW 1/4 sec.34, T.10 N., R.6 E., Bartholomew County, on left bank 20 ft downstream from bridge on County Road 450 North, 1.2 miles southeast of Clifford, 5.8 miles northeast of Columbus, and 7.4 miles upstream from mouth.

DRAINAGE AREA.—47.5 sq mi.

PERIOD OF RECORD.—August 1967 to current year.

GAGE.—Water-stage recorder. Datum of gage is 643.00 ft above mean sea level.

AVERAGE DISCHARGE.—5 years, 43.3 cfs (12.38 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,150 cfs Apr. 16 (gage height, 12.87 ft); minimum daily, 0.70 cfs Sept. 22.
Period of record: Maximum discharge, 2,560 cfs May 24, 1968 (gage height, 13.9 ft, from floodmark); no flow at times during September and October 1967 due to diversion of streamflow to ground water resulting from irrigation pumpage.

REMARKS.—Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.3	5.3	87	11	101	16	46	44	6.2	2.4	1.2
2	2.2	3.2	5.2	71	16	502	16	43	29	5.2	2.6	1.2
3	2.2	3.0	4.7	56	16	201	15	37	21	24	3.0	2.5
4	2.2	2.8	4.3	55	12	143	16	34	21	11	3.0	2.0
5	2.1	2.7	4.0	60	8.0	100	16	30	15	7.4	2.8	1.7
6	2.2	2.6	6.3	45	7.0	68	16	27	13	6.6	3.4	1.5
7	2.0	2.8	31	35	8.0	60	349	24	14	5.4	3.8	1.3
8	1.9	2.7	56	26	6.0	56	295	33	11	5.2	3.4	1.2
9	2.6	2.7	38	48	4.5	43	126	40	13	5.2	3.2	1.1
10	2.6	3.0	32	74	4.0	37	90	29	13	5.4	2.6	1.0
11	2.7	2.9	31	56	3.8	31	73	22	8.4	6.6	2.2	1.0
12	2.6	2.7	28	45	4.5	25	107	19	7.4	5.5	2.2	.90
13	2.8	2.4	25	41	15	33	300	50	7.9	5.0	2.4	1.2
14	4.0	2.4	123	33	61	46	154	213	15	4.3	1.7	1.4
15	4.2	2.3	269	20	115	36	283	264	116	4.6	1.5	1.4
16	3.6	2.2	186	13	70	69	1,410	123	195	5.4	1.5	1.3
17	2.8	2.4	121	15	52	81	317	85	99	4.7	1.5	1.2
18	2.6	2.3	87	17	55	54	165	63	62	4.3	1.4	1.1
19	2.5	2.6	72	21	47	40	122	52	45	3.8	1.5	1.0
20	2.5	3.0	66	20	35	36	161	42	36	3.3	1.2	.90
21	2.2	3.0	62	19	32	33	302	37	29	2.8	1.2	.80
22	3.9	2.6	54	25	31	31	328	29	25	2.5	1.5	.70
23	12	2.6	50	36	29	25	151	28	18	2.2	1.5	1.5
24	12	2.7	45	35	34	23	115	24	15	2.2	1.3	2.2
25	8.7	3.0	40	30	34	21	89	20	14	2.7	1.5	3.5
26	7.4	3.2	42	20	72	20	76	17	12	2.6	1.7	5.7
27	6.5	3.8	40	15	74	20	65	12	8.4	2.6	1.3	4.5
28	4.9	3.9	39	13	67	20	57	11	8.9	2.6	1.7	5.6
29	4.2	4.5	35	11	66	19	52	13	10	2.4	1.5	7.8
30	4.1	5.7	176	10	------	18	51	33	10	2.1	1.7	11
31	3.7	------	138	10	------	17	------	67	------	2.1	1.6	------
TOTAL	122.6	89.0	1,915.8	1,062	989.8	2,009	5,333	1,567	936.0	156.4	63.8	69.60
MEAN	3.95	2.97	61.8	34.3	34.1	64.8	178	50.5	31.2	5.05	2.06	2.32
MAX	12	5.7	269	87	115	502	1,410	264	195	24	3.8	11
MIN	1.9	2.2	4.0	10	3.8	17	15	11	7.4	2.1	1.2	.70
CFSM	.08	.06	1.30	.72	.72	1.36	3.75	1.06	.66	.11	.04	.05
IN.	.10	.07	1.50	.83	.78	1.57	4.18	1.23	.73	.12	.05	.05

CAL YR 1971 TOTAL 10,435.61 MEAN 28.6 MAX 269 MIN 1.9 CFSM .60 IN 8.17
WTR YR 1972 TOTAL 14,314.00 MEAN 39.1 MAX 1,410 MIN .70 CFSM .82 IN 11.21

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	1300	7.67	734	04-21	2200	7.54	683
04-07	2100	10.28	1,350	05-14	2200	7.88	789
04-16	1300	12.87	2,150				

03364500 Clifty Creek at Hartsville, Ind.

LOCATION.—Lat 39°16'25", long 85°42'10", in NW 1/4 NW 1/4 sec.36, T.10 N., R.7 E., Bartholomew County, at downstream side of left abutment of highway bridge, 0.2 mile north of Hartsville, and 5 miles upstream from Duck Creek.

DRAINAGE AREA.—91.4 sq mi.

PERIOD OF RECORD.—February 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 677.34 ft above mean sea level. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 94.4 cfs (14.03 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,040 cfs Apr. 16 (gage height, 8.03 ft); no flow Aug. 19 to Sept. 29.
Period of record: Maximum discharge, 11,300 cfs Jan. 21, 1959 (gage height, 14.29 ft); no flow at times most years.
Flood in 1913 reached a stage of 25.1 ft, from floodmarks.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	19	35	222	30	176	42	100	112	20	2.0	0
2	8.2	18	27	190	35	742	39	87	74	16	1.4	0
3	7.4	17	22	166	37	428	37	72	55	18	1.4	0
4	9.8	16	20	166	27	222	43	62	45	17	1.6	0
5	9.0	14	20	204	24	190	39	55	37	15	1.4	0
6	9.8	14	27	152	21	100	37	48	43	13	1.6	0
7	9.8	14	204	118	19	105	383	46	68	12	2.0	0
8	9.0	13	246	95	18	147	538	58	42	11	2.0	0
9	15	12	150	139	17	123	274	76	37	9.2	1.6	0
10	20	12	120	215	16	98	197	60	37	9.2	.90	0
11	24	12	115	162	19	82	147	48	29	8.5	.70	0
12	20	12	98	128	27	78	166	43	24	7.8	.70	0
13	18	12	78	112	36	87	432	82	23	8.5	.50	0
14	31	11	358	60	66	147	320	155	70	11	.40	0
15	33	11	678	45	253	133	463	136	150	11	.30	0
16	27	11	414	41	232	128	2,170	281	369	9.9	.30	0
17	21	9.9	243	45	120	110	694	159	147	11	.17	0
18	23	9.2	155	52	105	133	222	110	87	9.9	.11	0
19	22	9.9	120	72	72	102	95	84	62	7.8	0	0
20	19	9.9	110	55	37	87	180	68	50	6.0	0	0
21	18	14	107	52	48	80	421	60	150	4.8	0	0
22	25	13	91	55	48	89	582	53	72	3.8	0	0
23	71	9.9	84	64	40	84	337	45	43	2.8	0	0
24	59	9.2	80	62	46	70	239	40	35	3.3	0	0
25	105	8.5	68	58	43	62	166	36	30	4.8	0	0
26	74	7.8	68	43	110	58	128	32	27	3.3	0	0
27	52	9.9	64	38	98	55	105	28	23	2.8	0	0
28	39	14	60	34	91	53	89	25	21	2.4	0	0
29	29	24	53	31	107	52	80	24	21	3.3	0	0
30	24	29	421	29	------	50	82	112	21	2.4	0	3.3
31	21	------	393	28	------	42	------	232	------	2.0	0	------
TOTAL	864.0	396.2	4,729	2,933	1,842	4,113	8,747	2,517	2,004	267.5	19.08	3.3
MEAN	27.9	13.2	153	94.6	63.5	133	292	81.2	66.8	8.63	.62	.11
MAX	105	29	678	222	253	742	2,170	281	369	20	2.0	3.3
MIN	7.4	7.8	20	28	16	42	37	24	21	2.0	0	0
CFSM	.31	.14	1.67	1.04	.69	1.46	3.19	.89	.73	.09	.007	.001
IN.	.35	.16	1.92	1.19	.75	1.67	3.56	1.02	.82	.11	.007	.001

CAL YR 1971 TOTAL 23,465.08 MEAN 64.3 MAX 1,970 MIN .16 CFSM .70 IN 9.55
WTR YR 1972 TOTAL 28,435.08 MEAN 77.7 MAX 2,170 MIN 0 CFSM .85 IN 11.57

PEAK DISCHARGE (BASE, 1,300 CFS).—Apr. 16 (1200) 3,040 cfs (8.03 ft).

03364500 Clifty Creek at Hartsville, Ind.--Continued

PERIOD OF RECORD.—Chemical analyses: December 1970 to September 1972.
Water temperatures: December 1970 to September 1972.

EXTREMES.—1971-72:
Specific conductance: Maximum, 713 micromhos Jan. 17; minimum, 249 micromhos Sept. 8.
Water temperatures: Maximum, 28.0°C Aug. 16, 17; minimum, freezing point on many days December to February.

Period of record:
Specific conductance: Maximum, 713 micromhos Jan. 17, 1972; minimum, 249 micromhos Sept. 8, 1972.
Water temperatures: Maximum, 30.0°C June 6, 1971; minimum, freezing point on many days during most winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	521	454	658	584	624	613	---	---	587	570	557	504
2	480	456	643	574	635	616	---	---	566	549	504	411
3	515	463	637	569	641	633	---	---	545	534	473	410
4	521	471	617	579	649	638	---	---	538	529	517	475
5	488	473	605	552	650	641	---	---	545	536	532	517
6	519	480	614	566	650	613	---	---	545	534	547	527
7	517	492	579	564	621	592	---	---	547	538	592	547
8	512	500	574	561	626	599	---	---	557	545	589	579
9	517	496	571	566	645	627	---	---	561	554	592	579
10	504	498	571	564	667	592	664	545	566	559	597	584
11	512	500	569	545	673	662	665	653	569	552	597	581
12	517	459	579	540	679	636	668	661	561	538	592	574
13	564	484	589	538	682	665	669	661	540	512	587	552
14	515	508	587	532	674	400	662	652	510	417	569	554
15	---	---	576	538	504	397	684	653	434	408	579	564
16	---	---	584	540	559	508	711	674	423	401	579	564
17	---	---	581	536	615	566	713	698	475	426	579	564
18	---	---	561	554	636	618	694	653	523	479	589	569
19	---	---	559	545	651	639	651	607	534	523	581	571
20	---	---	557	552	654	645	603	581	543	532	584	561
21	---	---	559	552	662	655	587	572	543	534	576	552
22	---	---	561	552	668	660	583	560	543	536	569	552
23	---	---	569	560	676	666	592	579	540	532	---	---
24	---	---	565	560	682	679	599	572	538	532	---	---
25	---	---	570	561	682	652	595	581	536	527	---	---
26	---	---	571	561	690	655	586	579	534	521	---	---
27	---	---	567	560	688	665	582	577	538	529	---	---
28	---	---	579	570	691	681	582	575	540	529	---	---
29	---	---	585	573	691	679	585	573	545	529	---	---
30	---	---	613	588	672	489	586	576	---	---	---	---
31	655	603	---	---	572	491	592	577	---	---	---	---
MONTH	---	---	658	532	691	397	---	---	587	401	---	---

03364500 Clifty Creek at Hartsville, Ind.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	559	538	592	529	592	477	---	---	523	463
2	---	---	564	512	605	589	552	510	---	---	510	459
3	---	---	549	515	600	574	569	504	---	---	459	456
4	---	---	561	529	587	512	510	459	---	---	463	456
5	---	---	538	517	525	461	477	431	---	---	468	454
6	---	---	534	506	619	454	482	402	---	---	461	369
7	---	---	532	521	611	525	488	407	---	---	370	328
8	---	---	532	521	569	500	529	422	---	---	356	249
9	---	---	549	529	564	549	525	459	---	---	---	---
10	---	---	561	545	600	561	540	482	---	---	---	---
11	---	---	561	545	608	587	611	482	---	---	---	---
12	---	---	559	547	594	540	597	504	---	---	---	---
13	---	---	545	496	549	521	617	517	---	---	---	---
14	---	---	559	517	538	484	640	536	---	---	---	---
15	---	---	574	508	480	355	574	543	---	---	---	---
16	---	---	587	402	498	369	549	517	---	---	---	---
17	---	---	554	459	587	506	584	419	---	---	---	---
18	---	---	584	557	614	589	665	500	---	---	---	---
19	---	---	592	581	640	614	617	482	---	---	---	---
20	559	549	587	576	643	637	576	477	---	---	---	---
21	569	401	581	566	643	305	564	496	---	---	---	---
22	492	416	581	557	407	317	540	496	---	---	---	---
23	545	494	581	566	517	411	---	---	---	---	---	---
24	571	543	587	561	592	521	---	---	---	---	---	---
25	584	571	571	490	617	594	---	---	---	---	---	---
26	597	579	486	431	628	614	---	---	---	---	---	---
27	600	581	454	422	634	625	---	---	---	---	---	---
28	597	584	534	414	631	614	---	---	---	---	---	---
29	589	579	538	521	619	464	---	---	---	---	---	---
30	581	559	519	434	538	454	---	---	---	---	---	---
31	---	---	523	413	---	---	---	---	475	464	---	---
MONTH	---	---	592	402	643	305	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 to SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	22.5	19.0	15.0	3.5	1.5	---	---	0.5	0.0	10.5	9.0
2	25.0	22.0	20.5	16.0	2.5	0.5	---	---	0.5	0.0	10.5	4.0
3	24.5	21.5	16.0	12.5	2.0	0.0	---	---	0.5	0.0	5.0	2.0
4	23.5	21.5	12.5	10.0	3.0	1.0	---	---	0.0	0.0	5.0	3.5
5	21.5	19.5	12.5	9.0	4.0	3.0	---	---	0.5	0.0	4.0	2.0
6	20.0	18.0	10.5	7.0	5.5	4.0	---	---	0.0	0.0	4.5	1.5
7	18.0	16.0	7.0	4.5	8.0	5.5	---	---	0.0	0.0	5.5	4.0
8	16.5	14.5	6.0	3.5	8.0	7.5	---	---	0.0	0.0	5.5	4.0
9	16.5	15.5	5.0	4.5	8.0	7.5	---	---	0.0	0.0	4.0	2.0
10	15.0	13.5	7.0	4.5	10.5	8.0	7.0	5.5	0.0	0.0	5.0	2.0
11	16.5	13.0	8.0	5.0	10.0	7.0	6.5	5.0	0.0	0.0	9.0	3.5
12	15.0	13.0	9.0	5.5	6.5	5.0	5.0	4.0	0.0	0.0	13.0	8.5
13	16.5	14.5	11.0	8.0	5.5	4.5	5.5	3.5	0.0	0.0	11.5	9.0
14	17.0	14.5	14.0	9.0	6.0	4.0	3.0	0.0	0.5	0.0	9.0	6.0
15	---	---	16.0	11.5	9.5	6.0	0.0	0.0	0.0	0.0	6.0	5.0
16	---	---	16.0	13.0	9.0	7.5	0.0	0.0	0.5	0.0	9.0	6.0
17	---	---	16.0	12.5	7.0	3.5	0.0	0.0	1.5	0.0	8.5	7.0
18	---	---	14.5	12.5	3.5	0.5	0.0	0.0	2.5	1.5	9.0	6.0
19	---	---	14.5	9.5	1.0	0.0	0.5	0.0	2.0	0.5	9.0	6.0
20	---	---	9.5	8.5	3.5	1.0	1.0	0.0	2.5	0.0	12.0	7.0
21	---	---	8.5	5.5	4.0	3.5	3.0	0.5	3.5	0.5	12.5	10.0
22	---	---	5.5	4.0	3.5	2.0	6.0	3.0	4.5	2.0	---	---
23	---	---	4.0	2.5	3.0	1.5	6.0	5.5	3.5	1.5	---	---
24	---	---	3.5	2.5	4.0	3.0	7.5	5.5	2.5	1.5	---	---
25	---	---	4.5	3.0	4.0	3.0	7.0	2.0	3.0	1.0	---	---
26	---	---	4.0	3.0	6.5	4.5	2.0	0.0	4.0	2.0	---	---
27	---	---	4.5	4.0	9.0	6.5	0.0	0.0	4.5	1.5	---	---
28	---	---	5.0	4.0	8.5	3.5	0.5	0.0	7.5	3.5	---	---
29	---	---	5.0	4.5	3.5	2.0	0.0	0.0	10.0	6.0	---	---
30	---	---	5.0	4.0	8.0	3.5	0.0	0.0	---	---	---	---
31	19.0	16.5	---	---	6.5	3.5	0.5	0.0	---	---	---	---
MONTH	---	---	20.5	2.5	10.5	0.0	---	---	10.0	0.0	---	---

03364500 Clifty Creek at Hartsville, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.0	15.0	16.5	12.0	24.0	23.5	---	---	22.5	19.5
2	---	---	19.5	15.5	18.0	14.5	24.0	23.0	---	24.0	22.0	19.0
3	---	---	17.5	15.0	19.5	16.5	23.0	22.0	26.0	24.0	19.5	19.0
4	---	---	18.0	14.0	22.5	18.5	23.0	22.0	25.5	23.0	19.5	19.0
5	---	---	19.0	14.5	22.5	20.5	23.0	22.0	24.0	21.5	20.0	19.0
6	---	---	20.5	16.0	22.5	20.5	23.0	22.0	22.0	22.0	19.5	15.0
7	---	---	20.0	18.0	22.5	19.5	23.0	22.0	23.0	21.5	15.0	12.5
8	---	---	19.0	17.0	20.5	18.5	23.5	22.0	22.5	21.5	14.0	---
9	---	---	17.0	14.0	19.0	17.5	23.0	22.0	22.5	21.5	---	---
10	---	---	17.0	12.0	20.0	16.5	23.5	22.0	24.5	23.0	---	---
11	---	---	18.5	13.5	19.0	15.0	23.5	22.5	25.0	23.0	---	---
12	---	---	20.0	15.0	19.5	15.5	23.0	22.0	25.0	24.0	---	---
13	---	---	18.5	16.5	20.0	18.0	22.5	21.5	25.0	23.0	---	---
14	---	---	17.5	15.5	22.0	18.5	22.5	21.0	25.0	23.5	---	---
15	---	---	16.5	15.0	21.5	18.5	22.5	22.0	27.0	24.0	---	---
16	---	---	17.0	15.0	19.0	17.0	22.5	22.5	28.0	25.0	---	---
17	---	---	17.5	14.5	19.0	17.0	24.5	22.0	28.0	24.5	---	---
18	---	---	19.5	15.5	20.5	17.0	26.5	21.0	26.5	24.0	---	---
19	---	---	21.0	17.0	22.0	18.5	26.0	21.5	26.5	24.0	---	---
20	15.5	12.5	21.5	18.5	22.0	20.5	24.5	21.0	26.0	24.5	---	---
21	12.5	10.0	22.5	18.5	21.5	19.0	21.5	21.0	26.5	24.5	---	---
22	14.0	10.0	23.5	19.5	18.5	16.0	23.0	21.5	26.5	24.0	---	---
23	14.0	12.0	24.0	21.0	16.0	14.0	---	---	26.5	24.5	---	---
24	12.5	10.5	24.0	20.5	14.0	13.5	---	---	27.0	24.0	---	---
25	14.0	9.5	24.5	20.5	15.0	12.5	---	---	25.5	23.0	---	---
26	14.5	10.0	24.5	21.0	17.0	14.0	---	---	26.5	22.0	---	---
27	16.0	11.0	24.5	21.0	19.0	15.5	---	---	27.0	22.5	---	---
28	15.5	12.5	23.5	19.0	18.5	17.0	---	---	27.0	22.0	---	---
29	14.5	13.5	20.5	19.0	24.5	17.0	---	---	---	---	---	---
30	17.0	12.5	19.5	18.0	24.0	23.5	---	---	---	---	---	---
31	---	---	17.5	13.5	---	---	---	---	21.5	19.5	---	---
MONTH	---	---	24.5	12.0	24.5	12.0	---	---	28.0	19.5	---	---

03365000 Sand Creek near Brewersville, Ind.

LOCATION.—Lat 39°05'03", long 85°39'32", in NW 1/4 NE 1/4 sec.5, T.7 N., R.8 E., Jennings County, on left bank at downstream side of county highway bridge, 2.5 miles west of Brewersville, 5.7 miles upstream from Wyaloosing Creek, and 16 miles upstream from mouth.

DRAINAGE AREA.—155 sq mi.

PERIOD OF RECORD.—February 1948 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 630 ft (by barometer). Prior to Oct. 6, 1952, nonrecording gage at site 1.7 miles upstream at datum approximately 8 ft higher.

AVERAGE DISCHARGE.—24 years, 163 cfs (14.28 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,870 cfs Apr. 16 (gage height, 13.84 ft); minimum daily, 1.9 cfs Sept. 4.
Period of record: Maximum discharge, 19,900 cfs Jan. 21, 1959 (gage height, 21.70 ft inside, 22.20 ft outside), from rating curve extended above 6,500 cfs on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1949. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	28	75	343	47	345	77	121	179	49	11	2.3
2	28	23	60	278	48	2,000	72	124	115	41	10	2.0
3	22	20	52	255	54	968	68	106	85	183	9.9	2.0
4	19	21	47	280	47	549	139	91	65	58	26	1.9
5	18	20	44	435	41	390	133	80	51	49	12	4.5
6	15	18	65	253	44	273	98	71	43	29	9.0	9.7
7	13	18	518	207	37	221	440	66	63	25	8.2	6.2
8	12	17	461	175	30	225	1,820	328	59	22	7.8	5.1
9	12	17	230	462	29	213	471	1,340	60	19	7.7	4.0
10	11	16	193	498	32	171	303	310	161	399	7.7	3.5
11	11	16	211	303	37	143	241	189	79	283	6.7	3.4
12	15	16	141	231	40	129	489	139	48	111	6.2	3.0
13	14	15	114	193	50	124	844	249	38	49	5.8	2.7
14	17	15	443	150	109	215	802	558	72	33	5.5	2.7
15	22	14	1,150	100	432	207	519	288	47	29	4.9	2.5
16	32	13	641	70	405	513	4,130	243	373	190	4.4	2.7
17	20	12	298	82	255	615	1,410	191	225	89	4.5	2.5
18	19	12	201	94	239	348	513	145	139	46	4.1	3.1
19	20	14	149	100	207	231	365	116	98	31	3.7	4.0
20	16	14	145	103	145	179	920	100	72	24	3.5	3.9
21	16	41	167	94	116	157	1,080	86	641	19	14	4.4
22	70	29	133	89	125	179	1,260	77	261	16	19	5.2
23	153	23	110	106	121	185	501	68	145	15	10	6.1
24	114	20	105	101	135	141	318	62	98	14	8.7	8.4
25	117	18	95	92	145	121	239	56	76	14	5.3	197
26	121	17	86	75	239	110	191	50	61	13	4.5	83
27	81	19	86	61	223	104	149	44	52	13	3.7	37
28	61	21	83	50	177	104	119	39	47	13	3.3	23
29	48	57	83	44	147	100	112	36	63	13	2.8	25
30	38	76	1,560	43	------	100	118	76	59	12	2.4	47
31	31	------	884	46	------	88	------	345	------	11	2.3	------
TOTAL	1,224	660	8,630	5,413	3,776	9,448	18,341	5,794	3,625	1,922	232.6	507.8
MEAN	39.5	22.0	278	175	130	305	611	187	121	62.0	7.50	16.9
MAX	153	76	1,560	498	432	2,000	4,130	1,340	641	399	26	197
MIN	11	12	44	43	29	88	68	36	38	11	2.3	1.9
CFSM	.25	.14	1.79	1.13	.84	1.97	3.94	1.21	.78	.40	.05	.11
IN.	.29	.16	2.07	1.30	.91	2.27	4.40	1.39	.87	.46	.06	.12

CAL YR 1971 TOTAL 44,869.9 MEAN 123 MAX 3,000 MIN 3.1 CFSM .79 IN 10.77
WTR YR 1972 TOTAL 59,573.4 MEAN 163 MAX 4,130 MIN 1.9 CFSM 1.05 IN 14.30

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1900	10.56	3,990	04-16	1500	13.84	6,870
04-08	0100	11.21	4,470	05-08	2400	9.00	2,950

03365000 Sand Creek near Brewersville, Ind.—Continued

DISCHARGE AND PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.												
31...	1500	17.0	30	49	4.0	--	--	--	--	--	--	--
NOV.												
22...	1115	5.0	29	14	1.1	--	--	--	--	--	--	--
DEC.												
15...	1305	--	964	584	1520	58	72	82	93	98	99	100
FEB.												
24...	1850	3.0	220	14	8.3	--	--	--	--	--	--	--
MAR.												
30...	1015	6.0	100	19	5.1	--	--	--	--	--	--	--

03365500 East Fork White River at Seymour, Ind.

LOCATION.—Lat 38°58'57", long 85°53'57", in NW 1/4 NE 1/4 sec.7, T.6 N., R.6 E., Jackson County, on left bank 1,700 ft downstream from highway bridge, 1 mile north of Seymour, 9.6 miles downstream from Sand Creek, and at mile 219.2.

DRAINAGE AREA.—2,341 sq mi.

PERIOD OF RECORD.—October 1927 to current year. Yearly maximum discharge only for water years 1924-27, published in WSP 1305. Daily gage heights from May 1923 to September 1927 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 550.67 ft above mean sea level. Oct. 1, 1927, to July 2, 1931, nonrecording gage 1,700 ft upstream at datum 7.61 ft higher. July 3, 1931, to July 16, 1934, nonrecording gage at site 100 ft downstream at present datum.

AVERAGE DISCHARGE.—45 years, 2,347 cfs (13.61 inches per year).

EXTREMES.—Current year: Maximum discharge, 27,000 cfs Apr. 17 (gage height, 16.66 ft); minimum daily, 243 cfs Sept. 23.
Period of record: Maximum discharge, 78,500 cfs Jan. 5, 1949 (gage height, 19.67 ft); minimum daily, 86 cfs Sept. 28, 30, 1941.
Flood of Mar. 26, 1913, reached a stage of 21.0 ft, from information by Corps of Engineers and State Highway Department of Indiana (discharge, 120,000 cfs).

REMARKS.—Records good. Some regulation of low flow by Seymour Water Co. at dam 500 ft upstream from station.

REVISIONS (WATER YEARS).—WSP 743: 1928-29, 1931-32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1928(M), 1929-30, 1932-33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	487	530	430	5,570	1,150	2,080	1,400	3,070	2,540	1,170	522	289
2	453	510	441	4,970	1,200	5,200	1,340	2,940	2,330	1,120	502	283
3	422	487	445	4,020	1,180	9,420	1,280	2,720	1,910	1,120	498	289
4	396	464	434	3,520	1,150	10,200	1,380	2,520	1,660	1,140	506	308
5	381	449	422	3,660	950	9,260	1,450	2,320	1,480	1,000	487	315
6	366	449	434	3,740	920	6,170	1,390	2,150	1,360	937	479	335
7	352	441	651	3,070	890	4,370	1,490	2,020	1,360	880	487	318
8	345	426	1,550	2,670	870	3,710	7,780	2,020	1,550	840	468	321
9	349	418	2,140	2,590	860	3,340	9,290	3,720	1,400	800	464	312
10	349	411	2,180	3,330	850	2,900	8,640	3,020	1,360	855	456	289
11	342	399	1,880	3,430	875	2,570	6,860	2,710	1,310	1,350	441	283
12	345	396	1,700	3,260	875	2,350	5,690	2,330	1,200	895	437	283
13	352	388	1,510	2,870	900	2,230	6,050	2,200	1,120	780	422	280
14	370	384	1,400	2,580	1,060	2,440	6,930	3,530	1,120	750	411	274
15	366	377	3,610	2,140	1,700	2,510	6,120	4,830	1,580	730	415	274
16	392	370	6,180	1,400	2,560	2,880	10,300	5,200	3,020	890	403	274
17	403	359	6,890	1,400	2,460	3,550	23,700	4,970	4,720	855	392	271
18	384	352	6,640	1,710	2,140	3,050	15,100	4,090	4,050	815	384	267
19	381	356	4,780	1,770	2,030	2,490	9,990	3,300	2,930	750	370	264
20	370	345	3,410	1,750	1,790	2,150	7,940	2,770	2,300	692	356	258
21	363	338	2,880	1,660	1,550	1,970	8,220	2,420	2,140	646	349	252
22	384	349	2,540	1,640	1,490	1,950	11,800	2,140	2,490	615	342	249
23	449	352	2,250	1,700	1,450	1,970	12,800	1,980	1,930	584	349	243
24	571	356	2,020	1,820	1,440	1,870	12,500	1,830	1,640	576	342	258
25	692	345	1,880	1,820	1,470	1,730	9,730	1,690	1,450	584	335	315
26	795	338	1,740	1,720	1,610	1,620	6,390	1,580	1,320	588	332	472
27	865	349	1,640	1,540	1,940	1,550	4,880	1,480	1,220	619	325	510
28	770	349	1,570	1,420	2,050	1,520	4,040	1,390	1,180	580	315	580
29	688	359	1,480	1,250	2,020	1,490	3,520	1,330	1,130	615	308	697
30	619	399	1,960	1,150	------	1,500	3,210	1,360	1,130	606	302	660
31	571	------	5,770	1,100	------	1,460	------	1,930	------	555	296	------
TOTAL	14,372	11,845	72,857	76,270	41,430	101,500	211,210	81,580	55,930	24,937	12,495	10,023
MEAN	464	395	2,350	2,460	1,429	3,274	7,040	2,632	1,864	804	403	334
MAX	865	530	6,890	5,570	2,560	10,200	23,700	5,200	4,720	1,350	522	697
MIN	342	338	422	1,100	850	1,460	1,280	1,330	1,120	555	296	243
CFSM	.20	.17	1.00	1.05	.61	1.40	3.01	1.12	.80	.34	.17	.14
IN.	.23	.19	1.16	1.21	.66	1.61	3.36	1.30	.89	.40	.20	.16

CAL YR 1971 TOTAL 658,079 MEAN 1,803 MAX 24,900 MIN 275 CFSM .77 IN 10.46
WTR YR 1972 TOTAL 714,449 MEAN 1,952 MAX 23,700 MIN 243 CFSM .83 IN 11.35

PEAK DISCHARGE (BASE, 12,000 CFS).—Apr. 17 (0900) 27,000 cfs (16.66 ft). Apr. 23 (2100) 12,900 cfs (13.69 ft).

03365500 East Fork White River at Seymour, Ind.--Continued

PERIOD OF RECORD.--Water temperatures: October 1954 to September 1972.
Sediment records: July 1966 to September 1972.

EXTREMES.--1971-72:
Water temperatures: 29.0°C July 22, 23, 24; minimum, freezing point on several days during January and February.
Sediment concentrations: Maximum daily, 831 mg/l June 22; minimum daily, 6 mg/l Nov. 26.
Sediment loads: Maximum daily, 23,000 tons Apr. 16; minimum daily, 5.5 tons Nov. 26.

Period of record:
Water temperatures: Maximum, 31.0°C July 13, 14, 1966; minimum, freezing point on many days during most winter periods.
Maximum temperature of 32°C was observed on July 19, 1954.
Sediment concentrations: Maximum daily, 1,200 mg/l May 25, June 25, 1968; minimum daily, 4 mg/l Nov. 5, 1966.
Sediment loads: Maximum daily, 179,000 tons May 25, 1968; minimum daily, 3 tons Nov. 5, 1966.

REMARKS.--Temperatures affected by pumping plant 1,200 ft upstream. Sediment samples collected at highway bridge 1,700 ft upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	23.0	16.5	16.0	5.0	4.0	6.0	4.5	0.5	0.0	9.5	8.0
2	24.0	23.5	17.0	16.5	4.0	3.5	4.5	4.0	1.0	0.5	9.5	7.5
3	24.0	23.5	16.5	14.0	3.5	3.0	4.0	3.5	1.0	1.0	7.5	5.5
4	23.5	23.0	14.0	12.0	3.5	3.0	3.5	3.5	1.0	0.5	5.5	4.5
5	23.0	21.0	12.0	11.5	4.5	3.5	3.5	2.0	0.5	0.0	4.5	4.0
6	21.0	19.5	11.5	9.5	5.0	4.5	2.0	0.5	0.5	0.0	4.0	4.0
7	19.5	18.0	9.5	7.5	6.0	5.0	0.5	0.0	0.5	0.0	4.5	4.0
8	18.0	16.5	7.5	7.0	7.0	6.0	0.5	0.5	0.5	0.0	5.5	4.5
9	17.0	16.0	7.0	6.5	7.0	7.0	1.5	0.5	0.5	0.0	5.5	5.0
10	16.0	15.5	7.0	6.5	9.0	7.0	3.0	1.5	0.5	0.5	5.5	4.5
11	15.5	14.5	7.5	7.0	9.0	8.5	3.5	3.0	1.5	0.5	7.0	5.5
12	15.5	14.5	8.0	7.5	8.5	7.0	3.5	3.5	2.0	1.5	9.5	7.0
13	16.0	15.0	9.0	8.0	7.0	6.0	3.5	3.0	2.0	2.0	10.5	9.5
14	16.5	15.5	11.5	9.0	6.0	6.0	3.0	1.5	2.5	1.5	10.0	9.0
15	17.0	16.0	13.0	11.5	7.0	6.0	1.5	0.0	2.5	2.0	9.0	8.0
16	17.0	16.5	14.0	13.0	8.0	7.0	0.0	0.0	2.0	1.0	8.5	8.0
17	17.0	16.5	14.5	13.5	8.0	6.5	0.0	0.0	2.0	1.0	8.5	8.5
18	17.0	17.0	14.0	14.0	6.5	4.5	0.0	0.0	2.0	1.5	8.5	8.0
19	18.0	17.0	14.0	12.0	4.5	3.0	1.0	0.0	1.5	1.5	9.0	8.0
20	18.5	17.5	12.0	10.0	3.0	3.0	1.5	0.0	1.5	1.0	10.5	8.5
21	18.5	18.5	10.0	7.5	3.5	3.0	2.5	1.0	2.5	1.5	11.0	10.0
22	18.5	18.0	7.5	6.0	3.5	3.5	4.0	2.5	3.5	2.5	11.0	9.5
23	18.0	18.0	6.0	5.0	3.5	3.5	4.0	4.0	3.5	3.0	9.5	7.5
24	18.0	18.0	5.0	4.5	4.0	3.5	5.5	4.0	3.0	2.5	7.5	6.5
25	18.0	17.5	5.0	4.5	4.0	4.0	5.5	4.0	2.5	2.0	7.5	6.5
26	18.0	17.0	5.0	4.5	5.5	4.0	4.0	2.5	3.0	2.0	8.0	6.5
27	17.5	17.0	4.5	4.5	7.5	5.5	2.5	1.0	3.5	2.0	8.0	7.5
28	17.5	17.0	5.0	4.5	7.5	6.5	1.0	0.5	5.5	3.5	8.5	7.5
29	17.0	16.5	5.5	5.0	6.5	5.5	0.5	0.0	8.0	5.5	8.5	8.0
30	17.0	16.5	5.5	5.0	7.0	5.5	0.0	0.0	---	---	9.0	7.0
31	17.0	16.5	---	---	7.5	6.0	0.0	0.0	---	---	9.5	8.0
MONTH	24.0	14.5	17.0	4.5	9.0	3.0	6.0	0.0	8.0	0.0	11.0	4.0

03365500 East Fork White River at Seymour, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	15.0	14.5	18.0	17.0	25.5	23.5	24.5	24.0	25.5	24.0
2	8.5	8.0	16.5	15.0	18.5	17.0	25.5	25.0	24.5	23.5	24.5	24.0
3	8.0	7.5	16.5	16.0	19.5	18.5	25.0	24.0	24.5	24.0	24.0	21.5
4	9.5	8.0	16.0	15.5	22.0	19.0	24.5	23.0	24.5	24.0	21.5	20.5
5	10.5	8.5	17.0	15.5	23.5	21.5	23.0	21.5	24.5	23.5	21.0	19.5
6	13.0	10.5	18.0	16.5	23.5	22.0	22.0	21.0	24.0	23.0	21.5	20.5
7	13.0	9.0	18.0	17.0	23.5	22.0	21.5	21.0	23.0	23.0	21.5	20.5
8	9.0	5.5	18.5	18.0	23.5	22.0	22.0	20.5	23.0	21.5	21.5	21.0
9	6.0	5.5	18.0	16.0	22.0	20.5	22.5	21.5	22.0	21.0	22.0	21.0
10	8.0	6.0	16.0	15.0	21.5	20.5	23.0	22.0	21.5	20.5	21.5	20.5
11	10.5	8.0	17.0	15.5	21.0	19.5	23.5	23.0	23.0	21.0	21.5	20.5
12	12.0	10.5	18.0	16.0	20.5	19.5	24.5	23.5	24.0	22.5	23.0	21.5
13	14.5	12.0	17.5	17.0	21.0	20.5	26.0	24.5	25.5	24.0	24.0	22.5
14	15.5	14.5	18.0	17.0	23.5	21.0	27.0	25.5	26.0	25.0	24.0	23.5
15	15.5	15.0	18.0	17.0	23.5	23.0	26.5	24.5	25.5	25.5	23.5	23.0
16	15.0	14.5	17.5	16.5	23.0	22.0	24.5	23.5	25.5	24.5	23.0	22.5
17	15.5	14.0	18.0	17.0	22.5	21.5	23.5	23.0	26.5	25.5	23.5	22.5
18	15.5	14.0	18.5	18.0	22.0	21.5	25.5	23.5	28.0	26.5	24.0	23.0
19	15.5	15.0	19.0	18.5	23.0	22.0	26.5	25.5	28.0	27.5	25.0	23.5
20	15.0	14.5	19.5	19.0	24.0	23.0	28.0	26.5	28.0	27.0	24.5	23.5
21	14.5	13.0	21.0	19.5	24.0	23.5	28.5	27.5	27.0	26.5	24.0	22.0
22	13.0	12.0	22.0	20.5	24.0	21.0	29.0	28.0	27.0	26.0	22.0	21.0
23	13.5	12.5	23.0	21.0	21.0	19.5	29.0	28.0	26.0	25.5	21.0	20.5
24	13.5	12.0	23.5	21.5	19.5	18.5	29.0	27.5	26.5	26.0	20.5	20.5
25	13.0	11.5	23.5	21.5	18.5	17.5	27.5	26.5	26.5	25.5	20.5	20.5
26	13.0	11.5	23.5	22.0	20.0	18.5	26.5	25.5	26.0	25.5	20.5	20.0
27	13.5	12.5	23.0	21.5	22.0	19.5	25.5	25.0	25.5	24.0	21.0	20.5
28	14.0	13.5	23.0	21.5	22.0	21.5	25.5	24.0	24.5	23.0	21.0	20.5
29	14.0	14.0	23.0	21.5	23.0	21.0	24.0	23.0	25.0	23.5	20.5	18.5
30	14.5	13.5	21.5	20.5	23.5	21.5	23.5	22.5	25.5	24.0	18.5	17.0
31	---	---	20.5	18.0	---	---	24.5	23.0	25.0	24.0	---	---
MONTH	15.5	5.5	23.5	14.5	24.0	17.0	29.0	20.5	28.0	20.5	25.5	17.0
YEAR	29.0	0.0										

03365500 East Fork White River at Seymour, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 to SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	15.0	14.5	18.0	17.0	25.5	23.5	24.5	24.0	25.5	24.0
2	8.5	8.0	16.5	15.0	18.5	17.0	25.5	25.0	24.5	23.5	24.5	24.0
3	8.0	7.5	16.5	16.0	19.5	18.5	25.0	24.0	24.5	24.0	24.0	21.5
4	9.5	8.0	16.0	15.5	22.0	19.0	24.5	23.0	24.5	24.0	21.5	20.5
5	10.5	8.5	17.0	15.5	23.5	21.5	23.0	21.5	24.5	23.5	21.0	19.5
6	13.0	10.5	18.0	16.5	23.5	22.0	22.0	21.0	24.0	23.0	21.5	20.5
7	13.0	9.0	18.0	17.0	23.5	22.0	21.5	21.0	23.0	23.0	21.5	20.5
8	9.0	5.5	18.5	18.0	23.5	22.0	22.0	20.5	23.0	21.5	21.5	21.0
9	6.0	5.5	18.0	16.0	22.0	20.5	22.5	21.5	22.0	21.0	22.0	21.0
10	8.0	6.0	16.0	15.0	21.5	20.5	23.0	22.0	21.5	20.5	21.5	20.5
11	10.5	8.0	17.0	15.5	21.0	19.5	23.5	23.0	23.0	21.0	21.5	20.5
12	12.0	10.5	18.0	16.0	20.5	19.5	24.5	23.5	24.0	22.5	23.0	21.5
13	14.5	12.0	17.5	17.0	21.0	20.5	26.0	24.5	25.5	24.0	24.0	22.5
14	15.5	14.5	18.0	17.0	23.5	21.0	27.0	25.5	26.0	25.0	24.0	23.5
15	15.5	15.0	18.0	17.0	23.5	23.0	26.5	24.5	25.5	25.5	23.5	23.0
16	15.0	14.5	17.5	16.5	23.0	22.0	24.5	23.5	25.5	24.5	23.0	22.5
17	15.5	14.0	18.0	17.0	22.5	21.5	23.5	23.0	26.5	25.5	23.5	22.5
18	15.5	14.0	18.5	18.0	22.0	21.5	25.5	23.5	28.0	26.5	24.0	23.0
19	15.5	15.0	19.0	18.5	23.0	22.0	26.5	25.5	28.0	27.5	25.0	23.5
20	15.0	14.5	19.5	19.0	24.0	23.0	28.0	26.5	28.0	27.0	24.5	23.5
21	14.5	13.0	21.0	19.5	24.0	23.5	28.5	27.5	27.0	26.5	24.0	22.0
22	13.0	12.0	22.0	20.5	24.0	21.0	29.0	28.0	27.0	26.0	22.0	21.0
23	13.5	12.5	23.0	21.0	21.0	19.5	29.0	28.0	26.0	25.5	21.0	20.5
24	13.5	12.0	23.5	21.5	19.5	18.5	29.0	27.5	26.5	26.0	20.5	20.5
25	13.0	11.5	23.5	21.5	18.5	17.5	27.5	26.5	26.5	25.5	20.5	20.5
26	13.0	11.5	23.5	22.0	20.0	18.5	26.5	25.5	26.0	25.5	20.5	20.0
27	13.5	12.5	23.0	21.5	22.0	19.5	25.5	25.0	25.5	24.0	21.0	20.5
28	14.0	13.5	23.0	21.5	22.0	21.5	25.5	24.0	24.5	23.0	21.0	20.5
29	14.0	14.0	23.0	21.5	23.0	21.0	24.0	23.0	25.0	23.5	20.5	18.5
30	14.5	13.5	21.5	20.5	23.5	21.5	23.5	22.5	25.5	24.0	18.5	17.0
31	---	---	20.5	18.0	---	---	24.5	23.0	25.0	24.0	---	---
MONTH	15.5	5.5	23.5	14.5	24.0	17.0	29.0	20.5	28.0	20.5	25.5	17.0
YEAR	29.0	0.0										

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	487	36	47	530	40	57	430	12	14
2	453	36	44	510	39	54	441	23	27
3	422	35	40	487	39	51	445	26	31
4	396	35	37	464	38	48	434	26	30
5	381	35	36	449	38	46	422	26	30
6	366	34	34	449	37	45	434	27	32
7	352	33	31	441	36	43	651	44	88
8	345	32	30	426	35	40	1550	121	506
9	349	31	29	418	34	38	2140	92	532
10	349	30	28	411	33	37	2180	70	412
11	342	30	28	399	33	36	1880	40	203
12	345	29	27	396	33	35	1700	32	147
13	352	28	27	388	31	32	1510	24	98
14	370	30	30	384	26	27	1400	98	370
15	366	32	32	377	18	18	3610	478	4930
16	392	35	37	370	11	11	6180	326	5480
17	403	38	41	359	10	9.7	6890	190	3530
18	384	38	39	352	13	12	6640	99	1770
19	381	36	37	356	17	16	4780	60	774
20	370	35	35	345	14	13	3410	51	470
21	363	35	34	338	11	10	2880	48	373
22	384	34	35	349	12	11	2540	42	288
23	449	47	57	352	15	14	2250	38	231
24	571	63	97	356	11	11	2020	44	240
25	692	66	123	345	7	6.5	1880	59	299
26	795	52	112	338	6	5.5	1740	62	291
27	865	48	112	349	7	6.6	1640	62	275
28	770	46	96	349	7	6.6	1570	59	250
29	688	44	82	359	7	6.8	1480	57	228
30	619	41	69	399	7	7.5	1960	77	455
31	571	40	62	--	--	--	5770	665	10400
TOTAL	14372	--	1568	11845	--	754.2	72857	--	32804

03365500 East Fork White River at Seymour, Ind.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5570	228	3430	1150	51	158	2080	40	225
2	4970	155	2080	1200	52	168	5200	501	8010
3	4020	87	944	1180	51	162	9420	294	7480
4	3520	49	466	1150	50	155	10200	252	6940
5	3660	119	1180	950	48	123	9260	186	4650
6	3740	108	1090	920	46	114	6170	81	1350
7	3070	77	638	890	42	101	4370	79	932
8	2670	76	548	870	39	92	3710	60	601
9	2590	80	559	860	38	88	3340	56	505
10	3330	85	764	850	38	87	2900	48	376
11	3430	82	759	875	39	92	2570	71	493
12	3260	85	748	875	39	92	2350	76	482
13	2870	82	635	900	39	95	2230	62	373
14	2580	73	509	1060	39	112	2440	62	408
15	2140	61	352	1700	40	184	2510	68	461
16	1400	51	193	2560	44	304	2880	120	933
17	1400	46	174	2460	38	252	3550	113	1080
18	1710	45	208	2140	23	133	3050	73	601
19	1770	43	205	2030	12	66	2490	50	336
20	1750	45	213	1790	19	92	2150	39	226
21	1660	54	242	1550	25	105	1970	35	186
22	1640	53	235	1490	25	101	1950	25	132
23	1700	47	216	1450	29	114	1970	23	122
24	1820	40	197	1440	24	93	1870	29	146
25	1820	38	187	1470	19	75	1730	28	131
26	1720	35	163	1610	25	109	1620	25	109
27	1540	37	154	1940	37	194	1550	23	96
28	1420	46	176	2050	51	282	1520	20	82
29	1250	49	165	2020	44	240	1490	15	60
30	1150	50	155	--	--	--	1500	17	69
31	1100	50	149	--	--	--	1460	9	35
TOTAL	76270	--	17734	41430	--	3983	101500	--	37630

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1400	15	57	3070	83	688	2540	101	693
2	1340	18	65	2940	81	643	2330	141	887
3	1280	12	41	2720	95	698	1910	82	423
4	1380	9	34	2520	88	599	1660	33	148
5	1450	8	31	2320	80	501	1480	41	164
6	1390	8	30	2150	71	412	1360	56	206
7	1490	229	975	2020	65	355	1360	52	191
8	7780	507	10300	2020	118	639	1550	48	201
9	9290	216	5420	3720	575	5880	1400	29	110
10	8640	112	2610	3020	137	1120	1360	34	125
11	6860	84	1560	2710	73	534	1310	32	113
12	5690	118	1810	2330	61	384	1200	50	162
13	6050	164	2680	2200	110	657	1120	49	148
14	6930	219	4100	3530	314	3090	1120	48	145
15	6120	206	3400	4830	286	3730	1580	125	549
16	10300	801	23000	5200	192	2700	3020	192	1650
17	23700	331	21600	4970	163	2190	4720	226	2880
18	15100	220	8970	4090	121	1340	4050	102	1120
19	9990	94	2540	3300	133	1190	2930	73	578
20	7940	92	1970	2770	125	935	2300	21	130
21	8220	204	4530	2420	90	588	2140	85	580
22	11800	168	5350	2160	74	432	2490	831	5810
23	12800	146	5050	1980	60	321	1930	232	1210
24	12500	111	3750	1830	72	356	1640	123	545
25	9730	120	3150	1690	62	283	1450	82	321
26	6390	105	1810	1580	47	201	1320	59	210
27	4880	93	1230	1480	42	168	1220	43	142
28	4040	97	1060	1390	45	169	1180	61	194
29	3520	98	931	1330	45	162	1130	57	174
30	3210	90	780	1360	91	333	1130	47	143
31	--	--	--	1930	177	918	--	--	--
TOTAL	211210	--	118834	81580	--	32216	55930	--	19952

03365500 East Fork White River at Seymour, Ind.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1170	43	136	522	53	75	289	44	34
2	1120	42	127	502	52	70	283	43	33
3	1120	50	151	498	51	69	289	48	37
4	1140	46	142	506	91	125	308	61	51
5	1000	48	130	487	74	97	315	63	54
6	937	52	132	479	71	92	335	54	49
7	880	52	124	487	95	125	318	40	34
8	840	49	111	468	88	111	321	49	42
9	800	47	102	464	83	104	312	52	44
10	855	57	132	456	82	101	289	49	38
11	--	--	--	441	77	92	283	47	36
12	895	158	382	437	69	81	283	46	35
13	780	138	291	422	53	60	280	44	33
14	750	129	261	411	48	53	274	42	31
15	730	129	254	415	45	50	274	39	29
16	890	151	363	403	44	48	274	37	27
17	855	89	205	392	42	44	271	34	25
18	815	59	130	384	39	40	267	31	22
19	750	52	105	370	37	37	264	29	21
20	692	49	92	356	33	32	258	27	19
21	646	48	84	349	30	28	252	25	17
22	615	48	80	342	29	27	249	23	15
23	584	48	76	349	38	36	243	22	14
24	576	75	119	342	43	40	258	23	16
25	584	83	131	335	45	41	315	33	28
26	588	68	108	332	48	43	472	34	43
27	619	75	125	325	50	44	510	32	44
28	580	51	80	315	49	42	580	40	63
29	615	53	88	308	48	40	697	42	79
30	606	53	87	302	47	38	660	45	80
31	555	53	79	296	45	36	--	--	--
TOTAL	23587	--	4427	12495	--	1921	10023	--	1093

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 713099
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 272916.2

PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 1971 to SEPTEMBER 1972

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC. 31...	96	99	100	--	--	--	--
MAR. 02...	63	72	79	83	88	98	100
APR. 08...	93	98	100	--	--	--	--
MAY 09...	82	89	99	100	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC. 31...	0800	8.5	6190	1060	17700	59	72	85
MAR. 02...	1600	9.0	6270	688	11600	29	40	49
APR. 08...	0700	6.5	7360	949	18900	48	65	79
MAY 09...	0700	17.0	3800	909	9330	38	52	66

03366000 Graham Creek near Vernon, Ind.

LOCATION.—Lat 38°55'47", long 85°33'45", in NW 1/4 SE 1/4 sec.30, T.6 N., R.9 E., Jennings County, on right bank 10 ft upstream from State Highway 7, 4.7 miles southeast of Vernon, and 8.0 miles downstream from Little Graham Creek.

DRAINAGE AREA.—77.2 sq mi.

PERIOD OF RECORD.—June 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 677.47 ft above mean sea level (unadjusted). Prior to June 10, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—17 years, 89.4 cfs (15.73 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,590 cfs May 8 (gage height, 12.43 ft); no flow Sept. 20-23.
Period of record: Maximum discharge, 18,600 cfs June 23, 1960 (gage height, 21.37 ft), from rating curve extended above 6,000 cfs on basis of contracted-opening measurements of peak flow; no flow at times most years.

REMARKS.—Records good prior to May 3, and fair thereafter.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	45	66	9.6	350	43	39	56	9.8	6.7	.49
2	15	13	27	64	10	1,860	38	43	28	8.6	5.2	.49
3	13	13	20	97	15	498	36	38	20	9.2	16	.57
4	11	13	17	104	24	213	350	31	16	8.6	284	.57
5	9.0	12	16	383	16	150	158	28	14	8.6	74	.49
6	7.8	13	205	104	13	95	85	25	14	7.6	44	.34
7	6.2	13	1,290	59	11	77	462	23	13	6.7	24	.22
8	5.2	13	522	46	10	100	1,010	1,800	12	5.7	17	.49
9	5.5	13	140	671	9.2	83	165	945	12	4.8	13	.49
10	5.5	14	92	549	9.4	58	101	197	12	4.8	11	.34
11	5.5	17	169	157	9.6	51	79	104	38	6.7	8.6	.22
12	5.9	17	69	80	11	47	534	71	22	44	7.6	.17
13	5.9	16	45	56	15	44	1,650	175	17	16	6.7	.17
14	6.6	14	36	42	44	47	707	349	15	10	5.2	.22
15	7.8	13	320	25	711	48	1,210	126	13	7.6	4.3	.22
16	16	12	522	18	378	845	3,400	88	12	6.7	3.6	.17
17	11	11	92	16	168	578	430	68	10	5.7	3.1	.12
18	8.4	10	50	16	195	185	171	53	9.2	5.2	2.6	.08
19	7.8	11	34	19	130	103	128	44	8.1	4.3	2.4	.05
20	7.2	14	47	21	71	77	774	37	7.6	3.6	2.4	0
21	5.2	18	83	21	67	65	597	32	6.7	3.1	2.1	0
22	36	18	48	21	98	65	525	28	53	2.6	2.4	0
23	183	15	32	28	95	85	180	26	30	2.1	2.4	0
24	64	13	27	37	358	58	110	22	18	38	1.9	14
25	113	13	24	31	203	47	80	20	13	71	1.6	53
26	51	12	22	21	275	40	61	18	11	23	1.9	25
27	32	14	21	16	154	39	51	16	9.2	14	1.6	15
28	26	25	21	13	105	42	43	14	8.1	10	1.3	13
29	20	36	23	12	89	49	39	13	8.1	9.2	.98	19
30	16	77	258	10	------	76	39	15	11	9.8	.76	15
31	15	------	306	10	------	56	------	40	------	8.1	.57	------
TOTAL	740.5	507	4,623	2,817	3,303.8	6,130	13,256	4,528	517.0	375.1	558.91	159.91
MEAN	23.9	16.9	149	90.9	114	198	442	146	17.2	12.1	18.0	5.33
MAX	183	77	1,290	671	711	1,860	3,400	1,800	56	71	284	53
MIN	5.2	10	16	10	9.2	39	36	13	6.7	2.1	.57	0
CFSM	.31	.22	1.93	1.18	1.48	2.56	5.73	1.89	.22	.16	.23	.07
IN.	.36	.24	2.23	1.36	1.59	2.95	6.39	2.18	.25	.18	.27	.08

CAL YR 1971 TOTAL 31,275.59 MEAN 85.7 MAX 3,690 MIN 0 CFSM 1.11 IN 15.07
WTR YR 1972 TOTAL 37,516.22 MEAN 103 MAX 3,400 MIN 0 CFSM 1.33 IN 18.08

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0100	7.77	2,560	04-16	1200	12.12	5,420
04-07	2315	7.92	2,650	05-08	1500	12.43	5,590
04-13	1715	9.59	3,680				

03366200 Harberts Creek near Madison, Ind.

LOCATION.—Lat 38°46'55", long 85°29'08", in SW 1/4 SE 1/4 sec.14, T.4 N., R.9 E., Jefferson County, attached to left downstream wingwall of bridge on County Road 533 West, 0.2 mile west of Smyrna, 3.7 miles upstream from Big Creek, and 4 miles northwest of Madison.

DRAINAGE AREA.—9.31 sq mi.

PERIOD OF RECORD.—August 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 725.75 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 1,280 cfs Apr. 16 (gage height, 7.36 ft); no flow on July 15, 22, 23, Aug. 25-31, Sept. 1, 2, 13, 20-23.
Period of record: Maximum discharge, 1,540 cfs Apr. 2, 1970 (gage height, 7.89 ft); no flow at times each year.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.29	1.5	8.9	1.1	86	5.2	4.3	.91	.19	.04	0
2	.11	.48	1.0	18	1.5	160	4.6	4.0	.55	.09	.03	0
3	.09	.81	.81	11	4.0	37	4.3	3.5	.48	.42	5.2	.55
4	.06	.42	.71	34	3.0	24	15	2.7	.91	.33	12	.48
5	.04	.33	.71	30	2.0	18	8.2	2.5	.37	.19	1.3	.13
6	.03	.48	14	13	1.5	12	5.9	2.0	1.5	.11	.55	.04
7	.03	2.7	31	9.2	1.2	11	80	2.0	.81	.07	.55	.01
8	.03	.63	17	8.5	1.1	16	32	37	.42	.03	.29	1.0
9	.42	.55	9.6	41	.95	9.2	15	31	.55	.01	.19	.63
10	.71	.48	7.5	23	.90	7.2	12	11	.71	.02	.13	.16
11	.22	.48	6.5	14	1.0	6.2	9.9	6.5	.33	1.0	.11	.04
12	.13	.48	3.7	9.2	4.0	5.6	75	4.6	.25	.19	.09	.01
13	.09	.42	2.2	7.2	19	6.2	112	48	.33	.04	.09	0
14	.22	.33	1.8	4.5	65	9.6	45	27	.37	.02	.06	1.0
15	.33	.29	14	2.8	63	7.2	109	14	3.5	0	.03	.48
16	.19	.29	9.6	1.7	23	133	421	8.2	3.2	.91	.02	.16
17	.13	.29	4.3	1.5	18	40	33	6.2	.63	1.5	.02	.07
18	.11	.29	2.2	1.6	20	19	18	4.6	.33	.25	.01	.03
19	.09	2.0	1.6	2.0	13	15	15	3.7	.25	.11	.03	.01
20	.07	1.2	6.2	2.5	11	11	134	3.2	.22	.07	.16	0
21	.13	.63	5.2	2.5	9.2	9.6	62	2.5	.22	.02	.29	0
22	8.2	.42	2.2	2.5	13	36	40	2.0	.16	0	.11	0
23	3.0	.37	1.5	3.2	38	14	17	1.8	.13	0	.06	0
24	2.7	.42	1.3	4.0	53	8.2	12	1.6	.13	3.7	.02	16
25	1.5	.48	1.0	2.7	29	6.2	9.2	1.3	.13	1.0	.01	17
26	.81	.42	1.0	1.6	42	4.9	7.5	1.0	.11	.22	0	4.0
27	.55	.81	1.0	1.2	18	6.2	4.2	.91	.09	1.8	0	3.2
28	.48	.91	1.0	1.1	13	6.2	5.2	.71	.13	.71	0	2.5
29	.42	3.0	.91	1.0	9.9	13	4.9	.63	.29	.48	0	16
30	.37	3.2	87	1.0	------	11	5.2	2.7	.63	.16	0	17
31	.33	------	18	.96	------	6.8	------	2.2	------	.07	0	------
TOTAL	21.72	23.90	256.04	265.36	479.35	755.3	1,323.3	243.35	18.64	13.71	21.39	80.50
MEAN	.70	.80	8.26	8.56	16.5	24.4	44.1	7.85	.62	.44	.69	2.68
MAX	8.2	3.2	87	41	65	160	421	48	3.5	3.7	12	17
MIN	.03	.29	.71	.96	.90	4.9	4.3	.63	.09	0	0	0
CFSM	.08	.09	.89	.92	1.77	2.62	4.74	.84	.07	.05	.07	.29
IN.	.09	.10	1.02	1.06	1.92	3.02	5.29	.97	.07	.05	.09	.32

CAL YR 1971 TOTAL 3,326.79 MEAN 9.11 MAX 527 MIN 0 CFSM .98 IN 13.29
WTR YR 1972 TOTAL 3,502.56 MEAN 9.57 MAX 421 MIN 0 CFSM 1.03 IN 14.00

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1115	5.15	358	04-13	0945	5.20	370
03-01	2000	4.94	306	04-16	0615	7.30	1,280
03-02	0815	5.42	436	04-20	0900	5.64	506
04-07	1800	5.16	360				

03366500 Muscatatuck River near Deputy, Ind.

LOCATION.—Lat 38°48'15", long 85°40'26", in SW 1/4 NE 1/4 sec.7, T.4 N., R.8 E., Jefferson County, on left bank at downstream side of highway bridge, 1.4 miles northwest of Deputy, 1.9 miles upstream from Coffee Creek, and 2.4 miles downstream from confluence of Graham Creek and Big Creek.

DRAINAGE AREA.—293 sq mi.

PERIOD OF RECORD.—November 1947 to current year.

GAGE.—Water-stage recorder. Datum of gage is 541.17 ft above mean sea level. Prior to June 22, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years (1948-72), 328 cfs (15.20 inches per year).

EXTREMES.—Current year: Maximum discharge, 15,700 cfs Apr. 16 (gage height, 23.06 ft); minimum daily, 0.30 cfs Sept. 16, 17. Period of record: Maximum discharge, 52,200 cfs Jan. 21, 1959 (gage height, 33.1 ft, from floodmarks), from rating curve extended above 25,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1335: 1948. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	25	171	422	49	575	174	184	57	9.9	7.2	1.1
2	24	23	104	276	54	4,730	146	185	79	9.9	6.4	1.0
3	18	21	69	369	66	2,440	132	179	57	10	8.1	1.6
4	14	20	54	369	85	1,000	250	150	45	11	702	1.2
5	12	18	46	1,020	74	653	556	124	35	9.0	233	.76
6	11	18	54	617	64	451	269	107	30	8.1	99	.50
7	9.5	20	1,130	336	52	342	587	95	26	7.2	58	.45
8	9.0	19	1,390	249	45	353	2,610	3,130	24	6.4	34	.69
9	9.0	19	507	670	40	341	758	6,720	22	5.6	21	.88
10	9.5	19	293	1,650	36	252	404	1,150	21	5.2	16	.60
11	8.5	18	296	685	80	206	314	514	25	5.6	13	.46
12	8.1	20	270	419	61	183	1,430	331	31	24	11	.35
13	8.5	22	170	293	79	170	2,920	415	26	33	9.9	.38
14	9.0	22	131	210	261	197	2,740	1,340	21	19	8.5	.43
15	9.5	21	190	140	1,460	202	2,570	697	25	11	7.6	.34
16	9.9	21	887	80	1,350	2,180	11,000	370	31	10	6.4	.30
17	14	20	411	90	619	2,320	4,320	264	33	11	6.0	.30
18	16	18	222	98	539	908	1,080	208	20	11	5.2	.60
19	13	18	150	104	494	474	693	166	17	11	64	1.2
20	11	18	133	106	294	335	3,300	137	16	8.1	74	1.2
21	9.5	20	221	108	39	272	2,790	117	14	6.4	17	1.0
22	17	24	218	106	43	313	2,620	100	13	5.2	11	1.0
23	172	41	142	108	338	320	1,020	85	11	4.5	8.1	1.0
24	215	51	112	123	1,190	252	592	73	23	11	4.9	17
25	140	29	98	130	869	196	427	64	17	47	3.3	280
26	154	24	88	107	1,050	166	330	56	15	56	2.8	117
27	95	24	83	86	701	155	263	50	12	24	1.9	82
28	62	25	81	72	409	156	221	45	11	21	1.5	57
29	48	42	78	58	331	176	193	40	10	13	2.2	117
30	41	94	371	50	------	255	195	35	11	11	1.8	222
31	31	------	1,180	45	------	231	------	30	------	9.0	1.5	------
TOTAL	1,243.0	774	9,350	9,196	10,772	20,804	44,904	17,161	778	434.1	1,446.3	909.34
MEAN	40.1	25.8	302	297	371	671	1,497	554	25.9	14.0	46.7	30.3
MAX	215	94	1,390	1,650	1,460	4,730	11,000	6,720	79	56	702	280
MIN	8.1	18	46	45	36	155	132	30	10	4.5	1.5	.30
CFSM	.14	.09	1.03	1.01	1.27	2.29	5.11	1.89	.09	.05	.16	.10
IN.	.16	.10	1.19	1.17	1.37	2.64	5.70	2.18	.10	.06	.18	.12

CAL YR 1971 TOTAL 94,232.60 MEAN 258 MAX 9,880 MIN 4.5 CFSM .88 IN 11.96
WTR YR 1972 TOTAL 117,771.74 MEAN 322 MAX 11,000 MIN .30 CFSM 1.10 IN 14.95

PEAK DISCHARGE (BASE, 7,500 CFS).—Apr. 16 (1500) 15,700 cfs (23.06 ft). May 9 (0200) 12,000 cfs (21.35 ft).

03366500 Muscatatuck River near Deputy, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 30...	1205	16.0	40	15	1.6
NOV. 21...	1110	8.0	20	3	.16
DEC. 15...	1420	--	139	42	16
JAN. 05...	1800	1.0	1140	72	222
MAR. 28...	1445	8.0	162	19	8.3
APR. 18...	1005	--	1070	77	222

03366800 Quick Creek Reservoir near Austin, Ind.

LOCATION.—Lat 38°47'29", long 85°42'36", in NW 1/4 NE 1/4 sec.14, T.4 N., R.7 E., Scott County, in intake tower of reservoir on Quick Creek, 4.1 miles upstream from White Oak Branch, and 5.7 miles northeast of Austin.

DRAINAGE AREA.—12.0 sq mi.

PERIOD OF RECORD.—June 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 575.05 ft above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.—Current year: Maximum contents, 14,110 acre-ft Apr. 21 (gage height, 27.64 ft); minimum, 9,480 acre-ft Oct. 13 (gage height, 21.50 ft).
Period of record: Maximum contents, 14,110 acre-ft Apr. 21, 1972 (gage height, 27.64 ft); minimum, 3,380 acre-ft July 8, 1970 (gage height, 9.11 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by a 42-inch diameter pipe. Minimum design capacity is 770 acre-ft (gage height, -5.05 ft). Normal pool capacity is 11,960 acre-ft (gage height, 24.95 ft). Capacity at emergency spillway, 14,760 acre-ft (gage height, 28.45 ft), flood control pool capacity is 20,460 acre-ft (gage height, 34.95 ft). Reservoir used for flood control, recreation, and low-flow augmentation. Reservoir put in operation on June 4, 1970.

Month-end gage height and contents, water year October 1971 to September 1972

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	21.65	9,570	-
Oct. 31	21.68	9,590	+20
Nov. 30	21.60	9,540	-50
Dec. 31	22.11	9,880	+340
Calendar year 1971	-	-	+5,390
Jan. 31	22.63	10,240	+360
Feb. 29	23.55	10,880	+640
Mar. 31	25.24	12,190	+1,310
Apr. 30	26.78	13,420	+1,230
May 31	25.45	12,360	-1,060
June 30	25.00	12,000	-360
July 31	24.91	11,930	-70
Aug. 31	24.85	11,880	-50
Sept. 30	25.20	12,160	+280
Water year 1972	-	-	+2,590

03368000 Brush Creek near Nebraska, Ind.

LOCATION.—Lat 39°04'13", long 85°29'10", in NW 1/4 NE 1/4 sec.11, T.7 N., R.9 E., Jennings County, on right bank at downstream side of county road bridge, 1.5 miles northwest of Nebraska, 2.9 miles northeast of Butlerville, and 3.6 miles upstream from Brush Creek Dam.

DRAINAGE AREA.—11.4 sq mi.

PERIOD OF RECORD.—May 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 717.17 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.—17 years, 12.0 cfs (14.29 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,780 cfs Apr. 16 (gage height, 8.63 ft); no flow July 29 to Aug. 2, Aug. 15 to Sept. 23.

Period of record: Maximum discharge, 3,440 cfs May 24, 1968 (gage height, 11.40 ft), from rating curve extended above 440 cfs on basis of contracted-opening measurement of peak flow at gage height, 9.70 ft; no flow at times most years.

REMARKS.—Records poor.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	1.2	1.6	15	1.4	194	5.4	8.8	1.8	.43	0	0
2	.91	1.2	1.3	10	1.6	194	4.8	8.4	1.2	.34	0	0
3	1.1	1.0	1.2	7.0	2.0	80	6.0	5.7	.93	11	2.6	0
4	.91	.91	1.1	11	2.3	35	17	5.0	.76	1.2	2.9	0
5	.91	.75	1.0	16	1.9	22	13	4.5	.68	.68	.26	0
6	.83	.83	25	10	1.6	15	8.4	3.8	.60	.43	.10	0
7	.83	1.0	47	6.4	1.4	13	250	3.7	.68	.34	.18	0
8	.68	.75	11	4.2	1.3	19	140	63	.51	.26	.18	0
9	.83	.75	4.9	17	1.2	13	50	41	3.7	.21	.16	0
10	.83	.91	4.0	33	1.0	10	22	13	2.1	4.2	.13	0
11	.83	.83	8.0	17	1.3	8.7	15	9.0	.85	1.6	.13	0
12	.68	.75	6.0	9.0	1.6	7.5	40	6.7	.60	3.7	.13	0
13	.83	.75	3.0	6.0	2.4	7.0	110	36	.51	.76	.16	0
14	1.4	.68	14	3.5	10	7.9	62	33	.60	.43	.05	0
15	1.4	.68	80	2.4	37	6.9	38	21	.85	.85	0	0
16	3.5	.61	20	1.6	21	70	470	16	1.0	2.1	0	0
17	.91	.61	12	2.2	8.2	45	70	9.7	.76	.68	0	0
18	.91	.68	7.0	2.7	12	23	32	7.4	.60	.51	0	0
19	.91	1.2	4.0	3.0	7.2	15	21	6.0	.43	.23	0	0
20	1.1	1.0	5.0	3.1	6.2	11	60	5.0	.26	.16	0	0
21	1.3	.91	7.0	3.1	7.3	9.0	140	4.0	1.8	.13	0	0
22	67	.68	4.8	3.2	10	11	86	3.3	.68	.13	0	0
23	8.7	.61	4.0	3.3	7.5	12	46	2.8	.43	.13	0	0
24	5.5	.75	3.4	3.4	16	9.4	25	2.1	.43	.51	0	.16
25	4.1	.68	3.0	3.2	15	7.9	16	1.9	.34	2.4	0	2.0
26	2.7	.75	2.7	2.7	34	7.1	12	1.5	.26	.68	0	1.6
27	2.2	1.2	2.5	2.2	16	6.8	10	1.2	.23	.23	0	1.1
28	1.9	1.4	2.4	1.8	16	6.6	8.6	1.0	6.7	.16	0	.34
29	1.5	2.1	2.4	1.6	16	6.8	7.0	.93	2.3	.05	0	.34
30	1.5	2.2	230	1.4	------	6.6	8.0	5.7	.68	0	0	.93
31	1.3	------	70	1.2	------	6.0	------	3.5	------	0	0	------
TOTAL	118.68	28.37	589.3	207.2	260.4	886.2	1,793.2	334.63	33.27	34.53	6.98	6.47
MEAN	3.83	.95	19.0	6.68	8.98	28.6	59.8	10.8	1.11	1.11	.23	.22
MAX	67	2.2	230	33	37	194	470	63	6.7	11	2.9	2.0
MIN	.68	.61	1.0	1.2	1.0	6.0	4.8	.93	.23	0	0	0
CFSM	.34	.08	1.67	.59	.79	2.51	5.25	.95	.10	.10	.02	.02
IN.	.39	.09	1.92	.68	.85	2.89	5.85	1.09	.11	.11	.02	.02

CAL YR 1971 TOTAL 3,266.12 MEAN 8.95 MAX 507 MIN 0 CFSM .79 IN 10.66
WTR YR 1972 TOTAL 4,299.23 MEAN 11.7 MAX 470 MIN 0 CFSM 1.03 IN 14.03

PEAK DISCHARGE (BASE, 950 CFS).—Apr. 16 (unknown) 1,780 cfs (8.63 ft).

NOTE.—No gage-height record Dec. 10 to Feb. 24, Mar. 17 to May 1.

03368400 Brush Creek Reservoir near Butlerville, Ind.

LOCATION.—Lat 39°03'37", long 85°31'29", in NW 1/4 NE 1/4 sec.16, T.7 N., R.9 E., Jennings County, at dam at Muscatatuck State School, 1.5 miles northwest of Butlerville.

DRAINAGE AREA.—14.3 sq mi.

PERIOD OF RECORD.—November 1953 to September 1972 (discontinued).

GAGE.—Water-stage recorder. Datum of gage is 680.00 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 2,593 acre-ft Apr. 16 (gage height, 37.69 ft); minimum, 1,439 acre-ft Sept. 23, 24 (gage height, 31.23 ft).
Period of record: Maximum contents, 3,830 acre-ft Jan. 21, 1959 (gage height, 42.66 ft); minimum since reaching minimum pool elevation of 714.66 ft, 1,193 acre-ft Nov. 24, 1964 (gage height, 29.58 ft).

REMARKS.—Reservoir is formed by earth-fill dam. Releases normally controlled by a 24-inch diameter gate in gate well of 24-inch concrete pipe. Capacity at uncontrolled spillway elevation (35.0 ft) is 2,080 acre-ft. Reservoir is used for recreation and low-flow augmentation for Muscatatuck State School and city of North Vernon. Reservoir was put in operation on Nov. 13, 1953.

COOPERATION.—Capacity tables furnished by Indiana Department of Natural Resources.

Month-end gage height and contents, water year October 1971 to September 1972

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	35.06	2,091	-
Oct. 31	35.11	2,100	+9
Nov. 30	34.98	2,076	-24
Dec. 31	35.54	2,178	+102
Calendar year 1971	-	-	+71
Jan. 31	35.12	2,102	-76
Feb. 29	35.32	2,138	+36
Mar. 31	35.22	2,120	-18
Apr. 30	35.21	2,118	-2
May 31	35.05	2,089	-29
June 30	34.64	2,015	-74
July 31	34.45	1,981	-34
Aug. 31	32.48	1,639	-342
Sept. 30	31.67	1,509	-130
Water year 1972	-	-	-582

03369000 Vernon Fork near Butlerville, Ind.

LOCATION.—Lat 39°02'55", long 85°32'40", in NW 1/4 SE 1/4 sec.17, T.7 N., R.9 E., Jennings County, on left bank 0.3 mile downstream from Muscatatuck State School dam, 1.2 miles downstream from Brush Creek, and 2 miles northwest of Butlerville.

DRAINAGE AREA.—85.9 sq mi.

PERIOD OF RECORD.—February 1942 to current year. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 669.40 ft above mean sea level. Prior to Aug. 19, 1942, non-recording gage at same site and datum.

AVERAGE DISCHARGE.—30 years, 90.6 cfs (14.32 inches per year).

EXTREMES.—Current year: Maximum discharge, 6,130 cfs Apr. 16 (gage height, 13.60 ft); minimum daily, 0.26 cfs Sept. 7.
Period of record: Maximum discharge, 26,200 cfs Jan. 21, 1959 (gage height, 25.41 ft), from rating curve extended above 10,000 cfs on basis of slope-area measurement of peak flow; no flow at times most years.

REMARKS.—Records good. Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir (See sta 03368400).

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	11	27	131	19	790	34	59	22	13	1.4	1.9
2	6.8	9.7	19	129	23	1,690	33	56	15	7.7	37	1.4
3	5.2	8.8	16	103	28	352	33	45	11	66	37	1.2
4	3.9	8.0	14	153	29	220	116	39	9.1	27	9.1	.76
5	3.2	7.3	13	205	23	156	81	36	7.7	13	3.1	.42
6	2.5	7.8	71	107	21	95	58	33	7.2	8.0	2.3	.42
7	1.9	7.8	355	81	18	83	1,600	30	5.4	5.9	2.3	.26
8	1.7	7.0	238	68	16	107	730	103	9.1	4.0	1.7	.58
9	1.9	6.5	118	376	14	73	185	565	65	3.3	1.7	.42
10	1.7	6.0	70	256	13	59	114	148	42	220	7.2	.42
11	1.7	7.5	97	143	12	52	97	87	17	64	17	.36
12	1.5	6.5	54	97	14	49	310	63	9.4	25	1.7	.42
13	2.1	6.3	42	80	27	47	665	123	8.6	16	1.6	.36
14	2.5	6.0	244	45	63	50	286	235	12	11	1.9	.76
15	7.3	5.8	538	35	292	46	313	143	23	12	2.0	.76
16	15	5.6	226	25	148	430	2,970	123	64	60	33	.66
17	14	5.4	105	29	101	346	442	84	28	22	35	.58
18	8.5	5.4	68	34	127	156	190	61	15	12	.86	.66
19	6.4	6.5	51	39	83	99	138	48	10	8.3	.86	.58
20	8.3	6.5	58	38	55	73	506	40	8.0	5.9	2.2	22
21	8.0	11	70	39	55	61	935	33	125	4.7	12	45
22	205	9.1	52	39	80	69	650	28	38	3.3	5.4	1.2
23	133	7.8	41	42	60	69	229	24	21	2.5	2.9	1.6
24	63	7.8	38	41	80	52	146	20	14	4.2	2.0	32
25	78	7.3	34	38	80	45	105	16	11	3.3	2.0	168
26	46	7.3	33	32	168	41	80	14	8.8	3.5	2.2	28
27	32	8.3	32	29	101	41	66	12	7.2	5.2	2.0	31
28	24	9.4	31	23	89	40	55	10	7.7	2.5	2.2	30
29	19	18	30	20	87	39	50	9.1	8.8	2.3	2.2	15
30	16	28	1,470	17	------	41	57	27	9.4	1.9	2.2	42
31	12	------	298	16	------	36	------	38	------	1.9	2.0	------
TOTAL	740.1	255.4	4,553	2,510	1,926	5,507	11,274	2,352.1	639.4	639.4	236.02	428.72
MEAN	23.9	8.51	147	81.0	66.4	178	376	75.9	21.3	20.6	7.61	14.3
MAX	205	28	1,470	376	292	1,690	2,970	565	125	220	37	168
MIN	1.5	5.4	13	16	12	36	33	9.1	5.4	1.9	.86	.26
CFSM	.28	.10	1.71	.94	.77	2.07	4.38	.88	.25	.24	.09	.17
IN.	.32	.11	1.97	1.09	.83	2.38	4.88	1.02	.28	.28	.10	.19

CAL YR 1971 TOTAL 23,846.02 MEAN 65.3 MAX 3,010 MIN .92 CFSM .76 IN 10.33
WTR YR 1972 TOTAL 31,061.14 MEAN 84.9 MAX 2,970 MIN .26 CFSM .99 IN 13.45

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1500	11.00	4,300	04-16	1100	13.60	6,130
04-07	2100	12.36	5,250				

03369500 Vernon Fork at Vernon, Ind.

LOCATION.—Lat 38°58'34", long 85°37'13", in NW 1/4 SE 1/4 sec.10, T.6 N., R.8 E., Jennings County, at downstream end of left bank bridge pier, 1 mile southwest of Vernon, and 3.1 miles downstream from South Fork Vernon Fork.

DRAINAGE AREA.—198 sq mi.

PERIOD OF RECORD.—October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder. Datum of gage is 587.30 ft above mean sea level, supplementary adjustment of 1944 (levels by Indiana Flood Control and Water Resources Commission). Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank at same datum.

AVERAGE DISCHARGE.—33 years, 212 cfs (14.53 inches per year).

EXTREMES.—Current year: Maximum discharge, 11,700 cfs Apr. 16 (gage height, 16.74 ft); minimum daily, 0.50 cfs Sept. 6, 12. Period of record: Maximum discharge, 56,800 cfs Jan. 21, 1959, from rating curve extended above 24,000 cfs on basis of slope-area measurement of peak flow (gage height, 32.83 ft from high-water mark). No flow at times in 1940, 1943-44.

REMARKS.—Records good. 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.

REVISIONS (WATER YEARS).—WSP 1335: 1940, 1953. WSP 1909: 1952-53. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	32	81	299	32	745	89	153	71	12	5.3	1.4
2	19	31	58	246	34	3,850	81	155	42	12	5.1	1.6
3	15	29	45	263	46	1,000	79	123	31	55	7.3	1.9
4	13	25	38	299	55	543	467	98	25	92	437	1.5
5	12	23	34	617	50	374	283	83	21	51	103	.72
6	9.8	23	111	263	39	240	184	73	19	22	32	.50
7	8.7	27	1,100	192	34	203	1,390	65	20	13	20	.72
8	7.7	25	733	157	30	256	2,390	1,130	16	8.8	14	2.6
9	7.5	23	317	962	26	199	445	1,700	19	6.2	11	4.4
10	7.1	24	195	824	24	148	260	408	127	95	8.2	2.9
11	7.0	25	254	379	23	127	218	229	74	295	6.9	1.5
12	7.4	25	171	247	28	119	864	165	39	125	13	.50
13	7.7	24	118	194	45	117	2,960	290	25	46	9.3	.83
14	9.7	23	98	130	108	127	1,030	648	25	27	5.8	1.9
15	11	22	683	80	753	120	1,340	320	25	19	4.6	2.1
16	58	21	802	50	499	1,390	6,370	270	63	67	4.1	2.2
17	40	20	256	60	275	1,220	1,260	200	77	75	31	1.9
18	25	19	163	61	312	449	487	143	35	31	35	1.8
19	17	21	121	73	230	265	308	118	25	19	9.1	.85
20	13	25	130	84	134	195	1,460	95	17	14	4.9	1.3
21	11	27	170	85	136	161	1,690	80	110	12	3.1	1.6
22	408	28	135	81	173	162	1,720	70	167	10	2.7	4.4
23	504	27	102	88	177	181	544	60	61	8.2	4.6	11
24	193	24	87	97	320	136	321	50	28	8.6	6.4	6.9
25	180	23	79	88	259	114	233	45	19	39	4.6	190
26	137	22	74	66	405	104	179	38	15	12	3.6	85
27	94	26	71	52	274	100	145	32	12	10	2.9	52
28	69	36	71	43	206	104	124	27	11	12	2.2	42
29	54	48	64	37	196	108	109	24	14	11	1.5	40
30	45	91	1,950	33	------	129	124	30	13	7.7	1.6	32
31	37	------	931	30	------	105	------	89	------	6.2	1.5	------
TOTAL	2,052.6	839	9,242	6,180	4,923	13,091	27,154	7,011	1,246	1,221.7	801.3	498.02
MEAN	66.2	28.0	298	199	170	422	905	226	41.5	39.4	25.8	16.6
MAX	504	91	1,950	962	753	3,850	6,370	1,700	167	295	437	190
MIN	7.0	19	34	30	23	100	79	24	11	6.2	1.5	.50
CFSM	.33	.14	1.51	1.01	.86	2.13	4.57	1.14	.21	.20	.13	.08
IN.	.39	.16	1.74	1.16	.92	2.46	5.10	1.32	.23	.23	.15	.09

CAL YR 1971 TOTAL 60,985.30 MEAN 167 MAX 6,420 MIN 1.6 CFSM .84 IN 11.46
WTR YR 1972 TOTAL 74,259.62 MEAN 203 MAX 6,370 MIN .50 CFSM 1.03 IN 13.95

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0230	11.80	6,200	04-16	1445	16.74	11,700
04-08	0100	13.21	7,610				

03371500 East Fork White River near Bedford, Ind.

LOCATION.—Lat 38°46'10", long 86°24'30", in SW 1/4 NE 1/4 sec.21, T.4 N., R.1 E., Lawrence County, on downstream side of center pier of bridge on county road, 0.4 mile upstream from Mill Creek, 2.9 miles downstream from Sugar Creek, 3.9 miles northeast of Mitchell, and 7.8 miles southeast of Bedford.

DRAINAGE AREA.—3,861 sq mi.

PERIOD OF RECORD.—May 1939 to current year (high-water records only October 1943 to September 1957).

GAGE.—Water-stage recorder. Datum of gage is 473.59 ft above mean sea level. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940, to Sept. 24, 1957, water-stage recorder, at site 9.7 miles downstream at datum 4.39 ft lower (now used as an auxiliary gage).

EXTREMES.—Current year: Maximum discharge, 34,000 cfs Apr. 19 (gage height, 26.19 ft); maximum gage height, 26.35 ft Apr. 19; minimum daily discharge, 409 cfs Sept. 23.
Period of record: Maximum discharge, 75,700 cfs Mar. 12, 1964; maximum gage height, 35.97 ft May 11, 1961; minimum daily discharge, 138 cfs Sept. 7, 1941.
Flood in March 1913 reached a stage of 47.5 ft, from floodmark determined by Corps of Engineers (discharge, 155,000 cfs) at former site.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

CORRECTION.—AVERAGE DISCHARGE for 18 years was published in error in WRD Ind. 1971. It should read.—18 years (1939-43, 1957-71), 3,529 cfs (11.19 inches per year).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	820	800	597	5,350	1,680	3,940	2,850	5,190	1,950	1,370	779	471
2	761	739	641	7,080	1,650	5,610	2,660	4,840	2,430	1,340	759	462
3	691	695	720	7,320	1,650	8,200	2,460	4,580	2,640	1,600	738	465
4	638	670	763	6,460	1,640	9,150	2,410	4,210	2,450	1,510	1,720	472
5	584	635	737	5,820	1,820	1,700	2,610	3,810	2,150	1,440	2,400	482
6	551	626	731	5,820	1,720	1,550	3,140	3,460	1,930	1,350	2,240	485
7	525	619	831	5,980	1,730	1,500	3,290	3,180	1,760	1,270	1,480	481
8	506	607	1,210	5,280	1,710	1,450	4,280	3,020	1,640	1,200	1,070	530
9	493	594	2,650	4,560	1,660	1,400	6,390	4,550	1,670	1,120	895	511
10	485	583	3,630	4,750	1,530	1,350	8,620	6,550	1,690	1,060	810	493
11	479	578	3,370	5,870	1,390	1,300	10,300	7,670	1,580	1,020	761	473
12	472	571	2,790	6,520	1,290	4,590	12,400	8,370	1,540	1,370	728	460
13	468	561	2,490	6,150	1,310	4,040	12,900	8,840	1,510	1,480	700	449
14	472	553	2,270	5,000	1,470	3,810	13,300	8,540	1,480	1,280	670	448
15	478	545	2,090	4,140	2,080	3,790	14,200	7,960	1,460	1,110	643	441
16	501	539	2,760	3,300	3,390	5,370	16,900	7,950	1,450	1,030	624	433
17	505	529	4,840	2,700	4,810	7,420	19,600	7,810	2,000	1,030	611	427
18	510	524	6,250	2,400	5,270	8,200	22,600	7,130	3,220	1,080	598	425
19	518	529	6,550	2,380	4,620	8,320	32,500	6,280	3,920	1,050	585	422
20	523	522	6,270	2,410	3,930	7,900	31,000	5,260	3,580	1,020	574	417
21	513	523	5,110	2,430	3,390	7,020	26,300	4,370	2,910	964	561	413
22	529	520	4,010	2,400	2,880	5,380	23,000	3,730	2,440	910	641	412
23	548	521	3,510	2,340	2,660	4,140	21,400	3,300	2,480	857	652	409
24	700	534	3,160	2,320	3,150	3,760	21,600	2,950	2,380	823	592	426
25	1,080	536	2,810	2,370	3,970	3,490	21,600	2,690	2,080	900	563	476
26	1,130	536	2,560	2,390	4,540	3,170	20,100	2,460	1,820	931	541	669
27	1,050	556	2,360	2,350	4,770	2,900	16,600	2,270	1,650	880	525	815
28	1,070	559	2,200	2,220	4,850	2,730	12,500	2,110	1,560	850	513	863
29	1,050	572	2,080	2,050	4,450	2,710	9,280	1,970	1,650	855	502	911
30	950	583	2,300	1,920	------	2,880	6,460	1,890	1,510	826	490	1,030
31	860	------	3,210	1,700	------	2,920	------	1,830	------	813	480	------
TOTAL	20,460	17,459	85,500	123,780	81,010	131,690	403,250	148,770	62,530	34,339	25,445	15,671
MEAN	660	582	2,758	3,993	2,793	4,248	13,440	4,799	2,084	1,108	821	522
MAX	1,130	800	6,550	7,320	5,270	9,150	32,500	8,840	3,920	1,600	2,400	1,030
MIN	468	520	597	1,700	1,290	1,300	2,410	1,830	1,450	813	480	409
CFSM	.17	.15	.71	1.03	.72	1.10	3.48	1.24	.54	.29	.21	.14
IN.	.20	.17	.82	1.19	.78	1.27	3.89	1.43	.60	.33	.25	.15

CAL YR 1971 TOTAL 1,071,246 MEAN 2,935 MAX 36,300 MIN 468 CFSM .76 IN 10.32
WTR YR 1972 TOTAL 1,149,904 MEAN 3,142 MAX 32,500 MIN 409 CFSM .81 IN 11.08

PEAK DISCHARGE (BASE, 13,000 CFS).—Apr. 19 (1600) 34,000 cfs (26.35 ft at 2200 Apr. 19).

03371520 Back Creek at Leesville, Ind.

LOCATION.—Lat 38°50'48", long 86°18'06", in SW 1/4 SE 1/4 sec.21, T.5 N., R.2 E., Lawrence County, on left bank at downstream side of county road bridge, 0.9 mile west of Leesville, 2.5 miles upstream from Jones Defeat Hollow and 7 miles from mouth.

DRAINAGE AREA.—24.1 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 575.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 3,010 cfs Aug. 3 (gage height, 8.28 ft); minimum daily, 0.09 cfs Sept. 7.
Period of record: Maximum discharge, 3,010 cfs Aug. 3, 1972 (gage height, 8.28 ft); no flow for many days in October 1970 and July 1971.
Flood in 1913 reached a stage of 18.1 ft (information by local resident).

REMARKS.—Records good.

REVISIONS.—Revised figures of discharge, in cubic feet per second, for the Water Year 1971, superseding those published in WRD Ind. 1971, are given herein:

Sept. 21, 1971.....	4.4	Sept. 26.....	17
Sept. 22.....	2.3	Sept. 27.....	4.4
Sept. 23.....	1.8	Sept. 28.....	3.0
Sept. 24.....	1.4	Sept. 29.....	2.5
Sept. 25.....	1.6	Sept. 30.....	2.1

Month	Cfs-days	Maximum	Minimum	Mean	Per Square Mile	Runoff in Inches
September 1971	91.38	29	0.16	3.05	0.13	0.14
Water Year 1971	6,381.91	560	0	17.5	.73	9.85

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.8	2.7	25	4.5	74	26	22	3.4	2.7	.40	.24
2	1.8	1.6	2.3	26	6.0	255	24	20	2.7	34	.31	.18
3	1.6	1.4	2.1	21	9.0	104	24	17	63	128	195	.24
4	1.2	1.2	1.9	29	7.0	72	52	15	26	18	177	.24
5	.85	1.0	1.8	38	3.2	55	42	12	9.3	10	57	.18
6	.50	1.2	4.4	32	3.5	45	38	10	5.4	5.4	38	.13
7	.40	1.4	36	26	4.5	41	78	9.3	3.8	3.8	29	.09
8	.40	1.2	28	22	4.0	38	70	19	3.0	2.7	20	15
9	.50	1.2	19	50	3.5	32	52	17	2.4	2.1	17	2.1
10	.50	1.2	18	52	3.0	29	44	12	2.1	1.6	12	.94
11	.40	1.2	18	44	3.0	26	42	9.3	1.8	1.3	8.4	.51
12	.32	1.2	12	36	3.2	25	420	7.6	1.6	1.1	6.8	.51
13	.32	1.2	9.6	32	8.2	38	412	84	1.3	.94	4.8	.51
14	.60	1.2	11	20	28	45	553	73	1.8	.77	3.8	.51
15	.85	1.0	55	13	59	42	549	44	9.3	.63	3.0	.51
16	1.6	1.0	42	5.0	45	234	925	33	13	.94	2.7	.40
17	1.5	1.0	28	7.0	36	140	266	24	3.8	1.1	2.1	.40
18	1.5	1.0	19	9.0	35	68	149	19	2.7	.94	1.8	.31
19	1.3	1.2	17	10	28	50	118	15	2.1	.63	1.6	.31
20	1.3	1.2	19	11	24	42	386	11	1.8	.51	1.3	.31
21	1.3	1.6	15	10	21	38	334	8.4	1.3	.51	1.1	.31
22	14	1.4	11	15	21	39	237	6.8	.94	.40	1.3	.31
23	9.6	1.3	8.2	25	28	33	131	4.8	.63	.31	1.1	.24
24	5.0	1.5	8.2	15	47	29	86	4.3	.51	160	1.1	9.3
25	4.4	1.5	6.0	12	41	26	63	3.4	.51	27	.94	14
26	3.4	1.5	6.0	9.0	49	24	48	2.7	.51	4.8	.94	9.3
27	2.7	2.1	6.0	7.0	41	24	38	2.4	.40	3.4	.77	7.6
28	2.5	2.5	4.4	6.0	36	22	31	1.8	77	1.6	.63	3.8
29	2.3	3.8	3.4	5.0	32	31	27	1.8	19	1.1	.51	53
30	2.1	3.8	38	4.0	------	32	24	6.8	4.8	.63	.40	39
31	1.9	------	35	3.5	------	29	------	6.8	------	.51	.31	------
TOTAL	68.54	45.4	488.0	619.5	633.6	1,782	5,289	523.2	265.90	417.42	591.11	160.48
MEAN	2.21	1.51	15.7	20.0	21.8	57.5	176	16.9	8.86	13.5	19.1	5.35
MAX	14	3.8	55	52	59	255	925	84	77	160	195	53
MIN	.32	1.0	1.8	3.5	3.0	22	24	1.8	.40	.31	.31	.09
CFSM	.09	.06	.65	.83	.90	2.39	7.30	.70	.37	.56	.79	.22
IN.	.11	.07	.75	.96	.98	2.75	8.16	.81	.41	.64	.91	.25

CAL YR 1971 TOTAL 6,290.06 MEAN 17.2 MAX 560 MIN 0 CFSM .71 IN 9.71
WTR YR 1972 TOTAL 10,884.15 MEAN 29.7 MAX 925 MIN .09 CFSM 1.23 IN 16.80

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
03-02	0815	4.51	585	04-20	0800	5.03	945
03-16	0230	4.38	520	06-03	1930	4.74	800
04-12	0345	5.44	1,110	07-24	1515	4.89	875
04-13	2345	6.37	1,760	08-03	2130	8.28	3,010
04-16	0445	7.81	2,580				

03371650 North Fork Salt Creek at Nashville, Ind.

LOCATION.—Lat 39°12'06", long 86°14'51", in NW 1/4 SW 1/4 sec.19, T.9 N., R.3 E., Brown County, on right bank 90 ft downstream from bridge on State Highway 46, 800 ft downstream from Greasy Creek, and 0.4 mile south of center of Nashville.

DRAINAGE AREA.—76.1 sq mi.

PERIOD OF RECORD.—July 1962 to current year.

GAGE.—Water-stage recorder. Datum of gage is 579.58 ft above mean sea level. Prior to Sept. 16, 1964, nonrecording gage at site 90 ft upstream at same datum.

AVERAGE DISCHARGE.—10 years, 71.2 cfs (12.70 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,160 cfs Apr. 16 (gage height, 13.96 ft); no flow Sept. 2, 18-23.
Period of record: Maximum discharge, 7,500 cfs Mar. 4, 1963; maximum gage height, 16.00 ft May 24, 1968; no flow at times most years.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	3.2	4.2	95	19	420	57	65	14	5.2	.85	.02
2	3.7	3.0	4.2	80	20	1,160	52	59	11	5.8	.90	0
3	2.7	2.9	3.7	66	22	370	49	50	8.3	18	1.1	.40
4	2.4	2.7	3.7	60	19	213	69	45	7.5	13	1.2	.21
5	2.7	2.6	3.7	76	17	150	64	41	6.1	7.9	1.0	.21
6	10	2.7	5.2	64	19	115	61	35	5.8	6.1	1.2	.17
7	3.2	2.9	51	54	18	102	1,460	32	5.2	4.7	1.2	.13
8	2.2	2.9	59	48	15	87	680	70	4.4	3.7	1.1	.40
9	2.1	3.0	32	71	15	64	270	210	4.4	3.2	.85	.21
10	1.9	2.9	28	98	12	57	184	114	4.4	3.5	.80	.17
11	1.8	2.9	40	79	13	50	154	85	3.7	3.5	.70	.13
12	1.8	2.9	32	64	14	51	416	68	3.5	2.9	.60	.13
13	1.9	2.7	25	50	18	55	384	360	3.5	2.4	.60	.13
14	1.9	2.6	301	40	24	60	281	444	4.4	2.1	.50	.25
15	1.9	2.6	324	31	68	54	274	316	61	2.4	.50	.17
16	2.1	2.7	166	21	76	99	2,910	249	81	2.9	.50	.13
17	2.4	5.2	90	22	70	118	488	156	32	2.4	.45	.05
18	2.6	4.4	74	27	64	98	263	105	21	2.2	.45	0
19	2.4	3.7	43	32	56	75	190	77	15	1.9	.50	0
20	3.5	10	42	29	48	61	322	56	11	1.7	.50	0
21	6.1	3.5	39	30	46	59	568	43	10	1.6	.50	0
22	15	2.4	32	38	46	64	665	36	8.3	1.4	.45	0
23	21	2.2	28	51	44	56	312	28	6.1	1.3	.40	0
24	12	2.2	26	49	63	48	204	22	5.5	1.7	.30	2.6
25	7.9	2.2	23	42	65	43	150	18	4.9	1.6	.25	3.9
26	6.1	2.2	22	35	135	39	115	15	4.4	1.3	.25	3.2
27	4.7	2.7	21	31	129	43	95	13	3.9	1.2	.17	2.2
28	12	2.7	21	30	108	43	79	10	9.2	1.2	.13	1.5
29	6.1	3.7	19	27	97	53	70	8.8	11	1.1	.13	16
30	3.7	3.9	274	23	------	69	65	19	6.5	.95	.05	24
31	3.4	------	171	18	------	61	------	22	------	.90	.02	------
TOTAL	163.2	96.2	2,007.7	1,481	1,360	4,037	10,951	2,871.8	377.0	109.75	18.15	56.31
MEAN	5.26	3.21	64.8	47.8	46.9	130	365	92.6	12.6	3.54	.59	1.88
MAX	21	10	324	98	135	1,160	2,910	444	81	18	1.2	24
MIN	1.8	2.2	3.7	18	12	39	49	8.8	3.5	.90	.02	0
CFSM	.07	.04	.85	.63	.62	1.71	4.80	1.22	.17	.05	.008	.02
IN.	.08	.05	.98	.72	.66	1.97	5.35	1.40	.18	.05	.008	.03

CAL YR 1971 TOTAL 21,606.03 MEAN 59.2 MAX 2,050 MIN .44 CFSM .78 IN 10.56
WTR YR 1972 TOTAL 23,529.11 MEAN 64.3 MAX 2,910 MIN 0 CFSM .84 IN 11.50

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	1100	9.44	1,880	04-16	1000	13.96	5,160
04-07	2000	12.60	3,890				

03372300 Stephens Creek near Bloomington, Ind.

LOCATION.—Lat 39°10'11", long 86°25'07", in NE 1/4 NW 1/4 sec.4, T.8 N., R.1 E., Monroe County, on downstream side of right pier of bridge on State Highway 46, 0.2 mile downstream from Kerr Creek, 4.0 miles west of Belmont, and 6.1 miles east of Bloomington.

DRAINAGE AREA.—10.9 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 550.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 691 cfs Apr. 16 (gage height, 10.54 ft); no flow Oct. 1-3, 5-8, 12.
Period of record: Maximum discharge, 691 cfs Apr. 16, 1972 (gage height, 10.54 ft); no flow at times each year.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.49	2.3	19	2.9	59	8.9	8.3	.98	1.3	.49	.03
2	0	.40	2.0	16	3.0	191	7.7	7.1	.88	2.6	.18	.03
3	0	.40	1.6	12	3.3	63	7.4	6.1	1.6	6.5	.25	4.0
4	.13	.32	1.3	14	3.0	36	10	5.2	1.6	3.9	.40	.70
5	0	.32	.98	13	2.8	23	8.9	4.8	.88	3.3	.25	.39
6	0	.40	2.3	12	2.7	17	9.2	4.2	.78	2.6	.58	.25
7	0	.40	58	10	3.2	15	118	3.9	.68	2.0	.68	.25
8	0	.32	18	8.6	3.0	12	75	5.5	.58	1.7	.58	7.1
9	.04	.32	11	15	2.5	9.5	37	6.3	.78	1.5	.40	2.2
10	.04	.32	11	16	2.0	8.0	25	5.0	.58	1.5	.32	1.2
11	.01	.32	13	14	2.3	7.1	19	4.4	.49	1.1	.32	.88
12	0	.25	10	11	2.8	6.5	118	3.9	.40	.88	.58	.58
13	.02	.25	7.4	9.8	4.4	6.3	66	19	2.0	.78	.49	.40
14	.10	.25	73	6.8	7.1	5.7	43	19	3.9	.68	.32	.68
15	.04	.25	70	5.6	13	5.2	30	15	64	.78	.18	.68
16	.02	.25	32	4.5	13	6.8	242	13	19	.88	.18	.49
17	.02	.25	18	3.5	11	7.4	67	9.5	8.0	.78	.13	.49
18	.03	.25	13	4.0	10	6.5	38	7.1	4.6	.68	.10	.40
19	.04	.32	10	4.6	9.0	5.7	29	5.2	3.1	.49	.10	.49
20	.04	.40	11	4.5	8.0	5.2	56	4.2	3.0	.40	.08	.49
21	.06	.40	8.9	4.4	7.6	5.2	100	3.3	2.8	.40	.08	.49
22	4.0	.40	7.1	5.5	7.7	6.3	108	2.6	1.9	.32	.04	.58
23	3.0	.40	6.1	5.7	8.3	5.7	49	1.9	1.5	.40	.04	.49
24	2.2	.49	5.5	5.7	12	5.0	31	1.6	1.2	1.2	.20	5.0
25	1.6	.40	4.8	5.5	13	4.6	22	1.3	.88	1.2	.10	6.1
26	1.3	.40	4.4	5.0	24	4.2	17	1.2	.68	.68	.10	6.8
27	.98	.78	4.2	4.6	22	4.6	14	.98	.58	1.1	.10	5.0
28	.88	1.1	3.9	4.6	19	4.6	12	.88	2.2	.78	.10	4.0
29	.78	2.3	3.7	4.2	17	8.0	11	.88	2.5	.58	.10	74
30	.68	3.0	64	3.7	------	9.8	9.5	1.5	2.0	.40	.10	27
31	.58	------	31	3.2	------	9.5	------	1.5	------	.25	.04	------
TOTAL	16.59	16.15	509.48	256.0	239.6	563.4	1,388.6	174.34	134.07	41.66	7.61	151.19
MEAN	.54	.54	16.4	8.26	8.26	18.2	46.3	5.62	4.47	1.34	.25	5.04
MAX	4.0	3.0	73	19	24	191	242	19	64	6.5	.68	74
MIN	0	.25	.98	3.2	2.0	4.2	7.4	.88	.40	.25	.04	.03
CFSM	.05	.05	1.50	.76	.76	1.67	4.25	.52	.41	.12	.02	.46
IN.	.06	.06	1.74	.87	.82	1.92	4.74	.59	.46	.14	.03	.52

CAL YR 1971 TOTAL 3,438.23 MEAN 9.42 MAX 242 MIN 0 CFSM .86 IN 11.73
WTR YR 1972 TOTAL 3,498.69 MEAN 9.56 MAX 242 MIN 0 CFSM .88 IN 11.94

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-07	0745	6.87	251	04-12	0615	6.55	216
12-14	1030	7.33	301	04-16	0415	10.54	691
12-30	0915	6.05	164	04-21	1945	6.36	195
03-02	0645	8.37	416	06-15	1415	7.34	302
04-07	1515	8.72	456	09-29	0900	8.51	431

03372400 Monroe Lake near Harrodsburg, Ind.

LOCATION.—Lat 39°00'24", long 86°30'56", in SW 1/4 SW 1/4 sec.27, T.7 N., R.1 W., Monroe County, in discharge tower of reservoir on Salt Creek, 1.1 miles upstream from Clear Creek, 2.2 miles southeast of Harrodsburg, and 25.9 miles upstream from mouth.

DRAINAGE AREA.—432 sq mi.

PERIOD OF RECORD.—April 1966 to current year. Prior to September 1970 published as Monroe "Reservoir".

GAGE.—Water-stage recorder. Datum of gage is 500.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.—Current year: Maximum contents, 301,000 acre-ft Apr. 26 (elevation, 547.45 ft); minimum, 158,300 acre-ft Dec. 10 (elevation, 535.68 ft).
Period of record: Maximum contents, 318,200 acre-ft Feb. 10, 1969 (elevation, 548.62 ft); minimum, 149,500 acre-ft Nov. 7, 1966 (elevation, 534.77 ft).

REMARKS.—Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 3.75 ft wide and 12.0 ft high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 22,300 acre-ft (elevation, 515 ft). Capacity at uncontrolled spillway elevation (556 ft) is 446,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 26, 1966.

COOPERATION.—Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	537.21	173,900	-
Oct. 31	536.28	164,300	-9,600
Nov. 30	535.86	160,100	-4,200
Dec. 31	538.11	183,400	+23,300
Calendar year 1971	-	-	+100
Jan. 31	538.01	182,400	-1,000
Feb. 29	538.22	184,600	+2,200
Mar. 31	538.13	183,700	-900
Apr. 30	546.85	292,400	+108,700
May 31	538.80	191,000	-101,400
June 30	538.00	182,200	-8,800
July 31	537.78	179,900	-2,300
Aug. 31	537.34	175,200	-4,700
Sept. 30	537.33	175,100	-100
Water year 1972	-	-	+1,200

03372500 Salt Creek near Harrodsburg, Ind.

LOCATION.—Lat 39°00'16", long 86°30'31", in NE 1/4 NW 1/4 sec.34, T.7 N., R.1 W., Monroe County, on right bank 1,300 ft downstream from Monroe Lake, 0.9 mile upstream from Clear Creek, 2.2 miles southeast of Harrodsburg, and 25.1 miles upstream from mouth.

DRAINAGE AREA.—432 sq mi.

PERIOD OF RECORD.—May 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 480.00 ft above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1960, nonrecording gage at site 3,500 ft upstream at datum 2.41 ft higher.

AVERAGE DISCHARGE.—17 years, 461 cfs (14.48 inches per year).

EXTREMES.—Current year: Maximum daily discharge, 2,360 cfs May 24; maximum gage height, 23.26 ft Apr. 16 (backwater from Clear Creek); minimum daily discharge, 45 cfs Nov. 13 to Dec. 7.
Period of record: Maximum discharge, 22,000 cfs June 25, 1960 (gage height, 32.76 ft, from graph based on gage readings at site and datum then in use); maximum gage height at present site and datum, 35.35 ft May 9, 1961; no flow Sept. 29 to Dec. 2, 1964.

REMARKS.—Records fair. Flow regulated by Monroe Lake (See sta 03372400).

REVISIONS (WATER YEARS).—WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	47	45	52	52	794	426	1,640	2,260	46	50	50
2	47	46	45	52	52	552	426	1,700	1,290	46	50	50
3	47	46	45	151	52	318	534	1,700	442	46	50	50
4	47	46	45	353	52	322	626	1,700	536	46	50	50
5	145	46	45	690	52	326	629	1,880	467	46	50	50
6	302	46	45	797	52	322	629	2,080	176	46	50	50
7	302	46	45	724	52	322	748	2,070	84	47	50	50
8	302	46	46	629	82	697	997	2,060	56	47	50	50
9	302	46	46	629	95	1,430	1,010	2,050	52	47	50	50
10	302	46	46	629	95	1,720	1,180	2,050	52	47	50	50
11	300	46	46	629	95	1,710	1,320	2,040	52	47	50	50
12	300	46	46	629	95	1,700	673	2,030	52	47	50	50
13	300	45	47	629	95	1,700	198	2,020	52	47	50	50
14	300	45	47	629	95	1,700	200	2,020	52	47	50	50
15	300	45	48	485	162	1,700	200	2,020	52	48	50	50
16	300	45	48	260	359	1,700	206	2,020	107	48	50	50
17	300	45	48	144	428	1,700	210	2,020	132	48	50	50
18	300	45	48	52	545	1,700	218	2,010	132	48	50	50
19	298	45	48	52	629	1,570	218	2,000	132	48	50	50
20	298	45	48	98	629	1,080	224	2,000	132	48	50	50
21	298	45	48	190	629	730	216	1,990	132	48	50	50
22	298	45	48	237	626	730	218	2,240	82	48	50	50
23	174	45	48	256	484	516	220	2,140	61	49	50	50
24	50	45	48	352	426	428	220	2,360	46	49	50	50
25	50	45	48	392	426	570	222	2,340	46	49	50	50
26	49	45	48	392	570	561	638	2,330	46	49	50	50
27	49	45	48	392	629	426	1,010	2,320	46	49	50	50
28	49	45	49	325	629	426	1,320	2,300	46	49	50	50
29	48	45	50	149	746	426	1,540	2,290	46	49	50	50
30	48	45	50	106	------	426	1,540	2,280	46	49	50	50
31	47	------	51	95	------	426	------	2,270	------	50	50	------
TOTAL	5,999	1,363	1,463	11,199	8,933	28,728	18,016	63,970	6,907	1,478	1,550	1,500
MEAN	194	45.4	47.2	361	308	927	601	2,064	230	47.7	50.0	50.0
MAX	302	47	51	797	746	1,720	1,540	2,360	2,260	50	50	50
MIN	47	45	45	52	52	318	198	1,640	46	46	50	50

CAL YR 1971 TOTAL 127,281 MEAN 349 MAX 2,350 MIN 42
WTR YR 1972 TOTAL 151,106 MEAN 413 MAX 2,360 MIN 45

03372500 Salt Creek near Harrodsburg, Ind.—Continued

PERIOD OF RECORD.—Water temperatures: August 1966 to September 1972.

EXTREMES.—1971-72:
Water temperatures: Maximum, 26.5°C July 26, 27; minimum, 3.5°C Jan. 17-21, 28-31, Feb. 1, 14, 15.

Period of record:
Water temperatures: Maximum, 26.5°C July 2-4, 1971, July 26, 27, 1972; minimum, 1.0°C Jan. 4, 5, 8-13, 1968.
Maximum observed temperature, 31.0°C Aug. 6, 1964.

REMARKS.—Temperatures affected by Monroe Lake.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.5	19.0	19.0	9.0	8.5	6.5	6.5	4.0	3.5	4.5	4.0
2	21.5	20.5	19.0	18.5	8.5	8.5	6.5	6.5	4.0	4.0	5.0	4.5
3	22.0	21.0	18.5	17.5	8.5	8.0	6.5	6.5	4.0	4.0	5.0	4.5
4	22.0	20.5	17.5	17.0	8.0	8.0	6.5	6.0	4.0	4.0	4.5	4.5
5	21.0	20.5	17.0	16.5	8.0	8.0	6.0	6.0	4.0	4.0	4.5	4.5
6	21.0	20.0	16.5	15.5	8.0	8.0	6.0	5.5	4.0	4.0	5.0	4.5
7	20.0	20.0	15.5	15.0	8.0	8.0	5.5	5.5	4.0	4.0	4.5	4.5
8	20.0	19.5	15.0	14.5	8.0	8.0	5.5	5.5	4.0	4.0	5.0	4.5
9	19.5	19.0	14.5	14.0	8.0	8.0	5.5	5.5	4.0	4.0	5.0	5.0
10	19.0	19.0	14.0	13.5	8.0	8.0	5.5	5.5	4.0	4.0	5.0	5.0
11	19.0	18.5	13.5	13.5	8.0	8.0	5.5	5.0	4.0	4.0	5.0	5.0
12	18.5	18.0	13.5	13.0	8.0	8.0	5.0	5.0	4.0	4.0	5.0	5.0
13	18.0	18.0	13.5	13.0	8.0	8.0	5.5	5.0	4.0	4.0	5.5	5.0
14	18.0	18.0	13.5	13.0	8.0	8.0	5.5	5.0	4.0	3.5	6.0	5.5
15	18.0	17.5	13.5	13.0	8.0	8.0	5.0	4.5	4.0	3.5	6.0	6.0
16	18.0	18.0	13.5	13.5	8.0	8.0	4.5	4.0	4.0	4.0	6.0	6.0
17	18.5	18.0	13.5	13.0	8.0	7.0	4.0	3.5	4.0	4.0	6.0	6.0
18	18.5	18.5	13.0	13.0	7.0	7.0	3.5	3.5	4.0	4.0	6.0	6.0
19	19.0	18.5	13.0	13.0	7.0	7.0	3.5	3.5	4.0	4.0	6.5	6.0
20	19.0	19.0	13.0	12.5	7.0	7.0	3.5	3.5	4.5	4.0	6.5	6.0
21	19.5	19.0	12.5	11.5	7.0	7.0	4.0	3.5	4.0	4.0	7.0	6.0
22	19.5	19.5	11.5	11.5	7.0	6.5	4.0	4.0	4.0	4.0	7.0	6.5
23	19.5	19.5	11.5	11.0	6.5	6.5	4.0	4.0	4.0	4.0	7.0	7.0
24	19.5	19.5	11.0	10.5	6.5	6.5	4.0	4.0	4.0	4.0	7.0	7.0
25	19.5	19.0	10.5	10.5	6.5	6.5	4.0	4.0	4.0	4.0	7.5	7.0
26	19.0	19.0	10.5	10.5	6.5	6.5	4.0	4.0	4.5	4.0	7.5	7.5
27	19.0	19.0	10.5	10.0	6.5	6.5	4.0	4.0	4.0	4.0	7.5	7.0
28	19.0	19.0	10.0	9.5	6.5	6.5	4.0	3.5	4.0	4.0	7.5	7.0
29	19.0	19.0	9.5	9.5	6.5	6.5	3.5	3.5	4.5	4.0	7.5	7.5
30	19.0	19.0	9.5	9.0	6.5	6.5	3.5	3.5	---	---	8.0	7.5
31	19.0	19.0	---	---	6.5	6.5	3.5	3.5	---	---	8.0	7.5
MONTH	22.0	17.5	19.0	9.0	9.0	6.5	6.5	3.5	4.5	3.5	8.0	4.0

03372500 Salt Creek near Harrodsburg, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.5	14.0	13.0	18.5	18.0	23.5	22.0	25.5	25.0	25.0	24.5
2	7.5	7.5	13.5	13.0	18.5	18.0	23.5	23.0	25.0	24.0	25.0	24.5
3	7.5	7.5	13.5	13.0	20.5	18.0	23.0	22.0	24.0	24.0	25.0	24.5
4	8.0	7.5	14.0	13.5	20.0	19.0	23.5	22.0	25.0	24.0	24.5	24.5
5	8.0	8.0	14.0	13.5	22.0	19.0	23.5	23.0	25.5	24.5	24.5	24.0
6	8.0	7.5	14.5	14.0	23.5	21.5	23.5	23.0	25.0	24.5	24.0	23.5
7	8.0	7.5	14.5	14.5	23.5	22.0	23.5	23.0	24.5	23.0	24.0	23.5
8	8.0	8.0	14.5	14.5	23.0	22.0	23.5	23.0	23.5	23.0	24.0	23.5
9	8.0	8.0	14.5	14.5	22.0	21.0	23.0	23.0	24.0	23.5	23.5	23.5
10	8.0	8.0	15.0	14.5	23.5	21.0	23.0	23.0	23.5	23.5	23.5	23.5
11	8.5	8.0	16.0	15.0	23.5	23.0	23.0	22.5	23.5	23.5	23.5	23.5
12	10.0	8.5	16.5	16.0	23.0	21.0	23.5	23.0	23.5	23.5	23.5	23.0
13	10.0	9.0	16.5	16.0	21.5	21.5	23.5	23.0	23.5	23.5	23.0	23.0
14	10.5	9.0	16.0	15.5	22.5	21.0	23.5	23.5	23.5	23.5	23.0	23.0
15	10.5	9.5	16.0	15.5	22.5	20.5	23.5	21.5	24.5	23.5	23.0	23.0
16	11.0	9.5	16.5	15.5	24.0	20.5	23.0	23.0	24.5	24.5	23.0	23.0
17	11.0	10.0	17.0	16.5	24.0	23.5	23.5	23.0	24.5	24.0	23.0	23.0
18	11.0	10.5	18.5	17.0	24.5	24.0	24.0	23.5	24.0	24.0	23.5	23.0
19	12.0	10.5	19.0	18.0	24.5	24.0	24.5	23.0	24.5	24.0	24.0	23.0
20	12.0	11.0	19.0	19.0	24.5	24.5	25.0	24.0	26.0	24.0	24.0	23.5
21	12.5	12.0	19.5	19.0	24.5	23.0	25.0	24.5	26.0	25.0	24.0	23.5
22	12.5	11.0	20.0	19.0	23.5	23.0	25.5	24.5	25.0	24.0	23.5	23.5
23	12.5	11.5	20.5	19.5	23.5	22.5	25.5	24.5	24.0	24.0	23.5	23.0
24	12.5	12.0	20.5	19.5	23.5	22.5	24.5	24.0	24.0	23.5	23.0	23.0
25	12.5	12.0	20.5	19.5	23.0	22.0	26.0	24.0	24.5	24.0	23.0	22.5
26	13.0	12.5	20.5	19.5	23.5	22.5	26.5	24.5	24.5	23.5	22.5	22.0
27	13.5	13.0	21.0	20.0	23.5	23.0	26.5	24.5	23.5	23.0	22.0	22.0
28	13.5	13.5	21.0	20.0	23.5	22.5	26.0	24.0	24.5	23.5	22.0	22.0
29	13.5	13.5	20.5	18.5	23.5	22.0	26.0	25.5	25.0	24.0	22.0	19.0
30	13.5	13.5	19.5	18.0	23.0	21.5	25.5	25.5	25.5	24.5	21.0	20.5
31	---	---	18.5	17.0	---	---	25.5	25.0	25.5	25.0	---	---
MONTH	13.5	7.5	21.0	13.0	24.5	18.0	26.5	21.5	26.0	23.0	25.0	19.0
YEAR	26.5	3.5										

03373200 Indian Creek near Springville, Ind.

LOCATION.—Lat 38°57'01", long 86°40'30", in SE 1/4 SW 1/4 sec.18, T.6 N., R.2 W., Lawrence County, on left bank at downstream side of bridge on State Highway 54, 0.2 mile downstream from Popcorn Creek, and 4 miles northwest of Springville.

DRAINAGE AREA.—60.7 sq mi.

PERIOD OF RECORD.—September 1961 to current year.

GAGE.—Water-stage recorder. Datum of gage is 580.00 ft above mean sea level.

AVERAGE DISCHARGE.—11 years, 51.9 cfs (11.61 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,640 cfs Apr. 16 (gage height, 11.00 ft); minimum daily, 0.45 cfs Oct. 8.
Period of record: Maximum discharge, 6,450 cfs Mar. 9, 1964 (gage height, 12.95 ft); no flow at times some years.
Flood in Spring 1950 or 1951 reached a stage of 18.4 ft, from information by local resident.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.0	2.3	60	10	301	37	45	5.2	4.2	.80	1.2
2	.70	1.1	1.6	48	11	792	33	41	4.6	18	.70	.90
3	.80	1.2	1.2	38	12	250	34	34	4.4	50	36	.80
4	1.3	1.2	1.0	39	10	140	114	29	4.4	12	34	2.8
5	1.6	.90	.90	53	9.8	96	78	25	4.6	7.8	8.1	1.7
6	1.0	1.1	2.8	38	11	70	61	22	4.0	5.7	5.4	1.1
7	.70	1.2	37	31	11	63	307	19	4.2	4.8	4.8	.80
8	.45	1.2	24	29	8.4	53	237	30	4.0	4.0	4.0	36
9	1.0	1.3	12	57	7.8	32	118	43	3.4	3.4	3.2	16
10	1.1	1.3	12	74	7.2	35	87	27	3.6	3.0	2.6	6.6
11	1.0	1.2	20	50	8.8	32	78	20	3.2	2.6	2.2	4.8
12	1.0	1.1	13	38	12	30	1,090	18	4.0	2.6	2.5	4.0
13	1.0	1.1	9.6	34	18	34	316	81	7.8	2.3	2.3	3.4
14	1.0	1.1	289	23	24	35	215	93	8.1	2.2	2.6	3.2
15	1.1	1.1	255	16	50	34	392	61	54	3.6	2.2	4.2
16	1.7	1.1	107	14	46	85	2,220	42	40	4.6	1.6	3.4
17	1.9	1.1	53	14	35	101	316	31	14	3.4	1.3	2.8
18	1.5	1.1	34	16	41	67	164	24	9.2	2.8	1.3	2.6
19	1.5	1.6	27	18	34	48	132	19	6.9	2.3	1.1	2.3
20	1.2	1.7	31	18	27	39	551	16	5.4	1.9	1.0	1.9
21	1.5	1.7	30	18	26	36	522	14	4.6	1.7	.80	1.7
22	4.6	1.6	22	27	29	90	427	12	4.2	1.3	1.9	1.6
23	5.2	1.5	18	31	42	68	181	10	3.2	1.1	3.6	1.6
24	4.6	1.6	17	27	98	49	114	8.8	2.8	2.3	4.4	55
25	3.2	1.6	15	23	72	41	82	7.8	2.8	3.6	4.6	47
26	2.2	1.6	15	18	134	34	64	6.9	2.6	3.4	29	20
27	1.7	2.0	14	16	90	34	52	6.3	2.3	2.2	5.7	22
28	1.9	2.0	14	14	71	32	43	5.4	16	1.6	3.8	18
29	1.2	3.0	13	13	60	45	43	5.2	13	1.3	2.5	662
30	1.0	2.6	222	11	------	56	52	6.6	6.0	1.1	1.9	184
31	1.0	------	109	10	------	43	------	6.3	------	.90	1.4	------
TOTAL	50.35	42.90	1,422.40	916	1,016.0	2,865	8,160	809.3	252.5	161.70	177.30	1,113.40
MEAN	1.62	1.43	45.9	29.5	35.0	92.4	272	26.1	8.42	5.22	5.72	37.1
MAX	5.2	3.0	289	74	134	792	2,220	93	54	50	36	662
MIN	.45	.90	.90	10	7.2	30	33	5.2	2.3	.90	.70	.80
CFSM	.03	.02	.76	.49	.58	1.52	4.48	.43	.14	.09	.09	.61
IN.	.03	.03	.87	.56	.62	1.76	5.00	.50	.15	.10	.11	.68

CAL YR 1971 TOTAL 13,408.65 MEAN 36.7 MAX 1,210 MIN .25 CFSM .60 IN 8.22
WTR YR 1972 TOTAL 16,986.85 MEAN 46.4 MAX 2,220 MIN .45 CFSM .76 IN 10.41

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0900	6.31	1,540	04-16	0600	11.00	4,640
04-12	0500	7.70	2,320	09-29	0800	6.22	1,490

03373500 East Fork White River at Shoals, Ind.

LOCATION.—Lat 38°40'02", long 86°47'32", in SW 1/4 NW 1/4 sec.30, T.3 N., R.3 W., Martin County, in first pier from left bank of bridge on U.S. Highway 50 at Shoals, 400 ft upstream from Baltimore and Ohio Railroad bridge, 1 mile upstream from Beaver Creek, and at mile 107.6.

DRAINAGE AREA.—4,927 sq mi.

PERIOD OF RECORD.—June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-6, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 442.25 ft above mean sea level. See WSP 1725 for history of changes prior to Oct. 26, 1932.

AVERAGE DISCHARGE.—58 years (1903-5, 1909-16, 1923-72), 5,273 cfs (14.53 inches per year).

EXTREMES.—Current year: Maximum discharge, 35,900 cfs Apr. 22 (gage height, 22.46 ft); minimum daily, 440 cfs Oct. 24.
Period of record: Maximum discharge, 160,000 cfs Mar. 28, 1913 (gage height, 42.2 ft), from rating curve extended above 100,000 cfs; minimum daily, 64 cfs Oct. 6, 1935, as a result of filling Williams Reservoir.

REMARKS.—Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	1,020	802	5,040	2,070	6,290	4,260	8,430	4,240	1,860	936	621
2	1,110	956	801	6,870	1,980	9,680	4,120	7,450	4,450	1,720	919	657
3	912	870	830	7,860	1,940	13,700	3,890	7,140	4,220	1,930	932	487
4	912	830	906	7,700	1,920	12,600	3,930	6,760	3,580	2,490	2,460	777
5	830	781	956	7,100	2,040	12,300	4,340	6,260	3,330	1,990	3,730	536
6	607	763	986	6,960	1,820	13,400	4,550	5,870	2,960	1,800	3,250	640
7	820	763	1,590	7,130	1,810	14,500	4,940	5,720	2,490	1,620	2,680	520
8	718	745	2,410	6,870	1,800	14,700	6,420	5,510	2,180	1,500	1,860	694
9	800	727	2,640	6,080	1,770	13,500	7,940	5,970	2,010	1,420	1,360	881
10	800	718	3,820	5,940	1,720	11,600	9,440	7,910	2,060	1,330	1,120	867
11	736	709	4,270	6,500	1,670	9,370	11,800	9,400	2,010	1,250	996	742
12	692	700	3,860	7,280	1,650	7,780	16,300	10,300	1,900	1,250	953	584
13	754	692	3,380	7,480	1,630	7,010	21,400	11,300	1,880	1,650	936	541
14	754	692	3,110	6,750	1,770	6,680	23,900	12,400	1,860	1,650	886	706
15	692	683	3,480	5,550	2,290	6,590	25,300	11,700	1,920	1,490	837	686
16	727	683	4,060	4,610	3,430	8,180	31,300	11,000	2,020	1,330	819	503
17	830	683	4,700	3,570	4,910	11,100	34,700	10,700	2,230	1,220	898	515
18	790	677	6,220	3,120	6,310	11,800	33,900	10,000	2,870	1,180	788	442
19	700	679	7,000	3,110	6,580	11,500	31,600	9,120	3,970	1,260	749	639
20	800	685	7,090	2,970	5,850	10,900	32,500	8,110	4,330	1,220	731	628
21	709	666	6,480	2,920	5,170	9,630	35,000	7,130	3,900	1,180	699	462
22	810	660	5,180	3,010	4,640	8,170	35,700	6,320	3,320	1,110	835	481
23	901	655	4,330	3,010	4,310	6,680	34,000	5,850	2,890	1,070	1,450	494
24	440	656	3,930	2,990	4,540	5,520	30,100	5,550	2,900	1,050	1,050	518
25	810	661	3,590	2,980	5,290	4,950	26,300	5,240	2,720	1,250	796	587
26	1,220	673	3,270	3,040	6,060	4,680	24,100	4,970	2,390	1,230	711	865
27	1,310	699	3,030	3,030	6,720	4,400	22,500	4,760	2,110	1,170	714	1,140
28	1,250	731	2,820	2,950	6,810	4,090	19,500	4,580	1,940	1,080	721	1,280
29	1,240	758	2,630	2,740	6,640	4,000	15,100	4,420	2,060	1,020	774	1,180
30	1,210	784	2,870	2,470	------	4,230	11,100	4,370	2,060	996	596	2,930
31	1,110	------	4,470	2,210	------	4,340	------	4,310	------	966	564	------
TOTAL	27,194	21,999	105,511	149,840	105,140	273,870	569,930	228,550	82,800	43,282	36,750	22,603
MEAN	877	733	3,404	4,834	3,626	8,835	19,000	7,373	2,760	1,396	1,185	753
MAX	1,310	1,020	7,090	7,860	6,810	14,700	35,700	12,400	4,450	2,490	3,730	2,930
MIN	440	655	801	2,210	1,630	4,000	3,890	4,310	1,860	966	564	442
CFSM	.18	.15	.69	.98	.74	1.79	3.86	1.50	.56	.28	.24	.15
IN.	.21	.17	.80	1.13	.79	2.07	4.30	1.73	.63	.33	.28	.17

CAL YR 1971 TOTAL 1,428,679 MEAN 3,914 MAX 34,700 MIN 415 CFSM .79 IN 10.79
WTR YR 1972 TOTAL 1,667,469 MEAN 4,556 MAX 35,700 MIN 440 CFSM .92 IN 12.59

PEAK DISCHARGE (BASE, 20,000 CFS).—Apr. 17 (1600) 35,000 cfs (22.01 ft). Apr. 22 (0500) 35,900 cfs (22.46 ft).

03373700 Lost River near West Baden Springs, Ind.

LOCATION.—Lat 38°35'10", long 86°38'03", in SW 1/4 SE 1/4 sec.21, T.2 N., R.2 W., Orange County, on left bank 20 ft downstream from bridge on U.S. Highway 150, 1.7 miles northwest of West Baden Springs, and 3.8 miles downstream from Lick Creek.

DRAINAGE AREA.—287 sq mi.

PERIOD OF RECORD.—December 1964 to current year. Prior to October 1965, published as Lost River near West Baden.

GAGE.—Water-stage recorder. Datum of gage is 457.92 ft above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.—7 years, 291 cfs (13.77 inches per year).

EXTREMES.—Current year: Maximum discharge, 5,210 cfs Apr. 16 (gage height, 23.61 ft); minimum daily, 15 cfs Sept. 13, 16, 18-21, 23.
Period of record: Maximum discharge, 5,210 cfs Jan. 30, 1969, Apr. 16, 1972 (gage height, 23.61 ft); minimum daily, 7.5 cfs Oct. 8, 1966.
Flood in March 1964 reached a stage of 28.1 ft, from floodmarks.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	37	61	498	60	457	480	413	74	28	23	19
2	23	36	51	382	58	1,550	414	396	69	27	22	18
3	23	33	45	327	60	2,130	369	364	66	35	22	18
4	26	29	42	329	64	1,810	357	329	62	75	88	18
5	27	27	40	460	70	1,280	346	295	76	50	246	18
6	25	26	57	461	80	844	322	270	65	31	96	17
7	23	27	384	396	86	655	310	250	55	28	46	16
8	22	27	496	339	74	589	353	261	53	26	35	17
9	21	28	310	381	66	518	330	390	51	25	27	21
10	20	27	235	558	60	455	298	355	57	25	22	20
11	20	27	207	535	56	412	394	286	51	24	20	17
12	19	26	170	445	70	378	1,610	246	44	96	23	16
13	19	25	140	381	148	358	2,210	401	43	178	28	15
14	20	24	120	310	293	413	2,610	626	43	84	21	16
15	20	25	160	240	625	410	3,120	441	46	53	18	16
16	24	24	292	210	698	1,490	4,650	322	45	43	17	15
17	38	24	252	190	499	1,780	4,640	267	43	40	17	16
18	29	25	191	170	393	1,390	3,490	230	39	37	16	15
19	25	28	152	160	333	920	2,380	199	36	35	16	15
20	22	28	152	150	272	675	2,010	178	34	31	16	15
21	20	28	155	140	226	574	2,130	162	33	28	16	15
22	34	28	132	136	207	530	2,110	143	32	24	35	16
23	73	26	113	126	254	474	1,810	130	30	25	430	15
24	83	25	103	117	608	414	1,370	120	29	27	214	16
25	85	25	96	106	691	370	992	112	28	48	77	42
26	73	25	89	91	865	338	778	98	28	39	55	80
27	62	29	84	84	750	338	670	87	28	26	42	53
28	55	37	77	74	582	353	577	80	28	28	31	32
29	49	54	70	70	458	541	494	79	28	26	25	31
30	46	70	365	66	------	701	448	79	28	25	23	76
31	41	------	696	62	------	574	------	79	------	24	20	------
TOTAL	1,091	900	5,537	7,994	8,706	23,721	42,072	7,688	1,344	1,291	1,787	714
MEAN	35.2	30.0	179	258	300	765	1,402	248	44.8	41.6	57.6	23.8
MAX	85	70	696	558	865	2,130	4,650	626	76	178	430	80
MIN	19	24	40	62	56	338	298	79	28	24	16	15
CFSM	.12	.10	.62	.90	1.05	2.67	4.89	.86	.16	.14	.20	.08
IN.	.14	.12	.72	1.04	1.13	3.07	5.45	1.00	.17	.17	.23	.09

CAL YR 1971 TOTAL 83,204 MEAN 228 MAX 3,000 MIN 19 CFSM .79 IN 10.78
WTR YR 1972 TOTAL 102,845 MEAN 281 MAX 4,650 MIN 15 CFSM .98 IN 13.33

PEAK DISCHARGE (BASE, 2,000 CFS).—Mar. 3 (1100) 2,190 cfs (19.48 ft). Apr. 16 (1900) 5,210 cfs (23.61 ft).

03374000 White River at Petersburg, Ind.

LOCATION.—Lat 38°30'39", long 87°17'22", in SE 1/4 SW 1/4 sec.15, T.1 N., R.8 W., Pike County, on left bank 300 ft downstream from bridge on State Highway 61, 0.4 mile upstream from Prides Creek, 1 mile north of Petersburg, and at mile 47.7.

DRAINAGE AREA.—11,125 sq mi.

PERIOD OF RECORD.—October 1927 to current year. Monthly discharge only for October 1927, published in WSP 1305. Published as "at Hazelton" October 1927 to September 1938. Records published for both sites October 1937 to September 1938. Gage-height records collected at present site and datum since January 1935 are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 400.00 ft above mean sea level. See WSP 1725 for history of changes prior to Apr. 1, 1941.

AVERAGE DISCHARGE.—45 years, 11,190 cfs (13.66 inches per year).

EXTREMES.—Current year: Maximum discharge, 67,000 cfs Apr. 22 (gage height, 22.70 ft); minimum daily, 1,430 cfs Sept. 23.
Period of record: Maximum discharge, 183,000 cfs Jan. 22, 1937 (gage height, 28.3 ft, present datum, 31.58 ft, site and datum then in use); minimum daily, 573 cfs Oct. 1, 1941.
Flood in March 1913, reached a stage of 29.5 ft (present site and datum), from floodmarks, by Corps of Engineers (discharge, 235,000 cfs).

REMARKS.—Records good. Natural flow of stream affected by reservoirs.

REVISIONS (WATER YEARS).—WSP 1305: 1930(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,410	2,370	1,710	13,900	6,030	12,500	9,280	35,700	7,750	5,070	2,870	1,820
2	2,530	2,270	1,760	15,800	5,640	18,000	9,080	27,200	7,980	5,090	2,770	1,750
3	2,530	2,140	1,780	17,000	5,300	25,000	8,740	22,100	8,410	4,780	3,000	1,760
4	2,320	2,020	1,790	18,000	5,100	27,800	8,490	19,300	8,180	4,640	2,810	1,740
5	2,170	1,920	1,830	18,100	4,830	28,800	8,430	17,700	7,350	4,930	3,560	1,710
6	2,040	1,890	1,960	16,700	5,200	29,300	8,940	16,400	6,740	4,800	5,070	1,890
7	1,810	1,850	2,590	16,100	4,800	29,800	9,460	15,400	6,230	4,490	5,090	1,930
8	1,820	1,760	3,800	16,100	4,800	29,400	10,100	14,900	5,690	4,440	4,410	2,020
9	1,880	1,740	4,880	15,300	4,700	27,400	14,000	15,000	5,520	4,400	3,810	2,410
10	1,810	1,690	5,720	14,500	4,600	24,800	18,800	14,900	5,670	4,100	3,440	2,530
11	1,830	1,680	6,920	14,100	4,600	21,700	22,800	16,000	5,410	3,860	3,080	2,280
12	1,750	1,650	7,640	14,400	4,620	18,400	30,100	16,800	5,170	3,680	2,830	2,160
13	1,710	1,640	7,620	15,000	4,610	15,600	36,400	17,400	5,130	3,560	2,690	1,960
14	1,710	1,620	7,640	15,000	4,620	13,700	42,800	18,500	4,960	3,660	2,620	1,740
15	1,740	1,610	8,230	13,900	5,010	12,900	49,800	19,600	4,990	3,880	2,550	1,650
16	1,740	1,580	11,200	12,100	5,940	16,300	60,400	19,200	5,600	3,740	2,590	1,790
17	1,720	1,550	13,700	10,200	7,460	18,800	64,100	18,400	8,500	3,520	2,450	1,620
18	2,310	1,500	15,800	8,580	9,240	19,800	61,700	18,100	10,700	3,400	2,460	1,530
19	2,860	1,540	18,300	7,770	10,400	19,900	62,500	17,900	11,800	3,380	2,420	1,540
20	2,970	1,510	20,200	7,590	10,400	19,000	64,600	17,000	11,500	3,320	2,240	1,510
21	3,050	1,500	20,500	7,600	9,760	17,400	65,900	15,400	11,000	3,350	2,140	1,750
22	3,210	1,470	18,300	7,780	8,970	15,800	66,900	13,700	9,930	3,300	2,130	1,570
23	3,290	1,460	14,300	7,890	8,380	14,000	66,000	12,200	8,630	3,220	2,180	1,430
24	3,290	1,470	11,500	7,890	9,300	12,100	64,100	11,300	7,390	3,390	2,830	1,470
25	2,650	1,460	10,000	8,130	9,670	10,800	61,900	10,600	6,690	3,450	3,040	1,600
26	2,340	1,440	9,080	8,130	11,400	9,820	59,400	10,000	6,230	3,450	2,830	2,340
27	2,620	1,540	8,320	8,200	12,300	9,310	58,200	9,460	5,770	3,580	2,380	2,940
28	2,720	1,540	7,890	8,090	12,800	8,950	56,900	8,990	5,330	3,630	2,340	3,500
29	2,630	1,610	7,500	7,570	12,600	8,680	53,000	8,590	5,020	3,360	2,310	6,900
30	2,580	1,650	7,690	7,030	------	9,080	45,600	8,290	4,990	3,110	2,170	7,500
31	2,510	------	9,870	6,480	------	9,150	------	7,980	------	3,020	2,030	------
TOTAL	72,550	50,670	270,020	364,930	213,080	553,990	1,198.4M	494,010	214,260	119,600	89,140	68,340
MEAN	2,340	1,689	8,710	11,770	7,348	17,870	39,950	15,940	7,142	3,858	2,875	2,278
MAX	3,290	2,370	20,500	18,100	12,800	29,800	66,900	35,700	11,800	5,090	5,090	7,500
MIN	1,710	1,440	1,710	6,480	4,600	8,680	8,430	7,980	4,960	3,020	2,030	1,430
CFSM	.21	.15	.78	1.06	.66	1.61	3.59	1.43	.64	.35	.26	.20
IN.	.24	.17	.90	1.22	.71	1.85	4.01	1.65	.72	.40	.30	.23

CAL YR 1971 TOTAL 3,259,530 MEAN 8,930 MAX 63,500 MIN 1,440 CFSM .80 IN 10.90
WTR YR 1972 TOTAL 3,709,010 MEAN 10,130 MAX 66,900 MIN 1,430 CFSM .91 IN 12.40

03374000 White River at Petersburg, Ind.--Continued

PERIOD OF RECORD.--Water temperatures: June 1964 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 34.0°C July 21, 22; minimum, 4.0°C Feb. 6, 20, 21.

Period of record:
Water temperatures: Maximum, 34.0°C July 21, 22, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperatures affected by upstream reservoirs and powerplants.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	29.5	29.0	21.5	21.0	14.0	13.0	10.0	9.5	6.0	5.0	9.0	8.5
2	29.5	29.0	21.5	21.5	13.5	13.0	9.5	8.5	6.5	5.5	9.0	8.5
3	29.0	28.5	21.5	20.0	13.0	12.0	8.5	8.5	6.5	6.0	8.5	8.0
4	28.5	28.0	20.0	19.5	13.0	12.0	8.5	8.0	6.0	5.0	8.0	7.0
5	28.0	26.5	19.5	18.5	13.5	13.0	8.0	7.0	6.0	5.0	7.0	6.5
6	26.5	26.0	19.0	17.0	14.0	13.0	7.0	6.0	5.5	4.0	6.5	6.5
7	26.0	24.5	17.0	16.0	14.0	13.0	6.0	5.5	6.5	4.5	6.5	5.5
8	25.5	23.5	16.0	14.5	13.0	11.5	5.5	5.0	7.0	5.0	5.5	5.5
9	24.0	23.0	15.5	15.0	11.5	11.0	5.5	5.0	7.0	5.5	5.5	4.5
10	23.5	22.0	15.5	14.5	13.0	11.5	5.5	5.0	7.5	5.5	6.0	5.5
11	22.0	21.0	15.5	14.0	12.5	11.5	6.0	5.5	7.5	5.5	7.0	6.0
12	22.0	21.0	16.0	14.5	12.0	11.0	6.0	6.0	7.5	6.0	9.0	7.0
13	23.0	21.5	16.5	15.5	11.5	11.0	6.0	6.0	7.0	6.5	9.0	9.0
14	23.0	21.5	18.0	16.5	11.0	10.5	6.0	6.0	8.0	6.0	10.0	9.0
15	23.0	22.0	19.5	18.0	12.0	11.0	6.0	5.5	8.5	7.0	10.5	10.0
16	22.0	21.0	19.5	19.0	11.5	11.0	5.5	4.5	7.5	6.5	10.5	10.5
17	21.5	21.5	21.0	19.0	11.0	9.5	4.5	4.5	7.0	6.5	10.5	10.0
18	22.0	21.5	20.5	20.0	9.5	9.0	5.5	4.5	7.0	6.5	10.0	9.5
19	22.0	21.5	20.0	19.0	9.0	8.5	6.0	5.5	6.5	4.5	10.0	10.0
20	22.0	21.5	19.0	18.0	8.5	8.0	6.0	4.5	4.5	4.0	10.5	10.0
21	22.0	22.0	18.5	16.5	8.0	7.5	5.5	5.5	6.0	4.0	11.0	10.5
22	22.0	22.0	17.0	15.0	7.5	7.0	6.0	5.5	7.0	5.5	11.0	11.0
23	22.0	21.5	16.0	14.0	7.0	7.0	7.0	6.0	7.0	6.0	11.0	11.0
24	21.5	21.0	14.5	13.5	7.5	7.0	9.0	7.0	6.5	6.0	11.5	11.0
25	21.5	21.0	14.0	13.0	8.0	7.5	9.0	9.0	6.5	6.0	11.5	11.0
26	21.5	21.0	14.0	13.0	9.0	8.0	9.0	8.0	6.5	6.0	11.0	11.0
27	21.5	20.5	14.0	13.0	10.5	9.0	8.0	7.0	6.5	6.0	11.0	11.0
28	21.0	20.5	14.0	13.0	10.5	10.0	7.0	6.5	7.0	6.5	11.5	11.0
29	21.0	20.5	14.5	13.5	10.0	9.5	6.5	6.0	8.5	7.0	11.5	11.0
30	21.0	20.5	14.5	13.5	11.0	9.5	6.5	6.0	---	---	11.5	10.5
31	21.0	21.0	---	---	11.0	10.0	6.5	5.5	---	---	11.0	10.5
MONTH	29.5	20.5	21.5	13.0	14.0	7.0	10.0	4.5	8.5	4.0	11.5	4.5

03374000 White River at Petersburg, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	16.0	15.5	22.5	22.0	28.0	26.5	30.0	28.5	30.5	29.0
2	10.5	10.5	16.0	15.5	23.0	22.0	28.0	28.0	29.5	28.5	30.5	29.0
3	10.5	9.5	16.5	16.0	23.5	23.0	28.0	27.0	30.0	28.0	29.5	27.5
4	11.0	9.5	17.0	16.5	24.0	23.5	27.5	26.5	30.0	28.5	27.5	25.5
5	11.5	10.5	18.0	17.0	24.5	24.0	26.5	25.5	28.5	27.0	28.5	25.5
6	12.5	11.5	18.5	18.0	25.5	24.5	26.5	25.5	28.0	27.0	28.5	26.0
7	12.5	12.5	19.0	18.5	26.0	25.5	26.5	25.5	27.0	26.0	28.5	26.0
8	12.5	11.0	19.0	18.5	26.0	24.5	26.5	26.0	26.0	25.0	28.5	28.0
9	11.5	10.5	18.5	18.5	26.0	25.0	27.0	26.5	26.0	25.0	28.5	26.5
10	11.0	10.5	18.5	18.0	26.0	25.5	28.5	27.0	26.5	25.0	27.0	24.5
11	11.0	10.5	18.0	18.0	25.5	24.5	29.5	28.0	28.0	25.5	28.0	26.0
12	11.0	10.5	18.0	18.0	24.5	24.0	31.0	29.0	28.0	26.0	30.0	27.0
13	12.5	11.0	18.0	17.5	26.0	24.5	31.0	29.5	28.0	26.0	31.0	29.5
14	14.5	12.5	17.5	17.5	27.0	25.5	31.0	30.0	29.5	27.5	31.0	30.0
15	15.5	14.5	17.5	17.5	27.0	26.5	31.0	30.0	29.5	28.5	30.5	28.5
16	15.5	15.5	18.5	17.5	27.0	25.0	30.0	29.0	30.0	28.0	29.5	28.5
17	16.0	15.5	18.5	18.5	27.0	25.5	29.5	28.5	32.0	30.0	29.5	28.5
18	16.0	16.0	19.5	18.5	25.5	25.0	31.5	29.0	33.0	31.5	31.0	29.0
19	16.5	16.0	20.0	19.5	26.0	25.0	33.0	30.5	33.0	31.0	32.0	30.0
20	17.0	16.0	20.5	20.0	27.0	26.0	33.0	32.0	33.0	31.0	32.0	30.5
21	17.0	16.5	21.5	20.5	27.0	26.5	34.0	32.0	33.0	32.0	32.0	29.5
22	17.0	16.5	22.5	21.5	26.5	25.5	34.0	32.0	33.0	31.5	29.5	27.0
23	17.0	16.5	23.5	22.5	26.0	24.5	33.5	32.0	32.0	29.5	28.0	24.5
24	16.5	15.5	24.0	23.0	24.5	24.0	33.0	32.5	30.5	28.5	25.0	23.5
25	15.5	14.5	24.5	23.5	25.0	24.0	33.0	31.0	30.5	29.0	25.0	24.5
26	15.0	15.0	24.5	24.0	26.5	25.0	33.0	30.5	30.5	29.0	24.5	24.0
27	15.0	14.5	25.0	24.0	27.0	26.0	31.5	30.0	30.5	28.5	24.0	23.0
28	15.5	15.0	25.0	24.0	27.0	26.5	31.5	29.0	29.5	27.5	23.5	23.0
29	15.5	15.5	24.5	24.0	27.0	26.0	29.0	28.0	30.5	28.5	23.5	22.5
30	15.5	15.0	24.0	24.0	27.0	26.0	29.5	27.0	31.5	29.5	22.5	21.0
31	---	---	24.0	22.0	---	---	30.0	27.5	31.5	28.5	---	---
MONTH	17.0	9.5	25.0	15.5	27.0	22.0	34.0	25.5	33.0	25.0	32.0	21.0

03374455 Patoka River near Hardinsburg, Ind.

LOCATION.—Lat 38°26'41", long 86°23'14", in NW 1/4 SE 1/4 sec.10, T.1 S., R.1 E., Orange County, on downstream edge of center pier of county road bridge, 0.2 mile upstream from left-bank tributary, 0.7 mile northeast of Valeene, and 6.0 miles southwest of Hardinsburg.

DRAINAGE AREA.—12.8 sq mi.

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 606.89 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 1,480 cfs Apr. 16 (gage height, 7.09 ft); no flow Sept. 7, 11-24.
Period of record: Maximum discharge, 1,480 cfs Apr. 16, 1972 (gage height, 7.09 ft); maximum gage height, 7.22 ft Apr. 27, 1970; no flow for several days in 1971, 1972.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.32	3.0	19	4.4	128	22	11	1.9	.37	.32	.07
2	.37	.43	2.4	20	4.9	430	18	10	1.7	.28	.28	.05
3	.37	.43	2.4	16	8.0	117	16	9.1	1.7	.43	.32	.05
4	.43	.53	2.6	32	9.1	70	16	8.0	1.6	.37	1.3	.05
5	.32	.53	2.4	42	7.7	47	15	6.7	1.4	.37	1.1	.03
6	.28	.80	3.2	26	8.4	34	14	7.0	1.6	.28	1.6	.01
7	.28	.95	50	19	8.7	31	15	7.7	1.3	.24	2.0	0
8	.28	.95	27	16	7.7	41	13	22	1.1	.24	1.3	.03
9	.32	1.1	16	42	6.7	29	11	32	1.1	.21	.65	.03
10	.28	1.1	13	48	5.8	24	11	19	1.4	.21	.43	.01
11	.28	1.1	11	29	5.5	21	26	13	.95	2.0	.32	0
12	.28	1.1	8.4	21	7.0	18	333	10	.95	6.7	.37	0
13	.32	1.1	6.7	16	28	19	240	29	.95	1.1	.37	0
14	.37	.95	5.8	11	58	22	283	35	.95	.43	.24	0
15	.80	.95	27	9.1	115	31	350	22	1.1	.32	.21	0
16	.53	.80	24	9.1	60	318	652	15	1.3	1.7	.18	0
17	.15	.80	13	8.7	36	113	140	11	.80	3.6	.15	0
18	.11	.80	9.1	7.0	31	54	66	9.1	.65	2.2	.13	0
19	.07	1.1	7.7	6.7	22	35	63	7.0	.53	.95	.24	0
20	.05	.95	10	7.3	17	27	330	6.1	.53	.37	.21	0
21	.13	.95	10	9.4	15	22	137	5.2	.53	.28	.11	0
22	1.1	.80	7.3	9.4	13	19	88	4.4	.43	.24	.13	0
23	.65	.80	6.4	8.7	26	15	50	3.9	.37	.21	.18	0
24	.65	.95	5.8	8.7	97	12	35	3.4	.32	.18	.15	0
25	.65	.80	4.9	7.7	149	11	27	3.2	.32	.18	.13	.11
26	.53	.80	4.9	6.1	158	9.8	21	2.8	.32	.15	.37	.65
27	.37	1.3	4.4	5.0	60	16	18	2.4	.32	.18	.32	.24
28	.32	1.3	3.9	4.2	38	19	15	2.2	.37	1.7	.24	.15
29	.32	2.6	3.6	4.2	28	52	13	2.2	.53	1.7	.18	.43
30	.28	3.9	61	4.2	------	39	11	2.4	.53	.80	.11	.65
31	.32	------	33	4.3	------	28	------	2.0	------	.43	.09	------
TOTAL	11.58	30.99	389.9	476.8	1,034.9	1,851.8	3,049	323.8	27.55	28.42	13.73	2.56
MEAN	.37	1.03	12.6	15.4	35.7	59.7	102	10.4	.92	.92	.44	.085
MAX	1.1	3.9	61	48	158	430	652	35	1.9	6.7	2.0	.65
MIN	.05	.32	2.4	4.2	4.4	9.8	11	2.0	.32	.15	.09	0
CFSM	.03	.08	.98	1.20	2.79	4.66	7.97	.81	.07	.07	.03	.007
IN.	.03	.09	1.13	1.39	3.01	5.38	8.86	.94	.08	.08	.04	.007

CAL YR 1971 TOTAL 6,305.91 MEAN 17.3 MAX 495 MIN .05 CFSM 1.35 IN 18.33
WTR YR 1972 TOTAL 7,241.03 MEAN 19.8 MAX 652 MIN 0 CFSM 1.55 IN 21.04

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-25	2100	4.10	480	04-12	0245	4.85	685
03-02	0645	6.02	1,090	04-16	0500	7.09	1,480
03-16	0145	4.82	676	04-20	0815	5.55	922

03374470 Patoka River near English, Ind.

LOCATION.—Lat 38°26'26", long 86°27'21", in SW 1/4 SW 1/4 sec.7, T.1 S., R.1 E., Orange County, at bridge on State Highway 37, 1 mile upstream from Hogs Defeat Creek, 8.0 miles north of English, and 8.7 miles south of Paoli.

DRAINAGE AREA.—30.8 sq mi.

PERIOD OF RECORD.—Chemical analyses: July 1969 to September 1972.
Water temperatures: August 1970 to September 1972.

EXTREMES.—1971-72:
Water temperatures: Maximum, 33.0°C July 23; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 33.0°C July 23, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.—Discharge measurements only to bankfull stage.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
NOV. 08...	1430	2.4	6.0	8.0	625	7.9	7	236	237	1.53	.32
DEC. 09...	1115	40	10.0	10.0	330	7.7	8	193	178	20.8	.26
JAN. 18...	1135	14	.5	6.0	255	7.8	10	201	213	7.60	.27
FEB. 17...	1040	85	4.5	2.0	230	7.5	10	153	147	35.1	.21
MAR. 22...	1045	42	10.0	8.0	270	7.8	5	170	165	19.3	.23
MAY 05...	1000	14	16.0	22.0	315	7.8	10	177	181	6.69	.24
JUNE 08...	1045	1.8	19.0	25.0	360	7.8	5	220	202	1.07	.30
JULY 27...	1030	.26	24.0	30.0	300	7.5	6	171	172	.12	.23
SEP. 07...	1100	.11	17.5	25.0	330	7.5	7	174	181	.05	.24

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 08...	4	.1	2.4	224	0	30	5.3	.1	.1	.00
DEC. 09...	4	.1	1.5	150	0	28	4.0	.1	2.8	.6
JAN. 18...	4	.1	1.0	184	0	32	5.0	.1	3.7	.8
FEB. 17...	4	.1	.9	118	0	25	4.0	.0	3.2	.7
MAR. 22...	4	.1	.9	140	0	24	3.0	.1	2.5	.6
MAY 05...	4	.1	1.0	158	0	27	4.0	.1	1.4	.3
JUNE 08...	4	.1	1.2	189	0	29	3.0	.1	1.1	.2
JULY 27...	4	.1	2.5	159	0	22	2.5	.2	.5	.1
SEP. 07...	5	.1	2.6	169	0	22	4.0	.1	.3	.1

03374470 Patoka River near English, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	21.5	18.5	12.0	5.0	3.0	8.5	6.0	1.5	0.0	10.5	9.5
2	24.5	22.0	18.5	11.5	4.0	2.0	6.5	5.5	1.5	0.5	9.5	6.0
3	23.0	20.5	17.0	10.5	3.0	1.5	7.0	6.0	1.5	1.0	7.5	5.5
4	21.5	19.5	14.0	9.5	4.5	2.0	6.0	5.0	1.0	0.0	7.0	5.5
5	19.5	17.0	13.5	9.0	4.5	4.0	6.5	6.0	0.5	0.0	6.5	4.5
6	18.5	16.0	11.5	8.5	6.0	4.5	6.0	3.5	0.5	0.0	6.0	4.0
7	16.5	14.5	9.0	6.5	10.0	6.0	3.5	2.5	1.0	0.0	7.0	6.0
8	14.5	12.5	7.0	6.0	10.0	9.5	4.0	3.0	0.5	0.0	7.0	5.5
9	16.0	14.0	8.5	6.5	9.5	9.5	4.0	3.0	1.0	0.0	6.0	4.5
10	15.0	12.0	8.5	5.5	11.5	9.5	6.5	4.0	0.5	0.0	7.0	5.5
11	13.5	11.0	9.0	4.5	11.5	8.5	8.5	6.5	2.0	0.0	9.5	5.5
12	12.5	10.5	9.0	5.0	8.5	7.0	8.5	7.0	1.5	0.5	12.0	9.5
13	14.5	11.0	11.0	8.0	7.0	6.5	7.0	5.5	3.5	1.5	11.5	9.5
14	15.0	10.5	13.0	8.5	8.5	6.5	6.5	6.0	6.0	3.5	9.5	7.0
15	16.0	11.5	14.5	11.0	11.0	8.5	6.5	3.5	6.0	5.5	8.5	6.5
16	17.5	13.5	13.5	10.5	11.0	9.5	4.0	0.0	6.0	4.0	10.0	8.0
17	17.0	14.0	13.5	9.5	9.5	8.0	0.5	0.0	6.5	4.5	9.0	7.5
18	16.5	13.0	13.0	10.5	8.0	4.5	1.0	0.0	6.5	4.5	9.5	7.0
19	18.0	12.0	13.0	8.0	4.5	3.0	2.5	1.0	4.5	3.0	9.5	7.0
20	17.5	13.0	9.5	7.5	5.5	3.0	6.0	2.0	4.0	2.0	10.5	8.5
21	18.0	14.5	8.5	6.0	8.0	5.5	7.0	6.0	6.0	3.5	11.5	10.0
22	19.0	15.0	6.5	4.0	8.0	6.0	9.0	7.0	6.5	5.5	11.5	8.0
23	19.0	14.0	4.5	3.5	6.5	5.0	8.5	8.0	5.5	4.5	8.5	6.5
24	18.5	13.5	4.5	3.5	6.0	5.5	10.0	8.0	6.0	4.5	8.0	5.5
25	18.5	13.0	6.0	3.5	7.0	6.0	9.0	4.5	6.0	5.0	8.0	6.0
26	18.0	12.5	5.0	3.0	8.5	6.5	4.5	2.0	7.0	5.5	9.0	5.5
27	17.5	12.0	5.0	4.5	10.0	8.5	2.5	0.5	7.0	5.0	8.5	8.0
28	18.0	12.5	5.5	4.0	11.5	9.5	1.0	0.5	9.0	6.0	9.5	8.0
29	18.5	13.0	5.5	4.5	9.5	6.5	1.0	0.5	10.5	8.5	9.5	7.0
30	19.0	12.0	5.5	4.0	8.5	6.0	1.0	0.0	---	---	9.5	6.5
31	19.0	13.0	---	---	11.0	8.5	1.0	0.0	---	---	9.0	7.0
MONTH	24.5	10.5	18.5	3.0	11.5	1.5	10.0	0.0	10.5	0.0	12.0	4.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
NOV. 08...	210	27	184	6.8	250	60	10	10	70	8.7	4.1
DEC. 09...	150	26	123	7.9	170	50	20	3	51	5.3	3.0
JAN. 18...	180	33	151	7.9	150	60	54	54	63	6.5	3.5
FEB. 17...	120	23	97	7.6	110	60	36	36	42	3.5	2.6
MAR. 22...	140	30	115	7.3	130	50	78	78	49	5.6	2.5
MAY 05...	160	31	130	4.8	140	40	46	36	58	3.9	2.9
JUNE 08...	180	26	155	4.4	90	40	48	34	59	8.3	3.2
JULY 27...	150	18	130	6.7	230	160	140	120	50	5.9	2.8
SEP. 07...	160	20	139	6.5	210	100	150	110	51	7.8	3.6

03374470 Patoka River near English, Ind.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	16.0	15.0	19.5	14.0	28.5	18.0	22.0	19.5	---	---
2	7.5	6.5	18.0	15.5	20.5	14.5	22.5	20.5	24.5	20.5	---	---
3	7.0	5.5	17.5	15.0	21.0	16.0	26.5	20.5	25.5	21.5	---	---
4	10.0	7.0	18.5	14.5	23.0	18.5	21.0	18.0	24.5	21.5	---	---
5	10.5	8.0	19.0	14.0	23.0	19.0	23.5	16.5	---	---	---	---
6	13.0	9.5	19.5	15.0	23.5	20.0	22.0	15.0	---	21.0	---	---
7	13.5	9.5	18.0	16.0	23.0	19.0	25.5	14.0	---	---	---	---
8	10.0	7.0	17.0	14.5	21.0	18.0	28.5	14.5	---	---	24.0	17.5
9	10.0	6.5	14.5	12.5	23.0	18.5	25.5	18.0	---	---	23.5	19.0
10	12.0	8.5	13.5	11.5	21.5	18.0	29.0	19.5	---	---	24.0	15.0
11	14.0	11.0	14.5	12.0	20.0	15.5	30.5	20.0	---	---	24.5	14.5
12	13.0	10.5	16.5	14.0	19.5	15.5	22.0	19.5	---	---	25.0	19.5
13	15.0	12.0	15.5	14.5	21.0	19.0	24.0	20.5	---	---	26.5	21.5
14	13.5	11.5	15.5	13.5	23.5	19.5	25.0	21.0	---	---	23.5	19.0
15	12.5	11.5	15.5	14.5	22.0	20.0	23.0	22.0	---	---	25.5	19.0
16	13.0	11.0	15.5	14.0	22.0	19.0	22.0	21.0	---	---	25.0	19.5
17	14.0	10.0	16.0	14.5	21.5	19.0	22.0	21.0	---	---	22.5	19.5
18	14.5	10.0	18.0	15.5	23.0	19.0	24.0	21.0	---	---	28.0	19.5
19	14.5	13.0	19.5	16.0	24.5	20.0	25.5	16.5	---	---	26.5	19.0
20	14.0	12.0	20.0	16.5	23.5	21.0	26.0	23.0	---	---	26.5	18.0
21	12.0	11.0	20.5	17.0	23.5	17.5	27.0	23.5	---	---	23.0	16.5
22	14.5	11.5	21.5	18.0	20.5	16.0	28.0	23.5	---	---	20.0	16.0
23	14.0	11.5	22.5	18.0	21.5	14.0	33.0	22.5	---	---	19.5	17.0
24	12.0	11.0	23.0	18.5	24.5	14.5	25.0	22.5	---	---	22.0	18.5
25	12.0	10.5	22.5	18.0	25.5	15.5	32.0	19.5	---	---	21.0	19.5
26	13.5	10.0	23.0	18.5	26.0	15.5	29.5	18.5	---	---	22.0	19.5
27	14.0	10.5	23.0	19.0	27.0	16.5	31.0	22.5	---	---	24.0	19.0
28	14.5	12.5	23.0	18.0	24.0	19.0	23.0	21.5	---	---	22.0	19.5
29	14.5	13.5	20.5	18.5	24.5	18.0	22.5	21.5	---	---	20.5	18.0
30	15.5	13.0	21.5	17.0	29.5	17.0	22.0	19.5	---	---	18.5	13.5
31	---	---	18.5	15.5	---	---	23.0	19.5	---	---	---	---
MONTH	15.5	5.5	23.0	11.5	29.5	14.0	33.0	14.0	---	---	---	---

03374500 Patoka River near Ellsworth, Ind.

LOCATION.—Lat 38°26'29", long 86°43'31", in SW 1/4 SE 1/4 sec.10, T.1 S., R.3 W., Dubois County, on right bank 200 ft upstream from county road bridge, 1.0 mile northwest of Ellsworth, 2.9 miles upstream from Dillon Creek, and 4 miles east of Dubois.

DRAINAGE AREA.—171 sq mi.

PERIOD OF RECORD.—June 1961 to current year.

GAGE.—Water-stage recorder. Datum of gage is 477.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft downstream at same datum.

AVERAGE DISCHARGE.—11 years, 197 cfs (15.64 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,700 cfs Apr. 16 (gage height, 15.00 ft); minimum daily, 0.18 cfs Sept. 22, 23.
Period of record: Maximum discharge, 14,700 cfs Mar. 10, 1964 (gage height, 20.02 ft); no flow Oct. 30, 1964.
Flood in March 1913 reached a stage of 19.1 ft according to information by local resident (discharge, 12,300 cfs).

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	23	68	805	55	500	380	128	19	5.7	7.1	1.7
2	9.1	21	55	446	60	1,360	247	135	17	5.3	6.6	1.2
3	8.6	20	45	344	86	1,720	195	119	15	7.1	5.7	.7
4	8.6	19	39	415	96	1,630	195	104	13	8.6	12	.7
5	9.6	18	36	687	98	1,480	181	94	13	8.1	16	.7
6	9.6	18	52	597	102	891	164	84	11	7.6	10	.76
7	9.6	19	697	404	121	475	154	73	11	6.6	22	.76
8	8.1	20	997	294	117	480	147	178	10	6.1	10	.98
9	7.6	22	668	385	108	432	126	1,040	10	6.1	7.6	1.2
10	7.1	22	422	677	88	325	113	684	9.6	5.7	5.7	1.5
11	6.6	23	330	630	84	239	157	307	9.6	5.3	4.2	1.5
12	11	23	210	418	102	195	1,530	181	9.1	4.9	3.1	1.5
13	9.6	23	145	281	221	188	1,830	420	9.6	5.3	4.2	1.2
14	7.1	22	115	195	450	268	2,110	712	11	4.9	4.9	1.2
15	7.1	21	273	128	846	344	2,570	494	10	4.9	2.8	1.2
16	23	20	616	90	895	1,280	3,370	255	9.6	48	2.2	.98
17	52	21	456	81	672	1,400	2,820	159	9.6	20	2.2	.98
18	37	21	226	79	462	1,320	2,400	121	9.6	11	1.5	.76
19	23	22	138	90	322	945	1,720	94	11	11	1.7	.56
20	18	23	162	96	216	444	1,450	73	10	8.6	1.9	.37
21	16	24	188	106	169	294	1,720	60	8.6	6.1	2.8	.37
22	21	23	150	104	154	234	1,640	49	7.6	4.9	4.9	.18
23	54	23	117	102	190	183	1,370	41	6.6	3.8	8.1	.18
24	73	23	100	100	744	150	794	34	6.1	3.5	7.6	.56
25	94	23	88	92	987	128	420	31	5.7	3.1	5.7	.76
26	73	24	82	77	1,290	113	288	25	5.3	2.8	4.2	.76
27	57	25	79	64	1,280	162	208	23	5.7	3.1	4.2	.56
28	44	33	73	54	1,060	260	169	20	6.1	5.3	4.5	.37
29	34	54	68	52	448	544	147	18	6.1	6.6	4.2	.37
30	28	77	581	52	------	732	135	18	5.7	7.6	3.1	.76
31	25	------	1,130	52	------	541	------	19	------	6.1	2.2	------
TOTAL	802.3	750	8,406	7,997	11,523	19,257	28,750	5,793	291.2	243.7	182.9	25.50
MEAN	25.9	25.0	271	258	397	621	958	187	9.71	7.86	5.90	.85
MAX	94	77	1,130	805	1,290	1,720	3,370	1,040	19	48	22	1.7
MIN	6.6	18	36	52	55	113	113	18	5.3	2.8	1.5	.18
CFSM	.15	.15	1.58	1.51	2.32	3.63	5.60	1.09	.06	.05	.03	.005
IN.	.17	.16	1.83	1.74	2.51	4.19	6.25	1.26	.06	.05	.04	.005

CAL YR 1971 TOTAL 66,248.10 MEAN 182 MAX 1,750 MIN 2.5 CFSM 1.06 IN 14.41
WTR YR 1972 TOTAL 84,021.60 MEAN 230 MAX 3,370 MIN .18 CFSM 1.35 IN 18.28

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-26	1600	11.40	1,330	03-16	2100	12.04	1,450
03-03	0300	12.78	1,770	04-16	1400	15.00	3,700

03375200 Beaver Creek Reservoir near Jasper, Ind.

LOCATION.—Lat 38°24'10", long 86°50'30", in SE 1/4 NW 1/4 sec.27, T.1 S., R.4 W., Dubois County, in intake tower of reservoir on Beaver Creek, 2.5 miles above mouth, and 5.2 miles east of Jasper.

DRAINAGE AREA.—3.87 sq mi.

PERIOD OF RECORD.—October 1955 to July 1972 (discontinued).

GAGE.—Water-stage recorder. Datum of gage is 471.00 ft above mean sea level.

EXTREMES.—Current year: Maximum contents, 3,025 acre-ft Apr. 16 (gage height, 30.24 ft); minimum, 1,699 acre-ft Dec. 23 (gage height, 23.30 ft).
Period of record: Maximum contents, 3,337 acre-ft May 8, 1961 (gage height, 31.67 ft); minimum, 1,388 acre-ft Dec. 31, 1963 (gage height, 21.22 ft).

REMARKS.—Reservoir is formed by earth and rock-fill dam. Releases normally controlled by 18-inch sluice gate into 18-inch concrete conduit through dam. Capacity at uncontrolled spillway elevation (28.1 ft) is 2,588 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir was put in operation on October 11, 1955.

COOPERATION.—Capacity tables furnished by Indiana Department of Natural Resources.

Month-end gage-height and contents, water year October 1971 to September 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	28.29	2,626	-
Oct. 31	28.28	2,624	-2
Nov. 30	28.34	2,636	+12
Dec. 31	23.82	1,782	-854
Calendar year 1971	-	-	-859
Jan. 31	25.08	2,001	+219
Feb. 29	25.42	2,066	+65
Mar. 31	28.65	2,697	+631
Apr. 30	28.42	2,651	-46
May 31	28.16	2,600	-51
June 30	27.68	2,506	-94

03375500 Patoka River at Jasper, Ind.

LOCATION.—Lat 38°24'49", long 86°52'36", in NW 1/4 SE 1/4 sec.20, T.1 S., R.4 W., Dubois County, on left bank 0.3 mile upstream from unnamed outlet of Jasper Lake, 1.0 mile downstream from Coon Seitz bridge, 1.2 miles downstream from Beaver Creek, and 3.3 miles northeast of Jasper.

DRAINAGE AREA.—262 sq mi.

PERIOD OF RECORD.—November 1947 to current year.

GAGE.—Water-stage recorder. Datum of gage is 446.19 ft above mean sea level. Nonrecording gage at bridge 5.6 miles downstream (used for high-water periods when flow exceeds 1,500 cfs) at datum 0.34 ft lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 miles downstream at datum 0.34 ft lower.

AVERAGE DISCHARGE.—24 years (1948 to current year), 345 cfs (17.88 inches per year).

EXTREMES.—Current year: Maximum discharge observed, 5,520 cfs Apr. 17 (gage height, 11.94 ft at downstream gage); maximum gage height at upstream gage, 16.49 ft Apr. 17; minimum daily discharge, 1.3 cfs Sept. 14, 24.
Period of record: Maximum discharge, 14,100 cfs Mar. 11, 1964 (gage height, 15.17 ft at downstream gage); maximum gage height at upstream gage, 21.20 ft Mar. 11, 1964, from floodmarks; no flow at times during 1948, 1952-56, 1963-65.
Flood in March 1913 reached a stage of 15.9 ft (at downstream site) from floodmark, furnished by local residents (discharge, 16,000 cfs).

REMARKS.—Records good. Flow partially regulated by Beaver Creek Reservoir. (See sta 03375200).

REVISIONS (WATER YEARS).—WSP 1909: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	36	95	1,030	80	1,370	613	183	22	5.4	7.4	5.6
2	24	32	80	958	95	1,380	425	176	22	4.1	7.4	4.9
3	19	29	68	569	129	1,460	334	169	21	4.4	8.1	4.3
4	17	26	58	453	130	1,690	286	143	19	4.4	8.8	3.7
5	14	25	55	639	181	1,880	264	124	18	4.1	7.9	3.1
6	12	23	100	720	171	1,900	239	103	16	3.7	22	2.9
7	11	23	600	590	157	1,820	218	86	14	11	28	8.3
8	11	23	900	446	225	1,510	206	86	13	4.9	23	4.0
9	9.8	23	760	432	193	972	182	560	12	3.7	26	2.2
10	10	23	600	624	211	582	154	924	11	3.8	18	1.9
11	9.1	24	500	724	146	406	170	736	11	11	14	8.8
12	8.6	26	325	616	140	332	1,050	363	10	5.1	12	3.5
13	8.1	26	220	450	207	297	1,320	328	10	3.3	9.1	1.5
14	8.3	26	180	342	415	351	1,660	722	10	10	7.2	1.3
15	12	26	230	256	720	443	3,000	732	10	4.3	6.3	5.1
16	16	24	404	184	929	1,090	4,450	509	12	3.1	7.9	9.8
17	16	22	544	169	949	1,260	5,440	318	12	13	7.2	2.7
18	56	21	411	130	746	1,460	5,020	214	10	39	5.6	5.4
19	57	21	273	124	502	1,640	4,150	155	9.1	24	4.8	2.9
20	42	22	212	134	359	1,640	3,780	114	8.6	16	4.4	5.6
21	30	22	234	146	278	1,310	3,380	86	9.1	15	5.3	2.8
22	25	23	245	157	233	690	2,940	68	9.4	12	10	5.3
23	25	26	202	155	239	377	1,830	57	8.3	9.1	10	2.8
24	44	24	158	150	574	285	1,790	49	7.2	7.4	12	1.3
25	90	24	132	140	924	226	1,670	42	6.3	6.1	17	5.9
26	114	24	118	126	1,120	189	1,250	37	5.4	5.3	14	4.6
27	105	30	108	110	1,220	208	620	32	4.9	4.6	11	3.4
28	83	40	100	90	1,320	330	326	28	4.9	5.6	8.1	3.3
29	67	65	90	83	1,410	653	240	25	4.6	7.0	6.3	3.7
30	54	110	216	80	------	915	205	24	12	7.9	5.8	3.8
31	44	------	859	79	------	857	------	23	------	7.4	5.9	------
TOTAL	1,073.9	889	9,077	10,906	14,043	29,523	47,212	7,216	342.8	265.7	340.5	124.4
MEAN	34.6	29.6	293	352	484	952	1,574	233	11.4	8.57	11.0	4.15
MAX	114	110	900	1,030	1,410	1,900	5,440	924	22	39	28	9.8
MIN	8.1	21	55	79	80	189	154	23	4.6	3.1	4.4	1.3
CFSM	.13	.11	1.12	1.34	1.85	3.63	6.01	.89	.04	.03	.04	.02
IN.	.15	.13	1.29	1.55	1.99	4.19	6.70	1.02	.05	.04	.05	.02

CAL YR 1971 TOTAL 97,444.3 MEAN 267 MAX 2,470 MIN 1.9 CFSM 1.02 IN 13.84
WTR YR 1972 TOTAL 121,013.3 MEAN 331 MAX 5,440 MIN 1.3 CFSM 1.26 IN 17.18

03375800 Hall Creek near St. Anthony, Ind.

LOCATION.—Lat 38°21'45", long 86°49'43", in NW 1/4 NW 1/4 sec.11, T.2 S., R.4 W., Dubois County, on downstream side of right pier of bridge on County Road 125 South, and 3.3 miles north of St. Anthony.

DRAINAGE AREA.—21.8 sq mi.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Altitude of the gage is 460 ft (from river-profile survey).

EXTREMES.—Current year: Maximum discharge, 584 cfs Apr. 12 (gage height, 11.43 ft); no flow for many days in June, July, and Sept.
Period of record: Maximum discharge, 584 cfs Apr. 12 (gage height, 11.43 ft); minimum daily, no flow for many days in June, July, and Sept. 1972.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	4.3	3.4	51	6.5	127	23	16	.83	0	.22	.10
2	1.3	2.1	2.8	62	7.0	359	20	15	.68	0	.24	.10
3	1.3	1.5	2.6	41	8.5	120	19	11	.59	0	.50	.10
4	3.8	1.4	2.2	81	10	72	21	10	.45	0	8.6	.10
5	1.8	1.2	2.0	51	9.2	48	19	9.8	.40	0	.62	.12
6	1.4	1.7	16	26	8.6	32	18	7.7	.37	.06	3.9	.10
7	1.3	2.7	149	22	8.2	30	17	6.7	.32	.02	2.8	.08
8	1.2	1.9	46	21	7.6	32	15	84	.24	0	.50	.10
9	1.2	1.9	40	67	7.4	24	13	77	.24	.53	.40	.12
10	1.1	1.8	43	44	7.4	22	13	27	.24	0	.32	.08
11	1.1	1.7	29	26	9.0	20	31	17	.17	0	.22	.06
12	.97	1.6	23	20	19	18	383	13	.15	0	1.0	.04
13	.97	1.5	18	18	43	23	156	84	.12	0	1.2	.01
14	1.1	1.4	17	13	67	23	448	38	.15	0	.34	0
15	1.2	1.4	69	14	107	82	424	21	.17	7.4	.24	0
16	13	1.3	26	7.5	45	340	400	15	.24	6.3	.17	0
17	3.9	1.3	18	8.0	29	107	125	11	.17	3.2	.15	0
18	2.5	1.3	12	8.5	27	51	76	8.4	.10	.57	.12	0
19	2.1	1.8	12	9.0	20	32	105	6.2	.08	.40	.12	0
20	1.7	1.7	27	11	17	26	346	4.7	.06	.32	3.8	0
21	1.7	1.5	18	10	16	23	146	3.9	.03	.27	.37	0
22	5.1	1.3	12	10	15	22	84	3.3	.02	.24	9.1	0
23	4.7	1.3	11	9.8	59	19	50	2.5	0	.22	7.2	0
24	4.8	1.4	9.8	10	154	17	34	2.0	0	.24	3.5	.01
25	5.3	1.5	8.6	7.2	179	15	25	1.7	0	.24	.59	0
26	4.0	1.5	8.6	6.5	214	14	20	1.4	0	.24	.45	0
27	3.5	2.5	7.7	6.2	65	23	17	1.2	0	.32	.34	0
28	2.7	2.6	7.7	6.0	39	20	14	.93	0	.57	.29	0
29	2.4	11	6.5	6.0	28	64	15	.83	0	2.4	.24	.01
30	2.2	5.6	232	6.0	------	38	15	1.4	0	.37	.17	.15
31	2.0	------	86	6.0	------	27	------	1.2	------	.27	.15	------
TOTAL	82.74	65.7	965.9	684.7	1,232.4	1,870	3,092	502.86	5.82	24.18	47.86	1.28
MEAN	2.67	2.19	31.2	22.1	42.5	60.3	103	16.2	.19	.78	1.54	.043
MAX	13	11	232	81	214	359	448	84	.83	7.4	9.1	.15
MIN	.97	1.2	2.0	6.0	6.5	14	13	.83	0	0	.12	0

CAL YR 1971 TOTAL 6,314.07 MEAN 17.3 MAX 394 MIN .24
WTR YR 1972 TOTAL 8,575.44 MEAN 23.4 MAX 448 MIN 0

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1215	10.44	468	04-14	0945	11.04	530
02-25	2300	10.49	472	04-16	1630	11.03	528
03-02	1015	10.65	489	04-20	1200	11.00	524
03-16	0530	10.70	494	05-08	2130	9.90	414
04-12	0615	11.43	584				

03376260 Flat Creek near Otwell, Ind.

LOCATION.—Lat 38°26'12", long 87°07'52", in SE 1/4 SE 1/4 sec.12, T.1 S., R.7 W., Pike County, on right bank at upstream side of bridge on State Highway 56, 2.2 miles west of intersection of State Highways 56 and 257, 2.5 miles southeast of Otwell, and 6.2 miles east of junction of State Highways 56 and 61.

DRAINAGE AREA.—21.3 sq mi.

PERIOD OF RECORD.—October 1964 to current year.

GAGE.—Water-stage recorder. Datum of gage is 448.00 ft above mean sea level.

AVERAGE DISCHARGE.—8 years, 19.0 cfs (12.11 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,250 cfs Apr. 16 (gage height, 11.76 ft); no flow Oct. 1-3, 7-13, 17-21, July 25-28, Sept. 11-30.
Period of record: Maximum discharge, 1,320 cfs Feb. 9 or 10, 1965 (gage height, 11.89 ft, from recorded range in stage); no flow at times each year.
Flood in March 1964 reached a stage of 12.58 ft.

REMARKS.—Records good.

REVISIONS.—WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.80	.80	13	3.7	130	9.3	14	5.0	3.7	.25	.17
2	0	.49	.57	15	6.6	499	8.2	13	4.7	3.4	.13	.17
3	0	.29	.49	12	8.5	59	10	15	4.5	1.5	16	.21
4	.61	.17	.41	24	2.5	39	15	14	4.4	1.5	4.9	1.3
5	.29	.09	.45	33	1.8	25	9.4	13	3.5	2.3	1.5	1.3
6	.13	.13	4.1	16	8.5	17	8.1	11	3.4	2.3	13	1.0
7	0	.37	56	12	14	16	9.1	9.1	3.2	.65	5.4	.85
8	0	1.0	17	18	7.2	15	8.0	13	3.2	.25	2.0	.85
9	0	1.4	8.2	51	6.4	11	6.4	13	3.2	.09	1.8	.75
10	0	1.5	15	43	6.4	12	11	9.7	3.3	.41	1.8	.21
11	0	1.2	20	24	6.5	13	20	8.8	3.8	2.5	1.5	0
12	0	.70	8.4	13	8.5	12	316	8.7	4.3	2.7	2.3	0
13	0	.53	5.6	10	11	15	186	20	5.1	2.3	2.3	0
14	.41	.53	4.0	7.5	13	16	772	12	4.1	2.3	1.5	0
15	.45	.37	35	5.1	33	118	618	8.2	7.9	1.8	2.3	0
16	.33	.21	24	2.3	24	435	804	7.5	7.1	3.0	1.5	0
17	0	.17	8.7	1.5	21	75	66	6.6	3.9	2.5	1.7	0
18	0	.21	4.8	1.9	30	29	41	5.9	3.4	.95	1.1	0
19	0	.29	3.9	3.5	9.2	16	32	5.4	3.2	.49	.57	0
20	0	.29	7.5	4.3	3.8	12	175	5.4	3.0	.37	.45	0
21	0	.85	8.4	5.2	5.9	13	108	5.7	2.9	.80	.57	0
22	.29	1.3	5.1	6.8	7.9	15	69	5.5	2.8	.61	7.3	0
23	.41	.75	4.1	6.3	52	12	31	4.6	2.7	.33	3.9	0
24	.41	.53	5.1	6.0	69	9.9	24	4.3	2.8	.09	4.2	0
25	.41	.37	4.7	3.9	64	9.1	19	4.1	3.0	0	2.2	0
26	.37	.33	3.7	1.8	86	8.4	14	4.3	3.0	0	.95	0
27	.29	.49	3.3	3.4	27	21	13	5.0	3.1	0	.75	0
28	.21	.49	3.2	5.9	19	13	12	5.6	3.0	0	.70	0
29	.33	.80	2.8	5.8	13	31	20	6.3	3.7	2.9	.59	0
30	1.1	.95	72	5.7	------	18	14	9.0	3.5	2.2	.29	0
31	1.2	------	33	4.8	------	11	------	6.2	------	.65	.13	------
TOTAL	7.24	17.60	370.32	365.7	569.4	1,725.4	3,448.5	273.9	114.7	42.59	83.52	6.81
MEAN	.23	.59	11.9	11.8	19.6	55.7	115	8.84	3.82	1.37	2.69	.23
MAX	1.2	1.5	72	51	86	499	804	20	7.9	3.7	16	1.3
MIN	0	.09	.41	1.5	1.8	8.4	6.4	4.1	2.7	0	.13	0
CFSM	.01	.03	.56	.55	.92	2.62	5.40	.42	.18	.06	.13	.01
IN.	.01	.03	.65	.64	.99	3.01	6.02	.48	.20	.07	.15	.01

CAL YR 1971 TOTAL 5,890.63 MEAN 16.1 MAX 646 MIN 0 CFSM .76 IN 10.29
WTR YR 1972 TOTAL 7,025.68 MEAN 19.2 MAX 804 MIN 0 CFSM .90 IN 12.27

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0700	10.97	868	04-14	1100	11.30	1,020
03-16	0200	11.01	884	04-16	0600	11.76	1,250
04-12	0300	10.59	726				

03376300 Patoka River at Winslow, Ind.

LOCATION.—Lat 38°22'48", long 87°13'00", in SW 1/4 SW 1/4 sec.32, T.1 S., R.7 W., Pike County, 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 miles above mouth.

DRAINAGE AREA.—603 sq mi.

PERIOD OF RECORD.—October 1963 to current year. Discharge measurements and gage readings June 1961 to Sept. 1963, obtained by Indiana Flood Control and Water Resources Commission, are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 400.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Nov. 21, 1963, nonrecording gage on downstream side of bridge 65 ft downstream at same datum.

AVERAGE DISCHARGE.—9 years, 642 cfs (14.46 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,370 cfs Apr. 18 (gage height, 26.62 ft); minimum daily, 0.58 cfs Sept. 11. Period of record: Maximum discharge, 15,500 cfs Mar. 13, 1964 (gage height, 28.84 ft); minimum daily, 0.5 cfs Aug. 5, 1964. Flood in January 1937 reached a stage of 28.9 ft, from floodmarks, information from Indiana Flood Control and Water Resources Commission.

REMARKS.—Records poor. An average 0.13 cfs is diverted for municipal water supply 100 ft above gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	85	60	650	120	1,300	1,200	2,250	54	4.0	43	1.7
2	75	70	75	730	130	1,500	1,170	1,880	48	2.8	10	1.3
3	140	62	95	780	150	1,600	1,130	1,440	36	1.5	3.8	1.1
4	110	55	120	810	170	1,700	1,020	1,170	27	1.4	8.1	.95
5	75	48	140	850	250	1,800	876	874	22	1.4	25	.80
6	55	45	300	870	355	1,900	729	623	22	1.6	61	.72
7	40	44	450	900	360	1,950	602	456	22	2.3	49	.66
8	36	45	520	910	430	2,000	534	377	20	2.6	37	.64
9	32	41	600	920	450	2,000	475	421	14	2.3	37	.61
10	30	37	680	920	430	2,010	418	646	12	1.2	28	.59
11	26	35	740	910	420	2,050	397	762	9.3	1.2	16	.58
12	23	33	780	900	400	2,100	1,280	810	6.4	1.2	11	.60
13	21	31	800	870	390	2,100	1,590	847	5.6	4.2	9.7	.60
14	19	30	790	800	450	2,100	2,650	865	8.1	4.2	8.5	.62
15	21	30	760	530	500	2,100	3,460	841	7.1	1.6	9.0	.65
16	23	29	730	370	580	2,100	6,810	830	14	15	6.6	.68
17	26	29	700	215	650	2,100	7,940	806	8.4	44	3.0	.70
18	30	30	650	200	680	2,100	8,200	701	7.5	93	1.4	.75
19	36	31	600	200	720	2,050	7,940	533	7.2	53	.95	.80
20	45	32	550	200	740	2,030	7,840	388	4.2	22	.90	.85
21	41	31	480	210	800	2,010	7,420	294	6.5	16	.90	.90
22	44	30	440	220	810	2,010	6,850	232	7.0	15	1.7	1.0
23	56	30	350	230	850	2,000	6,220	184	6.0	8.7	12	1.1
24	50	31	280	230	900	1,950	5,320	149	5.5	4.2	83	1.2
25	47	32	210	220	950	1,850	4,500	122	4.5	2.8	86	1.3
26	50	33	175	210	1,000	1,650	3,950	102	3.5	1.9	50	1.4
27	60	35	140	170	1,050	1,500	3,540	86	3.0	1.5	24	1.4
28	74	37	160	150	1,100	1,320	3,200	72	3.0	13	10	1.4
29	95	40	300	130	1,200	1,270	2,920	61	4.0	104	4.0	1.4
30	106	45	450	120	------	1,280	2,590	66	5.0	109	3.2	1.3
31	95	------	600	120	------	1,230	------	60	------	103	2.5	------
TOTAL	1,644	1,186	13,725	15,545	17,035	56,660	102,771	18,948	402.8	639.6	646.25	28.30
MEAN	53.0	39.5	443	501	587	1,828	3,426	611	13.4	20.6	20.8	.94
MAX	140	85	800	920	1,200	2,100	8,200	2,250	54	109	86	1.7
MIN	19	29	60	120	120	1,230	397	60	3.0	1.2	.90	.58
CFSM	.09	.07	.73	.83	.97	3.03	5.68	1.01	.02	.03	.03	.002
IN.	.10	.07	.85	.96	1.05	3.50	6.34	1.17	.02	.04	.04	.001

CAL YR 1971 TOTAL 195,697.00 MEAN 536 MAX 3,000 MIN 12 CFSM .89 IN 12.07
WTR YR 1972 TOTAL 229,230.95 MEAN 626 MAX 8,200 MIN .58 CFSM 1.04 IN 14.14

NOTE.—No record Oct. 1 to Mar. 30.

03376350 South Fork Patoka River near Spurgeon, Ind.

LOCATION.--Lat 38°17'50", long 87°15'39", in SE 1/4 NE 1/4 sec.35, T.2 S., R.8 W., Pike County, on right bank at downstream side of bridge on State Highway 61, 0.5 mile north of Enos Corner, and 3.1 miles north of Spurgeon.

DRAINAGE AREA.--42.8 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 420.88 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 40.7 cfs (12.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,320 cfs Apr. 16 (gage height, 12.29 ft); minimum daily, 3.6 cfs Sept. 2.
Period of record: Maximum discharge, 1,380 cfs Apr. 28, 1970 (gage height, 12.79 ft); minimum daily, 2.3 cfs Nov. 10, 14, 1964, Aug. 22, 24, 25, 1965.
Flood in March 1964 reached a stage of 13.09 ft, from floodmarks.

REMARKS.--Records good. Some slight regulation by coal-washing operation and strip-mining above gage.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	5.9	11	25	9.5	135	45	72	16	11	18	3.7
2	7.6	7.2	10	33	10	507	39	66	14	11	15	3.6
3	11	6.3	9.4	23	13	143	39	57	13	11	30	6.0
4	19	5.4	10	57	17	102	42	55	12	30	47	4.5
5	9.4	5.9	12	50	15	69	34	52	13	16	8.8	4.0
6	8.1	15	34	37	14	51	32	46	13	12	10	3.8
7	7.2	13	156	35	12	50	34	45	12	11	8.8	3.8
8	7.2	8.1	42	36	12	45	33	57	11	9.4	6.7	4.0
9	8.1	8.5	35	66	11	35	26	51	12	8.5	6.7	3.8
10	7.2	8.1	54	52	11	31	28	43	12	8.1	5.7	3.8
11	7.2	7.6	31	36	17	29	110	41	10	6.8	5.4	4.0
12	6.8	7.2	21	27	35	27	503	35	10	6.3	5.7	4.0
13	5.9	7.2	17	25	43	51	137	96	11	5.9	5.7	4.3
14	6.3	6.8	16	17	50	45	666	59	10	5.9	5.2	6.0
15	22	6.3	52	15	73	211	746	43	12	39	4.9	4.3
16	18	6.8	28	14	42	437	785	39	11	25	4.6	4.6
17	9.4	6.3	19	13	38	119	280	35	9.4	14	4.6	4.6
18	8.5	6.8	13	18	36	72	200	30	9.4	9.4	4.6	4.6
19	7.6	13	15	25	24	52	182	27	10	7.2	4.3	4.6
20	7.2	9.4	28	20	19	55	523	23	9.4	6.8	4.3	4.7
21	7.6	8.5	19	16	19	62	293	20	9.0	6.3	4.3	6.0
22	18	7.6	13	13	18	66	199	19	9.0	5.9	7.4	4.6
23	11	7.6	13	12	67	46	145	18	5.4	5.4	9.2	5.2
24	9.4	9.4	11	10	189	39	118	17	7.2	5.4	11	5.2
25	9.0	9.4	11	9.5	170	35	100	16	8.5	5.9	5.7	6.7
26	7.6	9.4	13	9.0	140	31	87	15	9.4	5.4	5.4	7.4
27	6.8	15	12	9.0	67	70	79	15	9.4	5.4	5.0	5.7
28	6.8	12	11	8.5	50	52	72	15	17	200	4.5	4.7
29	6.3	23	10	8.5	42	214	82	15	15	42	4.2	10
30	6.8	15	81	8.5	------	84	73	29	11	28	4.0	7.8
31	6.8	------	36	9.0	------	55	------	22	------	22	3.8	------
TOTAL	287.9	277.7	943.4	737.0	1,263.5	3,020	5,732	1,173	331.1	586.0	270.5	150.0
MEAN	9.29	9.26	27.2	23.8	43.6	97.4	191	37.8	11.0	18.9	8.73	5.00
MAX	22	23	156	66	189	507	785	96	17	200	47	10
MIN	5.9	5.4	9.4	8.5	9.5	27	26	15	5.4	5.4	3.8	3.6
CFSM	.22	.22	.64	.56	1.02	2.28	4.46	.88	.26	.44	.20	.12
IN.	.25	.24	.73	.64	1.10	2.62	4.98	1.02	.29	.51	.24	.13

CAL YR 1971 TOTAL 11,923.6 MEAN 32.7 MAX 519 MIN 5.0 CFSM .76 IN 10.36
WTR YR 1972 TOTAL 14,672.1 MEAN 40.1 MAX 785 MIN 3.6 CFSM .94 IN 12.75

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	0600	9.28	926	04-16	0600	12.29	1,320
03-15	0100	9.65	974	04-20	0900	10.30	1,060
04-12	0200	10.86	1,130	07-28	1800	6.32	575
04-14	0500	11.15	1,170				

03376500 Patoka River near Princeton, Ind.

LOCATION.—Lat 38°23'30", long 87°32'55", in Location 107, T.1 S., R.10 W., Gibson County, on left bank 75 ft upstream from dam of Princeton Water and Lighting Co., 0.1 mile downstream from bridge on State Highway 65, 0.5 mile downstream from Indian Creek, and 2 miles northeast of Princeton.

DRAINAGE AREA.—822 sq mi.

PERIOD OF RECORD.—August 1934 to current year. Published as "at Patoka" August 1934 to September 1940. Records published for both sites October 1939 to September 1940 (monthly discharge only at present site, for October, November 1939, published in WSP 1305).

GAGE.—Water-stage recorder and concrete control. Datum of gage is 394.14 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). See WSP 1725 for history of changes prior to Jan. 21, 1941.

AVERAGE DISCHARGE.—38 years, 967 cfs (15.98 inches per year).

EXTREMES.—Current year: Maximum discharge, 10,200 cfs Apr. 21 (gage height, 19.41 ft); minimum daily, 14 cfs Sept. 18.
Period of record: Maximum discharge, 18,700 cfs Jan. 26, 1937 (gage height, 26.80 ft, site and datum then in use); no flow Aug. 29 to Sept. 12, 1936.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1940(M), 1949-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	121	80	748	234	1,540	1,930	4,300	109	40	130	36
2	88	103	93	850	238	1,970	1,850	3,850	100	36	83	32
3	95	95	112	916	258	2,000	1,760	3,480	95	36	127	29
4	138	85	146	968	234	2,090	1,670	3,150	90	34	450	27
5	103	75	178	1,030	342	2,190	1,590	2,840	85	58	115	26
6	80	70	190	1,060	483	2,280	1,490	2,570	80	46	109	23
7	80	70	572	1,100	600	2,380	1,390	2,280	78	42	138	21
8	75	75	666	1,130	612	2,450	1,230	2,060	75	38	100	20
9	68	68	730	1,170	603	2,510	1,040	1,800	70	32	88	18
10	60	65	827	1,200	581	2,580	886	1,430	68	30	85	15
11	50	65	889	1,210	539	2,620	794	1,170	63	29	73	15
12	44	65	922	1,210	530	2,630	1,180	1,040	58	26	63	15
13	42	63	940	1,210	562	2,630	1,360	1,050	58	24	58	15
14	40	60	944	1,180	612	2,590	2,490	1,060	63	23	53	17
15	38	58	994	1,140	709	2,610	2,970	1,050	80	30	50	17
16	53	55	941	1,060	820	2,810	4,490	1,030	118	73	50	17
17	63	55	848	893	896	2,910	5,740	1,020	80	90	48	15
18	63	55	791	665	955	2,970	7,330	996	68	106	42	14
19	78	53	764	605	988	2,940	8,260	964	68	118	38	15
20	80	58	760	580	1,010	2,850	9,360	886	63	85	32	15
21	68	60	728	554	1,040	2,740	10,100	722	55	63	30	15
22	75	55	658	520	1,060	2,610	10,000	598	50	58	38	15
23	98	53	605	514	1,090	2,500	9,820	390	50	55	73	21
24	93	53	570	504	1,140	2,420	9,220	250	44	46	142	20
25	85	55	532	473	1,180	2,350	8,520	202	40	38	146	24
26	80	55	478	406	1,290	2,280	7,690	170	38	34	115	26
27	78	55	402	350	1,330	2,250	6,770	146	40	32	85	30
28	88	60	322	314	1,380	2,200	5,930	127	40	234	65	29
29	127	65	282	274	1,420	2,140	5,230	118	50	541	50	29
30	142	78	583	258	------	2,080	4,750	115	48	210	42	38
31	130	------	688	214	------	2,000	------	130	------	182	38	------
TOTAL	2,492	2,003	18,235	24,306	22,736	75,120	136,840	41,034	2,024	2,489	2,756	649
MEAN	80.4	66.8	588	784	784	2,423	4,561	1,324	67.5	80.3	88.9	21.6
MAX	142	121	994	1,210	1,420	2,970	10,100	4,300	118	541	450	38
MIN	38	53	80	214	234	1,540	794	115	38	23	30	14
CFSM	.10	.08	.72	.95	.95	2.95	5.55	1.61	.08	.10	.11	.03
IN.	.11	.09	.83	1.10	1.03	3.40	6.19	1.86	.09	.11	.12	.03

CAL YR 1971 TOTAL 270,683 MEAN 742 MAX 4,230 MIN 32 CFSM .90 IN 12.25
WTR YR 1972 TOTAL 330,684 MEAN 904 MAX 10,100 MIN 14 CFSM 1.10 IN 14.97

03377500 Wabash River at Mount Carmel, Ill.

LOCATION.—Lat 38°24'07", long 87°45'10", in SE 1/4 NW 1/4 sec.28, T.1 S., R.12 W., Wabash County, on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.1 mile downstream from Patoka River, and at mile 94.5.

DRAINAGE AREA.—28,600 sq mi, approximately.

PERIOD OF RECORD.—January 1908 to September 1913 (gage heights only), October 1927 to current year. Gage-height records collected in this vicinity November 1874 to December 1878, are contained in files of Louisville office of the Corps of Engineers and since June 1884, are contained in reports of U.S. Weather Bureau.

GAGE.—Water-stage recorder. Datum of gage is 371.46 ft above mean sea level. See WSP 1725 for history of changes prior to Sept. 30, 1949.

AVERAGE DISCHARGE.—45 years, 26,110 cfs (12.40 inches per year).

EXTREMES.—Current year: Maximum discharge, 134,000 cfs Apr. 27 (gage height, 24.27 ft); minimum daily, 5,050 cfs Nov. 21, 22.
Period of record: Maximum discharge, 305,000 cfs May 25, 1943, maximum gage height, 28.62 ft Feb. 5, 6, 1969; minimum daily discharge, 1,650 cfs Sept. 27, 28, 1941.
1874-78, 1884-1971: Maximum discharge, 428,000 cfs (from rating curve extended above 310,000 cfs) Mar. 30, 1913 (gage height, 31.0 ft, present site and datum).

REMARKS.—Records good. Natural flow of stream affected by storage reservoirs and power development.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,960	7,240	5,290	27,800	16,000	21,800	21,000	114,000	18,100	11,600	8,060	6,440
2	9,380	7,060	5,410	32,000	14,300	26,000	22,300	101,000	18,900	11,500	7,740	6,080
3	9,610	6,760	5,430	35,900	13,100	33,700	24,300	85,500	18,800	11,400	8,130	5,820
4	9,060	6,560	5,600	39,300	12,700	37,600	25,600	73,300	18,600	11,100	11,200	5,630
5	8,100	6,290	5,660	41,000	13,000	38,300	25,000	64,600	18,000	13,900	10,800	5,460
6	7,340	6,220	5,870	40,700	13,100	39,100	24,200	58,300	18,200	15,800	9,740	5,400
7	6,790	6,000	6,190	38,600	12,900	41,400	24,500	52,800	18,200	13,600	10,400	5,430
8	6,430	5,720	7,160	36,200	11,800	43,000	25,200	47,000	16,100	12,500	10,300	5,560
9	6,280	5,650	9,280	33,700	11,300	43,900	31,000	42,700	16,100	12,700	9,810	7,060
10	6,090	5,560	12,400	31,600	11,500	42,600	39,200	39,200	16,200	12,600	8,800	6,860
11	6,080	5,470	15,100	30,300	11,500	38,800	44,700	37,300	15,200	12,100	8,360	8,900
12	5,910	5,420	19,700	29,500	11,500	34,100	51,400	37,400	14,300	11,000	7,900	8,800
13	5,760	5,440	24,000	29,300	11,500	29,800	59,000	38,800	14,400	9,950	7,540	8,160
14	5,690	5,540	27,000	29,400	11,600	26,100	68,300	39,800	13,900	9,290	7,510	7,710
15	5,690	5,400	30,300	29,500	11,700	24,100	76,000	39,700	15,200	9,110	7,870	7,090
16	5,740	5,280	34,700	28,100	12,400	25,000	85,000	39,100	24,000	9,040	8,490	6,760
17	5,680	5,280	40,100	24,500	13,800	29,000	94,800	38,000	27,900	8,730	9,220	8,320
18	5,830	5,250	43,900	20,700	15,700	33,000	104,000	37,700	31,600	9,570	8,490	13,400
19	6,270	5,140	46,900	16,800	17,700	35,700	110,000	38,300	33,900	9,430	7,770	15,600
20	6,620	5,150	49,300	15,900	18,900	36,100	114,000	38,400	33,600	9,150	7,220	15,000
21	6,680	5,050	51,000	16,100	19,200	34,900	120,000	37,000	29,900	9,460	7,020	13,200
22	6,770	5,050	51,700	17,800	18,200	32,400	127,000	34,600	25,700	10,500	6,930	12,600
23	6,760	5,160	50,400	20,800	17,500	29,400	130,000	31,600	22,100	11,400	7,190	13,000
24	6,910	5,220	46,900	21,400	17,400	26,300	131,000	29,000	19,100	12,000	7,510	12,900
25	6,880	5,190	42,900	21,200	18,300	23,900	132,000	27,000	16,600	12,300	7,580	12,300
26	6,610	5,210	38,400	21,400	19,200	22,200	133,000	25,000	15,000	11,800	7,540	11,800
27	6,640	5,260	34,200	21,800	21,100	21,200	134,000	23,000	13,700	11,300	7,020	12,500
28	6,980	5,130	30,600	21,700	22,000	20,600	133,000	21,200	12,800	10,500	6,600	16,200
29	7,620	5,310	27,000	20,300	21,900	20,000	131,000	19,200	12,100	10,100	6,760	22,600
30	7,920	5,290	24,600	18,500	------	20,000	125,000	18,100	11,600	9,290	6,990	28,600
31	7,690	------	25,700	17,100	------	20,400	------	17,600	------	8,490	6,800	------
TOTAL	214,770	168,300	822,690	828,900	440,800	950,400	2,365.5M	1,346.2M	579,800	341,210	253,290	315,180
MEAN	6,928	5,610	26,540	26,740	15,200	30,660	78,850	43,430	19,330	11,010	8,171	10,510
MAX	9,610	7,240	51,700	41,000	22,000	43,900	134,000	114,000	33,900	15,800	11,200	28,600
MIN	5,680	5,050	5,290	15,900	11,300	20,000	21,000	17,600	11,600	8,490	6,600	5,400
CFSM	.24	.20	.93	.94	.53	1.07	2.76	1.52	.68	.39	.29	.37
IN.	.28	.22	1.07	1.08	.57	1.24	3.08	1.75	.75	.44	.33	.41

CAL YR 1971 TOTAL 7,454,610 MEAN 20,420 MAX 121,000 MIN 4,700 CFSM .71 IN 9.70
WTR YR 1972 TOTAL 8,627,040 MEAN 23,570 MAX 134,000 MIN 5,050 CFSM .82 IN 11.22

03378000 Bonpas Creek at Browns, Ill.

LOCATION.—Lat 38°23'11", long 87°58'32", in NW 1/4 SE 1/4 sec.33, T.1 S., R.14 W., Wabash County, near center of span on downstream side of bridge on State Highway 15, 0.5 mile north of Browns, and 0.7 mile upstream from Southern Railway bridge.

DRAINAGE AREA.—228 sq mi.

PERIOD OF RECORD.—October 1940 to current year.

GAGE.—Water-stage recorder. Datum of gage is 372.92 ft above mean sea level. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mile downstream at datum 2.0 ft higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mile downstream at datum 1.0 ft lower. Auxiliary nonrecording gage near mouth on Wabash River at Grayville read twice daily.

AVERAGE DISCHARGE.—32 years, 211 cfs (12.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,860 cfs Apr. 16 (gage height, 21.43 ft); no flow for several days.
Period of record: Maximum discharge, 7,500 cfs May 9, 1961 (gage height, 24.04 ft, site and datum then in use); no flow at times in most years.

REMARKS.—Records fair except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	56	1.8	392	48	73	4.1	2.3	3.5	3.0
2	0		0	44	1.9	1,070	35	67	3.4	3.2	2.4	14
3	.11		0	20	2.4	1,020	28	51	2.9	5.2	3.8	25
4	.28		0	12	2.8	871	25	38	5.4	4.9	32	4.9
5	0		0	8.0	2.4	451	33	36	13	4.0	66	3.2
6	0		0	7.0	6.6	134	50	35	3.5	3.0	68	2.3
7	0		2.6	4.5	22	76	46	34	2.8	2.4	129	1.6
8	0		1.3	3.5	41	52	33	38	2.4	1.9	77	1.2
9	0		1.7	4.0	30	38	25	38	2.1	1.5	28	.79
10	0		4.1	11	20	30	23	47	1.9	1.1	12	.48
11	0		3.0	14	17	26	74	42	1.6	.91	6.7	.33
12	0		2.0	10	16	23	893	26	1.4	.67	5.0	.17
13	0		1.6	7.7	17	42	1,090	27	1.3	.51	3.8	.08
14	0		2.0	6.5	19	46	2,840	26	1.2	.30	2.8	8.3
15	0		7.2	5.5	17	272	3,340	25	105	.52	2.2	4.9
16	0		15	4.5	20	730	3,770	20	204	1.1	2.2	3.8
17	0		11	4.0	18	420	3,560	16	77	1.1	2.2	2.9
18	0		4.6	3.5	16	200	3,180	13	30	1.1	1.6	2.0
19	0		3.5	3.5	17	100	2,710	11	14	.85	1.1	1.3
20	0		5.6	3.7	16	64	2,540	9.0	9.2	.62	2.2	.90
21	0		4.6	4.2	8.2	50	2,500	7.8	6.8	.40	2.4	.64
22	0		3.4	4.2	6.9	46	3,070	6.7	5.6	.20	1.8	.34
23	0		2.5	3.8	16	39	3,180	5.9	4.4	.07	52	.30
24	0		1.9	3.7	80	32	2,840	5.3	3.7	.05	362	.36
25	0		1.5	3.3	121	27	2,360	4.7	3.1	.02	159	.51
26	0		1.3	2.7	263	23	1,690	4.1	2.6	0	34	38
27	0		1.1	2.6	170	39	963	3.7	2.1	10	12	65
28	0		.85	2.3	99	43	154	4.2	1.9	112	7.5	24
29	0		.68	2.1	58	66	70	6.7	4.2	52	5.9	9.8
30	0		10	2.0	------	86	75	6.6	2.1	9.6	4.8	6.7
31	0	------	71	1.9	------	68	------	5.0	------	5.3	3.9	------
TOTAL	.39	0	164.03	265.7	1,126.0	6,576	41,245	732.7	522.7	226.82	1,096.8	226.80
MEAN	.013	0	5.29	8.57	38.8	212	1,375	23.6	17.4	7.32	35.4	7.56
MAX	.28	0	71	56	263	1,070	3,770	73	204	112	362	65
MIN	0	0	0	1.9	1.8	23	23	3.7	1.2	0	1.1	.08
CFSM	.0001	0	.02	.04	.17	.93	6.03	.10	.08	.03	.16	.03
IN.	0	0	.03	.04	.18	1.07	6.73	.12	.09	.04	.18	.04

CAL YR 1971 TOTAL 42,867.36 MEAN 117 MAX 2,190 MIN 0 CFSM .51 IN 6.99
WTR YR 1972 TOTAL 52,182.94 MEAN 143 MAX 3,770 MIN 0 CFSM .63 IN 8.51

03378550 Big Creek near Wadesville, Ind.

LOCATION.—Lat 38°04'58", long 87°46'10", in SW 1/4 SW 1/4 sec.16, T.5 S., R.12 W., Posey County, on left bank at downstream side of bridge on U.S. Highway 460 (S.R. 66), 0.6 mile northwest of Blairsville, and 1.6 miles southeast of Wadesville.

DRAINAGE AREA.—104 sq mi.

PERIOD OF RECORD.—July 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 370.00 ft above mean sea level.

AVERAGE DISCHARGE.—7 years, 99.7 cfs (13.02 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,940 cfs Apr. 16 (gage height, 18.84 ft); no flow Sept. 6-14, 17-24.
Period of record: Maximum discharge, 5,370 cfs Apr. 28, 1970 (gage height, 19.18 ft); no flow at times each year.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.2	2.8	40	13	376	52	73	3.6	4.1	13	.12
2	2.8	1.1	1.9	36	15	2,070	42	74	3.0	2.8	8.8	.06
3	27	1.1	1.5	30	17	474	39	51	2.3	2.4	8.0	2.4
4	175	1.1	1.2	55	15	229	38	42	174	82	369	1.8
5	15	.90	1.4	69	13	148	34	41	1,220	47	38	.27
6	8.0	1.4	8.4	51	118	107	34	35	62	5.9	21	0
7	6.0	3.9	168	40	117	95	34	30	31	2.9	34	0
8	4.5	3.2	55	44	48	75	30	41	21	1.9	12	0
9	3.0	2.3	30	87	29	56	22	55	16	1.5	6.8	0
10	2.0	1.7	40	96	22	51	26	31	13	1.3	4.4	0
11	1.5	1.5	50	63	18	48	1,220	24	9.8	1.1	3.0	0
12	1.1	1.4	24	47	27	43	1,090	22	8.5	.89	3.2	0
13	.90	1.3	17	42	40	59	183	96	8.5	.71	3.5	0
14	.80	1.1	14	27	40	69	2,020	78	7.8	.44	2.2	0
15	70	1.0	157	22	71	518	3,000	36	36	276	1.6	1.7
16	100	1.2	90	14	62	2,060	4,210	26	23	748	1.2	.27
17	20	.93	36	15	52	316	1,400	21	8.3	186	.89	0
18	5.0	.85	22	22	55	142	204	17	5.7	90	.71	0
19	3.0	1.1	19	24	33	100	132	14	5.1	12	.44	0
20	2.3	1.3	29	20	25	80	1,420	12	4.4	5.9	.27	0
21	1.7	1.4	28	18	24	70	488	10	3.6	3.6	.19	0
22	1.3	1.3	19	19	23	81	372	8.5	3.2	2.4	110	0
23	1.0	1.0	17	20	46	56	175	7.2	2.6	1.6	23	0
24	3.5	1.2	17	18	372	45	126	6.4	2.3	24	121	0
25	14	1.3	15	14	253	42	97	5.1	1.9	48	26	5.1
26	9.0	1.3	16	9.0	282	38	78	4.7	1.7	4.4	4.7	5.1
27	5.0	1.7	14	11	124	49	66	4.5	1.5	147	2.4	7.0
28	3.0	1.9	13	16	95	53	57	17	1.9	1,070	1.5	1.8
29	1.8	2.8	11	18	71	214	57	5.9	122	1,230	.98	22
30	1.5	3.3	146	13	------	109	59	7.6	12	90	.62	29
31	1.3	------	78	11	------	67	------	5.0	------	27	.35	------
TOTAL	493.90	46.78	1,142.2	1,011.0	2,120	7,940	16,805	900.9	1,815.7	4,120.84	822.75	76.62
MEAN	15.9	1.56	36.8	32.6	73.1	256	560	29.1	60.5	133	26.5	2.55
MAX	175	3.9	168	96	372	2,070	4,210	96	1,220	1,230	369	29
MIN	.80	.85	1.2	9.0	13	38	22	4.5	1.5	.44	.19	0
CFSM	.15	.02	.35	.31	.70	2.46	5.38	.28	.58	1.28	.25	.02
IN.	.18	.02	.41	.36	.76	2.84	6.01	.32	.65	1.47	.29	.03

CAL YR 1971 TOTAL 34,098.38 MEAN 93.4 MAX 3,010 MIN .40 CFSM .90 IN 12.20
WTR YR 1972 TOTAL 37,295.69 MEAN 102 MAX 4,210 MIN 0 CFSM .98 IN 13.34

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
03-02	1200	17.34	2,510	04-16	0700	18.84	4,940
03-16	0900	17.41	2,570				

04087500 Hart ditch at Munster, Ind.

LOCATION.—Lat 41°33'40", long 87°28'50", in SE 1/4 NW 1/4 sec.20, T.36 N., R.9 W., Lake County, on left bank at city limits of Munster, 0.2 mile downstream from Ridge Road, and 0.4 mile upstream from mouth.

DRAINAGE AREA.—70.7 sq mi (revised).

PERIOD OF RECORD.—September 1942 to current year.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 591.27 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft upstream from base gage.

AVERAGE DISCHARGE.—30 years, 56.3 cfs (10.81 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,250 cfs Sept. 13 (gage height, 4.44 ft); minimum daily, 2.1 cfs Nov. 17.
Period of record: Maximum discharge, 2,670 cfs Apr. 28, 1959; maximum gage height, 7.83 ft Oct. 11, 1954; minimum daily discharge, 1.6 cfs Dec. 24-26, 31, 1963, Jan. 1, 2, Sept. 4-9, 14-17, 1964.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.1	4.2	210	13	74	175	43	9.6	7.8	7.0	28
2	4.8	10	3.6	140	12	79	170	43	8.7	7.0	8.7	27
3	4.8	3.6	3.1	103	12	50	131	40	7.0	7.8	7.8	24
4	4.2	2.6	2.6	77	11	44	108	37	6.2	7.0	7.0	19
5	4.2	4.8	3.1	49	11	28	88	42	8.4	6.2	7.0	17
6	4.2	3.1	13	40	10	24	89	48	22	6.2	25	16
7	4.2	3.1	6.2	35	10	30	270	152	8.7	6.2	40	22
8	14	3.1	5.5	38	10	24	290	210	7.8	13	24	18
9	7.0	4.2	4.8	52	10	19	273	260	7.8	14	16	16
10	6.2	3.6	240	68	10	18	172	230	7.0	7.8	12	14
11	5.5	3.1	227	60	10	19	114	122	7.0	7.0	16	18
12	4.2	3.1	84	50	10	29	86	84	18	6.2	240	12
13	3.6	3.2	50	46	11	350	74	84	100	7.8	140	95
14	3.6	3.1	46	36	14	550	62	79	250	13	72	490
15	4.2	2.6	194	30	36	480	68	81	200	60	49	146
16	3.6	2.6	202	27	37	420	137	68	152	9.6	36	74
17	3.6	2.1	106	24	44	350	202	50	70	24	29	52
18	3.6	2.6	56	26	40	238	111	43	43	116	23	43
19	3.1	3.1	48	33	38	152	81	34	33	54	18	36
20	3.6	2.6	40	48	30	117	77	29	28	34	16	30
21	3.6	2.6	36	46	25	106	94	25	23	25	15	33
22	3.6	2.6	29	56	25	111	205	21	18	16	146	28
23	4.2	2.6	27	70	25	90	199	18	15	12	102	30
24	3.6	2.6	27	60	23	70	114	16	14	12	119	29
25	3.1	2.6	27	40	18	56	86	14	12	10	69	50
26	3.1	2.6	30	31	18	50	64	14	10	15	260	42
27	2.6	4.2	32	25	19	54	54	12	9.6	9.6	196	33
28	2.6	2.6	30	21	33	72	48	12	10	7.8	103	46
29	2.6	9.0	33	18	50	79	44	10	10	6.2	64	178
30	2.6	5.5	320	15	------	86	43	12	8.7	5.5	49	117
31	2.6	------	370	14	------	131	------	9.6	------	4.8	36	------
TOTAL	131.9	106.2	2,300.1	1,588	615	4,000	3,729	1,942.6	1,124.5	538.5	1,952.5	1,783
MEAN	4.25	3.54	74.2	51.2	21.2	129	124	62.7	37.5	17.4	63.0	59.4
MAX	14	10	370	210	50	550	290	260	250	116	260	490
MIN	2.6	2.1	2.6	14	10	18	43	9.6	6.2	4.8	7.0	12
CFSM	.06	.05	1.05	.72	.30	1.82	1.75	.89	.53	.25	.89	.84
IN.	.07	.06	1.21	.84	.32	2.10	1.96	1.02	.59	.28	1.03	.94

CAL YR 1971 TOTAL 12,895.1 MEAN 35.3 MAX 500 MIN 2.1 CFSM .50 IN 6.78
WTR YR 1972 TOTAL 19,811.3 MEAN 54.1 MAX 550 MIN 2.1 CFSM .77 IN 10.42

PEAK DISCHARGE (BASE, 800 CFS).—Sept. 13 (2400) 1,250 cfs (4.44 ft).

04087600 Little Calumet River at Munster, Ind.

LOCATION.—Lat 41°34'07", long 87°31'18", in SE 1/4 NW 1/4 sec.13, T.36 N., R.10 W., Lake County, on left bank 200 ft upstream from Hohman Street bridge at north city limits of Munster, 0.4 mile upstream from Indiana-Illinois State line, and 4.6 miles upstream from mouth of Thorn Creek.

DRAINAGE AREA.—90.0 sq mi. During times of floods on Deep River, flow may enter basin from eastern portion of Little Calumet River basin; or during times of floods on Hart ditch, flow may leave the basin and enter eastern portion of the Little Calumet River basin.

PERIOD OF RECORD.—June 1958 to current year.

GAGE.—Water-stage recorder. Datum of gage is 580.72 ft above mean sea level.

AVERAGE DISCHARGE.—14 years, 62.3 cfs (9.40 inches per year).

EXTREMES.—Current year: Maximum discharge, 588 cfs Sept. 14 (gage height, 10.92 ft); minimum daily, 4.0 cfs Nov. 4, 21, Dec. 4. Period of record: Maximum discharge, 1,510 cfs Apr. 28, 1959 (gage height, 13.67 ft); maximum gage height, 14.43 ft Dec. 25, 1965; minimum daily discharge, 1.9 cfs Aug. 20, 1964.

REMARKS.—Records good. Flow from Upper Little Calumet River basin is diverted to Lake Michigan by Burns ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	4.9	5.4	258	17	96	176	51	12	12	9.0	49
2	7.7	15	5.1	218	16	100	170	48	12	11	11	44
3	6.9	5.3	4.5	149	15	70	133	43	10	11	9.2	39
4	6.7	4.0	4.0	100	14	45	113	39	9.2	10	9.0	32
5	6.5	5.1	4.3	64	14	34	93	38	9.4	9.7	8.3	26
6	6.3	5.0	17	50	13	37	83	56	28	9.4	31	22
7	6.3	4.2	9.4	44	13	32	277	132	13	9.4	54	32
8	24	4.5	7.5	50	13	28	298	202	11	14	33	29
9	14	5.4	6.9	65	13	27	255	262	11	26	19	23
10	8.5	5.3	263	85	13	22	207	213	10	12	14	19
11	7.1	4.9	314	75	13	21	162	154	9.7	10	21	22
12	6.7	4.6	171	65	13	28	141	115	16	9.0	244	17
13	6.7	4.9	104	50	15	390	121	110	127	8.3	192	44
14	6.5	4.6	75	43	18	549	103	102	250	10	99	493
15	6.7	4.5	226	37	44	475	101	100	270	101	70	272
16	6.1	4.2	240	32	52	420	154	92	195	22	49	162
17	6.0	4.3	157	30	55	378	204	70	111	29	39	120
18	6.3	4.3	106	40	51	293	146	56	72	124	30	100
19	6.0	4.8	75	48	45	224	109	46	53	76	24	82
20	5.6	4.3	61	60	37	182	105	37	46	56	20	70
21	5.8	4.0	52	58	32	157	107	33	36	41	17	70
22	5.1	4.2	43	48	31	151	206	28	28	27	124	60
23	5.8	4.5	38	80	29	128	211	24	22	20	216	56
24	6.1	4.5	36	70	26	104	145	21	20	19	203	51
25	6.0	4.3	33	55	23	87	110	18	17	16	135	71
26	5.4	4.5	35	40	23	74	86	17	16	21	283	67
27	4.8	6.5	37	32	26	79	70	15	14	18	257	54
28	4.6	5.1	37	26	35	89	60	14	14	13	151	49
29	4.8	9.2	31	22	65	97	53	13	16	12	110	244
30	5.3	7.7	314	20	------	104	51	15	13	10	80	182
31	4.6	------	377	18	------	130	------	14	------	9.4	60	------
TOTAL	217.2	158.6	2,889.1	2,032	774	4,651	4,250	2,178	1,471.3	774.2	2,620.5	2,601
MEAN	7.01	5.29	93.2	65.5	26.7	150	142	70.3	49.0	25.0	84.5	86.7
MAX	24	15	377	258	65	549	298	262	270	124	283	493
MIN	4.6	4.0	4.0	18	13	21	51	13	9.2	8.3	8.3	17
CFSM	.09	.06	1.04	.73	.30	1.67	1.58	.78	.54	.28	.94	.96
IN	.09	.07	1.19	.84	.32	1.92	1.76	.90	.61	.32	1.08	1.08

CAL YR 1971 TOTAL 15,285.30 MEAN 41.9 MAX 377 MIN .10 CFSM .47 IN 6.32
WTR YR 1972 TOTAL 24,614.90 MEAN 67.3 MAX 549 MIN 4.0 CFSM .75 IN 10.17

NOTE.—No gage-height record Jan. 4 to Mar. 6.

04090500 Thorn Creek at Thornton, Ill.

LOCATION.—Lat 41°34'05", long 87°36'30", near center of N 1/2 sec.34, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on Margaret Street in Thornton, 1 mile downstream from North Creek, and at mile 4.25.

DRAINAGE AREA.—104 sq mi.

PERIOD OF RECORD.—May 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 586.43 ft above mean sea level. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 92.6 cfs (12.09 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,410 cfs Mar. 14 (gage height, 10.33 ft); minimum daily, 26 cfs Oct. 3, 4. Period of record: Maximum discharge, 4,700 cfs July 13, 1957 (gage height, 16.00 ft); minimum daily, 4.4 cfs Sept. 11, 1949. Flood of Apr. 5, 1947, reached a stage of 14.34 ft, from floodmark (discharge, 4,200 cfs).

REMARKS.—Records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 cfs pumped from ground-water sources for municipal supply and an undetermined amount of ground-water pumpage for industrial use.

REVISIONS.—WSP 1707: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	31	31	202	38	121	291	78	42	39	34	60
2	29	54	28	130	38	122	225	77	41	38	41	58
3	26	34	29	98	39	84	157	71	40	37	34	56
4	26	30	28	72	38	71	145	66	37	33	33	49
5	27	34	29	60	37	57	116	64	41	32	31	48
6	27	32	65	57	37	56	107	98	106	34	67	46
7	28	28	45	54	37	57	595	246	57	36	212	64
8	58	30	36	50	36	55	396	222	47	35	76	64
9	48	39	37	55	35	54	301	287	60	49	52	47
10	35	38	431	61	35	52	214	184	50	34	42	40
11	33	37	489	57	36	49	149	120	41	33	58	47
12	34	36	145	55	43	53	132	96	240	32	517	41
13	34	35	72	54	47	853	118	102	325	37	257	82
14	32	33	52	47	53	1,200	104	100	400	32	134	656
15	33	33	368	46	86	654	107	105	620	144	93	299
16	31	36	295	49	76	583	305	86	340	50	77	125
17	28	35	150	41	72	432	331	77	160	46	69	83
18	29	36	85	46	76	288	184	70	100	467	61	68
19	30	42	66	52	60	194	129	65	75	159	54	60
20	31	38	57	60	52	152	130	61	90	96	48	57
21	29	36	50	57	51	155	141	57	62	69	45	63
22	30	36	42	62	54	178	475	55	53	58	137	56
23	34	41	40	64	52	134	260	54	51	49	309	70
24	29	40	41	59	51	106	157	53	48	45	446	57
25	30	36	37	51	48	94	118	47	46	45	170	65
26	34	36	43	48	48	88	102	44	43	40	497	69
27	35	49	44	44	52	106	90	42	42	44	286	59
28	33	35	48	42	73	118	83	41	41	39	146	56
29	34	52	39	40	101	127	80	40	43	39	98	430
30	30	47	384	39	------	152	76	44	42	35	79	226
31	30	------	466	38	------	204	------	43	------	34	69	------
TOTAL	997	1,119	3,772	1,890	1,501	6,649	5,818	2,795	3,383	1,960	4,272	3,201
MEAN	32.2	37.3	122	61.0	51.8	214	194	90.2	113	63.2	138	107
MAX	58	54	489	202	101	1,200	595	287	620	467	517	656
MIN	26	28	28	38	35	49	76	40	37	32	31	40
CFSM	.31	.36	1.17	.59	.50	2.06	1.87	.87	1.09	.61	1.33	1.03
IN.	.36	.40	1.35	.68	.54	2.38	2.08	1.00	1.21	.70	1.53	1.14

CAL YR 1971 TOTAL 24,300 MEAN 66.6 MAX 607 MIN 21 CFSM .64 IN 8.69
WTR YR 1972 TOTAL 37,357 MEAN 102 MAX 1,200 MIN 26 CFSM .98 IN 13.36

04091000 Little Calumet River at South Holland, Ill.

LOCATION.—Lat 41°36'05", long 87°34'38", in SW 1/4 SW 1/4 sec.13, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on U.S. Highway 6, 0.6 mile downstream from Thorn Creek, 1.6 miles east of South Holland, and at mile 21.66.

DRAINAGE AREA.—205 sq mi.

PERIOD OF RECORD.—October 1947 to current year.

GAGE.—Water-stage recorder. Datum of gage is 575.00 ft above mean sea level (Illinois Division of Water Resource Management bench mark). Prior to Oct. 27, 1947, nonrecording gage at same site and datum. Nov. 17, 1947, to Nov. 19, 1970, auxiliary water-stage recorder at Dixmoor, 6.1 miles downstream; prior to Nov. 17, 1947, nonrecording gage at same site, read twice daily.

AVERAGE DISCHARGE.—25 years, 164 cfs.

EXTREMES.—Current year: Maximum discharge, 1,820 cfs Mar. 14 (gage height, 14.19 ft); minimum daily, 37 cfs Oct. 31, Nov. 8. Period of record: Maximum discharge, 4,440 cfs July 14, 1957 (gage height, 20.11 ft); minimum daily, 7.9 cfs Oct. 6, 1950. Flood of Apr. 6, 1947, reached a stage of 19.24 ft, from floodmarks (discharge, 4,760 cfs).

REMARKS.—Records good except those for winter periods, which are fair. Flow from upper Little Calumet River basin is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 miles below station, diverts the entire flow to the Mississippi River basin.

REVISIONS (WATER YEARS).—WSP 1507: 1950, 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	38	49	674	66	201	494	142	61	61	58	134
2	42	70	44	463	65	249	480	143	59	60	69	120
3	39	46	44	357	67	167	363	126	55	60	57	115
4	41	40	41	285	64	143	321	114	53	56	58	96
5	47	39	43	210	61	103	256	112	50	53	54	89
6	44	40	77	180	60	91	234	193	127	55	113	81
7	44	39	76	150	61	97	912	436	74	59	317	105
8	85	37	56	120	62	89	868	536	61	69	170	136
9	96	42	53	140	61	78	714	642	61	107	94	88
10	56	45	812	180	61	74	552	548	68	64	73	74
11	49	43	1,090	171	62	71	415	366	54	62	91	84
12	50	43	468	151	68	94	337	260	94	60	820	74
13	54	41	243	149	86	1,280	325	248	505	62	661	156
14	57	41	170	118	73	1,770	254	238	688	63	342	1,270
15	54	40	750	110	136	1,320	246	256	1,000	366	214	850
16	53	42	743	102	134	1,090	491	214	716	115	148	444
17	50	41	441	97	129	940	663	169	339	78	125	285
18	48	42	246	109	141	716	439	143	212	804	104	214
19	45	46	176	130	109	530	304	126	143	422	90	178
20	40	45	142	152	97	423	288	111	157	213	79	149
21	48	42	127	156	90	382	291	101	117	139	71	151
22	44	40	107	158	87	412	784	94	98	103	341	139
23	43	42	99	189	82	341	625	88	86	85	840	151
24	43	44	98	171	84	260	410	86	79	74	898	132
25	42	42	91	153	76	213	296	75	76	74	473	147
26	41	40	97	125	71	183	232	72	70	69	970	179
27	40	52	101	97	73	200	190	66	68	77	770	137
28	38	45	108	83	99	237	165	63	65	67	446	147
29	39	55	93	79	153	255	149	61	70	63	291	900
30	38	71	1,060	73	------	301	143	64	67	59	212	612
31	37	------	1,120	68	------	374	------	67	------	57	162	------
TOTAL	1,490	1,333	8,865	5,400	2,478	12,684	12,241	5,960	5,373	3,756	9,211	7,437
MEAN	48.1	44.4	286	174	85.4	409	408	192	179	121	297	248
MAX	96	71	1,120	674	153	1,770	912	642	1,000	804	970	1,270
MIN	37	37	41	68	60	71	143	61	50	53	54	74

CAL YR 1971 TOTAL 49,279 MEAN 135 MAX 1,160 MIN 30
WTR YR 1972 TOTAL 76,228 MEAN 208 MAX 1,770 MIN 37

04093000 Deep River at Lake George Outlet at Hobart, Ind.

LOCATION.—Lat 41°32'10", long 87°15'25", in NW 1/4 NW 1/4 sec.32, T.36 N., R.7 W., Lake County, on left bank at upstream side of highway bridge, 300 ft upstream from Duck Creek, and 400 ft downstream from Lake George Dam.

DRAINAGE AREA.—124 sq mi (revised).

PERIOD OF RECORD.—April 1947 to current year.

GAGE.—Water-stage recorder. Datum of gage is 588.17 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft upstream at datum 11.80 ft higher.

AVERAGE DISCHARGE.—25 years, 96.5 cfs (10.57 inches per year).

EXTREMES.—Current year: Maximum discharge, 973 cfs May 9 (gage height, 9.53 ft); minimum daily, 7.6 cfs Nov. 21.
Period of record: Maximum discharge, 3,880 cfs Oct. 11, 1954 (gage height, 19.48 ft, present datum, site then in use); minimum daily, 4.2 cfs Sept. 14, 1948.

REMARKS.—Records good. Flow occasionally regulated by Lake George Dam.

REVISIONS (WATER YEARS).—WSP 1337: 1953. WSP 1507: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	15	474	36	83	183	111	32	19	16	50
2	14	19	12	350	35	111	204	116	29	18	17	47
3	14	17	10	256	37	106	186	109	27	34	15	45
4	14	14	9.8	182	35	95	169	95	25	28	15	42
5	13	17	10	135	30	76	148	84	24	21	15	37
6	13	13	14	97	30	60	130	92	27	19	20	31
7	13	9.8	16	93	29	65	262	228	29	17	34	32
8	17	9.8	18	77	26	57	484	513	29	17	36	39
9	19	14	18	81	24	49	500	883	23	28	25	44
10	19	14	79	138	23	44	413	863	22	24	20	37
11	18	12	243	152	23	43	322	642	23	20	19	33
12	15	14	250	128	25	42	246	459	24	16	31	32
13	16	13	160	109	29	267	206	356	88	15	61	41
14	17	15	99	82	34	772	174	299	169	15	65	498
15	16	12	128	66	51	769	165	214	168	30	53	603
16	17	12	220	53	65	677	181	199	187	23	45	359
17	16	13	222	44	69	620	291	192	124	19	39	200
18	14	14	139	43	68	516	291	160	81	94	32	173
19	15	15	93	55	59	407	220	132	59	174	28	146
20	13	13	68	78	48	314	180	111	48	114	24	103
21	13	7.6	56	95	50	222	167	95	39	66	22	78
22	13	8.3	48	103	47	170	256	81	34	44	29	61
23	13	8.7	42	138	46	187	351	70	28	32	56	59
24	15	9.0	40	145	43	165	312	60	27	25	106	59
25	16	9.4	37	125	40	141	234	53	25	21	97	66
26	16	9.4	39	84	38	122	176	46	23	29	152	105
27	18	12	44	75	36	117	141	44	22	31	229	120
28	10	11	40	61	41	117	119	39	21	27	165	104
29	12	14	36	52	56	124	107	36	21	23	112	205
30	14	18	180	45	------	124	101	31	20	20	82	283
31	14	------	448	39	------	135	------	32	------	18	62	------
TOTAL	462	380.0	2,833.8	3,656	1,173	6,797	6,919	6,445	1,498	1,081	1,722	3,732
MEAN	14.9	12.7	91.4	118	40.4	219	231	208	49.9	34.9	55.5	124
MAX	19	19	448	474	69	772	500	883	187	174	229	603
MIN	10	7.6	9.8	39	23	42	101	31	20	15	15	31
CFSM	.12	.10	.73	.94	.32	1.75	1.85	1.66	.40	.28	.44	.99
IN.	.14	.11	.84	1.09	.35	2.02	2.06	1.92	.45	.32	.51	1.11

CAL YR 1971 TOTAL 23,614.6 MEAN 64.7 MAX 680 MIN 7.6 CFSM .52 IN 7.03
WTR YR 1972 TOTAL 36,698.8 MEAN 100 MAX 883 MIN 7.6 CFSM .80 IN 10.92

PEAK DISCHARGE (BASE, 700 CFS).—Mar. 14 (2000) 848 cfs (8.98 ft). May 9 (1300) 973 cfs (9.53 ft).

04093500 Burns ditch at Gary, Ind.

LOCATION.—Lat 41°34'30", long 87°17'20", in SE 1/4 NW 1/4 sec.13, T.36 N., R.8 W., Lake County, on left bank at downstream side of bridge on Central Avenue, 0.4 mile east of Gary, and 0.4 mile downstream from confluence of Deep River and Little Calumet River.

DRAINAGE AREA.—160 sq mi. During times of floods flow may leave the basin by flowing west through Little Calumet River into the western portion of Calumet River basin; or during times of floods on Hart ditch, flow may enter the basin from western portion of the Little Calumet River basin.

PERIOD OF RECORD.—October 1943 to current year (October 1950 to September 1955, high-water records only).

GAGE.—Water-stage recorder. Datum of gage is 577.04 ft above mean sea level. Prior to July 28, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years (1943-50, 1955 to current year), 135 cfs (11.46 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,020 cfs May 10 (gage height, 9.34 ft); minimum daily, 10 cfs Nov. 21.
Period of record: Maximum discharge, 3,430 cfs Oct. 11, 1954; maximum gage height, 16.44 ft Mar. 16, 1944, from graph based on gage readings; minimum daily discharge, 2.6 cfs Oct. 14, 1946.

REMARKS.—Records poor. Burns ditch is an artificial channel which reverses the direction of flow of part of Little Calumet River and flows into Lake Michigan at Wickliffe.

REVISIONS (WATER YEARS).—WSP 1034: 1944. WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	16	19	601	47	100	225	137	34	24	20	64
2	18	24	14	526	45	140	265	149	33	23	21	60
3	18	23	13	419	47	129	250	145	31	43	19	58
4	18	18	13	260	45	102	243	125	29	36	19	54
5	17	22	14	190	40	99	190	110	29	28	19	47
6	17	17	18	130	38	65	166	125	32	24	25	39
7	17	14	21	75	37	64	348	270	35	22	43	40
8	21	13	23	98	37	83	521	535	35	22	46	48
9	24	16	23	105	31	61	597	830	29	35	31	56
10	24	18	152	150	30	51	551	998	28	31	25	50
11	23	17	342	195	30	46	469	822	29	26	24	43
12	19	18	390	165	32	65	388	608	30	22	39	41
13	21	19	290	140	37	385	322	470	70	19	76	45
14	22	20	185	105	43	801	260	380	133	19	82	620
15	21	18	230	83	64	923	240	292	180	38	67	782
16	22	17	336	68	83	844	237	194	200	30	56	590
17	20	18	366	56	87	808	328	200	152	24	49	340
18	18	18	265	54	86	620	385	156	100	70	41	215
19	19	18	160	65	75	520	350	129	74	176	36	185
20	17	14	127	90	61	400	297	102	61	128	31	145
21	17	10	102	120	64	280	242	84	49	86	28	115
22	17	11	74	130	61	220	305	80	43	56	37	84
23	17	12	59	170	59	230	417	75	35	42	80	76
24	19	13	52	180	55	220	450	64	34	33	135	76
25	21	13	49	160	53	185	400	57	32	27	125	82
26	21	13	51	136	49	163	287	52	29	37	210	120
27	23	17	54	102	46	154	214	46	27	39	285	150
28	13	19	51	85	50	154	172	43	27	35	222	132
29	15	17	46	67	74	165	145	40	26	29	165	310
30	18	23	235	61	------	155	138	37	25	25	128	410
31	18	------	542	52	------	168	------	36	------	23	83	------
TOTAL	595	506	4,316	4,838	1,506	8,400	9,402	7,391	1,671	1,272	2,267	5,077
MEAN	19.2	16.9	139	156	51.9	271	313	238	55.7	41.0	73.1	169
MAX	24	24	542	601	87	923	597	998	200	176	285	782
MIN	13	10	13	52	30	46	138	36	25	19	19	39
CFSM	.12	.11	.87	.98	.32	1.69	1.96	1.49	.35	.26	.46	1.06
IN.	.14	.12	1.00	1.12	.35	1.95	2.19	1.72	.39	.30	.53	1.18

CAL YR 1971 TOTAL 34,050.0 MEAN 93.3 MAX 834 MIN 3.0 CFSM .58 IN 7.92
WTR YR 1972 TOTAL 47,241.0 MEAN 129 MAX 998 MIN 10 CFSM .81 IN 10.98

NOTE.—No gage-height record Oct. 5 to Nov. 8.

04094000 Little Calumet River at Porter, Ind.

LOCATION.—Lat 41°37'18", long 87°05'13", in NE 1/4 NE 1/4 sec.34, T.37 N., R.6 W., Porter County, on right bank at downstream end of county road bridge, 200 ft upstream from bridge on U.S. Highway 20, 0.8 mile northwest of Porter, and 4.5 miles upstream from Salt Creek.

DRAINAGE AREA.—66.2 sq mi (revised).

PERIOD OF RECORD.—May 1945 to current year.

GAGE.—Water-stage recorder. Datum of gage is 603.48 ft above mean sea level. Prior to June 26, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—27 years, 69.3 cfs (14.22 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,300 cfs Sept. 15 (gage height, 8.83 ft); minimum daily, 24 cfs Oct. 3, July 13, 30, Aug. 1, 5.
Period of record: Maximum discharge, 3,110 cfs Oct. 10, 1954 (gage height, 11.66 ft); minimum daily, 17 cfs Aug. 24, 1965.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1084: 1945. WSP 1337: 1946–47, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	29	40	258	41	101	96	69	33	31	24	27
2	25	32	52	144	40	115	113	72	32	28	26	29
3	24	34	48	107	40	80	102	66	32	28	25	30
4	27	31	47	94	39	67	90	57	31	27	25	28
5	28	29	47	76	38	55	79	50	30	27	24	27
6	27	30	51	65	37	63	70	51	31	27	26	26
7	28	29	61	60	38	53	124	104	30	25	30	28
8	31	27	54	54	39	56	176	213	29	25	29	35
9	50	28	50	71	40	48	126	323	28	31	27	30
10	50	30	97	114	41	42	101	271	29	29	25	27
11	33	30	312	100	41	43	82	134	28	27	31	29
12	32	30	212	85	41	50	72	86	28	26	34	30
13	30	30	104	72	49	236	73	74	37	24	26	35
14	33	30	76	60	53	647	66	76	35	26	47	463
15	32	30	104	52	76	360	68	81	49	53	72	1,020
16	30	29	176	45	63	271	79	76	35	40	44	320
17	26	30	126	41	61	244	124	66	31	30	34	120
18	25	29	77	54	82	168	93	58	29	92	29	156
19	27	29	66	98	63	117	72	52	29	103	28	363
20	26	31	64	100	67	91	76	48	29	50	28	209
21	26	29	62	111	57	82	71	45	28	37	26	98
22	26	28	57	91	67	85	94	43	27	32	51	65
23	28	28	65	115	57	77	91	40	27	28	78	54
24	29	28	66	91	48	68	72	38	28	28	83	53
25	30	30	65	76	45	64	63	36	28	29	50	57
26	30	31	68	65	44	60	56	35	27	26	49	109
27	31	33	67	54	44	62	52	34	27	28	40	90
28	31	34	67	48	53	70	49	33	26	27	35	60
29	28	36	62	44	78	68	48	32	46	26	31	202
30	30	43	157	43	------	70	55	32	41	24	29	463
31	30	------	483	42	------	88	------	33	------	25	28	------
TOTAL	929	917	3,083	2,530	1,482	3,701	2,533	2,428	940	1,059	1,134	4,283
MEAN	30.0	30.6	99.5	81.6	51.1	119	84.4	78.3	31.3	34.2	36.6	143
MAX	50	43	483	258	82	647	176	323	49	103	83	1,020
MIN	24	27	40	41	37	42	48	32	26	24	24	26
CFSM	.45	.49	1.58	1.30	.81	1.89	1.34	1.24	.50	.54	.58	2.27
IN.	.55	.54	1.82	1.50	.88	2.19	1.50	1.44	.56	.63	.67	2.53

CAL YR 1971 TOTAL 21,647 MEAN 59.3 MAX 568 MIN 23 CFSM .94 IN 12.80
WTR YR 1972 TOTAL 25,019 MEAN 68.4 MAX 1,020 MIN 24 CFSM 1.09 IN 14.80

PEAK DISCHARGE (BASE, 700 CFS).—Mar. 14 (0700) 740 cfs (7.55 ft). Sept. 15 (0500) 1,300 cfs (8.83 ft).

04094500 Salt Creek near McCool, Ind.

LOCATION.—Lat 41°35'48", long 87°08'40", in SE 1/4 SE 1/4 sec.6, T.36 N., R.6 W., Porter County, on left bank on downstream side of highway bridge, 50 ft downstream from New York Central Railroad bridge, 1.2 miles north of McCool, and 1.5 miles upstream from Little Calumet River.

DRAINAGE AREA.—74.6 sq mi (revised).

PERIOD OF RECORD.—May 1945 to current year.

GAGE.—Water-stage recorder. Datum of gage is 594.10 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 25, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—27 years, 69.2 cfs (12.60 inches per year).

EXTREMES.—Current year: Maximum discharge, 894 cfs Sept. 15 (gage height, 8.03 ft); minimum daily, 24 cfs July 31.
Period of record: Maximum discharge, 3,180 cfs Oct. 11, 1954 (gage height, 14.12 ft); minimum daily, 14 cfs Sept. 8, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1337: 1946-48(M), 1950(M), drainage area. WSP 1911: 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	30	55	320	41	89	110	74	35	34	28	32
2	33	37	49	170	40	106	112	78	34	30	27	41
3	32	36	47	119	40	76	96	70	33	30	27	43
4	37	31	46	96	39	66	93	63	32	29	25	37
5	33	30	47	78	38	56	84	56	29	28	27	34
6	33	30	57	68	38	49	75	61	34	28	32	33
7	33	30	75	62	38	50	162	142	35	27	30	33
8	36	31	68	56	39	49	218	235	32	27	28	51
9	45	31	64	71	40	45	165	373	32	30	25	41
10	39	33	149	119	40	43	126	390	32	30	27	35
11	36	33	280	99	41	43	102	219	31	28	30	34
12	34	33	260	78	44	46	87	118	30	27	26	39
13	33	34	133	68	50	193	86	96	40	27	45	48
14	37	33	91	58	50	554	82	96	40	27	70	686
15	35	33	136	52	77	418	88	114	64	42	94	716
16	33	33	210	48	65	264	106	105	45	40	40	300
17	32	33	155	46	59	196	156	86	35	29	35	122
18	33	33	98	44	74	148	118	72	32	84	32	206
19	32	34	74	79	56	116	89	62	31	58	31	206
20	32	36	69	85	51	97	92	55	31	40	31	134
21	31	34	69	99	49	86	93	51	30	36	30	90
22	31	33	62	90	50	90	129	46	29	33	50	71
23	31	33	56	120	46	87	133	44	29	30	122	63
24	32	33	57	90	45	74	99	42	29	28	149	64
25	30	34	56	74	44	67	80	39	29	28	72	79
26	33	34	60	58	43	63	67	37	29	30	86	134
27	32	39	64	50	44	63	61	36	29	29	63	114
28	30	43	63	46	52	71	56	34	28	27	45	82
29	30	45	55	43	68	70	54	34	42	26	39	225
30	30	59	185	42	------	74	60	35	47	25	36	314
31	30	------	432	41	------	98	------	35	------	24	34	------
TOTAL	1,032	1,041	3,322	2,569	1,401	3,547	3,079	2,998	1,028	1,011	1,436	4,107
MEAN	33.3	34.7	107	82.9	48.3	114	103	96.7	34.3	32.6	46.3	137
MAX	45	59	432	320	77	554	218	390	64	84	149	716
MIN	30	30	46	41	38	43	54	34	28	24	25	32
CFSM	.42	.44	1.36	1.05	.61	1.45	1.31	1.23	.44	.41	.59	1.74
IN.	.49	.49	1.57	1.21	.66	1.68	1.46	1.42	.49	.48	.68	1.94

CAL YR 1971 TOTAL 23,916 MEAN 65.5 MAX 780 MIN 27 CFSM .83 IN 11.30
WTR YR 1972 TOTAL 26,571 MEAN 72.6 MAX 716 MIN 24 CFSM .92 IN 12.56

PEAK DISCHARGE (BASE, 600 CFS).—Mar. 14 (1200) 626 cfs (6.93 ft). Sept. 15 (0100) 894 cfs (8.03 ft).

04095300 Trail Creek at Michigan City, Ind.

LOCATION.—Lat 41°43'00", long 86°51'35", in SW 1/4 NE 1/4 sec.27, T.38 N., R.4 W., LaPorte County, on left downstream wingwall of bridge on Springland Avenue in Michigan City, 1.0 mile upstream from Otter Creek, and 4.2 miles upstream from mouth.

DRAINAGE AREA.—54.1 sq mi.

PERIOD OF RECORD.—June 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 584.02 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 714 cfs Mar. 14 (gage height, 8.33 ft); minimum daily, 25 cfs July 13.
Period of record: Maximum discharge, 714 cfs Mar. 14, 1972 (gage height, 8.33 ft); minimum daily, 21 cfs July 20, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	34	38	108	48	104	113	64	40	36	26	28
2	30	42	36	87	49	104	138	72	38	35	29	32
3	34	38	37	80	50	74	103	66	38	35	28	32
4	47	36	35	72	52	68	93	58	38	32	28	28
5	36	36	38	64	53	56	81	56	36	32	26	27
6	33	35	50	58	54	54	74	56	38	32	31	27
7	35	34	47	58	57	54	153	140	37	29	34	33
8	47	35	42	61	60	51	109	195	35	29	32	36
9	51	37	42	92	64	44	97	231	35	32	30	29
10	49	38	189	130	65	44	85	129	35	29	27	28
11	51	37	173	93	65	45	75	86	34	27	31	39
12	42	37	98	75	59	55	70	72	35	26	32	45
13	42	37	65	68	53	466	73	73	56	25	28	82
14	44	36	58	62	54	489	68	78	41	28	75	181
15	40	36	129	58	73	200	68	83	49	79	85	88
16	36	36	135	56	62	209	84	75	36	36	42	51
17	35	36	82	80	62	155	104	65	34	31	35	51
18	35	37	61	109	83	109	81	60	33	94	31	265
19	35	40	54	125	65	89	70	58	33	69	36	204
20	34	39	57	124	63	79	79	55	34	43	33	92
21	34	35	55	124	58	76	73	52	32	43	29	64
22	37	35	49	105	67	85	91	50	32	37	40	54
23	38	35	49	117	56	76	79	47	31	31	50	55
24	39	36	51	83	53	68	68	47	32	30	42	56
25	39	35	49	74	50	65	62	46	33	30	33	74
26	37	36	54	72	49	61	59	44	32	29	42	124
27	39	43	54	68	49	70	58	40	31	32	35	91
28	35	41	54	66	63	84	57	39	31	30	32	63
29	35	48	48	60	85	80	56	38	58	28	31	316
30	35	47	275	54	------	85	63	40	42	27	30	203
31	35	------	258	49	------	105	------	42	------	26	28	------
TOTAL	1,191	1,127	2,462	2,532	1,721	3,404	2,484	2,257	1,109	1,122	1,111	2,498
MEAN	38.4	37.6	79.4	81.7	59.3	110	82.8	72.8	37.0	36.2	35.8	83.3
MAX	51	48	275	130	85	489	153	231	58	94	85	316
MIN	30	34	35	49	48	44	56	38	31	25	26	27
CFSM	.71	.70	1.47	1.51	1.10	2.03	1.53	1.35	.68	.67	.66	1.54
IN.	.82	.77	1.69	1.74	1.18	2.34	1.71	1.55	.76	.77	.76	1.72

CAL YR 1971 TOTAL 18,504 MEAN 50.7 MAX 464 MIN 21 CFSM .94 IN 12.72
WTR YR 1972 TOTAL 23,018 MEAN 62.9 MAX 489 MIN 25 CFSM 1.16 IN 15.83

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1330	4.85	257	07-19	1900	4.69	239
12-31	0030	5.79	370	09-14	0600	4.54	222
03-14	0100	8.33	714	09-18	1900	5.57	343
05-09	0600	4.80	251	09-29	1000	5.72	361

04096100 Galena River near LaPorte, Ind.

LOCATION.—Lat 41°44'54", long 86°40'30", in SE 1/4 NW 1/4 sec.17, T.38 N., R.2 W., LaPorte County, on left bank at downstream side of bridge on County Road 125 East, 1.3 miles upstream from Indiana-Michigan State line, and 9.8 miles north of Court House in LaPorte.

DRAINAGE AREA.—17.2 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 625.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 160 cfs Mar. 13 (gage height, 6.23 ft); minimum daily, 8.1 cfs July 12, 13.
Period of record: Maximum discharge, about 200 cfs Feb. 5, 1971 (gage height, unknown); minimum daily, 6.9 cfs Aug. 31, 1970.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	23	44	18	59	42	23	15	13	8.8	9.8
2	18	22	20	38	19	55	42	27	14	12	10	12
3	21	24	19	35	19	39	33	24	14	11	9.8	13
4	21	18	17	31	19	35	32	22	13	10	9.8	11
5	26	17	20	29	19	31	28	20	13	9.8	8.6	10
6	22	16	27	27	20	29	27	22	15	9.6	10	8.6
7	23	15	30	26	21	28	38	43	15	8.8	12	10
8	27	16	25	27	23	27	33	62	13	8.8	13	15
9	33	16	23	34	24	26	32	76	14	10	11	11
10	46	17	57	38	25	24	29	43	14	9.8	8.8	11
11	48	16	82	32	25	26	26	33	14	8.6	10	17
12	32	16	44	28	24	28	25	29	14	8.1	13	25
13	26	15	35	29	22	136	27	30	24	8.1	10	26
14	27	16	31	28	23	104	24	33	14	11	27	63
15	22	16	52	26	28	60	24	36	19	29	44	39
16	19	15	56	24	25	62	34	31	16	19	22	27
17	17	15	38	26	25	52	43	28	15	14	16	23
18	17	15	31	30	33	45	31	25	14	28	13	69
19	17	19	29	43	26	40	25	23	13	21	16	65
20	16	17	29	43	25	38	30	22	13	17	14	36
21	17	15	29	43	26	36	27	21	12	15	12	26
22	20	15	26	41	33	40	35	20	11	20	12	24
23	21	16	25	42	27	37	31	19	13	16	16	22
24	23	16	26	33	24	34	27	18	13	13	15	22
25	23	16	25	29	22	32	24	17	13	11	13	29
26	22	16	26	25	22	31	22	16	12	11	15	57
27	21	21	26	22	21	33	20	16	11	12	14	35
28	19	21	25	21	36	36	19	15	11	10	13	27
29	18	22	23	19	45	34	20	15	20	9.6	11	76
30	18	26	86	18	------	34	22	15	16	9.3	10	55
31	18	------	72	18	------	39	------	15	------	9.6	9.8	------
TOTAL	716	521	1,077	949	719	1,330	872	839	428	403.1	427.6	874.4
MEAN	23.1	17.4	34.7	30.6	24.8	42.9	29.1	27.1	14.3	13.0	13.8	29.1
MAX	48	26	86	44	45	136	43	76	24	29	44	76
MIN	16	15	17	18	18	24	19	15	11	8.1	8.6	8.6
CFSM	1.34	1.01	2.02	1.78	1.44	2.49	1.69	1.58	.83	.76	.80	1.69
IN.	1.55	1.13	2.33	2.05	1.56	2.88	1.89	1.81	.93	.87	.92	1.89

CAL YR 1971 TOTAL 7,836.5 MEAN 21.5 MAX 180 MIN 8.1 CFSM 1.25 IN 16.95
WTR YR 1972 TOTAL 9,156.1 MEAN 25.0 MAX 136 MIN 8.1 CFSM 1.45 IN 19.80

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-11	0145	5.14	115	05-09	0700	4.29	87
12-30	1815	5.50	129	09-18	2300	4.48	95
03-13	1315	6.23	160	09-29	1700	4.57	93

04097970 Lime Lake Outlet at Panama, Ind.

LOCATION.—Lat 41°42'46", long 85°07'10", in NW 1/4 NW 1/4 sec.35, T.38 N., R.12 E., Steuben County, on right bank 10 ft downstream from dam for Lime Lake, 30 ft upstream from bridge on Orland Road, and 0.7 mile northwest of Panama.

DRAINAGE AREA.—17.5 sq mi, of which 3.68 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 950.00 ft above mean sea level.

EXTREMES.—Current year: Maximum daily discharge, 17 cfs Apr. 22-25; no flow for many days.
Period of record: Maximum discharge, 26 cfs Apr. 20, 1970 (gage height, 4.38 ft); no flow at times most years.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	3.4	6.4	4.6	2.5	2.2	0	12	6.5	.74	.48	.41
2	0	3.4	6.3	4.6	2.4	2.4	0	13	6.1	.79	.79	.65
3	.02	.20	6.0	4.5	2.4	2.4	.02	13	6.3	.84	.70	1.1
4	0	.13	5.8	4.2	2.4	2.3	.02	14	6.0	.70	.52	1.0
5	0	.26	5.6	4.2	2.3	2.2	.02	14	5.8	.61	.28	.79
6	0	.03	5.8	3.9	2.3	2.2	.03	14	5.2	.52	.70	.56
7	0	0	5.8	3.8	2.3	2.1	.08	13	4.8	.48	1.4	.45
8	.02	0	5.6	3.7	2.2	2.0	.10	13	4.4	.70	1.4	.38
9	0	0	5.5	3.5	2.1	2.1	.10	13	3.9	.74	1.4	.34
10	0	0	5.9	3.5	2.0	2.1	.10	13	3.2	.74	1.1	.31
11	0	0	5.5	3.3	1.9	2.0	.10	13	2.8	.74	1.1	.34
12	0	0	5.4	3.2	1.8	.84	.11	13	2.4	.70	1.4	.52
13	0	0	5.1	3.2	1.8	0	.50	13	2.4	.79	1.4	1.1
14	0	.02	5.1	3.2	1.8	0	1.0	13	2.4	.84	1.4	6.5
15	0	0	5.4	3.1	1.9	0	3.5	13	2.8	1.8	1.8	6.0
16	0	0	5.0	2.9	1.9	0	10	13	2.6	1.8	1.6	5.8
17	0	0	4.7	2.8	1.9	0	11	13	2.2	1.8	1.3	5.0
18	.02	.06	4.6	2.7	1.9	0	12	13	2.0	1.8	1.1	5.9
19	.02	.05	4.5	2.7	1.8	0	14	12	2.0	2.1	.84	5.5
20	0	.10	4.5	3.0	1.8	0	15	12	2.2	2.2	.65	5.0
21	0	.02	4.2	3.0	1.7	0	16	12	1.8	2.1	.74	3.5
22	.17	.02	4.1	3.1	1.7	0	17	11	1.3	1.9	.65	2.8
23	.48	.03	4.1	3.1	1.7	0	17	10	.70	1.8	1.2	2.4
24	.95	.03	3.8	3.1	1.7	0	17	9.6	.70	1.7	1.6	2.2
25	1.1	.03	3.7	3.0	1.7	0	17	8.8	.56	1.7	1.4	2.6
26	1.5	4.6	3.7	2.9	1.9	0	16	7.7	.56	1.3	1.0	4.0
27	3.3	7.2	3.7	2.8	1.8	0	15	6.8	.56	1.4	.95	4.5
28	3.1	6.9	3.3	2.8	1.8	0	14	5.9	.61	1.2	.61	4.0
29	3.4	6.8	3.2	2.7	1.8	0	13	6.5	.74	.95	.52	4.8
30	3.9	6.7	4.6	2.6	------	0	12	8.0	.70	.79	.52	4.8
31	3.4	------	4.7	2.5	------	0	------	7.0	------	.61	.48	------
TOTAL	21.38	39.98	151.6	102.2	57.2	24.84	221.68	353.3	84.23	36.88	31.03	83.25
MEAN	.69	1.33	4.89	3.30	1.97	.80	7.39	11.4	2.81	1.19	1.00	2.78
MAX	3.9	7.2	6.4	4.6	2.5	2.4	17	14	6.5	2.2	1.8	6.5
MIN	0	0	3.2	2.5	1.7	0	0	5.9	.56	.48	.28	.31
CFSM	.04	.08	.28	.19	.11	.05	.42	.65	.16	.07	.06	.16
IN.	.05	.08	.32	.22	.12	.05	.47	.75	.18	.08	.07	.18

CAL YR 1971 TOTAL 1,488.71 MEAN 4.08 MAX 16 MIN 0 CFSM .23 IN 3.16
WTR YR 1972 TOTAL 1,207.57 MEAN 3.30 MAX 17 MIN 0 CFSM .19 IN 2.57

NOTE.—No gage-height record Apr. 11 to May 16.

04098500 Fawn River near White Pigeon, Mich.

LOCATION.—Lat 41°46'56", long 85°35'00", in SW 1/4 sec.10, T.8 S., R.11 W., St. Joseph County, on right bank 0.3 mile downstream from bridge on county highway, 3.1 miles east of White Pigeon, and 3.5 miles upstream from Sherman Mill Creek.

DRAINAGE AREA.—192 sq mi.

PERIOD OF RECORD.—July 1903 to July 1904 (gage heights and discharge measurements only), October 1957 to current year.

GAGE.—Water-stage recorder. Datum of gage is 805.4 ft above mean sea level.

AVERAGE DISCHARGE.—15 years, 151 cfs (10.68 inches per year).

EXTREMES.—Current year: Maximum discharge, 252 cfs Apr. 21 (gage height, 3.21 ft); minimum, 46 cfs Oct. 5 (gage height, 1.90 ft).
Period of record: Maximum daily discharge, 600 cfs Jan. 30, 1969; minimum discharge, 26 cfs Aug. 5, 1964; minimum gage height, 1.72 ft Jan. 10, Sept. 10, 1964.
A daily mean discharge of 750 cfs occurred Mar. 15, 1904.

REMARKS.—Records good. Small diurnal fluctuation caused by powerplants above station.

REVISIONS.—WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	87	81	189	130	131	200	217	148	105	92	60
2	76	93	79	192	132	143	194	224	139	104	83	66
3	69	61	72	200	134	147	190	226	132	93	82	80
4	54	82	85	192	127	133	196	218	121	84	82	78
5	47	84	91	173	115	136	193	205	133	90	73	70
6	71	82	80	153	113	109	188	198	138	92	70	56
7	67	76	94	145	110	126	193	215	122	86	75	54
8	77	73	89	164	110	124	186	210	120	93	86	61
9	60	56	94	159	111	125	189	226	108	94	85	74
10	67	75	105	146	116	121	190	238	122	94	67	71
11	69	83	125	165	113	116	182	222	102	101	81	60
12	71	75	124	152	116	128	181	218	111	91	78	63
13	61	72	127	145	120	165	183	221	109	88	84	87
14	73	66	110	121	119	199	191	218	108	84	86	95
15	70	65	130	110	123	210	199	236	112	96	66	123
16	76	71	145	100	129	234	219	246	115	102	59	114
17	71	55	132	100	136	244	230	248	106	98	73	110
18	69	75	136	100	128	226	230	247	110	101	67	98
19	76	81	135	110	125	231	240	239	106	112	76	116
20	71	71	139	130	125	232	237	228	95	117	71	119
21	55	70	122	159	120	213	246	219	102	102	66	123
22	84	82	121	169	121	216	246	208	100	94	59	122
23	84	87	113	190	120	218	246	195	102	94	69	111
24	90	79	129	170	113	228	237	184	96	107	68	114
25	98	77	103	145	114	222	237	176	102	107	81	120
26	89	75	113	120	114	211	231	164	99	96	78	129
27	87	76	122	115	116	203	225	140	94	96	81	130
28	97	76	119	110	115	197	230	147	91	100	77	138
29	84	67	103	110	123	194	219	140	97	97	64	151
30	98	83	133	100	------	203	204	144	97	93	76	162
31	61	------	172	120	------	197	------	138	------	91	61	------
TOTAL	2,296	2,255	3,523	4,454	3,488	5,582	6,332	6,355	3,337	3,002	2,316	2,955
MEAN	74.1	75.2	114	144	120	180	211	205	111	96.8	74.7	98.5
MAX	98	93	172	200	136	244	246	248	148	117	92	162
MIN	47	55	72	100	110	109	181	138	91	84	59	54
CFSM	.39	.39	.59	.75	.63	.94	1.10	1.07	.58	.50	.39	.51
IN.	.44	.44	.68	.86	.68	1.08	1.23	1.23	.65	.58	.45	.57

CAL YR 1971 TOTAL 46,605 MEAN 128 MAX 323 MIN 42 CFSM .67 IN 9.03
WTR YR 1972 TOTAL 45,895 MEAN 125 MAX 248 MIN 47 CFSM .65 IN 8.89

04099000 St. Joseph River at Mottville, Mich.

LOCATION.—Lat 41°48'03", long 85°45'22", in SW 1/4 sec.6, T.8 S., R.12 W., Michigan meridian, St. Joseph County, on right bank 500 ft upstream from bridge on U.S. Highway 12 at Mottville, 0.4 mile downstream from Michigan Power Co., hydroelectric plant, 4 miles upstream from Pigeon River, and at mile 96.

DRAINAGE AREA.—1,866 sq mi.

PERIOD OF RECORD.—October 1923 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.—Water-stage recorder. Datum of gage is 755.3 ft above mean sea level (Michigan Power Co. benchmark). Prior to Oct. 1, 1951, at site 0.4 mile upstream at datum 4.2 ft higher.

AVERAGE DISCHARGE.—49 years, 1,493 cfs (10.87 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,060 cfs Apr. 19 (gage height, 6.08 ft); minimum, 150 cfs Aug. 8 (gage height, 1.16 ft); minimum daily, 512 cfs Oct. 17.
Period of record: Maximum discharge, 10,700 cfs Apr. 27, 1950 (gage height, 6.56 ft, site and datum then in use); minimum daily, 39 cfs Oct. 19, 1963.

REMARKS.—Records good. Flow regulated by powerplants above station.

REVISIONS (WATER YEARS).—WSP 1387: 1930, 1932, 1938, 1940–42, 1945. WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	701	806	924	1,660	1,300	1,200	2,020	2,160	1,370	783	700	571
2	571	981	860	1,750	1,400	1,150	1,990	2,230	1,240	842	698	535
3	524	823	855	1,580	1,300	1,130	2,080	2,140	1,120	1,210	597	539
4	671	813	559	1,800	1,200	1,590	2,090	2,180	1,220	809	669	551
5	797	716	616	1,800	1,200	1,570	2,060	2,100	1,480	1,050	563	879
6	809	574	912	1,430	1,200	1,230	2,080	2,070	1,530	992	651	891
7	763	573	885	1,280	1,000	1,240	2,110	2,170	1,320	878	808	793
8	723	847	891	1,350	1,000	1,270	2,040	2,270	1,170	669	799	600
9	624	1,090	870	1,450	1,260	1,060	1,970	2,390	1,230	808	807	570
10	588	1,080	1,010	1,830	1,340	1,270	1,970	2,420	1,060	924	715	558
11	695	795	1,110	1,780	1,030	1,200	1,970	2,450	812	779	804	830
12	711	652	949	1,610	936	1,210	1,910	2,470	1,100	784	615	853
13	719	599	1,370	1,410	972	1,540	1,850	2,400	1,330	858	585	1,070
14	703	739	1,450	1,210	1,170	1,810	1,890	2,330	1,130	737	582	1,520
15	691	865	1,400	1,000	1,280	1,890	1,920	2,420	1,050	781	906	1,570
16	545	824	1,500	900	1,050	2,320	2,090	2,550	1,030	831	726	1,160
17	512	679	1,510	900	974	2,660	2,610	2,930	748	880	561	742
18	566	813	1,570	900	1,060	2,720	3,020	3,020	943	900	602	1,000
19	723	702	1,390	1,050	1,190	2,600	3,420	2,980	1,400	906	592	1,410
20	767	756	1,390	1,290	1,080	2,640	3,780	2,680	1,210	960	560	1,490
21	685	607	1,410	1,390	1,180	2,720	3,550	2,590	1,200	888	577	1,450
22	791	831	1,340	1,420	1,050	2,700	3,500	2,400	895	793	633	1,520
23	633	820	1,270	1,490	935	2,550	3,370	2,240	1,010	849	894	1,170
24	678	826	1,020	1,580	1,010	2,440	3,210	2,140	683	824	845	1,000
25	898	558	1,110	1,640	1,150	2,480	3,120	2,030	842	911	852	1,370
26	954	717	857	1,600	1,200	2,640	2,930	1,820	1,190	902	679	1,460
27	967	562	1,360	1,500	703	2,300	2,730	1,700	1,210	919	903	1,520
28	953	545	1,170	1,500	1,300	2,240	2,690	1,380	884	946	587	1,490
29	836	879	1,150	1,000	1,110	2,180	2,470	1,670	948	641	864	1,620
30	735	883	1,200	950	------	2,130	2,140	1,490	1,160	665	820	1,530
31	749	------	1,630	1,100	------	2,080	------	1,310	------	978	669	------
TOTAL	22,282	22,955	35,538	43,150	32,580	59,760	74,580	69,130	33,515	26,697	21,863	32,262
MEAN	719	765	1,146	1,392	1,123	1,928	2,486	2,230	1,117	861	705	1,075
MAX	967	1,090	1,630	1,830	1,400	2,720	3,780	3,020	1,530	1,210	906	1,620
MIN	512	545	559	900	703	1,060	1,850	1,310	683	641	560	535
CFSM	.39	.41	.61	.75	.60	1.03	1.33	1.20	.60	.46	.38	.58
IN.	.44	.46	.71	.86	.65	1.19	1.49	1.38	.67	.53	.44	.64

CAL YR 1971 TOTAL 471,829 MEAN 1,293 MAX 4,100 MIN 487 CFSM .69 IN 9.41
WTR YR 1972 TOTAL 474,312 MEAN 1,296 MAX 3,780 MIN 512 CFSM .69 IN 9.46

04099500 Pigeon Creek and Hogback Lake near Angola, Ind.

LOCATION.—Lat 41°37'24", long 85°05'44", in NE 1/4 NW 1/4 sec.36, T.37 N., R.12 E., Steuben County, on right bank 200 ft north of lake outlet, 2 miles southeast of Flint, and 5.1 miles west of Angola.

DRAINAGE AREA.—103 sq mi, of which 22.5 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1945 to current year. Prior to October 1947, published as "near Flint".

GAGE.—Water-stage recorder. Datum of gage is 940.00 ft above mean sea level. Prior to October 1947, nonrecording gage at site 1.5 miles downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 600 ft downstream at same datum.

AVERAGE DISCHARGE.—27 years, 70.9 cfs (9.44 inches per year).

EXTREMES.—Current year: Maximum discharge, 164 cfs Mar. 21 (gage height, 11.35 ft); minimum daily, 4.3 cfs Oct. 21.
Period of record: Maximum discharge, 744 cfs Apr. 8, 1950 (gage height, 14.95 ft); minimum daily, 3.4 cfs Oct. 25-27, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1144: 1948. WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.2	9.7	27	30	18	104	119	47	21	28	12
2	8.8	8.2	9.7	31	28	21	100	121	45	20	27	12
3	8.5	8.2	9.9	34	27	25	97	125	44	20	25	12
4	8.2	7.6	9.9	38	25	29	95	130	41	19	23	12
5	8.0	7.6	9.9	38	24	32	94	131	40	19	22	12
6	7.8	7.2	10	38	23	34	92	130	38	18	21	12
7	7.2	6.9	11	38	21	34	91	128	36	18	21	12
8	7.2	6.9	11	36	20	34	90	124	34	18	21	12
9	7.2	7.0	12	35	19	34	88	123	33	18	20	11
10	7.0	7.2	14	34	18	32	86	123	31	18	19	11
11	7.0	7.2	15	32	17	32	84	124	29	17	19	11
12	6.6	7.2	16	30	17	31	82	124	28	17	18	11
13	6.4	7.4	16	28	17	35	84	122	27	17	17	13
14	6.2	7.6	18	27	17	47	87	119	26	18	17	19
15	6.0	7.8	20	26	17	64	93	119	28	21	17	24
16	5.6	7.8	21	25	17	83	100	121	27	24	16	32
17	5.4	8.0	21	23	17	104	109	124	26	28	16	38
18	5.0	8.0	22	23	18	127	121	125	26	31	16	42
19	5.0	8.2	22	22	18	146	133	123	26	35	15	44
20	4.6	8.2	23	22	18	157	144	117	25	37	15	43
21	4.3	8.2	23	23	18	162	151	110	23	37	14	42
22	6.2	8.2	23	25	18	162	158	102	22	36	14	41
23	6.7	8.2	22	26	18	160	161	94	22	35	14	39
24	7.4	8.2	21	29	18	156	161	87	22	35	14	38
25	7.6	8.2	20	31	17	150	160	80	22	34	14	37
26	8.0	8.4	20	32	17	144	154	73	22	33	14	37
27	8.2	8.8	20	35	17	136	146	66	21	33	14	36
28	8.2	9.0	19	37	17	127	136	60	21	33	14	35
29	8.4	9.4	19	36	17	119	127	56	21	31	13	36
30	8.4	9.7	22	35	------	115	119	52	21	30	13	36
31	8.2	------	24	32	------	109	------	49	------	29	12	------
TOTAL	218.3	238.7	534.1	948	565	2,659	3,447	3,301	874	800	543	772
MEAN	7.04	7.96	17.2	30.6	19.5	85.8	115	106	29.1	25.8	17.5	25.7
MAX	9.0	9.7	24	38	30	162	161	131	47	37	28	44
MIN	4.3	6.9	9.7	22	17	18	82	49	21	17	12	11
CFSM	.07	.08	.17	.30	.19	.83	1.12	1.03	.28	.25	.17	.25
IN.	.08	.09	.19	.34	.20	.96	1.24	1.19	.32	.29	.20	.28

CAL YR 1971 TOTAL 16,879.2 MEAN 46.2 MAX 272 MIN 4.3 CFSM .45 IN 6.10
WTR YR 1972 TOTAL 14,900.1 MEAN 40.7 MAX 162 MIN 4.3 CFSM .40 IN 5.38

04099610 Pretty Lake Inlet near Stroh, Ind.

LOCATION.—Lat 41°34'49", long 85°14'59", in SW 1/4 NW 1/4 sec.15, T.36 N., R.11 E., Lagrange County, on left bank 400 ft upstream from mouth and 2.6 miles west of Stroh.

DRAINAGE AREA.—1.96 sq mi, of which 1.32 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—June 1963 to current year.

GAGE.—Water-stage recorder with steel V-notch weir (0.5 cfs notch capacity). Datum of gage is 960.00 ft above mean sea level.

AVERAGE DISCHARGE.—9 years, 0.43 cfs (2.98 inches per year).

EXTREMES.—Current year: Maximum discharge, 6.6 cfs Sept. 14 (gage height, 7.01 ft); no flow Jan. 29 to Feb. 12.
Period of record: Maximum discharge, 33 cfs Feb. 5, 1971 (gage height, 9.30 ft); maximum gage height, 9.46 ft Feb. 4, 1971 (backwater from ice); no flow for many days in most years.

REMARKS.—Records fair.

REVISIONS.—WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.05	.05	.62	0	.25	.45	1.8	.12	.04	.04	.02
2	.03	.10	.04	.37	0	.13	.48	1.2	.10	.06	.04	.05
3	.03	.04	.03	.13	0	.09	.45	.95	.09	.13	.04	.04
4	.04	.02	.04	.11	0	.08	.62	.62	.08	.13	.04	1.2
5	.04	.04	.04	.09	0	.06	.51	.54	.08	.10	.04	.09
6	.05	.05	.02	.07	0	.05	.45	.45	.07	.06	.04	.08
7	.04	.06	.05	.05	0	.06	.42	.45	.06	.04	.08	.07
8	.04	.04	.04	.06	0	.07	.40	.58	.06	.05	.06	.08
9	.04	.06	.04	.07	0	.03	.35	1.0	.06	.04	.04	.07
10	.03	.08	.19	.11	0	.03	.35	.83	.06	.03	.04	.07
11	.02	.06	.13	.08	0	.06	.31	.67	.06	.03	.04	.17
12	.02	.05	.10	.11	0	.06	.35	.51	.05	.03	.04	.17
13	.03	.08	.08	.07	.06	1.1	.89	.45	.05	.07	.04	.47
14	.03	.05	.08	.03	.18	.78	.62	.45	.05	.23	.04	2.6
15	.03	.04	.17	.02	.22	.67	.83	.67	.11	.66	.04	1.0
16	.03	.07	.16	.01	.13	1.5	.95	.67	.06	.16	.04	.62
17	.02	.04	.11	.03	.12	.89	1.1	.58	.05	.08	.03	.42
18	.02	.03	.09	.07	.09	.58	.72	.42	.05	.07	.03	.48
19	.02	.06	.09	.11	.06	.45	.72	.35	.05	.08	.04	.51
20	.02	.05	.10	.21	.06	.40	.89	.27	.05	.06	.04	.40
21	.03	.05	.08	.25	.06	.48	.67	.23	.06	.06	.03	.29
22	.09	.04	.07	.67	.04	.72	.78	.19	.05	.06	.03	.20
23	.04	.03	.07	.31	.08	.58	.62	.16	.05	.18	.08	.20
24	.08	.04	.08	.10	.06	.42	.54	.12	.06	.17	.05	.20
25	.06	.04	.06	.04	.04	.35	.45	.11	.06	.08	.04	.35
26	.04	.04	.08	.02	.05	.29	.40	.08	.05	.06	.04	.62
27	.04	.06	.07	.01	.05	.27	.33	.09	.04	.07	.03	.72
28	.06	.06	.06	.01	.47	.25	.29	.12	.04	.06	.03	.51
29	.05	.06	.06	0	.19	.33	.25	.11	.06	.06	.03	.40
30	.05	.06	1.2	0	------	.51	.29	.16	.05	.05	.02	.30
31	.05	------	.78	0	------	.45	------	.15	------	.04	.02	------
TOTAL	1.22	1.55	4.26	3.83	1.96	11.99	16.48	14.98	1.88	3.04	1.24	12.40
MEAN	.039	.052	.14	.12	.068	.39	.55	.48	.063	.098	.040	.41
MAX	.09	.10	1.2	.67	.47	1.5	1.1	1.8	.12	.66	.08	2.6
MIN	.02	.02	.02	0	0	.03	.25	.08	.04	.03	.02	.02
CFSM	.02	.03	.07	.06	.03	.20	.28	.24	.03	.05	.02	.21
IN.	.02	.03	.08	.07	.04	.23	.31	.28	.04	.06	.02	.24

CAL YR 1971 TOTAL 132.11 MEAN .36 MAX 1.8 MIN .02 CFSM .18 IN 2.51
WTR YR 1972 TOTAL 74.83 MEAN .20 MAX 2.6 MIN 0 CFSM .10 IN 1.42

04099750 Pigeon River near Scott, Ind.

LOCATION.—Lat 41°44'56", long 85°34'35", in SE 1/4 NW 1/4 sec.14, T.38 N., R.8 E., Lagrange County, on right bank 20 ft downstream from bridge on County Road 750 North, 1,200 ft downstream from Page ditch, 0.7 mile south of Indiana-Michigan state line, and 1.2 miles northwest of Scott.

DRAINAGE AREA.—361 sq mi, of which 53.9 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—June 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 815.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 584 cfs May 16 (gage height, 4.18 ft); minimum daily, 42 cfs Oct. 21.
Period of record: Maximum discharge, 1,450 cfs Feb. 1, 1969 (gage height, 6.34 ft); minimum daily, 42 cfs Oct. 21, 1971.

REMARKS.—Records good. WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	94	117	338	155	190	380	443	268	150	141	86
2	86	94	110	275	150	205	378	473	255	139	139	88
3	84	96	106	250	140	185	370	465	245	137	137	96
4	86	94	104	215	135	173	375	443	235	128	135	100
5	90	92	106	200	130	163	373	428	223	121	128	94
6	90	94	115	200	125	150	355	420	208	117	124	90
7	90	90	137	220	125	168	348	423	198	110	132	84
8	94	86	158	223	125	163	340	448	190	115	155	86
9	104	90	141	210	120	148	333	483	183	135	143	90
10	113	92	146	208	120	150	325	506	175	121	132	84
11	102	94	180	205	130	158	318	480	165	110	126	84
12	94	96	178	198	150	155	308	448	160	106	124	100
13	92	92	158	195	168	255	315	435	139	104	124	121
14	94	94	146	160	163	405	330	458	141	117	121	200
15	94	94	170	140	163	393	345	500	190	139	117	353
16	92	92	198	140	160	388	380	548	195	163	121	335
17	90	96	193	140	158	440	455	515	173	160	119	280
18	92	96	170	150	160	435	488	480	160	178	117	268
19	77	100	158	150	158	410	460	455	153	188	115	313
20	73	104	155	170	168	403	475	435	148	198	113	300
21	42	102	158	190	153	410	490	415	141	180	106	295
22	73	98	153	258	146	458	495	398	139	183	104	278
23	130	94	146	263	137	478	495	380	137	178	106	258
24	137	94	143	220	135	450	485	363	139	185	124	250
25	132	94	141	195	130	428	470	345	141	193	128	258
26	124	96	146	190	137	413	458	323	137	183	119	295
27	115	102	146	180	132	405	445	300	130	183	115	310
28	108	108	148	175	135	393	433	288	130	180	110	298
29	104	113	143	170	153	388	423	280	137	175	102	328
30	100	119	233	165	------	398	415	278	153	165	94	340
31	98	------	373	160	------	393	------	278	------	153	88	------
TOTAL	2,986	2,900	4,876	6,153	4,161	9,751	12,060	12,934	5,188	4,694	3,759	6,162
MEAN	96.3	96.7	157	198	143	315	402	417	173	151	121	205
MAX	137	119	373	338	168	478	495	548	268	198	155	353
MIN	42	86	104	140	120	148	308	278	130	104	88	84
CFSM	.27	.27	.43	.55	.40	.87	1.11	1.16	.48	.42	.34	.57
IN.	.31	.30	.50	.63	.43	1.00	1.24	1.33	.53	.48	.39	.63

CAL YR 1971 TOTAL 83,976 MEAN 230 MAX 1,130 MIN 42 CFSM .64 IN 8.65
WTR YR 1972 TOTAL 75,624 MEAN 207 MAX 548 MIN 42 CFSM .57 IN 7.79

04100222 North Branch Elkhart River at Cosperville, Ind.

LOCATION.—Lat 41°28'54", long 85°28'32", in NE 1/4 NW 1/4 sec.22, T.35 N., R.9 E., Noble County, on right bank downstream side of bridge on County Road 900 North, 1,300 ft downstream from Boyd ditch, 1.7 miles upstream from Hustin ditch, and 3.1 miles downstream from Waldron Lake.

DRAINAGE AREA.—142 sq mi.

PERIOD OF RECORD.—October 1971 to current year. October 1950 to September 1971 at site 3.1 miles upstream, published as North Branch Elkhart River near Cosperville. Records may not be equivalent.

GAGE.—Water-stage recorder. Datum of gage is 880.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 332 cfs Apr. 23 (gage height, 5.52 ft); minimum daily, 2.4 cfs Nov. 21.
Period of record: Maximum discharge, 332 cfs Apr. 23, 1972 (gage height, 5.52 ft); minimum daily, 2.4 cfs Nov. 21, 1971.

REMARKS.—Records good. Flow regulated at times by dam at Waldron Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	32	3.0	105	43	64	147	255	103	30	34	21
2	11	31	5.2	95	43	73	146	254	95	26	34	25
3	11	30	11	86	40	69	141	249	94	25	34	31
4	11	28	16	70	38	63	139	236	93	23	33	28
5	10	29	19	60	37	50	137	218	87	20	29	25
6	11	30	24	55	37	55	137	210	81	17	28	23
7	9.8	25	32	68	36	50	141	207	76	15	31	21
8	10	24	39	64	36	44	136	207	70	16	31	23
9	13	24	39	67	35	47	134	226	66	16	29	22
10	12	23	50	68	35	45	129	229	63	15	27	19
11	12	23	59	65	35	46	126	223	58	14	25	20
12	11	23	60	63	45	48	123	214	53	12	25	39
13	12	23	53	63	64	88	141	210	58	14	24	48
14	12	24	52	64	63	134	150	228	58	33	30	206
15	12	23	60	40	60	151	165	262	70	63	62	267
16	12	23	69	40	58	171	206	268	74	98	49	294
17	12	22	66	40	54	190	257	265	65	103	39	296
18	12	22	58	45	48	192	281	255	57	97	33	297
19	14	19	57	48	46	190	295	241	50	93	36	299
20	17	3.2	58	53	43	185	314	229	45	88	37	294
21	20	2.4	53	56	41	182	319	217	37	80	31	283
22	31	2.8	51	62	40	180	324	204	32	71	27	272
23	40	2.8	47	69	39	182	326	192	29	63	45	259
24	44	3.0	44	74	37	181	319	180	32	60	51	248
25	44	3.0	46	62	36	174	310	168	31	54	45	244
26	43	3.2	48	68	37	166	296	157	30	49	37	247
27	42	7.0	50	60	36	161	281	145	25	50	33	244
28	41	11	47	55	39	155	266	131	22	47	31	236
29	38	13	48	50	51	151	252	119	30	44	29	246
30	36	3.8	73	47	------	147	240	113	34	39	27	247
31	33	------	103	45	------	150	------	108	------	36	24	------
TOTAL	647.8	533.2	1,440.2	1,907	1,252	3,784	6,378	6,420	1,718	1,411	1,050	4,824
MEAN	20.9	17.8	46.5	61.5	43.2	122	213	207	57.3	45.5	33.9	161
MAX	44	32	103	105	64	192	326	268	103	103	62	299
MIN	9.8	2.4	3.0	40	35	44	123	108	22	12	24	19
CFSM	.15	.13	.33	.43	.30	.86	1.50	1.46	.40	.32	.24	1.13
IN.	.17	.14	.38	.50	.33	.99	1.67	1.68	.45	.37	.28	1.26

WTR YR 1972 TOTAL 31,365.2 MEAN 85.7 MAX 326 MIN 2.4 CFSM .60 IN 8.22

04100252 Forker Creek near Burr Oak, Ind.

LOCATION.—Lat 41°19'58", long 85°25'25", in SE 1/4 NE 1/4 sec.12, T.33 N., R.9 E., Noble County, on right bank 300 ft downstream from bridge on State Highway 9, 400 ft downstream from Miller Lake outlet, 0.8 mile northwest of Burr Oak, and 4.5 miles south of Albion.

DRAINAGE AREA.—19.2 sq mi.

PERIOD OF RECORD.—June 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 889.00 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 79 cfs Sept. 16 (gage height, 3.44 ft); minimum daily, 0.13 cfs Sept. 10.
Period of record: Maximum discharge, 110 cfs Feb. 21, 1971 (gage height, 3.78 ft); minimum daily, 0.13 cfs Sept. 10, 1972.

REMARKS.—Records fair. Occasional regulation at Miller Lake outlet.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.36	.21	15	7.0	5.3	19	14	9.4	1.1	3.3	.92
2	.33	.40	.21	18	6.3	7.6	19	14	9.0	1.1	3.3	.83
3	.33	.38	.22	19	5.8	8.0	19	13	8.7	1.1	2.9	.75
4	.33	.36	.23	18	5.4	9.0	20	12	8.7	1.0	2.5	.59
5	.33	.36	.23	16	5.0	9.7	19	11	8.0	.92	2.0	.45
6	.38	.37	.44	15	4.7	9.4	20	10	6.7	.83	2.1	.36
7	.36	.33	.80	13	4.2	8.7	28	9.7	6.0	.75	6.7	.29
8	.37	.32	.94	12	4.0	7.6	32	10	4.0	.75	7.3	.29
9	.36	.32	1.0	11	3.7	6.3	34	11	3.3	.75	6.0	.23
10	.36	.32	2.6	10	3.3	5.7	33	11	2.7	.75	5.3	.13
11	.36	.29	3.2	9.6	3.1	5.3	30	11	2.5	.75	4.7	.26
12	.37	.26	3.3	9.1	3.1	5.0	28	11	2.3	.67	4.4	.92
13	.38	.26	3.4	9.2	3.1	8.7	28	11	2.3	.75	4.2	3.7
14	.36	.24	4.4	8.8	3.1	21	25	15	2.1	1.3	4.0	25
15	.36	.26	6.4	7.3	3.5	34	24	20	2.5	5.7	4.2	54
16	.35	.26	7.7	6.2	3.5	53	30	25	2.3	10	3.5	76
17	.30	.26	9.3	5.4	4.0	61	53	29	2.3	16	3.1	70
18	.32	.26	9.8	4.9	4.2	63	69	29	2.1	24	2.5	58
19	.32	.27	10	4.8	4.4	55	71	27	2.1	28	2.5	49
20	.32	.26	10	5.2	4.4	46	75	24	2.0	29	2.7	41
21	.34	.26	9.2	5.1	4.4	38	74	23	1.6	28	2.9	33
22	.37	.24	8.1	6.2	4.2	33	74	20	1.5	24	2.9	24
23	.38	.23	7.3	7.7	4.2	29	70	18	1.3	21	4.7	20
24	.40	.23	6.5	9.5	4.2	25	62	17	1.3	18	5.3	17
25	.40	.23	6.0	12	4.0	22	52	15	1.3	16	4.7	16
26	.40	.20	5.9	13	4.0	19	38	14	1.3	11	4.2	17
27	.40	.22	5.7	12	3.7	18	26	13	1.2	8.7	3.3	17
28	.40	.22	5.2	13	4.0	16	20	11	1.2	7.0	2.7	18
29	.40	.21	4.8	12	4.4	16	16	11	1.2	5.3	1.8	21
30	.36	.22	8.9	8.7	------	18	13	11	1.2	4.7	1.5	23
31	.39	------	12	7.6	------	18	------	10	------	3.7	1.1	------
TOTAL	11.16	8.40	153.98	324.3	122.9	681.3	1,121	480.7	102.1	272.62	112.3	588.72
MEAN	.36	.28	4.97	10.5	4.24	22.0	37.4	15.5	3.40	8.79	3.62	19.6
MAX	.40	.40	12	19	7.0	63	75	29	9.4	29	7.3	76
MIN	.30	.20	.21	4.8	3.1	5.0	13	9.7	1.2	.67	1.1	.13
CFSM	.02	.01	.26	.55	.22	1.15	1.95	.81	.18	.46	.19	1.02
IN.	.02	.02	.30	.63	.24	1.32	2.17	.93	.20	.53	.22	1.14

CAL YR 1971 TOTAL 3,249.78 MEAN 8.90 MAX 107 MIN .18 CFSM .46 IN 6.30
WTR YR 1972 TOTAL 3,979.48 MEAN 10.9 MAX 76 MIN .13 CFSM .57 IN 7.71

04100465 Turkey Creek at Syracuse, Ind.

LOCATION.—Lat 41°25'35", long 85°45'16", in NE 1/4 SE 1/4 sec.6, T.34 N., R.7 E., Kosciusko County, 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 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 848.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 114 cfs Apr. 21 (gage height, 4.45 ft); minimum daily, 1.4 cfs Oct. 17.
Period of record: Maximum discharge, 114 cfs May 24, 1970, Apr. 21, 1972; maximum gage height, 4.59 ft May 24, 1970; minimum daily discharge, 1.4 cfs Oct. 17, 1972.

REMARKS.—Records good. Flow occasionally regulated by dam on Syracuse Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.4	3.1	19	14	16	41	92	5.6	4.3	6.2	7.2
2	1.9	2.8	2.9	19	14	17	41	90	5.4	4.3	6.2	7.6
3	2.0	2.3	2.9	18	15	17	40	87	5.4	4.3	6.2	7.2
4	2.0	2.3	2.8	18	14	16	39	84	5.0	3.9	6.4	6.8
5	2.0	2.7	2.2	17	14	15	39	82	5.4	3.8	5.8	6.8
6	2.0	2.9	3.4	17	14	15	39	79	5.2	3.5	5.8	7.0
7	2.0	2.9	3.2	16	14	15	47	80	5.0	3.9	7.4	7.0
8	2.4	3.6	3.2	15	14	15	45	84	4.9	3.5	7.8	6.8
9	2.2	4.1	3.4	15	14	15	43	92	4.5	3.2	7.0	6.2
10	1.8	3.9	6.6	15	14	15	43	91	4.2	3.4	7.2	5.6
11	2.0	3.9	7.8	15	14	15	43	85	3.8	3.4	7.0	8.2
12	2.0	3.8	7.2	15	14	15	44	83	3.9	3.2	7.2	10
13	2.0	3.4	7.4	15	14	20	45	82	5.0	5.0	6.6	41
14	2.0	1.9	8.0	15	15	25	47	80	4.7	8.7	8.2	73
15	1.7	2.3	31	15	15	25	69	91	8.9	13	8.9	79
16	1.6	2.3	53	14	15	28	93	89	7.8	12	8.2	76
17	1.4	2.4	53	14	15	30	107	85	7.4	11	7.8	73
18	1.8	2.6	53	15	15	27	106	81	6.4	13	7.8	76
19	1.8	2.9	52	15	15	24	105	78	6.4	13	8.0	74
20	1.8	2.6	53	16	14	24	106	74	5.8	12	7.6	72
21	2.2	2.2	52	15	14	38	108	70	4.9	11	8.0	70
22	3.2	2.6	51	17	15	54	106	69	4.1	10	8.2	68
23	2.2	2.7	51	17	15	54	102	67	3.8	9.4	9.6	68
24	2.4	2.7	49	17	15	53	99	64	3.5	9.6	11	67
25	2.6	2.3	49	17	15	49	96	62	3.1	8.9	10	72
26	2.7	2.1	50	16	15	37	93	33	3.5	8.7	9.4	73
27	2.6	2.2	50	15	14	40	91	7.8	3.6	8.2	8.0	73
28	2.6	2.0	50	15	15	39	89	6.8	3.6	7.8	8.2	72
29	2.3	3.2	50	15	15	41	87	6.4	5.8	7.2	8.0	78
30	2.1	3.2	42	14	------	42	87	6.2	4.9	6.2	8.0	76
31	2.0	------	20	14	------	42	------	6.0	------	6.2	7.8	------
TOTAL	65.2	83.2	873.1	490	420	878	2,140	2,087.2	151.5	225.6	239.5	1,367.4
MEAN	2.10	2.77	28.2	15.8	14.5	28.3	71.3	67.3	5.05	7.28	7.73	45.6
MAX	3.2	4.1	53	19	15	54	108	92	8.9	13	11	79
MIN	1.4	1.9	2.2	14	14	15	39	6.0	3.1	3.2	5.8	5.6
CFSM	.05	.06	.64	.36	.33	.65	1.63	1.54	.12	.17	.18	1.04
IN.	.06	.07	.74	.42	.36	.75	1.82	1.77	.13	.19	.20	1.16

CAL YR 1971 TOTAL 8,029.4 MEAN 22.0 MAX 84 MIN 1.4 CFSM .50 IN 6.82
WTR YR 1972 TOTAL 9,020.7 MEAN 24.6 MAX 108 MIN 1.4 CFSM .56 IN 7.66

04100500 Elkhart River at Goshen, Ind.

LOCATION.—Lat 41°35'36", long 85°50'55", in NE 1/4 NE 1/4 sec.8, T.36 N., R.6 E., Elkhart County, on right bank 20 ft downstream from River Avenue bridge at Goshen and 0.5 mile upstream from Rock Run.

DRAINAGE AREA.—594 sq mi.

PERIOD OF RECORD.—April 1931 to current year.

GAGE.—Water-stage recorder. Datum of gage is 769.43 ft above mean sea level. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—41 years, 493 cfs (11.27 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,830 cfs Apr. 17 (gage height, 5.44 ft); minimum daily, 97 cfs Oct. 6, 21.
Period of record: Maximum discharge, 5,440 cfs Apr. 4, 1950 (gage height, 10.15 ft); maximum gage height, 10.33 ft July 10, 1951; minimum daily discharge, 7.0 cfs Aug. 11, 1964, result of extreme regulation.

REMARKS.—Records good. The flow is regulated by three powerplants upstream from station.

REVISIONS (WATER YEARS).—WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	118	153	763	230	378	642	867	359	216	234	192
2	99	124	144	560	210	453	649	889	337	209	227	179
3	102	132	135	476	200	408	653	856	321	209	227	195
4	104	138	129	435	190	345	654	801	309	195	223	179
5	99	132	132	300	180	305	656	746	293	188	209	169
6	97	115	150	250	180	237	601	702	289	182	206	156
7	104	115	172	300	170	289	618	680	277	182	227	150
8	104	118	179	343	170	285	718	752	265	179	234	179
9	112	118	182	345	170	244	651	1,090	258	175	230	150
10	115	141	227	350	170	250	619	1,310	248	172	209	135
11	110	124	281	350	170	270	594	1,030	237	172	202	165
12	104	115	281	338	200	280	576	829	230	156	206	234
13	107	118	262	330	205	430	920	746	244	153	202	255
14	118	118	248	281	206	600	1,300	862	258	220	199	779
15	112	118	285	199	220	883	1,020	1,370	265	440	297	1,220
16	104	112	370	195	230	900	1,160	1,590	285	670	341	1,070
17	102	115	350	200	229	1,030	1,640	1,300	273	605	293	921
18	99	118	340	257	244	840	1,660	1,030	258	565	251	908
19	110	129	330	275	242	713	1,310	878	244	702	234	992
20	110	126	310	301	198	667	1,270	785	230	691	220	988
21	97	129	300	344	210	668	1,360	719	227	550	213	940
22	129	126	290	399	200	808	1,290	665	220	471	206	908
23	138	118	280	556	190	954	1,310	625	209	435	213	886
24	129	115	260	554	180	797	1,190	590	209	440	277	875
25	129	115	270	451	180	701	1,090	560	209	395	258	962
26	150	118	280	269	180	660	1,020	530	202	350	237	1,210
27	132	126	289	300	198	637	977	490	195	337	220	1,340
28	124	129	285	280	205	631	921	440	192	313	206	1,140
29	124	138	273	270	314	642	882	408	220	285	220	1,180
30	124	150	476	260	------	681	852	386	241	255	241	1,450
31	121	------	774	250	------	687	------	372	------	241	220	------
TOTAL	3,511	3,708	8,437	10,781	5,871	17,673	28,803	24,898	7,604	10,353	7,182	20,107
MEAN	113	124	272	348	202	570	960	803	253	334	232	670
MAX	150	150	774	763	314	1,030	1,660	1,590	359	702	341	1,450
MIN	97	112	129	195	170	237	576	372	192	153	199	135
CFSM	.19	.21	.46	.59	.34	.96	1.62	1.35	.43	.56	.39	1.13
IN.	.22	.23	.53	.68	.37	1.11	1.80	1.56	.48	.65	.45	1.26

CAL YR 1971 TOTAL 122,019 MEAN 334 MAX 1,920 MIN 94 CFSM .56 IN 7.64
WTR YR 1972 TOTAL 148,928 MEAN 407 MAX 1,660 MIN 97 CFSM .69 IN 9.33

PEAK DISCHARGE (BASE, 1,800 CFS).—Apr. 17 (2100) 1,830 cfs (5.44 ft).

04101000 St. Joseph River at Elkhart, Ind.

LOCATION.—Lat 41°41'30", long 85°58'30", in SW 1/4 NE 1/4 sec.5, T.37 N., R.5 E., Elkhart County, on left bank 200 ft downstream from mouth of Elkhart River, 200 ft upstream from Main Street bridge in Elkhart, 2,000 ft downstream from Christiana Creek, and 0.5 mile downstream from Elkhart Hydroelectric Plant.

DRAINAGE AREA.—3,370 sq mi.

PERIOD OF RECORD.—August 1947 to current year. Gage heights at site 0.8 mile downstream at different datum for September 1924 to March 1926 are available in the district office.

GAGE.—Water-stage recorder. Datum of gage is 700.00 ft above mean sea level.

AVERAGE DISCHARGE.—25 years, 2,985 cfs (12.03 inches per year).

EXTREMES.—Current year: Maximum discharge, 7,190 cfs Apr. 19 (gage height, 21.97 ft); minimum daily, 784 cfs Oct. 4.
Period of record: Maximum discharge, 18,400 cfs Apr. 5, 1950 (gage height, 27.82 ft); minimum daily, 336 cfs Aug. 5, 1964.

REMARKS.—Records good. The flow is regulated by Elkhart Hydroelectric Plant and by a hydroelectric plant on Elkhart River at Goshen.

REVISIONS.—WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	1,240	1,570	3,630	2,500	2,510	4,040	4,420	2,600	1,810	1,490	1,100
2	1,350	1,540	1,460	3,520	3,030	2,690	3,950	4,730	2,400	1,620	1,410	1,040
3	982	1,360	1,430	3,160	2,010	2,410	4,080	4,230	2,250	1,860	1,330	1,080
4	784	1,400	1,170	3,200	2,310	2,540	4,140	4,450	2,420	1,690	1,360	1,090
5	875	1,240	1,110	3,270	1,990	3,060	4,090	4,210	2,300	1,730	1,170	1,300
6	1,300	1,050	1,450	2,890	2,220	2,250	4,000	4,120	2,630	1,790	1,280	1,470
7	1,270	1,070	1,540	2,500	2,130	2,270	4,000	4,210	2,540	1,480	1,500	1,460
8	1,250	1,240	1,540	3,120	2,140	2,390	4,040	4,430	2,160	1,330	1,460	1,170
9	1,120	1,530	1,570	3,220	2,000	1,990	3,880	5,120	2,160	1,470	1,530	1,090
10	1,120	1,790	1,790	3,550	2,280	2,180	3,810	5,310	2,110	1,500	1,460	1,060
11	1,170	1,450	1,950	3,650	1,890	2,160	3,730	5,050	1,640	1,520	1,400	1,330
12	1,220	1,020	2,090	3,360	1,800	2,200	3,680	4,800	1,950	1,390	1,330	1,590
13	1,230	1,080	2,020	3,330	1,880	3,370	3,830	4,650	2,040	1,410	1,240	1,870
14	1,230	1,240	2,550	2,630	1,960	4,570	4,480	4,770	2,300	1,450	1,150	3,000
15	1,210	1,530	2,410	2,270	2,310	4,460	4,200	5,570	2,070	1,740	1,530	3,690
16	1,040	1,360	2,620	2,680	2,120	4,830	4,560	5,680	1,870	1,950	1,630	3,360
17	964	1,230	2,660	2,660	1,910	5,210	5,710	5,830	1,710	1,980	1,260	2,550
18	1,070	1,320	2,740	2,240	2,060	5,370	6,200	5,550	1,920	2,120	1,200	2,390
19	1,190	1,290	2,690	2,290	2,120	4,800	6,420	5,550	1,920	2,280	1,270	3,010
20	1,150	1,170	2,390	2,550	1,990	4,770	6,970	4,980	2,350	2,250	1,210	3,070
21	1,220	1,360	2,310	2,810	2,020	4,910	6,700	4,680	1,800	2,120	1,050	3,090
22	1,290	1,340	2,300	2,980	2,070	5,020	6,570	4,440	1,850	1,900	1,160	2,990
23	1,280	1,330	2,230	3,330	1,780	5,110	6,460	4,080	1,610	1,650	1,380	2,870
24	1,250	1,380	2,200	3,230	1,840	4,700	6,010	3,810	1,550	1,920	1,510	3,060
25	1,410	1,110	1,840	3,280	1,990	4,570	5,960	3,700	1,600	1,830	1,510	3,060
26	1,520	1,210	2,000	2,440	2,040	4,820	5,590	3,410	1,750	1,770	1,370	3,480
27	1,520	1,140	2,030	2,490	1,620	4,390	5,160	3,140	2,040	1,820	1,560	3,820
28	1,590	1,120	2,190	2,590	2,140	4,120	5,050	2,800	1,780	1,830	1,220	3,630
29	1,350	1,350	2,080	2,440	2,180	4,050	4,840	2,820	1,920	1,510	1,250	3,940
30	1,430	1,510	2,720	2,160	------	4,160	4,460	2,920	2,040	1,440	1,520	4,130
31	1,340	------	3,510	2,230	------	4,120	------	2,460	------	1,740	1,230	------
TOTAL	37,905	38,970	64,160	89,700	60,330	116,000	146,610	135,920	61,280	53,900	41,970	71,830
MEAN	1,223	1,299	2,070	2,894	2,080	3,742	4,887	4,385	2,043	1,739	1,354	2,393
MAX	1,590	1,790	3,510	3,650	3,030	5,370	6,970	5,830	2,630	2,280	1,630	4,130
MIN	784	1,020	1,110	2,160	1,620	1,990	3,680	2,460	1,550	1,330	1,050	1,040
CFSM	.36	.39	.61	.86	.62	1.11	1.45	1.30	.61	.52	.40	.71
IN.	.42	.43	.71	.99	.67	1.28	1.62	1.50	.68	.59	.46	.79

CAL YR 1971 TOTAL 871,633 MEAN 2,388 MAX 7,260 MIN 651 CFSM .71 IN 9.62
WTR YR 1972 TOTAL 918,545 MEAN 2,510 MAX 6,970 MIN 784 CFSM .74 IN 10.14

04101500 St. Joseph River at Niles, Mich.

LOCATION.—Lat 41°49'45", long 86°15'35", in SW 1/4 sec.26, T.7 S., R.17 W., Berrien County, on right bank 100 ft upstream from Main Street Bridge at Niles, 0.6 mile downstream from dam at French Paper Co., 1 mile upstream from Dowagiac River, and at mile 44.

DRAINAGE AREA.—3,666 sq mi.

PERIOD OF RECORD.—October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.—Water-stage recorder. Datum of gage is 633.02 ft above mean sea level. Prior to Oct. 1, 1968, at datum 2.0 ft higher. Oct. 1, 1930, to Feb. 11, 1931, nonrecording gage on Main Street Bridge, and Feb. 12 to June 30, 1931, nonrecording gage 50 ft upstream from present site (gage heights referred to mean sea level). Since Apr. 13, 1970, auxiliary water-stage recorder 1.1 miles downstream from base gage at same datum. Oct. 1, 1943, to Apr. 12, 1970, auxiliary gage was headwater gage at hydroelectric plant at Buchanan Dam, 8 miles downstream from base gage at different datum.

AVERAGE DISCHARGE.—42 years, 3,083 cfs (11.42 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,780 cfs Apr. 20 (gage height, 9.24 ft); minimum daily, 1,100 cfs Nov. 27, 28. Period of record: Maximum discharge, 20,200 cfs Apr. 5, 1950 (gage height, 15.10 ft, present datum); minimum daily, 420 cfs Aug. 30, 1931.

REMARKS.—Records good. Flow regulated by powerplants above station.

REVISIONS (WATER YEARS).—WSP 1387: 1931, 1933-36, 1940-43, 1945-46(M), 1949(M). WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,470	1,410	1,800	4,240	1,970	2,660	4,280	4,460	2,660	2,280	1,860	1,380
2	1,400	1,590	1,700	3,580	3,140	2,500	4,070	4,620	2,920	1,710	1,530	1,150
3	1,250	1,620	1,700	3,190	2,660	2,500	4,190	4,560	2,440	1,870	1,710	1,310
4	1,260	1,830	1,200	3,240	2,220	2,740	4,450	4,530	2,540	2,230	1,680	1,290
5	1,180	1,390	1,200	3,840	1,930	3,330	4,230	4,390	2,500	1,620	1,470	1,330
6	1,210	1,280	1,500	3,110	2,000	3,130	4,110	4,160	2,820	2,080	1,690	1,640
7	1,480	1,250	1,610	2,820	2,000	2,440	4,230	4,700	2,660	2,130	1,560	1,320
8	1,480	1,340	1,810	2,150	2,000	2,520	4,220	4,590	2,360	1,740	1,800	1,790
9	1,510	1,620	1,690	2,760	2,000	2,710	4,080	5,240	2,210	1,580	1,750	1,350
10	1,420	2,020	2,320	2,880	2,010	2,240	4,030	5,570	2,470	1,230	1,770	1,260
11	1,310	2,850	2,050	3,100	2,340	2,410	4,210	5,800	2,020	1,660	1,620	1,660
12	1,530	1,400	2,240	2,860	1,850	2,430	3,810	4,500	1,980	1,900	1,720	2,370
13	1,370	1,300	2,250	2,950	1,910	3,830	3,920	4,760	2,300	1,300	1,440	2,530
14	1,350	1,400	2,450	2,860	2,160	5,850	4,650	4,850	2,430	1,930	1,740	3,000
15	1,440	1,700	2,770	2,480	2,370	5,130	4,320	6,200	2,400	2,290	2,230	3,500
16	1,390	1,700	2,900	2,000	2,380	4,950	4,850	6,060	2,090	2,630	2,420	4,000
17	1,270	1,400	2,770	2,000	2,270	5,320	5,610	5,600	1,970	2,110	1,800	3,000
18	1,250	1,600	2,830	2,120	2,130	5,510	6,260	5,690	1,760	2,800	1,600	2,000
19	1,530	1,400	2,630	2,230	2,370	5,160	6,400	5,390	2,350	3,190	1,650	3,000
20	1,160	1,500	2,530	2,450	2,170	4,890	7,470	5,120	2,640	3,150	1,630	3,800
21	1,490	1,300	2,700	2,790	2,180	4,960	7,190	4,860	2,500	2,710	1,610	3,450
22	1,540	1,500	2,540	2,980	2,320	5,000	6,400	4,600	2,300	2,270	1,370	3,420
23	1,430	1,700	2,370	3,610	2,310	5,250	6,680	4,400	1,940	1,980	1,500	3,470
24	1,410	1,700	2,190	3,430	1,820	4,890	6,330	4,360	2,060	2,170	2,120	3,240
25	1,520	1,200	2,240	3,330	2,160	4,700	5,450	3,610	1,700	1,950	1,790	3,210
26	1,700	1,400	2,430	2,680	2,230	4,770	6,030	3,500	1,390	2,090	1,610	4,140
27	1,790	1,100	2,050	2,430	2,270	4,620	5,280	3,350	1,550	1,990	1,570	4,400
28	1,820	1,100	2,520	2,300	1,910	4,310	4,990	3,220	2,370	2,070	1,770	4,500
29	1,700	1,800	2,080	2,100	2,610	4,230	5,030	2,790	2,250	2,010	1,320	4,480
30	1,560	1,800	2,810	1,970	------	4,380	4,820	3,130	2,220	1,600	1,830	5,150
31	1,600	------	4,060	2,000	------	4,090	------	2,720	------	1,830	1,430	------
TOTAL	45,020	46,200	69,940	86,480	63,690	123,450	151,790	141,330	67,800	64,100	52,590	82,140
MEAN	1,452	1,540	2,256	2,790	2,196	3,982	5,060	4,559	2,260	2,068	1,696	2,738
MAX	1,820	2,850	4,060	4,240	3,140	5,850	7,470	6,200	2,920	3,190	2,420	5,150
MIN	1,160	1,100	1,200	1,970	1,820	2,240	3,810	2,720	1,390	1,230	1,320	1,150
CFSM	.40	.42	.62	.76	.60	1.09	1.38	1.24	.62	.56	.46	.75
IN.	.46	.47	.71	.88	.65	1.25	1.54	1.43	.69	.65	.53	.83

CAL YR 1971 TOTAL 936,432 MEAN 2,566 MAX 72,806 MIN 622 CFSM .70 IN 9.50
WTR YR 1972 TOTAL 994,530 MEAN 2,717 MAX 7,470 MIN 1,100 CFSM .74 IN 10.09

04177720 Fish Creek at Hamilton, Ind.

LOCATION.—Lat 41°31'55", long 84°54'12", in SE 1/4 SW 1/4 sec.34, T.36 N., R.14 E., Steuben County, on left bank 6 ft upstream from bridge on County Road 775 South, 0.5 mile downstream from Hamilton Lake outlet, and 0.5 mile southeast of Hamilton.

DRAINAGE AREA.—37.5 sq mi.

PERIOD OF RECORD.—October 1969 to current year.

GAGE.—Water-stage recorder. Datum of gage is 876.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 156 cfs Mar. 16 (gage height, 6.59 ft); minimum daily, 1.3 cfs Sept. 8-10.
Period of record: Maximum discharge, 219 cfs Feb. 20, 1971 (gage height, 7.54 ft); minimum daily, 0.52 cfs Aug. 31, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.0	3.7	46	10	22	35	37	9.6	3.0	3.6	1.4
2	2.0	3.3	3.4	41	9.8	30	33	39	8.9	3.1	3.4	1.5
3	1.9	2.8	3.3	35	9.5	26	31	37	8.7	3.4	3.4	1.6
4	2.0	2.6	3.3	31	9.0	23	37	34	8.1	3.1	3.1	1.6
5	2.3	2.4	3.3	27	8.2	20	36	30	7.2	3.1	2.8	1.4
6	2.1	2.3	5.2	24	7.6	18	34	27	6.6	2.8	2.4	1.4
7	1.9	2.0	9.1	19	7.0	17	35	25	6.0	2.8	2.8	1.4
8	1.9	1.8	9.1	16	6.5	15	32	26	5.3	3.4	2.8	1.3
9	2.6	1.9	8.1	18	6.2	14	30	31	4.7	3.1	2.8	1.3
10	2.4	2.0	20	18	5.8	13	29	30	4.2	3.1	2.4	1.3
11	2.2	2.0	21	17	5.5	12	27	27	3.0	2.7	2.4	2.0
12	2.0	2.1	17	16	6.0	13	26	24	3.4	2.1	2.4	3.9
13	2.0	2.1	15	15	6.7	72	38	23	3.6	2.3	2.4	5.1
14	2.1	2.1	15	13	7.9	109	43	27	3.4	3.7	2.3	47
15	2.1	2.2	27	12	10	103	65	53	5.3	11	2.3	58
16	2.1	2.2	27	11	10	134	95	45	4.4	14	2.2	48
17	2.2	2.3	24	10	10	153	125	38	3.6	12	2.1	38
18	2.2	2.3	19	9.0	11	133	108	34	3.4	13	2.1	36
19	2.3	2.4	17	10	9.1	105	92	30	3.3	20	2.2	32
20	2.3	2.6	17	13	8.5	83	100	26	3.1	17	2.1	25
21	2.5	2.4	16	15	8.1	71	90	23	3.0	14	1.9	20
22	5.3	2.2	13	23	7.2	85	96	18	2.7	11	1.9	16
23	5.4	2.1	12	28	7.2	72	91	15	2.7	8.7	2.3	13
24	3.7	2.2	12	26	7.0	57	74	14	2.7	7.4	2.2	12
25	7.4	2.2	11	23	6.8	48	60	13	2.4	6.6	2.0	12
26	5.2	2.4	12	20	7.6	42	50	11	2.4	5.5	1.9	18
27	5.3	3.0	13	17	7.4	37	41	9.4	2.4	5.3	1.8	20
28	4.4	3.0	13	15	11	34	35	8.3	2.4	4.9	1.6	16
29	3.9	3.9	11	13	16	36	32	7.9	2.8	4.4	1.5	20
30	3.9	4.1	45	12	------	41	30	11	3.3	3.9	1.5	21
31	3.3	------	53	11	------	37	------	11	------	3.7	1.4	------
TOTAL	101.0	73.9	479.5	604.0	242.6	1,675	1,652	783.6	132.6	204.1	72.0	477.2
MEAN	3.23	2.46	15.5	19.5	8.37	54.0	55.1	25.3	4.42	6.58	2.32	15.9
MAX	8.7	4.1	53	46	16	153	125	53	9.6	20	3.6	58
MIN	1.9	1.8	3.3	9.0	5.5	12	26	7.9	2.4	2.1	1.4	1.3
CFSM	.09	.07	.41	.52	.22	1.44	1.47	.67	.12	.18	.06	.42
IN.	.10	.07	.48	.60	.24	1.66	1.64	.78	.13	.20	.07	.47

CAL YR 1971 TOTAL 6,519.92 MEAN 17.9 MAX 215 MIN .52 CFSM .48 IN 6.47
WTR YR 1972 TOTAL 6,498.10 MEAN 17.8 MAX 153 MIN 1.3 CFSM .47 IN 6.45

PEAK DISCHARGE (BASE, 100 CFS).—Mar. 16 (2400) 156 cfs (6.59 ft). Apr. 16 (2200) 135 cfs (6.24 ft).

04178000 St. Joseph River near Newville, Ind.

LOCATION.—Lat 41°23'08", long 84°48'06", in SW 1/4 SW 1/4 sec.18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 miles northeast of Newville and 6.5 miles northwest of Hicksville, Ohio.

DRAINAGE AREA.—610 sq mi.

PERIOD OF RECORD.—October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.—Water-stage recorder. Datum of gage is 795.40 ft above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—26 years, 489 cfs (10.89 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,340 cfs Mar. 18 (gage height, 11.37 ft); maximum gage height, 12.11 ft Sept. 14; minimum daily discharge, 37 cfs Oct. 5, 6.
Period of record: Maximum discharge, 9,710 cfs Apr. 6, 1950 (gage height, 17.05 ft); minimum daily, 14 cfs Sept. 10, 16, 1964.

REMARKS.—Records good.

REVISIONS.—WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	59	71	1,120	200	250	683	512	193	101	74	62
2	48	55	66	1,040	180	560	617	665	188	125	69	58
3	44	53	62	888	165	900	560	538	178	120	69	55
4	40	52	60	660	135	750	564	1,070	171	106	76	55
5	37	52	69	535	145	650	625	1,050	191	96	68	64
6	37	51	83	300	135	550	641	877	174	87	63	62
7	39	49	107	350	130	420	621	674	151	82	71	57
8	42	47	206	357	125	300	570	581	133	82	63	53
9	43	46	223	339	120	290	536	630	120	77	64	49
10	43	48	203	323	115	260	517	741	109	83	78	47
11	52	49	197	340	110	232	500	790	100	79	87	46
12	56	50	216	318	110	218	467	701	91	75	80	54
13	55	50	400	290	145	572	484	582	88	70	73	72
14	52	50	321	252	135	1,490	757	554	91	74	67	1,680
15	49	50	455	150	160	1,740	1,000	911	131	92	63	1,830
16	47	51	885	120	200	2,010	1,390	1,030	157	126	60	1,300
17	59	52	770	170	250	2,270	1,990	980	145	176	61	956
18	59	54	549	207	220	2,330	1,980	833	133	199	64	777
19	88	56	378	193	205	2,220	1,800	663	114	191	246	684
20	69	57	284	211	200	2,060	1,780	535	103	222	183	606
21	76	52	242	270	195	1,830	1,770	437	95	178	122	596
22	70	50	230	342	185	1,650	1,880	359	95	149	113	506
23	63	49	209	652	170	1,980	1,870	303	115	126	156	366
24	59	49	179	731	150	1,740	1,750	267	117	123	172	275
25	55	49	179	760	140	1,550	1,530	242	106	113	120	227
26	50	50	179	663	130	1,350	1,270	216	97	109	106	338
27	88	52	146	521	120	1,030	951	191	93	110	103	556
28	100	60	213	400	125	791	725	168	88	95	91	585
29	125	70	212	350	130	563	588	153	87	97	84	558
30	103	80	412	290	------	723	509	154	86	94	76	645
31	70	------	1,070	240	------	741	------	165	------	83	68	------
TOTAL	2,216	1,532	8,915	13,387	4,520	34,480	30,925	17,972	3,740	3,540	2,890	13,219
MEAN	71.5	53.1	288	432	156	1,109	1,031	580	125	114	93.2	441
MAX	125	80	1,070	1,120	250	2,330	1,990	1,070	193	222	246	1,830
MIN	37	46	60	120	110	218	467	153	86	70	60	46
CFSM	.12	.09	.47	.71	.26	1.82	1.69	.95	.20	.19	.15	.72
IN.	.13	.10	.54	.82	.28	2.08	1.89	1.10	.23	.22	.18	.81

CAL Y- 1971 TOTAL 129,645 MEAN 355 MAX 4,130 MIN 20 CFSM .58 IN 7.85
WTR Y- 1972 TOTAL 139,796 MEAN 374 MAX 2,330 MIN 37 CFSM .61 IN 8.34

04178100 St. Joseph River at Newville, Ind.

LOCATION.—Lat 41°22'29", long 85°48'41", in SW 1/4 SW 1/4 sec.28, T.34 N., R.15 E., Dekalb County, at bridge on county road, 0.6 mile downstream from Ohio-Indiana state line, 0.8 mile upstream from Christoffel ditch, 2.2 miles downstream from gaging station on Ohio State Highway 249, and 2.5 miles northeast of Newville.

DRAINAGE AREA.—615 sq mi.

PERIOD OF RECORD.—Chemical analyses: July 1969 to September 1972.

REMARKS.—Records of discharge are from St. Joseph River near Newville, Ind. (04178000), drainage area, 609 sq mi.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
NOV.										
01...	1300	55	12.0	20.5	700	8.4	15	--	--	424
JAN.										
03...	1300	885	3.5	10.5	575	8.2	30	12.2	92	396
MAR.										
06...	1230	613	1.5	-5.0	650	8.4	25	12.8	91	386
MAY										
02...	1350	650	16.5	21.0	600	8.3	25	8.6	88	394
JULY										
18...	1030	449	28.0	30.5	550	7.9	20	6.0	76	362
SEP.										
19...	1315	917	23.0	19.5	475	7.9	50	6.8	78	306

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
NOV.									
01...	63.0	.58	464	40	.01	.02	.50	.30	3400
JAN.									
03...	946	.54	472	76	1.2	.11	7.1	.18	5300
MAR.									
06...	639	.52	432	46	1.3	.24	3.3	.14	2090
MAY									
02...	691	.54	410	16	1.5	.21	2.1	.23	4500
JULY									
18...	439	.49	430	68	1.2	.09	1.8	.24	5000
SEP.									
19...	758	.42	458	152	1.7	.35	2.4	.29	56000

04179000 St. Joseph River at Cedarville, Ind.

LOCATION.—Lat 41°11'46", long 85°01'27", in J. Hackley Reserve, T.32 N., R.13 E., Allen County, on left bank 700 ft upstream from highway bridge, 0.4 mile south of Cedarville, 0.5 mile upstream from Cedar Creek, and 0.6 mile downstream from Cedarville Dam.

DRAINAGE AREA.—763 sq mi.

PERIOD OF RECORD.—January 1931 to May 1932, October 1955 to current year.

GAGE.—Water-stage recorder. Datum of gage is 757.94 ft above mean sea level. Jan. 1, 1931, to May 31, 1932, nonrecording gage on downstream side of highway bridge 700 ft downstream from present site at datum approximately 20 ft lower.

AVERAGE DISCHARGE.—17 years (1955 to current year), 573 cfs (10.20 inches per year).

EXTREMES.—Current year: Maximum daily discharge, 5,510 cfs Sept. 14; maximum gage height, 15.55 ft Sept. 14; minimum daily discharge, 14 cfs Oct. 9-12.
Period of record: Maximum discharge, 10,100 cfs May 1, 1956 (gage height, 18.07 ft, from floodmarks); minimum daily, 1.6 cfs May 22, 27, 1958.

REMARKS.—Records good. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Stage-discharge relation affected at times by backwater from Cedar Creek.

REVISIONS (WATER YEARS).—WSP 1912: 1956. WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	73	68	1,290	273	291	780	760	237	87	107	75
2	158	71	71	1,250	243	600	740	720	275	107	100	75
3	412	66	75	965	231	870	680	825	287	175	105	75
4	229	63	77	760	215	760	715	1,020	247	156	97	71
5	58	60	75	625	180	515	740	1,140	229	141	78	82
6	40	57	116	361	160	391	725	940	261	126	85	88
7	54	46	193	283	150	470	1,250	835	201	119	600	83
8	30	52	245	400	135	403	785	640	221	97	333	85
9	14	63	293	430	125	251	770	740	295	97	173	65
10	14	62	470	425	120	273	770	780	193	126	139	44
11	14	62	730	435	115	309	665	790	29	121	111	75
12	14	55	690	430	115	263	630	760	137	104	132	158
13	25	54	530	379	120	740	1,390	650	189	104	105	475
14	47	54	445	271	125	1,790	1,020	850	173	333	124	5,510
15	47	70	980	200	169	1,970	1,110	1,440	373	1,030	97	4,560
16	47	73	1,260	160	241	2,310	1,470	1,300	289	1,260	68	3,330
17	47	60	960	213	277	2,480	3,270	1,210	211	640	88	2,080
18	47	51	740	253	239	2,600	3,070	1,020	207	470	92	1,830
19	62	54	535	241	251	2,470	2,480	815	193	940	307	1,480
20	66	57	403	235	227	2,400	2,700	665	150	550	328	1,090
21	64	65	320	275	281	2,140	2,700	550	135	380	215	992
22	49	66	293	388	217	2,340	2,880	510	130	273	139	945
23	35	66	273	680	177	2,200	2,660	420	124	197	358	730
24	35	63	263	780	189	2,010	2,310	339	137	205	269	615
25	25	63	209	780	156	1,800	1,970	352	167	249	201	515
26	21	65	255	595	160	1,560	1,770	259	158	191	156	970
27	42	66	251	520	152	1,330	1,190	243	112	135	143	980
28	94	66	251	403	164	960	920	245	124	160	141	890
29	130	83	293	370	191	925	750	255	111	137	102	725
30	78	80	680	349	------	950	595	299	116	133	114	1,060
31	66	------	1,250	333	------	950	------	231	------	130	107	------
TOTAL	2,087	1,996	13,294	15,079	5,358	39,221	43,505	21,602	5,711	8,973	5,214	29,753
MEAN	67.3	62.9	429	486	186	1,265	1,450	697	190	289	168	992
MAX	412	83	1,260	1,290	281	2,600	3,270	1,440	373	1,260	600	5,510
MIN	14	46	68	160	115	251	595	231	29	87	68	44
CFSM	.09	.08	.56	.64	.24	1.66	1.90	.91	.25	.38	.22	1.30
IN.	.10	.09	.65	.74	.26	1.91	2.12	1.05	.28	.44	.25	1.45

CAL YR 1971 TOTAL 155,432 MEAN 426 MAX 4,010 MIN 13 CFSM .56 IN 7.58
WTR YR 1972 TOTAL 191,723 MEAN 524 MAX 5,510 MIN 14 CFSM .69 IN 9.35

04179500 Cedar Creek at Auburn, Ind.

LOCATION.—Lat 41°21'57", long 85°03'08", in NE 1/4 NW 1/4 sec.32, T.34 N., R.13 E., DeKalb County, on right bank 15 ft downstream from Ninth Street bridge in Auburn, and 2 miles upstream from John Diehl ditch.

DRAINAGE AREA.—87.3 sq mi.

PERIOD OF RECORD.—July 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 847.14 ft above mean sea level (City of Auburn bench mark). Prior to Aug. 28, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—29 years, 67.1 cfs (10.44 inches per year).

EXTREMES.—Current year: Maximum discharge, 920 cfs Sept. 14 (gage height, 8.32 ft); minimum daily, 2.4 cfs Oct. 2.
Period of record: Maximum discharge, 1,520 cfs Apr. 5, 1950 (gage height, 9.90 ft); minimum daily, 0.7 cfs Nov. 8, 1953.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1337: 1944-45(M), 1947-49, 1950(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.4	4.2	139	20	67	97	80	23	7.6	11	4.0
2	2.4	4.4	3.7	96	18	177	86	76	21	7.3	11	4.2
3	2.8	4.7	3.5	75	17	100	81	65	19	7.3	10	3.7
4	2.6	4.9	3.5	64	16	64	118	56	17	6.6	9.7	3.5
5	2.6	5.2	3.3	53	14	43	117	49	15	6.3	9.2	4.0
6	2.8	3.5	12	42	13	39	100	43	15	6.0	9.0	3.7
7	2.8	3.3	27	37	12	31	114	40	13	8.9	60	3.5
8	3.0	3.0	31	31	11	26	89	47	13	8.9	35	3.7
9	3.5	3.3	24	34	10	23	87	81	12	6.9	25	3.3
10	3.0	3.5	63	42	11	21	87	70	11	6.6	19	2.5
11	3.0	3.6	104	46	12	16	80	57	9.7	5.4	15	4.9
12	3.0	3.6	61	42	12	17	74	49	9.7	5.4	13	9.7
13	3.1	3.6	43	39	13	235	86	47	11	6.3	11	40
14	3.5	3.4	36	31	15	391	88	67	12	8.9	10	846
15	3.5	3.2	111	22	32	289	268	182	21	134	9.0	818
16	3.0	3.3	146	20	35	449	408	143	19	151	8.0	568
17	2.8	3.4	86	30	31	473	532	106	15	105	7.6	420
18	3.1	3.3	57	37	36	325	370	83	13	96	7.2	356
19	3.5	3.6	42	35	25	234	279	68	13	147	16	296
20	3.7	4.0	38	33	22	195	339	56	12	105	12	235
21	4.2	3.7	33	33	19	189	272	48	12	75	8.5	187
22	3.9	3.3	29	64	18	328	336	43	11	54	6.5	148
23	3.6	3.2	25	150	15	243	261	37	10	39	11	122
24	15	3.1	23	98	15	157	194	34	10	34	6.6	105
25	12	3.1	21	68	13	126	148	30	8.9	27	6.0	97
26	7.3	3.0	22	47	13	107	120	27	8.9	22	5.6	138
27	6.3	3.1	25	34	11	95	98	23	8.6	21	4.4	150
28	4.4	3.3	29	32	15	83	81	21	7.9	18	4.7	119
29	3.3	3.5	26	29	51	91	70	21	8.2	15	4.4	131
30	2.5	4.8	165	24	------	138	66	26	9.6	13	4.2	166
31	2.7	------	256	22	------	113	------	25	------	12	4.0	------
TOTAL	135.9	109.3	1,555.2	1,549	545	4,885	5,146	1,800	388.5	1,166.4	373.6	4,692.7
MEAN	4.38	3.64	50.2	50.0	18.9	158	172	58.1	13.0	37.6	12.1	166
MAX	15	5.2	256	150	51	473	532	182	23	151	60	846
MIN	2.4	3.0	3.3	20	10	16	66	21	7.9	5.4	4.0	2.5
CFSM	.05	.04	.58	.57	.22	1.81	1.97	.67	.15	.43	.14	1.90
IN.	.05	.05	.66	.66	.23	2.08	2.19	.77	.17	.50	.16	2.13

CAL YR 1971 TOTAL 15,385.86 MEAN 42.2 MAX 720 MIN .96 CFSM .48 IN 6.56
WTR YR 1972 TOTAL 22,650.60 MEAN 61.9 MAX 846 MIN 2.4 CFSM .71 IN 9.65

PEAK DISCHARGE (BASE, 700 CFS).—Sept. 14 (1545) 920 cfs (8.32 ft).

04180000 Cedar Creek near Cedarville, Ind.

LOCATION.--Lat 41°13'08", long 85°04'35", in NW 1/4 NW 1/4 sec.19, T.32 N., R.13 E., Allen County, on left bank at downstream side of bridge on State Highway 427, 3 miles northwest of Cedarville, 5.8 miles upstream from mouth, and 10 miles south of Auburn.

DRAINAGE AREA.--270 sq mi.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.09 ft above mean sea level. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 229 cfs (11.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,520 cfs Sept. 15 (gage height, 7.88 ft); minimum daily, 23 cfs Nov. 8, 26.
Period of record: Maximum discharge, 4,870 cfs Apr. 5, 1950 (gage height, 11.67 ft); minimum daily, 13 cfs Oct. 3, 1949.

REMARKS.--Records good.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	26	32	426	64	149	682	288	121	46	58	46
2	33	28	28	294	79	317	950	282	111	44	56	46
3	31	31	27	233	71	290	229	233	105	46	55	46
4	34	28	26	190	68	205	285	200	98	43	52	44
5	33	27	25	160	65	147	309	175	88	40	48	41
6	36	27	31	130	62	141	265	163	84	40	46	43
7	35	25	77	135	60	127	537	155	90	40	304	41
8	36	23	98	125	59	110	473	168	76	53	213	36
9	43	25	84	114	58	89	384	261	81	49	132	35
10	43	27	134	132	57	94	319	248	88	43	95	33
11	36	27	248	142	57	85	276	205	69	41	76	38
12	35	28	185	136	56	86	429	180	66	39	68	124
13	36	27	132	130	57	367	551	170	72	44	60	349
14	35	26	117	100	64	1,010	376	276	71	142	54	1,460
15	37	24	291	74	74	796	375	673	127	653	53	2,400
16	37	25	423	66	90	989	746	540	139	849	50	2,070
17	35	27	285	100	109	1,030	1,690	393	94	503	48	1,180
18	36	26	195	129	114	718	1,320	309	73	410	46	838
19	35	29	148	123	101	506	774	250	70	506	150	826
20	36	33	132	108	87	419	1,030	214	66	369	140	599
21	34	27	122	115	83	394	902	188	62	254	80	468
22	36	24	109	154	71	541	982	167	59	189	63	381
23	59	24	100	356	65	505	827	151	57	145	104	320
24	65	24	96	292	65	363	555	142	58	123	126	288
25	69	24	90	220	62	299	435	133	53	149	82	264
26	53	23	90	190	60	260	354	123	50	109	77	435
27	46	24	94	175	57	241	303	116	50	99	59	505
28	40	27	102	140	61	225	258	109	49	89	51	377
29	36	27	100	120	94	236	233	114	48	77	47	404
30	33	35	284	110	------	403	218	149	48	68	49	570
31	29	------	641	100	------	337	------	139	------	61	47	------
TOTAL	1,240	798	4,550	5,019	2,090	12,478	15,964	6,914	2,318	5,363	2,589	14,303
MEAN	40.0	26.6	147	162	72.1	370	532	223	77.3	173	83.5	477
MAX	69	35	641	426	114	1,030	1,690	673	139	849	304	2,400
MIN	29	23	25	66	56	85	218	109	48	39	46	33
CFSM	.15	.10	.54	.60	.27	1.37	1.97	.83	.29	.64	.31	1.77
IN.	.17	.11	.63	.69	.29	1.58	2.20	.95	.32	.74	.36	1.97

CAL YR 1971 TOTAL 58,145 MEAN 159 MAX 2,850 MIN 24 CFSM .59 IN 8.01
WTR YR 1972 TOTAL 72,627 MEAN 198 MAX 2,400 MIN 23 CFSM .73 IN 10.01

PEAK DISCHARGE (BASE, 2,000 CFS).--Sept. 15 (1100) 2,520 cfs (7.88 ft).

04181050 St. Marys River near Wilshire, Ohio

LOCATION.—Lat 40°45'07", long 84°47'36", in SW 1/4 NE 1/4 sec.30, T.3 S., R.1 E., First principal meridian, at bridge on New York, Chicago, and St. Louis Railroad at northeast edge of Wilshire, and 1 mile upstream from Ohio-Indiana state line.

DRAINAGE AREA.—435 sq mi.

PERIOD OF RECORD.—Chemical analyses: July 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 05...	1115	20.5	25.0	700	7.5	25	5.5	60	444
NOV. 29...	1200	4.5	5.0	900	9.3	10	10.0	77	548
JAN. 31...	1500	.5	-1.0	850	9.2	10	12.6	88	518
APR. 03...	1130	6.0	9.0	650	7.4	15	11.6	93	398
MAY 30...	1230	19.0	23.5	700	8.3	20	7.6	81	470
AUG. 22...	1430	26.0	29.5	670	7.8	20	6.7	82	426

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT. 05...	.60	554	110	.02	3.2	--	1.1	.30	26000
NOV. 29...	.75	586	38	.07	.70	--	.56	.44	5800
JAN. 31...	.70	568	50	.17	6.2	6.2	.93	.21	1400
APR. 03...	.54	512	114	.13	5.9	--	1.6	.27	8800
MAY 30...	.64	632	162	.26	7.5	--	2.1	.21	33000
AUG. 22...	.58	570	144	.40	1.0	--	2.2	.46	23000

04181500 St. Marys River at Decatur, Ind.

LOCATION.—Lat 40°50'55", long 84°56'16", in SW 1/4 SW 1/4 sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft downstream from bridge on U.S. Highway 27, 0.5 mile upstream from Holthouse ditch, and 1.3 miles north of Decatur.

DRAINAGE AREA.—621 sq mi.

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mile upstream January 1932 to November 1954, and at present site thereafter are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—26 years, 478 cfs (10.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,470 cfs Apr. 23 (gage height, 22.42 ft); minimum daily, 18 cfs Sept. 1.
Period of record: Maximum discharge, 11,300 cfs Feb. 10, 11, 1959; maximum gage height, 24.22 ft Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 cfs Oct. 18, 1960.

REMARKS.--Records good. Flow regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).—WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	84	86	1,400	170	238	596	412	641	128	37	18
2	284	82	73	1,140	150	2,140	562	336	434	67	39	26
3	270	78	89	1,460	130	2,250	502	273	366	179	57	31
4	134	67	120	1,510	120	1,560	548	230	302	731	41	36
5	136	59	119	1,280	110	1,540	464	199	217	596	35	29
6	86	54	229	933	95	1,580	372	170	165	629	40	25
7	63	50	1,430	797	90	1,550	2,250	151	135	618	47	24
8	51	46	2,370	651	82	1,120	3,220	142	105	466	47	26
9	50	45	2,030	744	80	656	3,220	308	264	291	43	24
10	52	45	1,650	1,400	77	440	3,330	513	363	166	37	23
11	51	43	1,690	1,080	74	323	3,280	384	116	108	32	27
12	46	42	1,460	847	73	257	2,710	450	80	80	30	37
13	43	41	1,170	863	80	913	3,690	547	87	80	27	61
14	42	39	1,320	700	88	1,640	3,820	595	79	411	27	197
15	40	38	2,790	500	100	1,270	3,600	815	76	990	31	253
16	38	37	3,010	420	150	1,350	3,710	798	69	2,260	74	158
17	36	37	2,400	500	140	1,360	4,040	610	59	1,900	66	99
18	27	35	1,800	643	180	1,100	3,340	691	66	1,180	51	440
19	48	38	1,630	600	220	825	2,340	869	78	1,980	45	397
20	56	38	1,460	598	246	616	3,690	811	82	2,050	48	206
21	52	39	1,120	556	189	485	5,170	601	128	1,110	55	118
22	253	38	794	602	150	414	6,720	434	114	521	47	78
23	975	36	562	876	118	334	7,280	283	79	310	47	99
24	640	34	459	722	96	262	5,820	196	79	203	49	274
25	435	32	384	540	93	243	4,460	156	151	145	45	276
26	313	33	345	470	78	231	3,280	127	150	104	39	1,240
27	241	38	329	400	70	235	2,050	107	115	81	32	2,240
28	187	41	352	340	75	406	1,110	92	87	66	28	1,940
29	143	49	296	270	87	507	737	84	73	55	24	1,310
30	114	70	977	220	------	995	538	497	112	46	21	1,570
31	100	------	2,110	200	------	702	------	1,300	------	40	19	------
TOTAL	5,319	1,408	34,654	23,272	3,411	27,542	96,449	13,181	4,872	17,591	1,260	11,282
MEAN	172	46.9	1,118	751	118	888	2,882	425	162	567	40.6	376
MAX	975	84	3,010	1,510	246	2,250	7,280	1,300	641	2,260	74	2,240
MIN	36	32	73	200	70	231	372	84	59	40	19	18
CFSM	.28	.08	1.80	1.21	.19	1.43	4.64	.68	.26	.91	.07	.61
IN.	.32	.08	2.08	1.39	.20	1.65	5.18	.79	.29	1.05	.08	.69

CAL YR 1971 TOTAL 146,590 MEAN 402 MAX 3,540 MIN 19 CFSM .65 IN 8.78
WTR YR 1972 TOTAL 230,241 MEAN 629 MAX 7,280 MIN 18 CFSM 1.01 IN 13.79

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0100	16.43	3,100	04-17	0700	18.83	4,120
04-11	0030	17.21	3,380	04-23	0400	22.42	7,470
04-13	2000	18.41	3,900				

04182000 St. Marys River near Fort Wayne, Ind.

LOCATION.—Lat 40°59'16", long 85°06'03", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, on left bank 130 ft downstream from highway bridge on Anthony Boulevard, 5 miles south of Fort Wayne, and 10.8 miles upstream from confluence with St. Joseph River.

DRAINAGE AREA.—762 sq mi.

PERIOD OF RECORD.—October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307. Fragmentary gage-height records for period November 1924 to October 1927 are available in the District office.

GAGE.—Water-stage recorder. Datum of gage is 748.97 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.—42 years, 550 cfs (9.80 inches per year).

EXTREMES.—Current year: Maximum discharge, 8,390 cfs Apr. 24 (gage height, 15.67 ft); minimum daily, 23 cfs, Sept. 1.
Period of record: Maximum discharge, 13,600 cfs Feb. 11, 1959; maximum gage height, 19.42 ft Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 cfs Oct. 19, 1934.

REMARKS.—Records fair. The flow is sometimes regulated by Grand Lake. There is slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).—WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	100	87	1,980	210	250	700	620	870	155	47	23
2	345	98	80	1,370	185	2,160	650	440	530	82	55	30
3	234	90	83	1,550	160	2,790	620	360	430	205	71	35
4	151	80	98	1,690	150	2,020	680	305	360	900	50	40
5	144	72	195	1,360	135	1,620	660	260	265	740	43	38
6	131	65	430	1,050	120	1,710	540	220	195	760	49	32
7	94	60	1,570	900	110	1,690	2,400	200	160	700	58	29
8	76	56	2,780	780	105	1,420	3,670	180	125	560	58	31
9	70	55	2,660	1,000	98	800	3,840	265	213	300	50	29
10	65	54	2,320	1,450	95	520	3,840	520	440	190	45	28
11	67	52	2,120	1,200	90	370	3,800	500	140	125	40	33
12	66	52	1,800	1,050	92	300	3,560	530	95	94	37	38
13	60	50	1,460	980	100	606	4,950	610	105	94	34	49
14	54	48	1,440	900	110	2,080	4,630	720	95	338	35	140
15	50	46	3,500	600	125	1,760	4,280	920	92	1,030	39	300
16	48	45	3,800	520	180	1,600	4,190	940	86	2,310	91	200
17	45	44	3,300	620	170	1,640	4,520	770	70	2,440	80	142
18	42	43	2,340	750	210	1,370	4,380	830	75	1,580	60	510
19	42	47	1,900	690	260	1,050	3,370	980	90	2,100	52	480
20	54	46	1,750	690	300	800	3,830	970	100	2,480	56	290
21	65	48	1,490	680	250	620	4,820	780	155	1,740	66	160
22	127	47	1,230	780	200	480	6,620	580	135	580	54	96
23	875	45	860	1,000	155	400	8,090	410	96	340	54	120
24	898	42	700	860	135	320	8,120	270	96	250	58	320
25	566	40	560	700	115	280	6,680	205	132	170	52	330
26	399	41	470	600	100	270	4,740	170	206	125	45	1,380
27	300	47	430	500	90	270	2,990	140	129	92	39	2,550
28	230	51	400	400	95	350	1,440	120	152	80	32	2,590
29	175	56	400	330	110	550	950	105	164	65	28	2,020
30	145	65	1,000	280	------	1,100	740	500	149	54	26	2,050
31	120	------	2,320	240	------	850	------	1,400	------	48	25	------
TOTAL	5,174	1,687	43,573	27,500	4,255	32,046	104,300	15,820	5,954	20,727	1,529	14,113
MEAN	167	56.2	1,406	887	147	1,034	3,477	510	198	669	49.3	470
MAX	898	100	3,800	1,980	300	2,790	8,120	1,400	870	2,480	91	2,590
MIN	42	40	80	240	90	250	540	105	70	48	25	23
CFSM	.26	.07	1.85	1.16	.19	1.36	4.56	.67	.26	.88	.06	.62
IN.	.30	.08	2.13	1.34	.21	1.56	5.09	.77	.29	1.01	.07	.69

CAL YR 1971 TOTAL 177,325 MEAN 487 MAX 4,050 MIN 21 CFSM .64 IN 8.69
WTR YR 1972 TOTAL 277,579 MEAN 759 MAX 8,120 MIN 23 CFSM 1.00 IN 13.56

PEAK DISCHARGE (BASE, 4,000 CFS).—Apr. 13 (0400) 5,080 cfs (12.68 ft). Apr. 24 (0200) 8,390 cfs (15.67 ft).

04182590 Harber ditch at Fort Wayne, Ind.

LOCATION.--Lat 41°00'27", long 85°10'58", in NE 1/4 SW 1/4 sec.33, T.30 N., R.12 E., Allen County, on left bank 50 ft upstream from bridge on State Highway 3 at Fort Wayne city limits and 3.2 miles upstream from mouth. The stream name changes to Fairfield ditch 0.7 mile downstream at bridge on Lower Huntington Road.

DRAINAGE AREA.--21.9 sq mi.

PERIOD OF RECORD.--May 1964 to current year. Discharge measurements available October 1960 to May 1964 and gage heights January 1961 to May 1964 at site 0.7 mile downstream.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 17.4 cfs (10.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 618 cfs Apr. 13 (gage height, 10.84 ft); minimum daily, 0.20 cfs Nov. 15, Aug. 1, Sept. 6.
Period of record: Maximum discharge, 728 cfs Feb. 20, 1971 (gage height, 11.55 ft); minimum daily, 0.10 cfs Oct. 25-26, Oct. 31 to Nov. 3, Nov. 6, 8-10, 12-14, 1964, Jan. 28 to Feb. 3, Aug. 8, and Sept. 19, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.83	3.6	27	6.0	19	18	45	23	.82	.20	.26
2	.59	2.0	2.7	22	5.2	81	14	22	13	.74	2.0	.22
3	2.0	.82	2.3	16	4.5	32	12	14	8.8	.70	1.4	.21
4	.82	.72	2.3	14	4.0	18	26	11	7.0	.65	.82	.22
5	.41	.59	1.4	11	3.5	10	16	7.6	5.8	.62	.53	.26
6	.36	.41	14	9.0	3.0	7.0	20	6.1	5.1	.59	.60	.20
7	.36	.36	67	8.5	2.8	5.5	228	5.1	3.8	.56	17	.80
8	1.4	.31	75	8.0	2.6	4.7	95	5.6	3.3	.54	2.8	1.9
9	3.3	.60	38	24	2.5	4.4	90	5.8	12	.52	1.3	.47
10	1.7	.40	102	37	2.5	4.2	70	4.8	3.8	.50	.74	.22
11	.82	.59	78	22	2.6	4.0	42	3.8	2.2	.49	.53	4.5
12	.30	.41	33	15	2.9	15	103	3.8	1.8	.48	1.0	5.6
13	.71	.31	20	10	3.0	113	440	7.9	6.0	25	.53	37
14	.66	.31	69	7.0	3.7	106	103	31	2.7	13	.53	60
15	.53	.20	305	6.0	16	57	51	42	148	12	.53	11
16	.53	.36	115	5.8	13	64	94	20	44	9.5	.36	5.5
17	.31	.51	53	7.5	9.5	40	96	13	17	8.0	.36	4.8
18	.39	.36	27	9.5	7.5	25	42	9.4	10	17	.60	17
19	.41	1.6	19	13	6.0	17	33	7.0	7.6	12	4.7	15
20	.53	.47	13	14	5.5	14	180	5.8	5.8	6.7	.53	7.0
21	2.4	.60	10	15	5.0	19	88	4.8	4.6	2.7	.41	4.3
22	31	.60	8.5	34	4.7	36	168	4.6	3.6	1.2	.36	2.3
23	20	.41	8.5	39	4.4	20	59	3.1	4.2	.74	9.1	6.9
24	8.4	.47	8.8	29	4.2	12	31	2.7	3.1	.74	.74	8.5
25	5.6	.47	7.3	.22	4.0	11	22	2.5	2.0	.60	.41	4.7
26	3.6	.47	8.8	17	3.8	9.1	16	1.7	1.6	.60	1.0	24
27	2.9	.90	8.4	14	3.8	10	13	1.6	1.4	.74	.74	44
28	2.0	.82	9.1	12	3.8	19	13	2.2	1.3	.36	.74	16
29	1.2	4.3	7.3	9.5	3.8	30	8.8	11	1.3	.22	.41	73
30	1.0	5.1	73	8.0	------	60	18	98	1.1	.21	.22	65
31	.30	------	59	7.0	------	25	------	53	------	.21	.22	------
TOTAL	97.37	34.37	1,249.0	471.02	143.7	890.9	2,209.8	455.8	355.8	119.73	52.31	422.26
MEAN	3.14	.83	40.3	15.2	4.96	29.7	73.7	14.7	11.9	3.83	1.69	14.1
MAX	31	5.1	305	39	16	113	440	98	148	25	17	73
MIN	.31	.20	1.4	.22	2.5	4.0	8.8	1.6	1.1	.21	.20	.20
CFSM	.14	.04	1.84	.69	.23	1.31	3.37	.67	.54	.17	.08	.64
IN.	.17	.04	2.12	.80	.24	1.51	3.75	.77	.60	.20	.09	.72

CAL YR 1971 TOTAL 5,740.80 MEAN 15.8 MAX 384 MIN .10 CFSM .72 IN 9.77
WTR YR 1972 TOTAL 6,493.06 MEAN 17.7 MAX 440 MIN .20 CFSM .81 IN 11.03

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0530	8.77	392	04-13	0730	10.84	618
04-07	0900	8.32	356	06-15	0615	7.64	301

04183000 Maumee River at New Haven, Ind.

LOCATION (REVISED).—Lat 41°05'06", long 85°01'20", in SE 1/4 NE 1/4 sec.2, T.30 N., R.13 E., Allen County, on left bank 600 ft upstream from bridge on Landin Road, 1,400 ft upstream from the Wabash Railroad bridge, 1.1 miles northwest of New Haven, 2.8 miles upstream from Sixmile Creek.

DRAINAGE AREA.—1,967 sq mi.

PERIOD OF RECORD.—December 1946 to September 1956 (high-water records only), October 1956 to current year.

GAGE.—Water-stage recorder. Datum of gage is 724.51 ft above mean sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.—16 years (1956-72), 1,478 cfs (10.20 inches per year).

EXTREMES.—Current year: Maximum discharge, 11,500 cfs Apr. 23 (gage height, 17.14 ft); minimum daily, 129 cfs Oct. 17, 18.
Period of record: Maximum discharge, 19,100 cfs Feb. 16, 1950 (gage height, 21.4 ft at site then in use); minimum daily, 48 cfs Oct. 6, 13, 1963.

REMARKS.—Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 miles upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.—WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	224	204	4,240	69C	559	2,130	2,430	1,640	296	235	161
2	448	247	222	3,100	646	2,400	1,860	1,830	977	250	169	147
3	621	205	215	2,840	555	4,220	1,730	1,570	852	316	261	188
4	656	190	213	2,950	486	3,540	2,100	1,720	821	417	269	146
5	223	190	238	2,610	44C	2,690	2,030	1,730	656	808	222	146
6	232	175	405	1,870	38C	2,110	1,75C	1,63C	582	715	190	154
7	194	184	1,300	1,240	340	2,560	4,470	1,430	482	745	908	164
8	179	374	3,360	1,230	31C	2,190	5,64C	1,200	468	720	866	209
9	262	144	3,430	1,420	28C	1,480	5,500	1,270	451	555	403	180
10	168	147	3,600	2,140	26C	855	5,520	1,630	901	402	331	14C
11	155	157	3,680	2,300	240	877	5,280	1,650	465	349	247	143
12	156	148	3,110	1,820	255	741	5,000	1,550	328	258	265	422
13	151	147	2,46C	1,580	275	2,84C	7,610	1,520	427	307	238	908
14	145	157	2,220	1,400	3CC	5,360	7,310	2,210	452	979	209	6,270
15	139	150	5,61C	1,0CC	472	5,29C	6,310	3,540	2,01C	1,810	247	7,780
16	134	150	6,23C	800	514	5,280	7,05C	3,300	1,00C	3,810	160	6,680
17	129	156	5,29C	1,050	613	5,62C	9,58C	2,630	547	3,760	184	4,430
18	129	154	3,91C	1,150	6C7	5,140	9,45C	2,23C	444	2,83C	210	3,36C
19	132	166	2,92C	981	585	4,310	7,82C	2,080	405	3,670	505	3,53C
20	136	170	2,480	874	664	3,900	7,810	1,910	352	3,640	680	2,500
21	154	165	2,06C	941	558	3,490	8,500	1,66C	327	2,810	409	1,91C
22	546	158	1,54C	1,140	576	3,780	10,200	1,25C	359	1,460	26C	1,60C
23	703	150	1,17C	2,000	381	3,56C	11,300	1,07C	329	834	825	1,33C
24	1,200	172	947	2,360	437	3,C2C	11,300	752	35C	651	527	1,12C
25	763	161	835	2,120	357	2,640	10,400	688	313	574	406	1,10C
26	653	157	743	1,730	353	2,250	8,37C	600	366	516	349	2,410
27	415	201	769	1,230	325	2,230	5,800	468	365	594	265	4,110
28	333	178	742	1,020	3,C	1,86C	3,490	474	281	211	252	4,020
29	358	214	753	950	377	2,230	2,330	543	344	285	229	3,710
30	317	228	2,06C	86C	------	3,07C	1,850	1,020	206	274	174	3,830
31	247	------	4,320	780	------	2,690	------	1,630	------	252	18C	------
TOTAL	11,497	5,409	67,02E	51,72E	12,59C	92,781	179,45C	49,215	17,528	35,098	10,674	62,798
MEAN	339	180	2,162	1,669	434	2,993	5,983	1,588	584	1,132	344	2,093
MAX	1,200	374	6,230	4,240	69C	5,62C	11,300	3,540	2,01C	3,810	908	7,78C
MIN	129	144	204	780	24C	552	1,730	468	206	211	16C	140
CFSM	.17	.09	1.10	.85	.22	1.52	3.04	.81	.3C	.58	.17	1.06
IN.	.20	.10	1.27	.98	.24	1.75	3.39	.93	.33	.66	.20	1.19

CAL YR 1971 TOTAL 435,867 MEAN 1,167 MAX 10,200 MIN 105 CFSM .59 IN 8.05
WTR YR 1972 TOTAL 594,932 MEAN 1,625 MAX 11,300 MIN 129 CFSM .83 IN 11.25

PEAK DISCHARGE (BASE 9,500 CFS).—Apr. 17 (1945) 9,780 cfs (15.71 ft). Apr. 23 (1930) 11,500 cfs (17.14 ft).

04183500 Maumee River at Antwerp, Ohio

LOCATION.—Lat 41°11'56", long 84°44'40", in sec.22, T.3 N., R.1 E., Paulding County, on left bank 425 ft downstream from bridge on State Highway 49, 1 mile north of Antwerp, 7 miles downstream from Indiana-Ohio state line, and 10 miles upstream from Marie DeLarme Creek.

DRAINAGE AREA.—2,129 sq mi.

PERIOD OF RECORD.—September 1921 to December 1935, April 1939 to current year.

GAGE.—Water-stage recorder. Datum of gage is 694.90 ft above mean sea level. Prior to Sept 13, 1925, nonrecording gage at site 400 ft upstream at same datum.

AVERAGE DISCHARGE.—47 years, 1,642 cfs (10.48 inches per year).

EXTREMES.—Current year: Maximum discharge, 12,100 cfs Apr. 24 (gage height, 14.52 ft); minimum, 133 cfs Oct. 19.
Period of record: Maximum discharge, 26,200 cfs May 20, 1943 (gage height, 20.29 ft); minimum, 24 cfs Oct. 17, 1930, June 21, 22, 1933 (gage height, 0.32 ft).
Flood of Mar. 27, 1913, estimated as 40,000 cfs.

REMARKS.—Records good except those for January and February, which are fair. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 miles upstream. Flow slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).—WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	270	245	4,570	750	460	2,330	2,300	1,830	245	278	199
2	525	248	203	3,540	660	990	1,900	2,230	1,330	301	259	179
3	455	264	219	2,760	600	3,510	1,730	1,740	960	281	193	163
4	674	229	216	2,750	550	3,870	1,860	1,620	915	325	276	198
5	586	213	211	2,630	500	2,830	2,130	1,650	785	504	284	167
6	256	200	242	2,210	440	2,210	1,870	1,630	658	770	248	158
7	253	193	472	1,640	400	2,080	3,260	1,510	610	710	298	162
8	208	208	2,220	1,330	360	2,260	6,010	1,370	486	750	1,080	177
9	219	374	3,230	1,260	320	1,780	5,820	1,210	483	706	754	218
10	284	173	3,230	1,710	290	1,210	5,790	1,380	865	535	420	191
11	198	161	3,780	2,280	260	875	5,540	1,600	955	409	338	167
12	173	168	3,190	1,970	250	845	5,230	1,510	497	357	273	172
13	173	164	2,590	1,640	250	1,510	6,640	1,450	392	292	281	482
14	168	161	2,030	1,480	300	4,920	8,230	1,520	500	642	264	5,940
15	164	168	4,290	1,010	400	6,010	6,910	2,990	1,110	950	248	10,100
16	154	164	6,730	835	520	5,630	6,750	3,230	2,420	2,830	278	8,470
17	147	159	5,960	1,100	600	5,920	9,780	2,750	1,020	3,940	190	6,070
18	140	166	4,510	1,160	660	5,620	10,400	2,260	622	3,270	198	3,810
19	135	166	3,130	1,210	590	4,820	9,250	1,960	504	2,990	267	4,040
20	138	168	2,490	1,220	540	3,970	8,290	1,870	448	3,800	890	3,150
21	140	173	2,130	1,200	640	3,510	8,880	1,710	406	3,300	690	2,210
22	216	171	1,710	1,240	600	3,640	10,200	1,410	360	2,120	437	1,770
23	567	164	1,320	1,950	560	3,690	11,600	1,200	385	1,220	378	1,510
24	885	154	1,080	2,350	500	3,150	12,100	960	374	815	936	1,290
25	1,080	168	920	2,270	420	2,600	11,800	746	371	654	550	1,150
26	718	168	810	2,000	380	2,300	10,200	670	341	606	432	1,720
27	539	166	762	1,700	360	2,120	7,640	567	392	518	364	4,240
28	420	195	770	1,400	350	1,920	4,490	483	378	602	289	4,400
29	350	195	746	1,100	380	1,780	2,750	490	304	253	270	4,260
30	371	211	1,170	980	------	3,020	2,050	718	347	304	248	4,230
31	331	------	3,740	860	------	2,870	------	1,210	------	301	197	------
TOTAL	11,273	5,782	64,346	55,355	13,430	91,920	191,430	47,944	21,048	35,300	12,112	70,993
MEAN	364	193	2,076	1,786	463	2,965	6,381	1,547	702	1,139	391	2,366
MAX	1,080	374	6,730	4,570	750	6,010	12,100	3,230	2,420	3,940	1,080	10,100
MIN	135	154	203	835	250	460	1,730	483	304	245	190	158
CFSM	.17	.09	.98	.84	.22	1.39	3.00	.73	.33	.54	.18	1.11
IN.	.20	.10	1.12	.97	.23	1.61	3.34	.84	.37	.62	.21	1.24

CAL YR 1971 TOTAL 471,729 MEAN 1,292 MAX 12,000 MIN 113 CFSM .61 IN 8.24
WTR YR 1972 TOTAL 620,933 MEAN 1,697 MAX 12,100 MIN 135 CFSM .80 IN 10.85

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-14	0500	11.89	8,570	04-24	1200	14.52	12,100
04-18	0300	13.35	10,500	09-15	0600	13.32	10,400

04183500 Maumee River at Antwerp, Ohio—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
05...	1300	540	21.5	23.0	700	7.8	20	5.8	65	392
18...	1515	151	17.5	18.0	750	8.3	10	8.2	85	474
NOV.										
01...	1415	269	13.0	21.0	750	8.3	15	--	--	470
16...	1308	--	10.0	12.5	851	8.8	15	14.2	126	534
29...	1330	--	3.5	.5	925	8.5	10	13.6	100	516
DEC.										
01...	1100	--	2.5	--	905	--	--	--	--	--
14...	1345	2070	5.0	.0	650	8.6	30	11.2	88	418
JAN.										
03...	1430	2790	5.0	10.5	575	8.5	25	12.6	98	374
18...	1330	--	.0	6.5	780	9.3	20	12.8	88	496
20...	1130	--	1.0	--	798	8.2	--	--	--	--
31...	1600	2260	.0	-1.0	800	8.8	20	13.4	92	478
FEB.										
15...	1100	655	.5	3.0	900	7.5	10	9.8	68	636
MAR.										
06...	1315	2360	1.5	-3.0	600	8.6	25	13.8	98	352
22...	0930	--	6.5	--	504	8.2	--	--	--	--
22...	1340	3810	8.0	1.5	425	8.2	20	11.2	94	364
APR.										
03...	1400	1800	7.0	8.0	660	8.0	20	12.0	98	440
18...	1200	10380	14.5	21.0	375	7.8	35	8.2	80	250
MAY										
02...	1345	--	17.0	--	546	--	--	--	--	--
02...	1500	--	16.5	22.0	554	8.4	20	8.8	90	398
16...	1415	3360	18.5	21.0	495	8.6	30	8.2	87	320
30...	1430	2070	22.0	20.0	825	8.6	20	7.1	81	468
JUNE										
13...	0930	388	23.0	23.5	750	8.2	20	7.9	91	520
JULY										
05...	1920	--	21.5	--	792	7.9	--	--	--	--
18...	1130	3370	28.0	31.0	360	7.7	--	6.3	--	--
18...	1200	3370	28.0	31.0	--	--	35	6.3	80	244
AUG.										
22...	--	412	26.5	28.5	525	8.1	--	7.6	94	--
23...	1030	--	25.0	--	637	8.1	--	--	--	390
SEP.										
19...	1430	4130	22.0	21.0	414	7.7	50	6.5	74	288

04183500 Maumee River at Antwerp, Ohio—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT.							
05...	1300	4	260	2	4	13	2
JAN.							
03...	1430	14	240	6	0	16	7
APR.							
03...	1400	5	140	3	30	16	4
JUNE							
21...	1130	6	200	2	0	12	4
SEP.							
19...	1430	11	100	1	--	13	0

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	PHENOLS (UG/L)
OCT.										
05...	572	.53	468	76	.00	--	2.8	.40	11000	0
18...	193	.64	496	22	.08	--	4.4	1.3	--	--
NOV.										
01...	341	.64	538	68	.08	--	5.6	.92	4300	0
16...	--	.73	612	78	.21	--	2.9	1.8	--	--
29...	--	.73	566	30	1.1	--	2.1	1.7	800	4
DEC.										
01...	--	--	--	--	--	--	--	--	--	--
14...	2340	.57	502	84	.27	--	8.0	.41	--	--
JAN.										
03...	2820	.51	596	222	.11	--	7.8	.46	11000	5
18...	--	.67	546	50	.38	--	6.0	.47	--	--
20...	--	--	--	--	--	--	4.4	--	--	--
31...	2920	.65	532	54	1.0	--	6.0	.47	760	0
FEB.										
15...	1130	.86	690	54	2.2	--	3.2	1.0	--	--
MAR.										
06...	2240	.48	514	162	.98	--	7.0	.49	7130	2
22...	--	--	--	--	--	--	7.0	--	--	--
22...	3740	.50	478	114	.65	--	6.0	.40	--	--
APR.										
03...	2140	.60	490	50	.76	--	7.1	.37	5800	2
18...	7010	.34	882	632	.22	--	5.7	.71	--	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	.54	502	104	.38	--	4.0	.53	59000	1
16...	2900	.44	628	308	.27	--	3.9	.22	--	--
30...	2620	.64	550	82	.43	--	2.6	.52	1000	0
JUNE										
13...	545	.71	604	84	.00	--	4.5	.48	--	--
JULY										
05...	--	--	--	--	--	--	3.2	--	--	--
19...	--	--	--	--	--	--	--	--	61300	--
18...	2220	.33	1020	776	.43	.000	6.7	.59	--	4
AUG.										
22...	--	--	--	--	--	--	--	--	95000	--
23...	319	.53	--	--	--	--	1.5	.42	--	--
SEP.										
19...	3210	.39	494	206	.71	.100	3.7	.61	160000	8

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.						
05...	16	0	60	--	.01	.7
JAN.						
03...	12	1	90	2	.01	.3
APR.						
03...	9	1	100	3	.01	.4
JUNE						
21...	12	0	110	7	.00	.5
SEP.						
19...	12	1	60	3	.01	.3

05515000 Kankakee River near North Liberty, Ind.

LOCATION.—Lat 41°33'50", long 86°29'50", in NW 1/4 NE 1/4 sec.23, T.36 N., R.1 W., St. Joseph County, on left bank at downstream side of bridge on county highway named "New Road", 2.7 miles upstream from Little Kankakee River, and 4 miles northwest of North Liberty.

DRAINAGE AREA.—174 sq mi, of which 58.2 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—January 1951 to current year.

GAGE.—Water-stage recorder. Datum of gage is 680.04 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to June 26, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—21 years, 144 cfs (11.24 inches per year).

EXTREMES.—Current year: Maximum discharge, 446 cfs Mar. 14 (gage height, 6.80 ft); minimum daily, 78 cfs July 12.
Period of record: Maximum discharge, 686 cfs Oct. 10, 1954; maximum gage height, 9.04 ft June 27, 1968; minimum daily discharge, 46 cfs Sept. 9, 10, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	98	112	270	132	184	200	185	127	89	99	87
2	89	101	110	241	130	201	210	181	124	94	102	89
3	89	99	109	220	125	181	210	172	122	89	99	89
4	91	98	107	204	123	171	210	165	122	87	99	87
5	89	97	104	190	122	159	203	159	118	85	96	85
6	89	96	114	178	125	150	193	157	116	84	98	84
7	90	95	143	170	122	148	202	178	114	84	100	83
8	92	95	141	160	121	142	197	238	111	84	100	86
9	100	97	135	163	120	136	193	352	108	94	99	84
10	108	96	181	171	120	133	189	313	108	87	92	82
11	120	96	310	165	120	133	182	260	111	80	96	84
12	113	95	255	159	121	133	178	229	105	78	103	124
13	106	94	217	158	122	305	180	219	117	79	101	128
14	104	94	195	150	121	418	172	222	114	88	100	350
15	101	93	237	130	129	342	172	261	125	140	108	362
16	97	92	307	150	126	326	181	246	112	151	103	267
17	94	92	258	154	127	301	226	218	108	128	98	214
18	94	92	218	154	140	269	211	203	114	140	93	267
19	95	96	198	149	137	242	212	191	108	153	93	322
20	95	96	188	165	132	226	244	181	104	140	94	259
21	96	94	179	182	136	214	240	174	105	124	92	215
22	102	94	168	187	141	212	251	165	100	179	89	190
23	106	92	163	216	141	204	244	160	106	160	101	181
24	108	93	160	199	138	193	222	154	101	143	113	186
25	107	92	156	183	132	188	206	144	106	132	108	187
26	107	93	158	166	130	181	193	140	96	128	108	257
27	106	98	157	157	128	181	183	134	94	125	105	239
28	104	102	154	153	133	185	177	132	93	121	102	197
29	101	108	148	150	156	187	174	132	94	116	97	314
30	101	111	264	141	------	185	176	132	92	112	92	352
31	99	------	330	138	------	196	------	129	------	106	89	------
TOTAL	3,080	2,889	5,676	5,373	3,750	6,426	6,031	5,926	3,275	3,500	3,069	5,551
MEAN	99.5	96.3	183	173	129	207	201	191	109	113	99.0	185
MAX	120	111	330	270	156	418	251	352	127	179	113	362
MIN	89	92	104	130	120	133	172	129	92	78	89	82
CFSM	.57	.55	1.05	.99	.74	1.19	1.16	1.10	.63	.65	.57	1.06
IN.	.66	.62	1.21	1.15	.80	1.37	1.29	1.27	.70	.75	.66	1.19

CAL YR 1971 TOTAL 44,565 MEAN 122 MAX 336 MIN 49 CFSM .70 IN 9.53
WTR YR 1972 TOTAL 54,552 MEAN 149 MAX 418 MIN 78 CFSM .86 IN 11.66

05515400 Kingsbury Creek near LaPorte, Ind.

LOCATION.—Lat 41°32'49", long 86°43'48", in SW 1/4 SE 1/4 sec.23, T.36 N., R.3 W., LaPorte County, on left bank at upstream side of bridge on 400 South Road, 0.5 mile west of State Road 39, 1.5 miles east of U.S. Highway 35, and 3 miles south of LaPorte city limits.

DRAINAGE AREA.—7.08 sq mi, of which 4.07 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Datum of gage is 753.00 ft above mean sea level.

EXTREMES.—Current year: Maximum discharge, 33 cfs Sept. 14, 18 (gage height, 5.04 ft); minimum daily, 0.83 cfs Dec. 3.
Period of record: Maximum discharge, 33 cfs Sept. 14, 18, 1972; minimum daily, 0.83 cfs Dec. 3, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.6	.89	4.1	3.3	4.1	5.3	4.3	3.4	2.6	2.1	2.3
2	2.3	1.7	.89	4.0	3.2	3.6	5.0	4.1	3.3	2.6	2.1	2.3
3	2.4	1.5	.83	3.8	3.1	3.6	5.0	4.0	3.1	2.5	2.1	2.3
4	2.5	1.5	.89	3.6	3.0	3.2	4.9	3.8	3.1	2.5	2.1	2.3
5	2.4	1.5	.89	3.5	2.9	3.0	4.9	3.6	3.0	2.5	2.0	2.2
6	2.4	1.5	1.3	3.4	2.9	3.1	5.3	3.8	3.1	2.5	2.2	2.2
7	2.5	1.4	1.2	3.4	2.9	2.9	6.0	5.5	3.0	2.4	2.3	2.3
8	3.0	1.4	1.0	3.5	2.9	2.7	5.1	7.3	3.0	2.5	2.3	2.3
9	3.2	1.6	1.0	3.9	2.9	2.7	5.1	7.3	3.0	2.9	2.1	2.2
10	3.5	1.6	9.9	3.9	2.9	2.7	5.0	5.0	2.9	2.6	2.0	2.2
11	3.0	1.4	5.2	3.7	3.0	2.9	4.9	4.5	2.9	2.5	2.1	2.3
12	2.6	1.4	3.4	3.6	3.1	5.9	5.0	4.3	3.0	2.5	2.2	2.3
13	2.6	1.4	2.8	3.6	3.2	9.7	5.0	4.6	3.3	2.5	2.1	3.1
14	2.4	1.4	2.6	3.4	3.5	5.8	4.9	5.8	3.0	2.5	18	26
15	2.2	1.3	5.6	2.9	3.4	5.5	5.0	5.9	3.1	4.6	8.9	10
16	2.0	1.1	3.8	2.7	3.5	5.3	5.6	4.9	2.9	2.9	4.7	6.0
17	2.0	1.1	3.0	2.7	3.7	4.9	5.0	4.4	2.8	2.7	3.7	4.9
18	2.0	1.2	2.5	3.1	3.2	4.6	4.8	4.0	2.7	4.7	3.1	17
19	1.9	1.4	2.5	3.6	3.1	4.6	3.8	3.9	2.7	2.7	3.1	7.9
20	1.8	1.2	2.5	3.7	3.4	4.5	5.1	3.8	2.7	2.4	2.9	5.9
21	1.8	1.0	2.4	4.0	3.4	4.8	5.0	3.6	2.7	2.3	2.7	5.0
22	2.1	1.0	2.2	3.7	3.2	4.6	5.6	3.5	2.6	2.3	2.7	4.7
23	2.1	1.0	2.3	4.9	3.2	4.5	4.8	3.4	2.6	2.2	3.3	4.9
24	2.1	1.0	2.3	4.5	3.1	4.4	4.5	3.5	2.6	2.2	3.0	4.8
25	1.9	.96	2.3	4.1	3.1	4.4	4.4	3.4	2.6	2.1	2.8	9.2
26	1.8	.96	2.6	4.0	3.1	4.4	4.3	3.4	2.6	2.2	2.8	9.2
27	1.9	1.1	2.5	3.8	3.4	4.8	4.3	3.4	2.5	2.3	2.7	6.0
28	1.7	1.0	2.3	3.7	3.9	4.6	4.1	3.4	2.5	2.1	2.5	5.7
29	1.6	1.1	2.2	3.6	4.1	4.8	4.1	3.5	2.7	2.1	2.4	14
30	1.7	.96	10	3.5	------	4.9	4.1	3.4	2.7	2.0	2.3	6.9
31	1.7	------	5.0	3.4	------	5.1	------	3.4	------	2.0	2.3	------
TOTAL	69.5	38.28	88.79	113.3	93.6	136.6	145.9	132.7	86.1	79.4	101.6	178.4
MEAN	2.24	1.28	2.86	3.65	3.23	4.41	4.86	4.28	2.87	2.56	3.28	5.95
MAX	3.5	1.7	10	4.9	4.1	9.7	6.0	7.3	3.4	4.7	18	26
MIN	1.6	.96	.83	2.7	2.9	2.7	3.8	3.4	2.5	2.0	2.0	2.2
CFSM	.32	.18	.40	.52	.46	.62	.69	.60	.41	.36	.46	.84
IN.	.37	.20	.47	.60	.49	.72	.77	.70	.45	.42	.53	.94

CAL YR 1971 TOTAL 1,093.07 MEAN 2.99 MAX 19 MIN .83 CFSM .42 IN 5.74
WTR YR 1972 TOTAL 1,264.17 MEAN 3.45 MAX 26 MIN .83 CFSM .49 IN 6.64

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1430	4.66	24	09-18	0800	5.04	33
12-30	0715	4.50	20	09-25	1900	4.49	20
08-14	0900	5.02	32	09-29	0300	4.69	24
09-14	0200	5.04	33				

05515500 Kankakee River at Davis, Ind.

LOCATION.—Lat 41°24'00", long 86°42'04", in SE 1/4 NE 1/4 sec.13, T.34 N., R.3 W., Starke County, on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mile downstream from Mill Creek, and 4 miles east of Hanna.

DRAINAGE AREA.—537 sq mi, of which 137 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—July 1905 to July 1906 and October 1924 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.—Water-stage recorder. Datum of gage is 664.68 ft above mean sea level. July 13, 1905, to July 21, 1906, nonrecording gage at site 50 ft downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mile downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.—48 years (1924-72), 483 cfs (12.21 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,330 cfs Sept. 30 (gage height, 11.67 ft); minimum daily, 266 cfs Oct. 6-7.
Period of record: Maximum discharge, 1,700 cfs Dec. 15, 1927 (gage height, 9.50 ft, site and datum then in use), from rating curve extended above 520 cfs; maximum gage height at present site and datum, 11.76 ft Oct. 16-18, 1954; minimum daily discharge, 154 cfs Aug. 30 to Sept. 3, 1941.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1338: 1953. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	274	300	992	471	537	643	684	475	357	375	358
2	273	281	301	890	450	603	673	696	469	343	372	361
3	268	282	301	791	448	594	697	669	459	343	372	370
4	273	274	297	724	424	555	709	639	451	331	364	363
5	268	274	294	673	411	522	709	615	439	325	352	348
6	268	275	305	619	469	498	682	601	441	321	351	343
7	266	273	342	603	438	492	729	625	432	316	376	339
8	271	269	351	577	414	475	787	780	421	316	388	369
9	283	277	343	570	412	453	753	1,150	418	333	376	364
10	300	282	417	586	403	441	726	1,250	412	334	355	345
11	321	279	699	576	402	435	696	1,160	405	316	349	342
12	317	279	686	561	406	435	675	1,040	402	306	372	359
13	304	275	598	556	414	601	747	948	418	299	369	414
14	300	271	544	534	411	1,020	789	919	420	303	435	761
15	294	270	583	477	435	1,050	763	992	424	438	818	1,130
16	287	268	794	582	436	989	802	1,020	414	642	769	1,050
17	277	269	756	615	430	952	952	945	393	547	636	890
18	274	268	633	574	444	882	941	857	388	675	549	908
19	274	281	574	579	445	794	875	780	384	1,010	499	1,130
20	281	283	541	555	429	733	967	727	376	1,030	498	1,090
21	277	279	517	580	433	703	1,040	684	372	901	459	954
22	284	274	489	592	439	688	1,040	648	366	729	430	816
23	294	270	468	655	442	669	1,040	594	358	639	438	742
24	292	270	457	652	439	645	965	580	361	564	451	783
25	292	270	453	600	429	624	877	552	360	519	444	809
26	291	273	453	582	423	610	799	531	357	483	441	1,080
27	292	282	452	534	414	604	738	513	349	462	435	1,130
28	286	290	446	510	421	606	700	498	343	445	417	1,090
29	281	299	434	484	480	607	673	490	361	426	399	1,160
30	281	307	615	499	------	606	661	489	376	403	394	1,330
31	279	------	1,030	493	------	622	------	483	------	387	369	------
TOTAL	8,832	8,318	15,473	18,815	12,512	20,045	23,846	23,159	12,044	14,843	13,642	21,551
MEAN	285	277	499	607	431	647	795	747	401	479	440	718
MAX	321	307	1,030	992	480	1,050	1,040	1,250	475	1,030	818	1,330
MIN	266	268	294	477	402	435	643	483	343	299	349	339
CFSM	.53	.52	.93	1.13	.80	1.20	1.48	1.39	.75	.89	.82	1.34
IN.	.61	.58	1.07	1.30	.87	1.39	1.65	1.60	.93	1.03	.95	1.49

CAL YR 1971 TOTAL 145,049 MEAN 397 MAX 1,050 MIN 208 CFSM .74 IN 10.05
WTR YR 1972 TOTAL 193,080 MEAN 528 MAX 1,330 MIN 266 CFSM .98 IN 13.38

05516000 Yellow River near Bremen, Ind.

LOCATION.--Lat 41°25'11", long 86°10'14", in NW 1/4 NW 1/4 sec.10, T.34 N., R.3 E., Marshall County, on left bank at downstream side of bridge on East 4th Road, 0.5 mile downstream from Bunch ditch, 2 miles southwest of Bremen, and 4 miles upstream from Dausman ditch.

DRAINAGE AREA.--135 sq mi.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 784.63 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--17 years, 99.7 cfs (10.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,050 cfs Aug. 16 (gage height, 12.46 ft); minimum daily, 6.2 cfs Oct. 1, 2.
Period of record: Maximum discharge, 1,650 cfs Dec. 26, 1965 (gage height, 13.99 ft); minimum daily, 6.2 cfs Oct. 17, 1964, and Oct. 1, 2, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.1	14	543	51	227	176	161	41	125	44	52
2	6.2	9.0	13	320	49	333	250	146	39	71	42	57
3	7.1	8.4	12	225	42	165	201	118	37	53	39	62
4	7.3	8.4	11	177	57	115	237	98	35	43	37	54
5	7.3	8.3	11	134	45	84	194	84	33	36	33	46
6	7.3	8.3	16	113	44	81	153	74	33	32	33	41
7	7.7	8.2	31	93	44	70	345	77	32	29	41	38
8	8.1	8.3	25	78	47	55	259	243	31	28	39	81
9	9.3	9.0	20	84	41	45	223	767	31	27	35	72
10	8.8	9.8	88	103	40	46	188	589	29	26	31	52
11	7.7	9.4	201	98	41	44	153	327	28	24	28	48
12	7.5	8.8	94	90	33	46	151	210	28	22	37	203
13	7.5	8.6	55	84	33	496	610	180	30	22	38	157
14	7.3	8.4	42	70	37	843	418	399	29	26	83	620
15	7.3	8.2	162	55	69	616	434	800	31	428	952	864
16	7.5	8.1	244	56	56	567	527	577	28	748	1,040	661
17	7.5	8.0	122	65	50	446	831	350	26	478	925	334
18	7.5	9.0	77	77	75	300	560	223	25	509	612	312
19	7.5	11	58	90	51	217	359	160	25	841	380	448
20	7.5	10	50	99	55	191	500	128	26	785	321	284
21	7.7	11	43	146	44	170	406	108	28	577	241	195
22	15	10	39	214	51	278	496	91	25	356	183	142
23	12	9.5	37	399	44	234	384	80	24	239	150	124
24	9.6	9.5	36	205	44	167	258	68	24	175	226	144
25	10	9.0	33	151	37	150	197	62	23	139	198	283
26	10	9.0	36	125	35	132	157	56	24	110	139	811
27	9.5	12	40	86	33	132	135	52	22	93	111	722
28	9.2	12	43	75	59	191	118	48	22	78	92	414
29	8.6	16	39	70	191	188	104	47	156	66	76	719
30	8.4	15	473	63	------	249	104	46	301	56	65	899
31	8.1	------	798	56	------	202	------	44	------	49	57	------
TOTAL	258.2	288.3	2,963	4,244	1,498	7,080	9,128	6,413	1,266	6,291	6,328	8,939
MEAN	8.33	9.61	95.6	137	51.7	228	304	207	42.2	203	204	298
MAX	15	16	798	543	191	843	831	800	301	841	1,040	899
MIN	6.2	8.0	11	55	33	44	104	44	22	22	28	38
CFSM	.06	.07	.71	1.01	.38	1.69	2.25	1.53	.31	1.50	1.51	2.21
IN.	.07	.08	.82	1.17	.41	1.95	2.52	1.77	.35	1.73	1.74	2.46

CAL YR 1971 TOTAL 23,174.6 MEAN 63.5 MAX 898 MIN 6.2 CFSM .47 IN 6.39
WTR YR 1972 TOTAL 54,696.5 MEAN 149 MAX 1,040 MIN 6.2 CFSM 1.10 IN 15.07

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	0700	10.69	826	07-19	1500	10.79	855
03-14	0830	10.87	864	08-16	1100	12.46	1,050
04-17	0715	10.84	860	09-15	0700	11.02	880
05-09	1500	10.44	816	09-26	1800	10.84	846
05-15	1100	10.54	827	09-30	0500	11.44	925

05516500 Yellow River at Plymouth, Ind.

LOCATION.—Lat 41°20'25", long 86°18'16", in SE 1/4 NW 1/4 sec.13, T.33 N., R.2 E., Marshall County, on left bank 50 ft upstream from LaPorte Street footbridge in Plymouth, 1.1 miles downstream from Elmer Seltenright (formerly Baker) ditch, and 8.1 miles upstream from Wolf Creek.

DRAINAGE AREA.—294 sq mi.

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 764.78 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 243 cfs (11.22 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,620 cfs Apr. 17 (gage height, 11.30 ft); minimum daily, 24 cfs Oct. 2, 3.
Period of record: Maximum discharge, 5,390 cfs Oct. 12, 13, 1954 (gage height, 17.13 ft); minimum daily, 13 cfs Dec. 3, 7, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1338: 1950-51. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	28	43	1,200	113	300	354	330	109	252	113	134
2	24	29	41	1,100	109	472	415	357	105	154	101	130
3	24	29	40	570	105	352	431	284	98	122	98	129
4	25	29	40	370	83	224	409	245	92	104	91	126
5	26	28	40	261	98	162	418	210	87	90	87	109
6	26	29	43	220	84	132	336	196	84	83	91	108
7	26	28	52	204	88	148	480	190	83	74	242	132
8	28	28	65	162	84	118	648	412	80	73	189	129
9	30	28	60	155	77	88	502	972	78	70	154	133
10	32	29	100	175	76	85	435	1,310	77	69	130	104
11	31	31	302	178	74	90	362	1,290	70	65	119	98
12	28	32	238	167	77	92	317	910	69	62	133	206
13	26	32	148	157	84	407	742	516	78	62	134	255
14	26	31	133	123	84	895	943	628	77	91	127	616
15	27	30	202	100	115	1,090	878	1,040	74	472	664	998
16	27	30	495	96	122	1,050	888	1,380	74	881	1,050	1,180
17	26	29	482	99	108	972	1,220	1,350	66	972	1,260	1,040
18	26	31	365	102	119	798	1,310	984	64	900	1,280	716
19	25	33	292	123	118	708	1,230	552	63	1,040	974	806
20	25	33	242	155	88	378	986	388	64	1,160	582	760
21	26	33	201	226	87	344	936	293	71	1,150	370	490
22	39	33	154	309	84	418	878	261	70	902	293	341
23	42	32	120	628	77	512	854	220	65	486	253	309
24	40	33	101	502	80	362	682	195	63	322	386	362
25	31	33	92	298	70	298	504	174	63	269	435	524
26	34	33	91	295	64	268	378	154	62	226	279	1,020
27	34	34	93	231	62	252	314	143	60	203	215	1,280
28	32	36	99	195	83	332	277	132	58	181	182	1,320
29	30	39	99	186	265	336	252	133	114	160	172	1,240
30	29	43	480	165	------	444	245	122	359	144	155	1,300
31	28	------	1,020	133	------	424	------	116	------	129	134	------
TOTAL	898	946	5,973	8,885	2,778	12,551	18,624	15,487	2,577	10,968	10,493	16,095
MEAN	29.0	31.5	193	287	95.8	405	621	500	85.9	354	338	537
MAX	42	43	1,020	1,200	265	1,090	1,310	1,380	359	1,160	1,280	1,320
MIN	24	28	40	96	62	85	245	116	58	62	87	98
CFSM	.10	.11	.66	.98	.33	1.38	2.11	1.70	.29	1.20	1.15	1.83
IN.	.11	.12	.76	1.12	.35	1.59	2.36	1.96	.33	1.39	1.33	2.04

CAL YR 1971 TOTAL 54,812 MEAN 150 MAX 1,500 MIN 24 CFSM .51 IN 6.94
WTR YR 1972 TOTAL 106,275 MEAN 290 MAX 1,380 MIN 24 CFSM .99 IN 13.45

05517000 Yellow River at Knox, Ind.

LOCATION.—Lat 41°18'10", long 86°37'14", in SW 1/4 SW 1/4 sec.14, T.33 N., R.2 W., Starke County, on right bank 40 ft upstream from bridge on U.S. Highway 35 in Knox, 1.5 miles downstream from Eagle Creek, and 9 miles upstream from mouth.

DRAINAGE AREA.—435 sq mi.

PERIOD OF RECORD.—August 1905 to July 1906, August 1943 to current year.

GAGE.—Water-stage recorder. Datum of gage is 679.93 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, non-recording gage at same site and datum.

AVERAGE DISCHARGE.—29 years (1943-72), 374 cfs (11.68 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,830 cfs Sept. 30 (gage height, 7.96 ft); minimum daily, 84 cfs Oct. 5-6.
Period of record: Maximum discharge, 5,660 cfs Oct. 15, 16, 1954 (gage height, 13.75 ft); minimum daily, 50 cfs Jan. 21-31, 1963.

REMARKS.—Records excellent.

REVISIONS (WATER YEARS).—WSP 1278: 1952. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	96	113	724	256	357	575	510	279	418	218	238
2	90	100	112	814	244	441	534	574	270	331	211	226
3	90	100	108	980	235	540	582	564	262	257	207	234
4	88	96	107	716	208	462	591	497	255	226	202	231
5	84	96	105	525	198	363	573	442	246	211	195	220
6	84	95	110	480	220	312	566	411	246	197	192	209
7	90	93	123	392	205	265	577	395	239	183	248	204
8	96	93	133	356	200	266	720	480	234	178	363	216
9	96	95	143	320	200	240	830	890	230	174	310	224
10	100	103	158	312	188	218	716	1,220	226	171	254	236
11	100	105	243	320	188	214	632	1,470	220	166	226	215
12	95	101	332	316	190	217	562	1,560	219	162	238	223
13	95	100	307	308	200	269	620	1,260	227	157	241	342
14	93	98	250	308	203	568	848	897	229	157	252	543
15	91	96	263	241	205	860	1,010	1,050	222	200	282	828
16	90	95	347	220	220	1,070	1,080	1,290	216	483	645	1,020
17	90	95	423	225	223	1,150	1,240	1,580	210	736	921	1,200
18	88	95	351	240	218	1,080	1,340	1,690	202	917	1,130	1,310
19	88	96	269	259	223	963	1,540	1,370	198	1,010	1,260	1,130
20	86	100	238	274	218	691	1,730	884	200	1,030	1,170	991
21	86	98	223	300	200	558	1,540	631	196	1,120	756	964
22	101	98	210	376	210	531	1,390	535	196	1,170	507	725
23	115	96	200	475	208	594	1,330	468	193	1,050	425	572
24	110	96	190	638	205	630	1,220	423	189	656	401	566
25	107	96	185	620	203	518	1,060	392	188	461	517	680
26	103	96	185	460	198	453	782	361	186	387	542	1,000
27	103	100	185	412	193	428	639	335	183	342	410	1,240
28	98	103	188	365	195	418	562	314	180	307	343	1,450
29	96	108	188	315	226	464	509	304	187	277	300	1,740
30	96	113	265	280	------	510	486	301	238	253	270	1,770
31	96	------	540	259	------	581	------	294	------	233	248	------
TOTAL	2,938	2,952	6,794	12,830	6,080	16,231	26,384	23,392	6,566	13,620	13,484	20,747
MEAN	94.8	98.4	219	414	210	524	879	755	219	439	435	692
MAX	115	113	540	980	256	1,150	1,730	1,690	279	1,170	1,260	1,770
MIN	84	93	105	220	188	214	486	294	180	157	192	204
CFSM	.22	.23	.50	.95	.48	1.20	2.02	1.74	.50	1.01	1.00	1.59
IN.	.25	.25	.58	1.10	.52	1.39	2.26	2.00	.56	1.16	1.15	1.77

CAL YR 1971 TOTAL 83,151 MEAN 228 MAX 2,100 MIN 83 CFSM .52 IN 7.11
WTR YR 1972 TOTAL 152,018 MEAN 415 MAX 1,770 MIN 84 CFSM .95 IN 13.00

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-20	0100	7.88	1,760	05-18	0800	7.86	1,730
05-12	0800	7.71	1,610	09-30	0500	7.96	1,830

05517500 Kankakee River at Dunns Bridge, Ind.

LOCATION.—Lat 41°13'17", long 86°57'52", in NE 1/4 SE 1/4 sec.15, T.32 N., R.5 W., Jasper County, on left bank at downstream side of county highway bridge at Dunns Bridge, 1.8 miles north of Tefft, and 3.5 miles upstream from Davis ditch.

DRAINAGE AREA.—1,352 sq mi, of which 192 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 649.65 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 17, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 1,248 cfs (12.53 inches per year).

EXTREMES.—Current year: Maximum discharge, 3,160 cfs Sept. 30, stage rising, peak occurred Oct. 4, 1972; maximum peak discharge, 3,140 cfs Apr. 24 (gage height, 10.24 ft); minimum daily, 473 cfs Oct. 31, Nov. 1.
Period of record: Maximum discharge, 5,300 cfs Oct. 22, 1954 (gage height, 13.20 ft); minimum daily, 280 cfs Jan. 25-29, 1963.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1728: 1954(m). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	624	473	608	2,140	1,180	1,110	1,760	2,090	1,250	882	941	966
2	597	481	610	2,240	1,170	1,320	1,780	2,030	1,210	943	918	947
3	583	492	635	2,290	1,120	1,430	1,810	1,980	1,190	872	902	945
4	570	492	624	2,300	1,070	1,450	1,870	1,910	1,150	812	883	934
5	562	483	600	2,170	1,030	1,300	1,890	1,820	1,110	776	853	903
6	537	489	602	1,940	1,000	1,170	1,890	1,740	1,090	746	834	869
7	527	483	637	1,790	960	1,130	1,980	1,710	1,070	724	1,040	845
8	537	483	667	1,690	940	1,100	2,120	1,860	1,040	706	1,190	895
9	581	492	678	1,640	920	1,040	2,220	2,320	1,020	696	1,170	919
10	600	505	800	1,600	920	994	2,260	2,650	991	692	1,050	887
11	618	513	1,000	1,590	920	969	2,200	2,800	960	646	961	861
12	618	519	1,300	1,540	930	969	2,100	2,900	949	611	1,000	877
13	594	519	1,350	1,490	950	1,150	2,080	2,970	1,050	594	1,080	964
14	564	510	1,330	1,400	972	1,700	2,160	3,010	1,080	589	1,090	1,400
15	554	510	1,400	1,200	988	2,080	2,270	3,010	1,050	662	1,720	1,980
16	497	505	1,640	720	988	2,270	2,390	3,000	1,020	973	2,100	2,270
17	478	494	1,740	900	1,000	2,400	2,580	2,990	964	1,270	2,230	2,390
18	486	497	1,690	1,100	1,020	2,460	2,690	2,980	929	1,700	2,270	2,450
19	486	516	1,570	1,200	991	2,440	2,630	2,980	909	2,240	2,280	2,630
20	486	529	1,460	1,300	960	2,320	2,730	2,930	893	2,450	2,260	2,710
21	486	548	1,390	1,400	958	2,140	2,910	2,800	876	2,530	2,150	2,690
22	478	554	1,290	1,490	960	1,990	3,040	2,570	850	2,520	1,860	2,580
23	489	543	1,210	1,600	958	1,890	3,120	2,290	829	2,430	1,600	2,410
24	510	543	1,160	1,710	960	1,850	3,120	2,050	813	2,240	1,490	2,340
25	516	535	1,130	1,750	941	1,800	3,070	1,830	810	1,910	1,450	2,360
26	513	527	1,120	1,690	930	1,690	2,970	1,650	804	1,600	1,470	2,590
27	505	540	1,120	1,600	905	1,630	2,810	1,640	792	1,420	1,400	2,790
28	510	554	1,100	1,540	902	1,590	2,590	1,560	775	1,280	1,260	2,870
29	505	573	1,070	1,450	983	1,590	2,370	1,450	785	1,170	1,150	2,950
30	486	602	1,360	1,380	------	1,620	2,200	1,380	816	1,090	1,080	3,090
31	473	------	1,920	1,200	------	1,670	------	1,310	------	1,010	1,010	------
TOTAL	16,570	15,504	34,811	49,050	28,526	50,262	71,610	70,210	29,075	38,784	42,692	54,302
MEAN	535	517	1,123	1,582	984	1,621	2,387	2,265	969	1,251	1,377	1,810
MAX	624	602	1,920	2,300	1,180	2,460	3,120	3,010	1,250	2,530	2,280	3,090
MIN	473	473	600	720	902	969	1,760	1,310	775	589	834	845
CFSM	.40	.39	.83	1.17	.73	1.20	1.77	1.68	.72	.93	1.02	1.34
IN.	.46	.43	.96	1.35	.78	1.38	1.97	1.93	.80	1.07	1.17	1.49

CAL YR 1971 TOTAL 332,145 MEAN 910 MAX 2,580 MIN 401 CFSM .67 IN 9.14
WTR YR 1972 TOTAL 501,386 MEAN 1,370 MAX 3,120 MIN 473 CFSM 1.01 IN 13.80

05517900 Cobb ditch near Kouts, Ind.
(Formerly published as State ditch near Kouts)

LOCATION.—Lat 41°19'08", long 87°04'55", in SW 1/4 SW 1/4 sec.11, T.33 N., R.6 W., Porter County, on left bank 15 ft upstream from bridge on State Highway 8, 700 ft upstream from mouth, and 3 miles west of Kouts.

DRAINAGE AREA.—31.7 sq mi.

PERIOD OF RECORD.—July 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 652.00 ft above mean sea level (State Highway Commission bench mark).

EXTREMES.—Current year: Maximum discharge, 466 cfs May 9 (gage height, 7.70 ft); minimum daily, 14 cfs Oct. 17-25, 31, Nov. 1, 3-6, Nov. 8 to Dec. 5, July 17, Aug. 5, 30, 31.
Period of record: Maximum discharge, 466 cfs May 9, 1972 (gage height, 7.70 ft); maximum gage height, 8.63 ft, probably occurred Feb. 5, 1971, from recorded range in stage (ice jam); minimum daily discharge, 11 cfs Oct. 23, 1968, Feb. 3, 1971.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	14	61	18	23	36	27	21	18	15	16
2	15	15	14	49	18	22	37	28	21	19	15	17
3	15	14	14	42	18	20	30	26	20	21	15	16
4	15	14	14	34	18	19	29	25	20	19	15	16
5	15	14	14	29	18	18	26	24	20	18	14	15
6	15	14	15	26	18	17	24	26	21	18	15	15
7	15	15	16	24	18	17	151	105	22	18	18	15
8	15	14	16	24	17	17	69	278	20	17	16	16
9	15	14	16	27	16	17	63	361	20	17	15	15
10	15	14	43	37	15	17	47	136	20	16	15	15
11	15	14	74	30	15	17	39	86	20	16	15	15
12	15	14	34	26	15	17	38	61	20	16	15	15
13	15	14	27	25	15	134	50	52	22	15	16	18
14	15	14	24	33	16	123	38	51	20	15	18	54
15	15	14	53	21	17	52	38	66	21	16	24	34
16	15	14	62	20	18	64	61	53	20	15	20	25
17	14	14	36	21	18	56	71	44	20	14	18	22
18	14	14	28	22	18	45	42	38	20	28	16	32
19	14	14	24	22	18	36	41	34	19	21	16	28
20	14	14	23	22	18	33	61	31	18	18	16	24
21	14	14	22	23	17	34	49	30	18	16	16	21
22	14	14	21	26	17	36	101	28	18	16	16	20
23	14	14	20	34	17	32	57	27	18	16	18	20
24	14	14	20	27	17	29	43	26	19	18	20	21
25	14	14	20	25	16	24	36	25	19	17	21	32
26	15	14	20	22	16	23	32	24	18	16	19	59
27	15	14	20	20	16	23	30	24	18	16	16	36
28	15	14	19	19	19	25	28	23	18	15	15	28
29	15	14	18	19	20	25	27	23	19	15	15	75
30	15	14	166	18	------	24	26	22	19	15	14	53
31	14	------	138	18	------	28	------	21	------	15	14	------
TOTAL	455	422	1,045	846	497	1,067	1,420	1,825	589	530	511	788
MEAN	14.7	14.1	33.7	27.3	17.1	34.4	47.3	58.9	19.6	17.1	16.5	26.3
MAX	15	15	166	61	20	134	151	361	22	28	24	75
MIN	14	14	14	18	15	17	24	21	18	14	14	15
CFSM	.46	.44	1.06	.86	.54	1.09	1.49	1.86	.62	.54	.52	.83
IN.	.53	.50	1.23	.99	.58	1.25	1.67	2.14	.69	.62	.60	.92

CAL YR 1971 TOTAL 9,192 MEAN 25.2 MAX 290 MIN 11 CFSM .80 IN 10.79
WTR YR 1972 TOTAL 9,995 MEAN 27.3 MAX 361 MIN 14 CFSM .86 IN 11.73

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1900	6.42	321	04-07	1200	5.67	242
03-13	2000	5.74	249	05-09	0600	7.70	466

05518000 Kankakee River at Shelby, Ind.

LOCATION.—Lat 41°10'58", long 87°20'33", in SW 1/4 NE 1/4 sec.33, T.32 N., R.8 W., Lake County, on right bank 25 ft upstream from Monon Railroad bridge, 1 mile south of Shelby, and 9 miles upstream from Beaver Lake Creek.

DRAINAGE AREA.—1,779 sq mi, of which 201 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.—October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.—Water-stage recorder. Datum of gage is 628.13 ft above mean sea level. Prior to Dec. 19, 1934, nonrecording gage at highway bridge about 400 ft upstream. Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft downstream, and Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft upstream. All at same datum.

AVERAGE DISCHARGE.—50 years, 1,535 cfs (11.72 inches per year).

EXTREMES.—Current year: Maximum discharge, 4,220 cfs Apr. 24 (gage height, 9.94 ft); minimum daily, 553 cfs Nov. 8.
Period of record: Maximum discharge, 7,200 cfs Dec. 21, 1927 (gage height, 11.40 ft, site then in use), from rating curve extended above 3,000 cfs by gage-height relation study with site below railroad bridge; minimum daily, 260 cfs Jan. 13-15, 1954.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1005: 1928(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	913	565	650	2,890	1,500	1,330	2,180	3,040	1,680	1,070	1,180	1,180
2	871	578	671	2,980	1,500	1,550	2,250	2,910	1,620	1,130	1,110	1,180
3	836	575	692	3,020	1,480	1,700	2,280	2,800	1,550	1,160	1,090	1,170
4	824	583	698	3,020	1,450	1,770	2,310	2,670	1,490	1,060	1,050	1,140
5	806	580	680	2,950	1,400	1,720	2,330	2,530	1,430	998	1,010	1,100
6	785	575	674	2,770	1,300	1,590	2,340	2,410	1,420	958	1,000	1,050
7	749	560	722	2,610	1,230	1,530	2,530	2,410	1,390	920	1,240	1,020
8	737	553	767	2,420	1,200	1,450	2,830	2,710	1,350	895	1,520	1,040
9	767	560	794	2,320	1,200	1,400	2,890	3,360	1,310	874	1,570	1,080
10	779	580	909	2,290	1,200	1,330	2,940	3,840	1,280	860	1,460	1,060
11	773	588	1,480	2,250	1,200	1,270	2,920	3,910	1,230	839	1,310	1,030
12	791	565	1,810	2,190	1,220	1,250	2,850	3,890	1,220	806	1,430	1,030
13	776	583	1,850	2,130	1,260	1,430	2,820	3,880	1,850	782	1,540	1,090
14	767	583	1,820	2,030	1,300	2,110	2,820	3,910	2,140	767	1,500	1,570
15	746	583	1,890	1,690	1,320	2,460	2,870	3,980	2,120	773	1,660	2,220
16	710	558	2,190	1,010	1,330	2,700	2,950	4,030	1,940	874	2,120	2,560
17	689	570	2,330	1,310	1,350	2,860	3,200	3,990	1,710	1,170	2,370	2,740
18	680	565	2,310	1,510	1,340	2,940	3,390	3,910	1,530	1,670	2,490	2,850
19	677	580	2,220	1,760	1,320	2,940	3,500	3,820	1,410	2,370	2,530	3,060
20	647	590	2,110	1,940	1,280	2,910	3,680	3,740	1,350	2,770	2,530	3,200
21	653	588	2,010	2,130	1,280	2,820	3,880	3,660	1,280	2,890	2,500	3,200
22	650	585	1,900	2,200	1,260	2,680	4,040	3,490	1,210	2,910	2,350	3,150
23	650	583	1,770	2,200	1,250	2,530	4,180	3,210	1,150	2,850	2,120	3,030
24	656	570	1,690	2,190	1,250	2,410	4,210	2,940	1,110	2,800	1,960	2,950
25	665	590	1,630	2,200	1,230	2,320	4,170	2,700	1,090	2,610	1,830	2,950
26	650	596	1,590	2,170	1,200	2,240	4,090	2,410	1,070	2,260	1,770	3,220
27	638	605	1,560	2,050	1,180	2,170	3,950	2,190	1,050	1,970	1,730	3,490
28	629	617	1,540	1,980	1,170	2,130	3,740	2,110	1,020	1,730	1,610	3,590
29	599	641	1,490	1,800	1,200	2,090	3,480	1,990	1,060	1,530	1,460	3,760
30	593	656	1,810	1,650	------	2,080	3,220	1,890	1,070	1,400	1,340	4,010
31	585	------	2,610	1,500	------	2,110	------	1,750	------	1,290	1,230	------
TOTAL	22,297	17,505	46,867	67,160	37,400	63,820	94,840	96,080	42,130	46,986	51,610	65,720
MEAN	719	584	1,512	2,166	1,290	2,059	3,161	3,099	1,404	1,516	1,665	2,191
MAX	913	656	2,610	3,020	1,500	2,940	4,210	4,030	2,140	2,910	2,530	4,010
MIN	585	553	650	1,010	1,170	1,250	2,180	1,750	1,020	767	1,000	1,020
CFSM	.40	.33	.85	1.22	.73	1.16	1.78	1.74	.79	.85	.94	1.23
IN.	.47	.37	.98	1.40	.78	1.33	1.98	2.01	.88	.98	1.08	1.37

CAL YR 1971 TOTAL 443,362 MEAN 1,215 MAX 3,480 MIN 490 CFSM .68 IN 9.27
WTR YR 1972 TOTAL 652,415 MEAN 1,783 MAX 4,210 MIN 553 CFSM 1.00 IN 13.64

05519000 Singleton ditch at Schneider, Ind.

LOCATION.—Lat 41°12'44", long 87°26'44", in SW 1/4 NW 1/4 sec.22, T.32 N., R.9 W., Lake County, on left bank 15 ft upstream from bridge on Ackerman Avenue, 0.5 mile upstream from Bruce ditch, 1.5 miles downstream from Cedar Creek, and 1.6 miles north of Schneider.

DRAINAGE AREA.—123 sq mi.

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 623.67 ft above mean sea level. Prior to Oct. 1, 1949, nonrecording gage at same site at datum 2.00 ft higher. Oct. 1, 1949, to Aug. 13, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 96.2 cfs (10.62 inches per year).

EXTREMES.—Current year: Maximum discharge, 969 cfs June 13 (gage height, 10.15 ft, from recorded range in stage); minimum daily, 24 cfs Nov. 7, 23, 25, 26.
Period of record: Maximum discharge, 1,160 cfs May 14, 1970 (gage height, 11.24 ft); minimum daily, 3.6 cfs Sept. 7, 8, 10, 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1915: 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	26	28	313	60	77	179	113	54	75	57	125
2	38	26	27	261	60	79	175	117	51	69	54	351
3	36	26	27	223	60	68	153	111	49	64	52	230
4	36	26	26	180	60	64	148	99	47	60	48	150
5	34	25	26	144	58	60	137	89	46	57	45	116
6	34	25	28	125	55	62	120	92	50	54	52	98
7	32	24	33	110	52	61	397	366	47	52	194	89
8	32	28	34	108	49	49	390	624	46	50	120	106
9	34	32	33	117	47	44	321	902	43	48	88	93
10	34	31	92	146	45	42	264	647	41	47	70	79
11	34	28	254	128	44	51	217	475	40	45	65	74
12	31	27	185	114	43	53	191	348	46	44	336	72
13	30	27	135	111	46	182	240	278	900	43	319	96
14	30	26	116	104	52	428	193	254	790	42	237	546
15	30	26	177	86	68	326	179	244	950	41	217	494
16	30	25	268	74	68	326	230	211	590	40	165	290
17	28	25	197	68	66	298	345	190	400	40	128	210
18	28	25	138	70	66	244	243	157	275	350	106	172
19	28	26	125	75	60	196	213	136	200	250	91	155
20	28	26	110	83	68	167	314	120	140	175	82	135
21	27	26	96	98	61	150	234	107	110	100	72	120
22	27	25	85	106	58	146	515	98	94	80	66	108
23	28	24	80	149	53	130	400	90	84	69	66	104
24	28	25	80	124	52	111	232	84	78	162	188	108
25	28	24	76	120	49	102	224	78	73	256	141	189
26	28	24	78	110	48	96	182	71	68	133	289	357
27	27	26	77	97	46	98	152	66	64	104	260	248
28	27	25	76	81	49	118	130	63	59	86	185	173
29	26	25	76	64	58	119	117	59	67	72	137	386
30	26	28	390	60	------	115	110	57	80	67	108	374
31	26	------	472	60	------	143	------	55	------	64	92	------
TOTAL	945	783	3,645	3,709	1,601	4,198	7,045	6,391	5,482	2,839	4,130	5,846
MEAN	30.5	26.1	118	120	55.2	135	235	206	183	91.6	133	195
MAX	40	32	472	313	68	428	515	902	900	350	336	546
MIN	26	24	26	60	43	42	110	55	40	40	45	72
CFSM	.25	.21	.96	.98	.45	1.10	1.91	1.67	1.49	.74	1.08	1.59
IN.	.29	.24	1.10	1.12	.48	1.27	2.13	1.93	1.66	.86	1.25	1.77

CAL YR 1971 TOTAL 23,452 MEAN 64.3 MAX 560 MIN 14 CFSM .52 IN 7.09
WTR YR 1972 TOTAL 46,614 MEAN 127 MAX 902 MIN 24 CFSM 1.03 IN 14.10

PEAK DISCHARGE (BASE, 730 CFS).—May 9 (0900) 948 cfs (10.02 ft). June 13 (unknown) 969 cfs (10.15 ft).

05519500 West Creek near Schneider, Ind.

LOCATION.—Lat 41°12'52", long 87°29'36", in NW 1/4 NE 1/4 sec.19, T.32 N., R.9 W., Lake County, on left bank at downstream side of county highway bridge, 1.2 miles upstream from Singleton ditch, and 2.8 miles northwest of Schneider.

DRAINAGE AREA.—54.7 sq mi.

PERIOD OF RECORD.—July 1948 to December 1951, January 1954 to September 30, 1972 (discontinued).

GAGE.—Water-stage recorder. Datum of gage is 627.86 ft above mean sea level (levels by Soil Conservation Service). Prior to Mar. 17, 1950, nonrecording gage 75 ft below bridge at same datum. Mar. 17, 1950, to Dec. 31, 1951, Jan. 1, 1954, to June 10, 1956, nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.—21 years, 41.4 cfs (10.28 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,670 cfs June 13 (gage height, 7.79 ft); minimum daily, 6.8 cfs Oct. 6, 7.
Period of record: Maximum discharge, 1,840 cfs Oct. 10, 11, 1954 (gage height, 8.06 ft, from graph based on gage readings); minimum daily, 2.6 cfs Sept. 29, 1957.

REMARKS.—Records fair.

REVISIONS (WATER YEARS).—WSP 1388: 1952(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.3	8.0	114	15	38	103	38	21	18	18	38
2	7.0	7.8	7.5	83	14	39	91	36	20	18	18	38
3	7.3	7.5	7.5	65	15	30	71	33	19	18	17	34
4	7.0	7.3	7.3	51	15	28	64	31	19	17	17	29
5	7.0	7.3	7.5	36	15	22	54	28	18	16	16	26
6	6.8	7.5	8.5	30	14	23	48	31	20	16	26	24
7	6.8	7.3	8.3	30	14	19	303	177	19	15	69	25
8	7.0	7.5	8.3	27	13	16	183	450	19	15	27	32
9	7.8	7.8	8.3	29	12	14	150	531	19	15	22	26
10	7.5	7.8	42	39	11	14	110	230	19	14	19	23
11	7.3	8.3	87	38	10	14	82	133	19	14	18	22
12	7.3	8.3	54	33	10	14	68	90	26	13	144	22
13	7.5	8.0	35	31	11	177	70	75	1,440	13	121	30
14	7.5	9.0	26	26	12	301	53	72	583	12	99	135
15	7.5	7.5	56	28	22	224	51	97	679	12	85	70
16	7.5	7.3	87	20	25	248	88	72	208	12	61	49
17	7.5	7.0	59	19	25	194	100	59	114	12	50	39
18	7.5	7.3	46	18	29	141	71	50	74	272	42	40
19	7.3	7.3	41	19	25	105	58	44	55	78	37	34
20	7.3	7.3	28	22	29	86	79	39	43	54	33	30
21	7.3	7.0	23	26	19	77	69	35	35	35	31	28
22	7.3	7.3	20	32	18	78	270	32	31	28	29	27
23	7.5	7.3	18	44	16	66	139	30	27	24	32	28
24	7.5	7.5	17	36	16	54	92	28	25	90	53	30
25	7.5	8.0	16	35	14	47	69	26	24	51	44	74
26	7.3	7.8	17	29	14	41	56	24	22	30	192	69
27	7.3	7.8	17	25	14	42	47	23	20	27	108	43
28	7.3	7.5	16	21	20	58	41	22	20	23	76	36
29	7.3	8.0	16	17	30	54	38	22	20	21	53	171
30	7.3	8.0	187	15	------	50	36	22	19	20	42	90
31	7.3	------	198	15	------	66	------	21	------	19	35	------
TOTAL	226.6	227.6	1,177.2	1,053	497	2,380	2,754	2,601	3,676	1,021	1,627	1,361
MEAN	7.31	7.59	38.0	34.0	17.1	76.8	91.8	83.9	123	32.9	52.5	45.4
MAX	7.8	8.3	198	114	30	301	303	531	1,440	272	192	171
MIN	6.8	7.0	7.3	15	10	14	36	21	18	12	16	22
CFSM	.13	.14	.69	.62	.31	1.40	1.68	1.53	2.25	.60	.96	.83
IN	.15	.15	.80	.72	.34	1.62	1.87	1.77	2.50	.69	1.11	.93

CAL YR 1971 TOTAL 9,211.4 MEAN 25.2 MAX 500 MIN 6.8 CFSM .46 IN 6.26
WTR YR 1972 TOTAL 18,601.4 MEAN 50.8 MAX 1,440 MIN 6.8 CFSM .93 IN 12.65

05520000 Singleton ditch at Illinoi, Ill.

LOCATION.--Lat 41°11'20", long 87°31'35", in SW 1/4 NW 1/4 sec.8, T.31 N., R.15 E., Kankakee County, Illinois, 50 ft downstream from county highway bridge and Indiana-Illinois State line, at Illinoi, and beside the Cleveland, Cincinnati, Chicago and St. Louis Railway.

DRAINAGE AREA.--220 sq mi.

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.33 ft above mean sea level. Prior to Aug. 28, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 169 cfs (10.43 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,020 cfs June 13 (gage height, 10.40 ft); minimum daily, 39 cfs Nov. 7, 17, 18, 23-26, 28.
Period of record: Maximum discharge, 2,040 cfs Feb. 14, 23, 1959; maximum gage height, 10.40 ft June 13, 1972; minimum daily discharge, 6.0 cfs Sept. 8, 9, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1948(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	42	53	632	120	142	380	258	119	150	113	193
2	70	44	46	499	125	165	376	257	113	140	112	508
3	64	44	44	421	125	143	326	248	109	136	108	357
4	62	42	42	341	120	135	306	223	104	128	103	248
5	60	40	41	280	120	135	283	204	101	121	99	200
6	58	42	46	240	110	142	255	204	109	117	114	175
7	54	39	56	210	105	119	743	607	104	113	332	159
8	54	44	59	195	100	103	823	1,230	100	109	222	190
9	57	53	58	215	95	91	675	1,550	100	106	174	169
10	59	51	143	257	90	88	550	1,210	100	105	144	148
11	58	49	419	246	88	95	445	901	95	101	132	139
12	51	47	313	219	87	100	376	683	106	97	595	134
13	50	45	239	212	94	309	439	553	1,620	95	694	152
14	49	43	204	175	105	875	372	489	1,630	94	485	784
15	49	42	276	150	115	700	336	493	1,660	92	453	786
16	48	40	459	130	125	696	421	413	1,270	90	330	513
17	47	39	345	130	137	644	652	343	899	88	265	368
18	47	39	258	135	139	519	474	297	632	681	222	308
19	47	42	239	145	172	410	404	262	455	509	197	283
20	46	42	203	160	156	348	583	233	357	276	179	249
21	46	42	181	180	115	310	546	212	271	198	159	224
22	50	42	162	195	110	308	988	195	221	164	144	205
23	49	39	150	265	105	283	810	180	194	144	140	201
24	48	39	147	238	105	246	581	171	177	300	305	214
25	48	39	142	230	100	221	461	162	165	493	265	321
26	47	39	143	210	95	205	385	149	155	236	589	640
27	46	41	143	200	91	209	330	139	144	189	543	463
28	46	39	141	170	108	253	292	135	137	165	367	341
29	43	43	131	130	125	258	270	129	164	144	272	685
30	43	45	566	120	------	249	256	125	165	130	220	721
31	43	------	932	120	------	286	------	122	------	121	188	------
TOTAL	1,615	1,277	6,381	7,050	3,282	8,787	14,138	12,377	11,576	5,632	8,265	10,078
MEAN	52.1	42.6	206	227	113	283	471	399	386	182	267	336
MAX	76	53	932	632	172	875	988	1,550	1,660	681	694	786
MIN	43	39	41	120	87	88	255	122	95	88	99	134
CFSM	.24	.19	.94	1.03	.51	1.29	2.14	1.81	1.75	.83	1.21	1.53
IN.	.27	.22	1.08	1.19	.55	1.49	2.39	2.09	1.96	.95	1.40	1.70

CAL YR 1971 TOTAL 42,513 MEAN 117 MAX 1,100 MIN 25 CFSM .53 IN 7.21
WTR YR 1972 TOTAL 90,458 MEAN 247 MAX 1,660 MIN 39 CFSM 1.12 IN 15.30

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-22	1300	7.22	1,110	06-13	1100	10.40	2,020
05-09	0600	9.10	1,620				

05520500 Kankakee River at Momence, Ill.

LOCATION.--Lat 41°09'36", long 87°40'07", in NE 1/4 sec.24, T.31 N., R.13 E., Kankakee County, on right bank at Hill Street in Momence, 0.2 mile downstream from bridge on State Highways 1 and 17, and 1.2 miles upstream from Tower Creek.

DRAINAGE AREA.--2,340 sq mi, approximately.

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft above mean sea level. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mile upstream at datum 1.00 ft higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--57 years (1915-72), 1,869 cfs (10.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,490 cfs June 13 (gage height, 4.40 ft); maximum gage height, 7.73 ft Jan. 28 (ice jam); minimum discharge, 702 cfs Nov. 7-8.
Period of record: Maximum discharge, 10,100 cfs Apr. 25, 1950 (gage height, 5.06 ft); maximum gage height observed, 8.09 ft Jan. 25, 1930, site and datum then in use (ice jam); minimum discharge observed, 306 cfs Sept. 1, 16, 17, 1919.

REMARKS.--Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	726	804	3,710	2,050	1,700	3,060	3,950	2,010	1,340	1,580	1,730
2	1,200	734	804	3,890	2,000	1,860	3,080	3,790	1,910	1,340	1,470	2,010
3	1,130	734	822	3,980	2,000	1,960	3,060	3,610	1,800	1,400	1,380	1,960
4	1,100	726	840	3,930	1,950	2,060	3,060	3,450	1,690	1,350	1,330	1,790
5	1,060	734	840	3,790	1,900	2,060	3,040	3,310	1,620	1,270	1,270	1,650
6	1,030	726	850	3,600	1,800	2,000	3,020	3,200	1,640	1,200	1,430	1,540
7	984	710	880	3,400	1,650	1,940	3,950	3,610	1,570	1,150	1,970	1,460
8	951	702	930	3,200	1,650	1,830	4,220	4,480	1,530	1,120	1,990	1,530
9	951	718	973	3,100	1,600	1,720	4,220	5,420	1,500	1,090	2,050	1,550
10	973	734	1,380	3,000	1,600	1,640	4,150	5,320	1,460	1,070	2,010	1,520
11	962	750	2,150	2,900	1,600	1,590	4,020	5,320	1,400	1,040	1,890	1,480
12	962	750	2,240	2,850	1,650	1,580	3,890	5,200	1,380	1,000	2,840	1,430
13	973	742	2,350	2,800	1,650	2,180	3,850	5,030	5,110	974	3,000	1,470
14	962	750	2,400	2,500	1,650	3,180	3,730	4,970	5,020	941	2,760	2,350
15	951	750	2,630	1,600	1,700	3,370	3,630	5,010	4,840	927	2,630	2,880
16	920	734	2,990	1,500	1,700	3,730	3,730	4,860	4,370	936	2,500	2,930
17	890	726	2,990	1,700	1,700	3,910	4,130	4,720	3,780	1,070	2,570	3,030
18	870	734	2,970	2,100	1,750	3,910	4,060	4,640	3,220	2,820	2,700	3,140
19	860	734	2,970	2,400	1,750	3,830	4,170	4,500	2,710	2,740	2,740	3,280
20	840	734	2,880	2,700	1,730	3,770	4,640	4,370	2,320	2,670	2,840	3,360
21	813	750	2,730	2,900	1,610	3,690	4,810	4,240	2,010	2,810	2,850	3,470
22	813	734	2,570	3,000	1,550	3,630	5,590	4,110	1,790	2,950	2,810	3,530
23	813	742	2,450	3,100	1,500	3,470	5,590	3,950	1,630	3,020	2,800	3,600
24	813	718	2,320	3,000	1,490	3,270	5,270	3,770	1,530	3,350	3,000	3,630
25	822	718	2,220	2,900	1,460	3,110	5,030	3,530	1,460	3,730	2,790	3,770
26	813	742	2,150	2,900	1,430	2,970	4,860	3,240	1,400	3,250	3,550	4,220
27	804	759	2,100	2,800	1,410	2,930	4,680	2,970	1,350	3,000	3,230	4,080
28	786	768	2,030	2,600	1,430	2,930	4,500	2,680	1,300	2,630	2,750	4,050
29	759	786	1,980	2,400	1,520	2,900	4,330	2,470	1,350	2,280	2,420	4,750
30	750	804	2,900	2,250	------	2,820	4,130	2,300	1,380	1,970	2,140	5,020
31	742	------	3,630	2,100	------	2,880	------	2,170	------	1,750	1,890	------
TOTAL	34,587	22,169	82,613	88,600	45,480	84,420	123,500	124,190	66,080	58,188	73,230	82,210
MEAN	922	739	2,026	2,858	1,672	2,723	4,117	4,006	2,203	1,877	2,362	2,740
MAX	1,290	804	3,630	3,980	2,050	3,910	5,590	5,420	5,110	3,730	3,550	5,020
MIN	742	702	804	1,500	1,410	1,580	3,020	2,170	1,300	927	1,270	1,430
CFSM	.39	.32	.87	1.22	.71	1.16	1.76	1.71	.94	.80	1.01	1.17
IN.	.45	.35	1.00	1.41	.77	1.34	1.96	1.97	1.05	.93	1.16	1.31

CAL YR 1971 TOTAL 564,933 MEAN 1,548 MAX 5,000 MIN 610 CFSM .66 IN 8.98
WTR YR 1972 TOTAL 862,467 MEAN 2,356 MAX 5,590 MIN 702 CFSM 1.01 IN 13.71

05521000 Iroquois River at Rosebud, Ind.

LOCATION.--Lat 41°02'00", long 87°10'49", in NW 1/4 SW 1/4 sec.24, T.30 N., R.7 W., Jasper County, 100 ft downstream from bridge on county road, 0.5 mile north of Rosebud, 0.5 mile downstream from confluence of Swain and Dexter ditches, 1.5 miles upstream from Davidson ditch, and 2 miles east of Parr.

DRAINAGE AREA.--35.6 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 661.47 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

AVERAGE DISCHARGE.--24 years, 24.3 cfs (9.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 284 cfs Aug. 12 (gage height, 6.99 ft); minimum daily, 4.8 cfs July 17.
Period of record: Maximum discharge, 422 cfs Apr. 4, 1950; maximum gage height, 8.86 ft Feb. 10, 1959; minimum daily discharge, 0.5 cfs Oct. 11, 12, 19, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1959-60. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	11	10	117	20	40	48	44	21	21	7.0	15
2	30	11	7.2	96	20	30	56	45	20	16	7.2	16
3	28	11	7.0	82	18	28	55	43	19	13	7.0	18
4	28	11	6.9	60	17	25	53	39	17	12	7.7	17
5	28	10	6.9	41	16	22	48	36	16	10	12	15
6	26	10	11	38	16	20	44	34	18	9.1	19	14
7	24	9.1	19	37	13	19	155	35	19	8.5	114	13
8	22	8.6	16	39	11	21	146	51	17	7.7	76	34
9	21	9.3	15	41	11	17	93	106	16	7.4	48	28
10	20	9.3	54	44	11	17	71	105	17	6.9	32	19
11	18	9.1	117	44	12	16	74	76	19	6.4	25	17
12	16	9.1	85	42	14	17	62	66	17	5.6	240	20
13	15	8.6	56	41	16	73	65	61	33	5.2	245	29
14	15	9.3	48	35	18	96	53	63	56	5.0	158	62
15	14	8.6	110	25	21	74	49	69	44	5.0	104	61
16	13	8.3	153	24	19	80	58	60	36	5.2	76	40
17	14	7.5	104	25	18	71	64	43	29	4.8	59	32
18	13	7.2	67	27	17	57	53	38	25	51	45	27
19	13	7.5	55	31	16	48	60	34	21	104	37	25
20	13	7.5	49	35	15	43	105	30	19	65	34	24
21	13	7.0	48	41	16	42	108	29	17	38	29	22
22	13	6.2	44	46	17	41	128	28	15	26	26	23
23	13	5.8	41	62	16	37	107	26	14	20	25	34
24	13	5.9	41	59	15	29	78	25	13	17	35	46
25	13	5.9	40	50	15	28	63	24	13	15	28	68
26	13	5.8	41	35	17	27	54	27	12	13	25	109
27	13	6.6	41	25	19	32	49	25	11	13	22	79
28	12	6.2	40	21	21	38	46	24	10	12	21	62
29	11	7.0	36	19	35	37	44	23	15	11	19	91
30	11	7.8	116	18	------	37	44	23	26	9.1	15	112
31	11	------	172	19	------	48	------	23	------	7.5	16	------
TOTAL	538	247.2	1,657.0	1,319	490	1,210	2,133	1,355	625	550.4	1,613.9	1,172
MEAN	17.4	8.24	53.5	42.5	16.9	39.0	71.1	43.7	20.8	17.8	52.1	39.1
MAX	31	11	172	117	35	96	155	106	56	104	245	112
MIN	11	5.8	6.9	18	11	16	44	23	10	4.8	7.0	13
CFSM	.49	.23	1.50	1.19	.47	1.10	2.00	1.23	.58	.50	1.46	1.10
IN.	.56	.26	1.73	1.38	.51	1.26	2.23	1.42	.65	.58	1.69	1.22

CAL YR 1971 TOTAL 7,639.8 MEAN 20.9 MAX 230 MIN 3.7 CFSM .59 IN 7.98
WTR YR 1972 TOTAL 12,910.5 MEAN 35.3 MAX 245 MIN 4.8 CFSM .99 IN 13.49

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0200	5.38	168	04-07	1800	5.73	191
12-31	0015	5.77	194	08-12	1600	6.99	284

05522000 Iroquois River near North Marion, Ind.

LOCATION.—Lat 40°58'12", long 87°06'50", in NE 1/4 NW 1/4 sec.16, T.29 N., R.6 W., Jasper County, on downstream side of county highway bridge, 1.2 miles upstream from Ryan ditch, 2 miles east of North Marion, and 3.5 miles northeast of Rensselaer.

DRAINAGE AREA.—144 sq mi.

PERIOD OF RECORD.—December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.68 ft above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—23 years (1949 to current year), 117 cfs (11.03 inches per year).

EXTREMES.—Current year: Maximum discharge, 642 cfs Jan. 1 (gage height, 9.52 ft); minimum daily, 25 cfs Nov. 23, 25.
Period of record: Maximum discharge, 2,040 cfs June 10, 1958 (gage height, 15.09 ft); minimum daily, 1.6 cfs Sept. 15, 1964.

REMARKS.—Records good. Water can be diverted either way between Oliver ditch, an upstream tributary, and Ryan ditch, which enters below station.

REVISIONS.—WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	52	39	628	80	117	214	163	67	69	40	48
2	83	39	38	564	81	173	235	164	62	61	40	52
3	75	35	36	483	78	155	244	149	53	56	39	58
4	73	30	35	406	73	130	230	131	55	46	38	59
5	70	31	34	323	72	105	211	120	52	44	39	48
6	64	28	45	215	68	101	188	117	65	41	64	44
7	58	26	72	205	64	104	425	124	61	43	264	50
8	58	28	67	199	60	81	595	176	56	41	329	163
9	63	30	63	185	58	83	580	428	57	39	266	117
10	59	30	145	194	57	84	519	592	57	38	164	77
11	57	30	383	192	62	85	434	545	50	34	105	66
12	51	29	437	177	70	85	349	428	53	31	329	81
13	49	29	362	168	80	184	329	318	207	28	511	103
14	50	30	270	149	90	393	326	273	418	28	506	185
15	47	30	347	120	100	413	273	302	413	32	427	249
16	45	27	550	100	87	380	264	310	308	36	325	180
17	44	28	565	105	80	356	375	261	196	31	224	121
18	42	26	456	115	76	301	372	207	143	149	152	95
19	47	31	334	125	74	240	316	168	111	358	113	94
20	42	32	242	140	72	199	452	142	94	412	98	90
21	42	29	200	160	71	178	560	128	85	317	86	80
22	40	26	183	187	66	172	600	117	74	182	77	74
23	43	25	162	240	62	156	592	104	70	107	71	112
24	43	27	157	232	62	136	486	97	64	84	86	188
25	42	25	155	198	61	124	358	89	63	71	78	277
26	42	26	159	160	62	116	265	85	57	73	73	518
27	40	29	164	130	64	145	214	77	49	71	72	550
28	38	30	158	98	76	185	183	74	48	65	63	459
29	36	33	140	82	91	182	164	74	105	59	58	454
30	34	41	288	76	------	194	157	74	100	51	53	545
31	34	------	592	77	------	210	------	70	------	44	49	------
TOTAL	1,609	912	6,878	6,433	2,097	5,567	10,510	6,107	3,293	2,741	4,839	5,237
MEAN	51.9	30.4	222	208	72.3	180	350	197	110	88.4	156	175
MAX	98	52	592	628	100	413	600	592	418	412	511	550
MIN	34	25	34	76	57	81	157	70	48	28	38	44
CFSM	.36	.21	1.54	1.44	.50	1.25	2.43	1.37	.76	.61	1.08	1.22
IN.	.42	.24	1.78	1.66	.54	1.44	2.72	1.58	.85	.71	1.25	1.35

CAL YR 1971 TOTAL 32,616 MEAN 89.4 MAX 673 MIN 14 CFSM .62 IN 8.43
WTR YR 1972 TOTAL 56,223 MEAN 154 MAX 628 MIN 25 CFSM 1.07 IN 14.52

PEAK DISCHARGE (BASE, 420 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-12	0400	7.76	446	05-10	1200	9.11	601
12-16	2400	9.04	584	06-14	2200	7.53	444
01-01	0300	9.52	642	07-20	0400	7.33	426
03-15	0100	7.38	430	08-13	2100	8.39	529
04-08	1700	9.12	602	09-27	0100	8.76	566
04-22	2000	9.25	615	09-30	1300	8.63	553

05522500 Iroquois River at Rensselaer, Ind.

LOCATION.—Lat 40°56'00", long 87°07'44", in NW 1/4 SE 1/4 sec.29, T.29 N., R.6 W., Jasper County, on right bank 20 ft downstream from bridge on State Highway 114, 0.8 mile east of Rensselaer, 1.5 miles downstream from Ryan ditch, and 5.5 miles upstream from Slough Creek.

DRAINAGE AREA.—203 sq mi.

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 642.29 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 8, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 153 cfs (10.24 inches per year).

EXTREMES.—Current year: Maximum discharge, 865 cfc Dec. 31 (gage height, 10.03 ft); minimum daily, 31 cfs Nov. 23.
Period of record: Maximum discharge, 2,550 cfs June 10, 1958 (gage height, 16.54 ft); minimum daily, 2.2 cfs Sept. 9, 15, 16, 1964.

REMARKS.—Records good.

REVISIONS.—WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	53	50	838	100	137	259	208	82	84	46	54
2	96	47	46	740	105	208	299	209	77	73	46	57
3	86	44	45	626	100	189	309	190	68	77	46	63
4	83	38	46	512	90	159	291	165	69	62	44	64
5	79	39	45	392	85	123	264	150	67	58	44	55
6	74	36	54	307	86	114	231	143	81	54	66	51
7	67	33	85	265	80	110	644	148	78	54	320	59
8	66	32	81	230	73	100	845	231	72	53	393	214
9	70	36	75	219	70	95	813	655	71	50	317	158
10	67	38	200	229	70	96	709	821	70	48	195	101
11	66	38	544	227	71	96	576	722	62	45	123	83
12	59	38	606	210	72	98	446	544	64	40	414	107
13	56	36	486	200	77	217	422	396	255	36	649	154
14	56	36	367	164	86	513	411	341	517	36	616	274
15	53	39	528	140	95	536	341	395	496	39	507	340
16	50	35	796	130	100	493	350	394	371	46	384	238
17	51	36	783	130	100	457	430	328	234	40	262	162
18	48	33	619	140	95	383	425	253	169	140	176	127
19	53	39	435	145	90	300	400	203	137	390	130	126
20	48	42	319	160	83	241	629	174	111	465	111	116
21	48	39	267	185	86	215	743	156	101	356	96	103
22	45	34	243	215	85	209	842	144	88	203	86	93
23	50	31	220	250	79	190	802	128	84	119	79	142
24	50	34	214	270	79	165	653	118	76	90	93	256
25	48	33	212	240	78	150	472	108	75	79	87	395
26	48	33	218	210	78	140	349	102	72	80	80	765
27	45	38	224	160	78	172	276	93	61	79	79	787
28	45	39	216	140	80	225	232	90	60	72	71	639
29	42	42	188	115	85	221	209	92	116	65	65	663
30	42	52	417	105	------	240	198	92	121	58	60	774
31	40	------	816	100	------	256	------	87	------	50	56	------
TOTAL	1,846	1,143	9,445	7,994	2,456	6,848	13,870	7,880	4,005	3,141	5,741	7,220
MEAN	59.5	38.1	305	258	84.7	221	462	254	134	101	185	241
MAX	115	53	816	838	105	536	845	821	517	465	649	787
MIN	40	31	45	100	70	95	198	87	60	36	44	51
CFSM	.29	.19	1.50	1.27	.42	1.09	2.28	1.25	.66	.50	.91	1.19
IN.	.34	.21	1.73	1.46	.45	1.25	2.54	1.44	.73	.58	1.05	1.32

CAL YR 1971 TOTAL 44,668 MEAN 122 MAX 1,000 MIN 14 CFSM .60 IN 8.19
WTR YR 1972 TOTAL 71,589 MEAN 196 MAX 845 MIN 31 CFSM .97 IN 13.12

05523000 Bice ditch near South Marion, Ind.

LOCATION.—Lat 40°52'00", long 87°05'32", in NE 1/4 NW 1/4 sec.22, T.28 N., R.6 W., Jasper County, on left bank at upstream side of bridge on State Highway 16, 2 miles upstream from Slough Creek, 3 miles southeast of South Marion, and 5 miles southeast of Rensselaer.

DRAINAGE AREA.—21.8 sq mi.

PERIOD OF RECORD.—December 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 651.30 ft above mean sea level. Prior to Aug.5, 1955, nonrecording gage, and Aug. 5, 1955, to Sept. 30, 1965, water-stage recorder at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.—23 years (1949 to current year), 16.0 cfs (9.97 inches per year).

EXTREMES.—Current year: Maximum discharge, 492 cfs Aug. 12 (gage height, 7.72 ft); minimum daily, 0.68 cfs July 17.
Period of record: Maximum discharge, 958 cfs Dec. 21, 1967 (gage height, 10.89 ft); no flow at times during 1952, 1955, and 1964.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.0	1.4	40	4.0	13	16	18	2.2	2.2	.90	1.9
2	1.9	1.1	1.1	38	4.0	18	25	15	2.0	2.7	.90	2.2
3	1.9	1.1	1.1	32	3.8	11	21	10	1.9	3.2	1.0	2.7
4	1.7	.90	1.3	26	2.8	10	25	8.4	1.9	2.2	1.0	2.0
5	1.4	.90	1.3	18	2.5	6.5	20	6.8	2.2	2.0	.82	1.7
6	1.4	.82	2.7	15	2.4	5.9	17	6.5	3.8	1.9	2.8	1.5
7	1.3	.75	4.2	12	2.3	5.0	192	6.5	3.6	1.7	16	1.7
8	2.2	.82	4.0	11	2.2	4.0	98	17	3.2	1.5	5.0	2.5
9	2.3	1.0	3.8	14	2.2	3.6	87	80	3.6	1.3	3.2	2.0
10	1.9	1.0	65	15	2.2	3.6	59	38	5.2	1.1	2.0	1.5
11	1.5	1.0	83	14	2.2	3.4	39	22	4.2	1.0	11	1.5
12	1.4	.90	41	13	2.5	4.8	29	16	4.0	.82	292	2.0
13	1.4	.90	24	12	2.8	37	26	15	5.9	.75	141	2.5
14	1.3	.90	30	8.7	3.2	46	17	20	5.6	.75	59	287
15	1.1	.90	156	6.5	4.6	30	14	25	11	1.0	37	170
16	1.1	.82	110	6.2	3.4	43	26	17	10	1.3	22	73
17	1.1	.82	59	6.8	4.2	33	27	12	6.5	.68	13	43
18	1.1	.90	36	9.0	4.2	22	18	9.7	5.2	4.0	7.1	31
19	1.1	1.1	24	16	4.0	17	23	7.7	4.4	32	5.0	22
20	1.1	1.1	22	16	3.6	14	136	6.8	4.2	29	4.4	15
21	1.0	.90	22	15	4.0	13	105	5.9	3.4	9.4	3.8	11
22	1.4	.82	17	22	3.6	12	212	5.2	2.8	4.8	3.0	8.0
23	1.4	.75	17	26	3.2	8.7	91	4.8	2.5	3.2	3.8	38
24	1.5	.82	18	24	4.0	7.4	48	4.4	2.3	2.5	21	53
25	1.5	.82	17	23	3.4	7.1	33	3.8	2.2	2.0	11	115
26	1.4	.90	18	17	3.4	6.5	22	3.4	2.0	1.5	6.5	218
27	1.1	1.1	17	9.0	3.8	11	17	3.2	2.2	1.5	5.0	108
28	1.0	1.0	15	6.8	4.6	11	13	3.0	2.5	1.3	4.0	59
29	1.0	1.4	12	5.2	6.2	13	11	3.0	3.4	1.1	3.0	150
30	1.0	1.9	78	4.8	------	17	13	2.8	2.5	1.0	2.3	104
31	1.0	------	64	3.8	------	14	------	2.5	------	.90	2.0	------
TOTAL	43.5	29.14	965.9	485.8	99.3	451.5	1,480	399.4	116.4	120.30	690.52	1,530.7
MEAN	1.40	.97	31.2	15.7	3.42	14.6	49.3	12.9	3.88	3.88	22.3	51.0
MAX	2.3	1.9	156	40	6.2	46	212	80	11	32	292	287
MIN	1.0	.75	1.1	3.8	2.2	3.4	11	2.5	1.9	.68	.82	1.5
CFSM	.06	.04	1.43	.72	.16	.67	2.26	.59	.18	.18	1.02	2.34
IN.	.07	.05	1.65	.83	.17	.77	2.53	.68	.20	.21	1.18	2.61

CAL YR 1971 TOTAL 4,225.83 MEAN 11.6 MAX 384 MIN .59 CFSM .53 IN 7.21
WTR YR 1972 TOTAL 6,412.46 MEAN 17.5 MAX 292 MIN .68 CFSM .80 IN 10.94

PEAK DISCHARGE (BASE, 340 CFS).—Aug. 12 (1045) 492 cfs (7.72 ft). Sept. 14 (1130) 489 cfs (7.70 ft).

05523500 Slough Creek near Collegeville, Ind.

LOCATION.—Lat 40°53'30", long 87°09'17", in SE 1/4 NE 1/4 sec.12, T.28 N., R.7 W., Jasper County, on right bank at downstream side of bridge on State Highway 53, 1.5 miles south of Collegeville, 2.5 miles upstream from mouth, and 2.8 miles downstream from Bice ditch.

DRAINAGE AREA.—83.7 sq mi.

PERIOD OF RECORD.—July 1948 to December 1951, October 1952 to current year. Prior to October 1965, published as Big Slough Creek near Collegeville.

GAGE.—Water-stage recorder. Datum of gage is 634.75 ft above mean sea level. Prior to Aug. 5, 1955, nonrecording gage and Aug. 5, 1955, to Oct. 8, 1958, water-stage recorder at same site at datum 3.00 ft higher.

AVERAGE DISCHARGE.—23 years, 66.8 cfs (10.84 inches per year).

EXTREMES.—Current year: Maximum discharge, 1,120 cfs Apr. 7 (gage height, 11.41 ft); minimum daily, 5.2 cfs Aug. 5, 6.
Period of record: Maximum discharge, 2,390 cfs Dec. 22, 1967 (gage height, 16.88 ft); minimum daily, 0.7 cfs Dec. 20-26, 1963.

REMARKS.—Records poor.

REVISIONS (WATER YEARS).—WSP 1558: 1955(M), 1956(M), 1957. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	11	22	170	19	51	80	85	25	12	6.1	13
2	24	12	14	150	17	82	100	78	24	12	5.8	14
3	22	11	12	130	14	60	92	62	23	12	5.6	19
4	20	10	12	100	12	47	110	51	22	12	5.4	15
5	18	9.8	12	84	12	37	95	44	21	11	5.2	13
6	16	9.4	17	70	11	30	88	42	27	11	5.2	11
7	15	9.4	33	55	11	23	822	43	28	10	48	11
8	15	9.5	30	52	10	20	420	95	26	9.5	20	18
9	19	9.8	30	63	10	18	330	360	25	9.0	12	14
10	19	10	223	70	10	15	225	150	27	8.7	10	10
11	17	10	577	66	10	15	180	110	27	8.7	20	11
12	15	10	250	57	12	25	130	85	26	8.0	562	12
13	15	10	160	50	14	100	100	76	27	7.6	350	18
14	14	9.8	100	40	17	170	80	90	26	7.2	260	100
15	14	9.8	719	31	23	110	68	120	50	7.2	160	750
16	13	9.4	400	29	18	155	120	94	45	7.2	92	300
17	12	9.4	220	32	21	120	120	78	40	6.8	50	140
18	12	9.8	150	40	21	95	80	62	33	6.8	38	100
19	12	11	125	72	18	74	95	55	29	70	24	51
20	11	11	110	72	16	62	567	50	26	80	23	43
21	11	10	105	72	16	54	450	44	24	40	21	39
22	13	9.8	100	91	16	52	968	40	22	24	20	36
23	15	9.3	95	120	16	47	550	38	20	15	30	36
24	16	8.8	92	110	16	41	300	35	18	13	60	160
25	16	9.0	84	100	16	39	200	33	17	11	43	200
26	15	8.8	88	70	17	35	150	30	16	10	32	500
27	15	10	84	46	19	50	100	27	15	9.0	25	350
28	13	10	75	35	28	52	74	27	15	8.4	21	250
29	12	12	59	27	32	57	66	27	16	7.8	19	460
30	12	14	150	20	------	110	63	22	13	7.0	16	360
31	11	------	350	19	------	70	------	27	------	6.6	14	------
TOTAL	480	303.8	4,498	2,143	472	1,916	6,823	2,180	753	468.5	2,003.3	4,054
MEAN	15.5	10.1	145	69.1	16.3	61.8	227	70.3	25.1	15.1	64.6	135
MAX	28	14	719	170	32	170	968	360	50	80	562	750
MIN	11	8.8	12	19	10	15	63	22	13	6.6	5.2	10
CFSM	.19	.12	1.73	.83	.19	.74	2.71	.84	.30	.18	.77	1.61
IN.	.21	.14	2.00	.95	.21	.85	3.03	.97	.33	.21	.89	1.80

CAL YR 1971 TOTAL 23,011.2 MEAN 63.0 MAX 719 MIN 4.7 CFSM .75 IN 10.23
WTR YR 1972 TOTAL 26,094.6 MEAN 71.3 MAX 968 MIN 5.2 CFSM .85 IN 11.60

05524000 Carpenter Creek at Egypt, Ind.

LOCATION.—Lat 40°51'58", long 87°12'20", in SE 1/4 SW 1/4 sec.15, T.28 N., R.7 W., Jasper County, on left bank at downstream side of bridge on State Highway 16, 0.5 mile north of Egypt, 2.8 miles upstream from mouth, and 4 miles southwest of Collegeville.

DRAINAGE AREA.—44.8 sq mi.

PERIOD OF RECORD.—July 1948 to December 1951, October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.79 ft above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—23 years, 35.2 cfs (10.67 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,150 cfs Sept. 15 (gage height, 9.97 ft); minimum daily, 0.63 cfs Nov. 8.
Period of record: Maximum discharge, 3,720 cfs June 10, 1958 (gage height, 11.66 ft); no flow at times most years.

REMARKS.—Records good.

REVISIONS (WATER YEARS).—WSP 1175: 1949(M). WSP 1558: 1955-57. WSP 1728: 1951(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.1	3.5	91	8.2	18	26	38	9.0	8.4	3.3	3.5
2	3.0	1.4	2.8	75	8.4	27	36	35	8.2	11	4.5	4.2
3	2.4	1.5	2.6	63	7.5	20	36	28	7.8	14	3.7	6.3
4	2.6	1.2	2.4	54	6.8	18	42	24	7.6	10	4.4	4.5
5	2.6	.95	2.6	37	6.2	16	39	21	7.1	7.4	3.4	3.5
6	2.0	1.2	5.5	31	5.8	14	37	20	47	6.5	5.9	2.7
7	1.6	.70	10	24	5.4	12	330	20	53	6.8	15	3.2
8	1.5	.63	10	26	5.2	10	262	42	30	5.7	6.1	6.4
9	3.5	.87	22	31	5.2	9.5	208	116	24	5.0	4.7	6.9
10	4.3	1.3	50	30	5.3	9.1	148	70	55	4.6	3.2	4.9
11	3.1	1.2	170	26	5.6	8.5	99	48	42	4.2	19	3.5
12	2.1	1.2	100	24	6.2	11	75	38	31	3.6	395	4.1
13	1.8	1.3	58	25	7.2	46	65	37	62	3.0	299	6.0
14	2.0	1.2	64	15	8.4	88	47	39	72	3.0	88	548
15	1.7	1.2	330	13	13	60	40	44	88	3.4	41	828
16	1.6	1.1	250	12	10	74	57	35	82	3.7	27	290
17	1.4	.95	130	14	12	72	65	29	43	3.5	18	151
18	1.5	1.1	80	18	12	55	51	25	32	25	13	84
19	1.4	1.6	51	34	11	41	54	22	25	80	10	58
20	1.3	1.8	42	32	10	35	253	19	21	50	9.2	45
21	1.2	1.6	38	30	11	33	220	18	17	35	8.1	36
22	1.6	1.1	32	37	12	31	418	16	14	21	7.2	29
23	2.3	.95	32	46	10	22	223	14	13	15	7.8	75
24	2.3	1.1	33	42	12	20	127	13	12	17	12	182
25	3.0	1.1	29	34	11	18	81	13	11	15	8.7	245
26	2.6	1.1	32	29	10	16	60	11	10	10	6.9	774
27	2.1	1.5	30	20	11	20	48	10	8.7	8.0	6.2	373
28	1.6	1.5	27	15	12	20	40	10	8.4	6.0	5.7	208
29	1.4	2.4	23	11	13	23	37	10	9.8	5.0	4.6	352
30	1.4	4.5	121	9.0	------	26	36	11	12	4.5	3.7	366
31	1.3	------	168	7.6	------	23	------	9.8	------	3.8	3.0	------
TOTAL	66.2	40.35	1,951.4	955.6	261.4	896.1	3,260	885.8	862.6	399.1	1,047.3	4,703.7
MEAN	2.14	1.35	62.9	30.8	9.01	28.9	109	28.6	28.8	12.9	33.8	157
MAX	4.3	4.5	330	91	13	88	418	116	88	80	395	828
MIN	1.2	.63	2.4	7.6	5.2	8.5	26	9.8	7.1	3.0	3.0	2.7
CFSM	.05	.03	1.40	.69	.20	.65	2.43	.64	.64	.29	.75	3.50
IN.	.05	.03	1.62	.79	.22	.74	2.71	.74	.72	.33	.87	3.91

CAL YR 1971 TOTAL 9,720.91 MEAN 26.6 MAX 332 MIN .56 CFSM .59 IN 8.07
WTR YR 1972 TOTAL 15,329.55 MEAN 41.9 MAX 828 MIN .63 CFSM .94 IN 12.73

PEAK DISCHARGE (BASE, 600 CFS).—Sept. 15 (0115) 1,150 cfs (9.97 ft). Sept. 26 (0700) 905 cfs (9.59 ft).

NOTE.--No gage-height record June 30 to July 31.

05524500 Iroquois River near Foresman, Ind.

LOCATION.--Lat 40°52'14", long 87°18'24", in NE 1/4 SE 1/4 sec.15, T.28 N., R.8 W., Newton County, on right bank at downstream side of bridge on State Highway 55, 0.2 mile north of intersection of Highways 16 and 55, 0.5 mile downstream from Mosquito Creek, 0.6 mile west of Foresman, and 3 miles east of Brook.

DRAINAGE AREA.--449 sq mi.

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 624.00 ft above mean sea level. Prior to Sept. 7, 1955, nonrecording gage 2.5 miles upstream at datum 3.54 ft higher.

AVERAGE DISCHARGE.--23 years, 346 cfs (10.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,890 cfs Sept. 30 (gage height, 15.69 ft); minimum daily, 60 cfs Nov. 8, July 14.
Period of record: Maximum discharge, 5,930 cfs June 14, 1958 (gage height, 24.42 ft); minimum daily, 6.3 cfs Sept. 10, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	68	98	1,190	240	270	482	502	143	185	73	95
2	150	84	94	1,280	235	320	521	476	133	145	70	96
3	145	79	88	1,290	230	425	571	437	121	145	70	112
4	142	72	87	1,240	210	370	586	377	111	134	70	112
5	135	67	87	1,110	200	295	583	325	108	111	66	104
6	126	67	94	920	185	255	550	295	190	102	90	92
7	113	63	150	776	175	240	873	282	242	98	445	90
8	104	60	181	647	165	215	1,430	367	186	96	589	208
9	110	62	174	561	160	200	1,670	762	148	92	554	274
10	115	68	309	522	155	195	1,720	1,080	214	89	442	206
11	111	70	712	502	155	195	1,640	1,170	215	83	306	151
12	103	69	868	476	155	205	1,490	1,140	167	73	610	144
13	92	69	884	456	165	345	1,310	1,020	281	65	1,020	224
14	91	68	827	350	170	690	1,130	882	560	60	1,140	569
15	89	68	854	310	185	830	976	788	636	64	1,080	1,100
16	84	69	1,250	290	200	910	818	744	666	75	952	1,270
17	80	66	1,380	300	210	955	789	686	610	72	764	1,130
18	76	66	1,360	315	205	918	798	596	471	110	566	818
19	76	70	1,220	330	190	822	789	493	343	386	359	580
20	78	76	1,020	360	185	706	928	398	260	533	246	374
21	74	78	850	410	195	598	1,220	329	226	557	198	256
22	72	68	714	470	200	512	1,590	288	195	462	170	234
23	75	62	610	520	190	446	1,830	258	176	290	151	214
24	81	62	534	540	185	378	1,780	234	160	150	175	473
25	83	63	484	540	180	329	1,590	212	148	144	190	673
26	81	63	465	520	180	300	1,350	194	141	136	160	1,190
27	79	68	460	460	180	314	1,080	178	127	128	144	1,520
28	77	73	452	400	185	384	838	165	120	121	134	1,610
29	73	78	421	320	190	413	667	161	178	104	119	1,490
30	69	91	570	280	------	445	550	157	222	97	108	1,260
31	68	------	975	250	------	472	------	153	------	92	99	------
TOTAL	3,048	2,087	18,272	17,935	5,460	13,952	32,149	15,149	7,498	5,043	11,160	17,472
MEAN	98.3	69.6	589	579	188	450	1,072	489	250	163	360	582
MAX	195	91	1,380	1,290	240	955	1,830	1,170	666	557	1,140	1,860
MIN	68	60	87	250	155	195	482	153	108	60	66	90
CFSM	.22	.16	1.31	1.29	.42	1.00	2.39	1.09	.56	.36	.80	1.30
IN.	.25	.17	1.51	1.49	.45	1.16	2.66	1.26	.62	.42	.92	1.45

CAL YR 1971 TOTAL 102,706 MEAN 281 MAX 1,970 MIN 37 CFSM .63 IN 8.51
WTR YR 1972 TOTAL 149,225 MEAN 408 MAX 1,860 MIN 60 CFSM .91 IN 12.36

05524500 Iroquois River near Foresman, Ind.—Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
06...	1400	--	128	112	39
NOV.					
11...	1500	--	68	520	9.5
DEC.					
21...	1400	--	837	17	38
MAR.					
16...	1030	--	917	29	72
29...	1500	5.0	424	24	27
APR.					
21...	1050	--	1190	51	162
MAY					
03...	1000	15.0	432	79	92
JUNE					
07...	1000	20.0	246	88	58
JULY					
21...	1100	24.0	584	62	98
AUG.					
14...	1130	23.0	1140	44	135
SEP.					
21...	1700	20.0	238	98	63

05525000 Iroquois River at Iroquois, Ill.

LOCATION.—Lat 40°49'25", long 87°34'55", in SE 1/4 sec.15, T.27 N., R.11 W., Iroquois County, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft upstream from Penn Central bridge, and 4.5 miles downstream from Indiana-Illinois state line.

DRAINAGE AREA.—686 sq mi.

PERIOD OF RECORD.—October 1944 to current year.

GAGE.—Water-stage recorder. Datum of gage is 614.34 ft above mean sea level. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—28 years, 509 cfs (10.08 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,480 cfs Sept. 30 (gage height, 16.11 ft); minimum, 61 cfs Nov. 10.
Period of record: Maximum discharge, 10,400 cfs June 13, 1958 (gage height, 26.31 ft); minimum, 5.2 cfs Sept. 13, 1964.

REMARKS.—Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	98	114	1,300	470	354	657	860	275	289	101	146
2	352	101	126	1,380	420	433	690	791	258	251	91	160
3	295	110	126	1,410	390	515	745	731	239	239	87	183
4	267	105	122	1,390	370	533	791	656	221	221	89	172
5	250	97	122	1,340	350	475	809	585	206	194	84	160
6	235	85	129	1,340	340	404	805	533	580	166	105	146
7	219	75	159	1,340	320	381	1,270	503	795	149	323	137
8	203	69	214	1,270	300	365	1,750	641	641	138	719	283
9	195	64	242	933	280	322	1,960	1,320	540	132	743	380
10	190	63	376	835	270	294	2,110	1,630	832	126	661	374
11	190	66	796	773	270	287	2,120	1,670	800	120	542	295
12	179	70	965	735	270	289	2,030	1,330	628	111	825	242
13	167	71	1,030	701	280	406	1,860	1,120	1,200	101	1,200	259
14	154	67	1,040	618	290	857	1,660	1,040	1,480	89	1,290	1,570
15	143	65	1,330	562	310	1,070	1,450	948	1,340	101	1,300	2,310
16	136	66	1,620	530	330	1,200	1,250	831	1,230	109	1,230	2,140
17	127	71	1,700	500	350	1,280	1,100	696	1,110	102	1,100	1,910
18	120	75	1,700	500	360	1,280	1,050	592	958	110	920	1,640
19	114	80	1,630	520	330	1,210	1,050	525	751	287	667	1,290
20	112	82	1,490	550	310	1,090	1,280	476	576	515	451	957
21	112	85	1,290	590	310	963	1,530	436	469	599	329	684
22	107	87	1,070	650	330	832	1,980	399	397	601	268	522
23	104	83	895	720	320	710	2,220	375	337	496	245	530
24	106	77	746	800	310	615	2,270	371	300	345	338	833
25	112	75	633	860	300	544	2,180	367	272	270	302	1,160
26	115	75	583	880	300	494	1,990	363	250	199	290	1,730
27	116	79	553	900	300	473	1,750	344	232	174	247	1,880
28	114	84	530	850	319	495	1,490	322	214	161	214	1,940
29	114	94	504	750	325	554	1,210	308	225	147	193	2,220
30	109	103	754	650	------	584	990	299	268	130	172	2,470
31	101	------	1,160	550	------	621	------	289	------	115	152	------
TOTAL	5,300	2,422	23,749	26,727	9,424	19,930	44,047	21,351	17,624	6,787	15,278	28,723
MEAN	171	80.7	766	862	325	643	1,468	689	587	219	493	957
MAX	442	110	1,700	1,410	470	1,280	2,270	1,670	1,480	601	1,300	2,470
MIN	101	63	114	500	270	287	657	289	206	89	84	137
CFSM	.25	.12	1.12	1.26	.47	.94	2.14	1.00	.86	.32	.72	1.40
IN.	.29	.13	1.29	1.45	.51	1.08	2.39	1.16	.96	.37	.83	1.56

CAL YR 1971 TOTAL 144,296 MEAN 395 MAX 2,090 MIN 41 CFSM .58 IN 7.82
WTR YR 1972 TOTAL 221,362 MEAN 605 MAX 2,470 MIN 63 CFSM .88 IN 12.00

05525500 Sugar Creek at Milford, Ill.

LOCATION.—Lat 40°37'50", long 87°43'25", in N 1/2 sec.16, T.25 N., R.12 W., Iroquois County, on right bank at downstream side of highway bridge, 200 ft downstream from Mud Creek, and 1 mile west of Milford.

DRAINAGE AREA.—430 sq mi.

PERIOD OF RECORD.—July 1948 to current year.

GAGE.—Water-stage recorder. Datum of gage is 622.00 ft above mean sea level. Prior to July 23, 1970, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.—24 years, 321 cfs (10.14 inches per year).

EXTREMES.—Current year: Maximum discharge, 2,980 cfs Apr. 22 (gage height, 14.56 ft); minimum, 2.0 cfs Sept. 1, 2, 7.
Period of record: Maximum discharge, 22,900 cfs Feb. 21, 1951 (gage height, 20.90 ft); from rating curve extended above 8,200 cfs; maximum gage height, 23.74 ft Feb. 10, 1959 (ice jam); minimum discharge, 2.0 cfs Sept. 1, 2, 7, 1972.

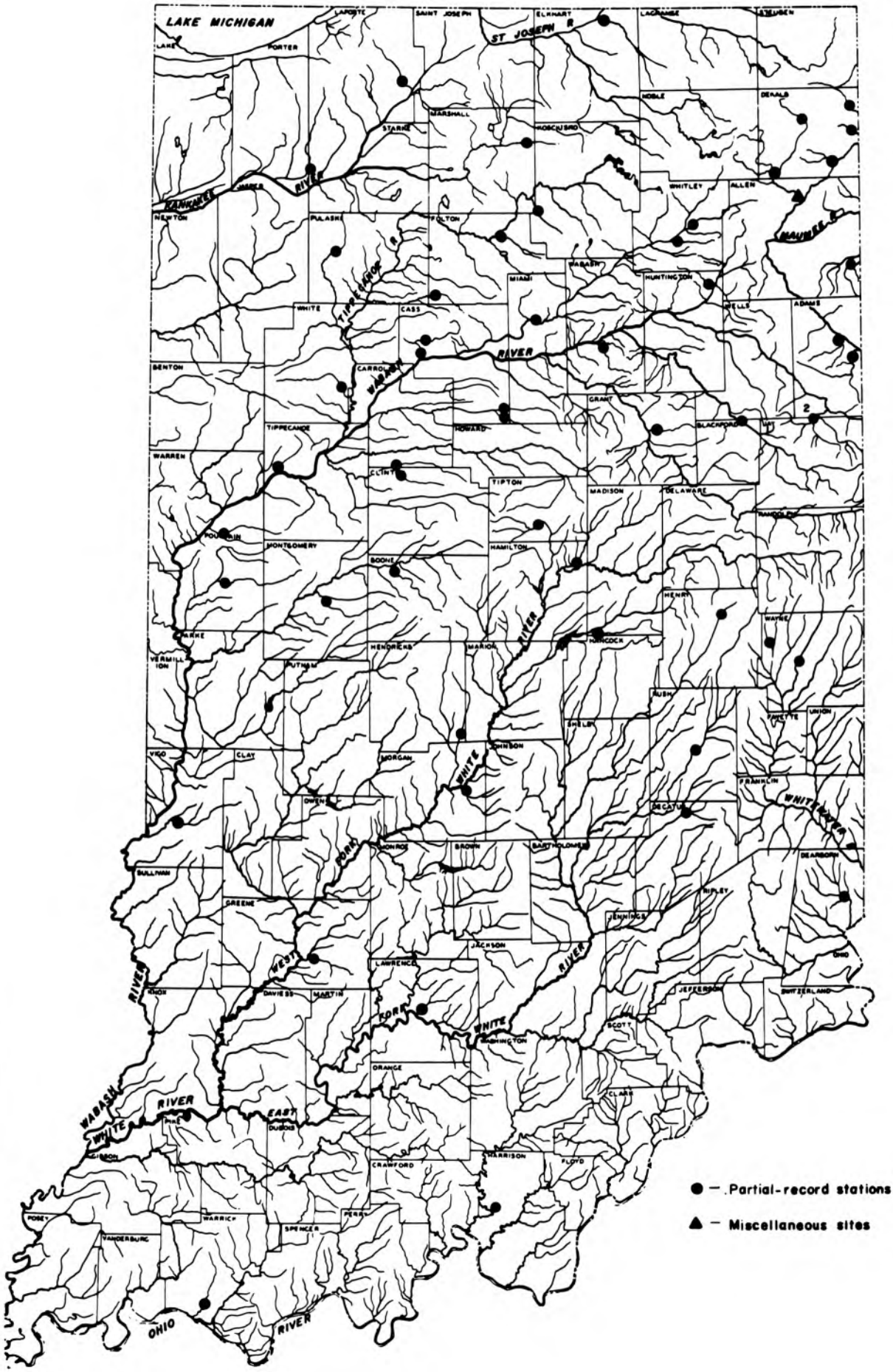
REMARKS.—Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	12	18	1,380	140	141	314	366	128	98	31	2.5
2	43	15	17	995	130	213	384	348	120	91	30	4.8
3	35	16	17	836	120	210	396	314	109	135	31	9.0
4	35	15	15	390	115	182	400	282	108	140	33	7.8
5	34	13	15	346	110	134	422	260	98	113	27	7.2
6	29	13	19	434	110	122	364	246	115	95	37	4.8
7	24	11	25	406	105	153	945	238	138	82	28	4.8
8	22	10	37	296	105	122	2,300	374	112	74	24	22
9	25	12	50	304	100	99	2,000	1,030	119	67	20	26
10	25	13	184	308	100	99	1,450	1,220	234	64	14	17
11	22	13	990	288	100	99	1,030	963	327	56	12	10
12	18	13	963	271	105	108	905	616	237	48	40	10
13	17	13	605	265	110	234	770	452	276	43	82	14
14	15	13	408	183	120	1,100	669	390	565	39	44	262
15	14	13	1,260	160	130	1,070	570	362	1,110	57	31	525
16	14	14	2,600	180	120	859	501	318	1,330	65	24	321
17	12	13	2,510	142	130	754	436	280	749	47	19	205
18	9.7	14	1,590	204	120	586	398	258	386	88	14	141
19	9.7	17	863	225	110	426	398	244	295	272	10	102
20	9.7	16	492	240	100	350	1,120	229	255	206	7.8	78
21	9.7	16	408	251	110	316	1,740	222	223	117	6.6	64
22	10	15	350	264	100	294	2,560	211	194	93	5.4	51
23	12	14	328	270	96	255	2,720	202	169	72	14	79
24	14	14	326	270	95	228	1,900	188	154	66	43	212
25	15	14	322	258	95	210	1,160	175	142	112	28	336
26	16	13	328	250	94	199	735	162	131	78	20	1,040
27	13	15	310	240	93	204	545	154	121	70	15	1,210
28	11	15	284	220	113	226	442	148	113	59	15	675
29	10	18	258	200	135	233	392	145	116	49	11	392
30	12	19	683	180	------	271	360	150	110	40	7.2	247
31	11	------	1,570	160	------	306	------	134	------	34	3.6	------
TOTAL	600.2	422	17,839	10,482	3,211	9,830	28,326	10,681	8,284	2,670	727.6	6,221.9
MEAN	19.4	14.1	575	338	111	317	944	345	276	86.1	23.5	207
MAX	54	19	2,600	1,380	140	1,100	2,720	1,220	1,330	272	82	1,210
MIN	9.7	10	15	160	93	99	314	134	98	34	3.6	2.5
CFSM	.05	.03	1.34	.79	.26	.74	2.20	.80	.64	.20	.05	.48
IN.	.05	.04	1.54	.91	.28	.85	2.45	.92	.72	.23	.06	.54

CAL YR 1971 TOTAL 90,131.8 MEAN 247 MAX 3,570 MIN 5.4 CFSM .57 IN 7.80
WTR YR 1972 TOTAL 99,295.3 MEAN 271 MAX 2,720 MIN 2.5 CFSM .63 IN 8.59

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES IN INDIANA



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations and miscellaneous sites are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during Water Year 1972

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		OHIO RIVER BASIN				
		Great Miami River				
03274710	Nettle Creek near Hagerstown, Ind.	Lat 39°55'30", long 85°10'39", in W 1/2 sec.15, T.17 N., R.12 E., Wayne County, at bridge on Leavell Road, 1.3 miles northwest of Hagerstown.	17.7	1971-72	10-14-71 02-22-72 09-12-72	4.46 8.68 4.90
03274900	Greens Fork at Greens Fork, Ind.	Lat 39°53'35", long 85°02'39", in NE 1/4 SW 1/4 sec.26, T.17 N., R.13 E., Wayne County, at bridge on State Highway 38, at west edge of Greens Fork.	66.7	1969-72	02-22-72 09-12-72	34.9 5.81
		Tanners Creek				
03276630	Tanners Creek near Guilford, Ind.	Lat 39°09'15", long 84°53'50", in E 1/2 sec.29, T.6 N., R.1 W., first principal meridian, Ohio, Dearborn County, at bridge on Pribble Road, 2.3 miles southeast of Guilford.	84.1	1969-72	10-14-71 02-23-72 09-12-72	2.44 36.5 .10
		Blue River				
03302900	Spring Creek near White Cloud, Ind.	Lat 38°14'20", long 86°13'45", in SE 1/4 sec.19, T.3 S., R.3 E., Harrison County, at county highway bridge, 0.8 mile north of White Cloud, and at mouth of Harrison Spring.		1951-52 1954-72	09-13-72	11.2
		Cypress Creek				
03304200	Cypress Creek near Newburgh, Ind.	Lat 37°57'16", long 87°19'50", in SW 1/4 SW 1/4 NE 1/4 sec.32, T.6 S., R.8 W., Warrick County, at bridge on County Road 550 South, 0.5 mile west of County Road 400 West, 4.0 miles east of Newburgh.	about 56	1972	10-13-71 09-12-72	6.36 4.53
		Wabash River				
03322860	Loblolly Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW 1/4 NE 1/4 sec.32, T.25 N., R.14 E., Adams County, at bridge on U.S. Highway 27, at south edge of Geneva.	67.2	1969-72	10-14-71	1.81
03322880	Limberlost Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW 1/4 NE 1/4 sec.32, T.25 N., R.14 E., Adams County, 50 ft upstream of mouth, above bridge on U.S. Highway 27, at south edge of Geneva.	41.7	1969-72	10-14-71	.89
03323700	Aboite Creek near Aboite, Ind.	Lat 40°59'23", long 85°21'00", on line between secs.1 and 12, T.29 N., R.10 E., Huntington County, at bridge on County Road 1100 North, 800 ft above mouth, 2.25 miles northeast of Roanoke.	52.7	1969-72	10-13-71 02-23-72	4.06 7.96
03324250	Salamonie River at Montpelier, Ind.	Lat 40°33'33", long 85°16'43", in NE 1/4 NE 1/4 SE 1/4 sec.4, T.24 N., R.11 E., Blackford County, at bridge on State Highway 303, at north edge of Montpelier.	253	1969-72	10-14-71 02-22-72	7.68 47.4
03324700	Treaty Creek at Wabash, Ind.	Lat 40°47'31", long 85°48'36", in SE 1/4 NE 1/4 NE 1/4 sec.14, T.27 N., R.6 E., Wabash County, at bridge on Cassatt Road, 0.5 mile southeast of Wabash.	30.1	1969-72	10-14-71 02-24-72	2.59 4.92
03326480	Lugar Creek at Marion, Ind.	Lat 40°32'20", long 85°37'40", in SW 1/4 SE 1/4 SW 1/4 sec.9, T.24 N., R.8 E., Grant County, at bridge on Stone Road, 2.0 miles east of Marion.	about 30	1972	10-15-71 02-22-72	2.05 5.67
03327590	Eel River near Columbia City, Ind.	Lat 41°08'33", long 85"27'25", in NW 1/4 SE 1/4 NE 1/4 sec.13, T.31 N., R.9 E., Whitley County, at bridge on Old U.S. Highway 30, 1.5 miles east of Columbia City.	77.4	1969-72	10-13-71 02-23-72	13.3 22.8

Discharge measurements made at low-flow partial-record stations during Water Year 1972—Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		OHIO RIVER BASIN—Continued				
		Wabash River—Continued				
03327900	Sugar Creek near South Whitley, Ind.	Lat 41°04'31", long 85°36'54", on line between secs.3 and 10, T.30 N., R.8 E., Whitley County, at bridge on State Highway 14, 0.3 mile east of junction with State Highway 5, at southeast edge of South Whitley.	30.7	1969-72	10-13-71 02-23-72	1.30 7.12
03328450	Eel River at Mexico, Ind.	Lat 40°49'20", long 86°06'47", on line between sec. 31, T.28 N., R.4 E., and sec. 6, T. 27 N., R.4 E., Miami County, at bridge on county road east of Mexico.	700	1968, 1971-72	10-14-71 02-24-72	164 269
03329100	Crooked Creek near Royal Center, Ind.	Lat 40°48'23", long 86°29'31", in NW 1/4 sec.11, T.27 N., R.1 W., Cass County, at culverts on 625 West Road, 4 miles south of Royal Center.	35.9	1968-72	10-14-71 02-23-72	9.07 15.9
03329150	Crooked Creek near Logansport, Ind.	Lat 40°45'51", long 86°29'54", in NW 1/4 sec.26, T.27 N., R.1 W., Cass County, at bridge on U.S. Highway 24, 6.5 miles west of Logansport.	54.2	1968-72	10-14-71 02-23-72	25.0 33.3
03329510	Deer Creek near Lincoln, Ind.	Lat 40°36'11", long 86°12'10", in NW 1/4 sec.21, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, one mile south of Lincoln.	56.5	1968-72	10-15-71 02-23-72	5.50 13.0
03329530	South Fork Deer Creek at Galveston, Ind.	Lat 49°34'54", long 86°11'23", in SE 1/4 sec.28, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, at Galveston.	31.6	1968-72	10-15-71 02-23-72	3.22 10.3
03331350	Yellow Creek near Mentone, Ind.	Lat 41°10'18", long 86°07'16", in NW 1/4 NE 1/4 sec.6, T.31 N., R.4 E., Fulton County, at bridge on State Highway 25, 4.5 miles west of Mentone.	43.7	1969-72	10-14-71 02-23-72	2.68 17.4
03331375	Chippewanuck Creek near Rochester, Ind.	Lat 41°06'43", long 86°11'09", in NW 1/4 NW 1/4 sec.27, T.31 N., R.3 E., Fulton County, at bridge on State Highway 25, 3.5 miles north of Rochester.	43.7	1969-72	10-14-71 02-24-72	8.64 17.9
03332250	Indian Creek near Thornhope, Ind.	Lat 40°55'12", long 86°31'42", in NE 1/4 SE 1/4 NE 1/4 sec.33, T.29 N., R.1 W., Pulaski County, at bridge on U.S. Highway 35, 0.3 mile south of Thornhope.	56.6	1968, 1970-72	10-14-71 02-23-72	17.2 27.3
03332350	Big Monon Creek near Medaryville, Ind.	Lat 41°03'21", long 86°50'02", in NW 1/4 NW 1/4 sec.13, T.30 N., R.4 W., Pulaski County, at bridge on State Highway 14, 3 miles east of junction of U.S. Highway 421 and State Highway 14, 3.5 miles southeast of Medaryville.	69.6	1968-69 1971-72	10-14-71	44.3
03332800	Big Creek near Monticello, Ind.	Lat 40°40'16", long 86°47'14", in SW 1/4 NW 1/4 SW 1/4 sec.29, T.26 N., R.3 W., White County, at bridge on county road 4.8 miles east of State Road 43 in Chalmers.	55.3	1968-69 1971-72	10-14-71	3.28
03334700	Middle Fork Wildcat Creek near Rossville, Ind.	Lat 40°25'47", long 86°36'15", in NE 1/4 NE 1/4 sec.23, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 1 mile northwest of Rossville.	54.0	1969-72	10-13-71 02-22-72	4.52 26.4
03334750	Campbells Run near Rossville, Ind.	Lat 40°24'46", long 86°35'41", in SE 1/4 NW 1/4 sec.25, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 0.3 mile south of Rossville.	18.3	1969-72	10-13-71 02-22-72	1.01 8.00
03335680	Indian Creek near Greenhill, Ind.	Lat 40°25'03", long 87°02'31", in SE 1/4 SW 1/4 SE 1/4 sec.24, T.23 N., R.6 W., Tippecanoe County, at bridge on South River Road, 6.5 miles west of West Lafayette.	about 30	1972	10-15-71 02-24-72	.19 2.17
03335800	Big Shawneee Creek near Attica, Ind.	Lat 40°14'30", long 87°14'12", in NW 1/4 sec.29, T.21 N., R.7 W., Fountain County, at county road bridge, 0.5 mile northeast of Rob Roy, and 3.7 miles southeast of Attica.	42.0	1968-72	10-13-71 02-24-72	11.0 18.8
03339111	East Fork Coal Creek near Veedersburg, Ind.	Lat 40°05'48", long 87°14'34", in NW 1/4 NW 1/4 sec.17, T.19 N., R.7 W., Fountain County, at bridge on New U.S. Highway 41, 1.5 miles southeast of Veedersburg.	60.1	1969-72	10-13-71 02-24-72	10.7 32.6
03339300	Prairie Creek at Thorntown, Ind.	Lat 40°07'46", long 86°36'01", in SE 1/4 SE 1/4 sec.35, T.20 N., R.2 W., Boone County, at bridge on State Highway 47, at east edge of Thorntown.	46.9	1969-72	10-13-71 02-24-72	6.83 21.2
03339460	Walnut Fork Sugar Creek near Crawfordsville, Ind.	Lat 40°02'49", long 86°51'33", in SE 1/4 NW 1/4 sec.34, T.19 N., R.4 W., Montgomery County, at bridge on State Highway 32, 2.5 miles east of Crawfordsville.	44.8	1969-72	10-13-71 02-24-72	3.20 22.3
03341580	Honey Creek near Terre Haute, Ind.	Lat 39°23'40", long 87°23'54", in SW 1/4 sec.15, T.11 N., R.9 W., Vigo County, at bridge on U.S. Highway 41, at north edge of Allendale and 3 miles south of the city limits of Terre Haute.	about 64	1965,1967, 1969-72	10-15-71 09-12-72	2.20 .91
03348400	Duck Creek near Strawtown, Ind.	Lat 40°08'17", long 85°56'22", on line between secs.34 and 35, T.20 N., R.5 E., Hamilton County, at bridge on State Highway 213, 0.6 mile north of State Highway 37, and 1.1 miles north of Strawtown.	98.9	1946,1965, 1968-72	10-15-71 02-22-72 09-12-72	6.81 27.8 6.67

Discharge measurements made at low-flow partial-record stations during Water Year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		OHIO RIVER BASIN—Continued				
		Wabash River--Continued				
03349200	Cicero Creek at Tipton, Ind.	Lat 40°16'16", long 86°03'02", on line between secs.14 and 15, T.21 N., R.4 E., Tipton County, at county road bridge, 0.5 mile southwest of Tipton.	80.2	1968-72	10-15-71 02-24-72 09-11-72	2.69 20.7 2.31
03351490	Lick Creek near Fortville, Ind.	Lat 39°57'22", long 85°50'36", on line between secs.3 and 4, T.17 N., R.6 E., Madison County, at bridge on State Highway 13, 1.5 miles north of U.S. Highway 36 in Fortville.	about 36	1972	10-15-71 02-22-72	9.51 23.6
03353665	Stotts Creek near Martinsville, Ind.	Lat 39°30'02", long 86°19'57", in NE 1/4 sec.8, T.12 N., R.2 E., Morgan County, at bridge on State Highway 37, 250 ft upstream of mouth, 7.2 miles northeast of Martinsville.	60.1	1954, 1968-72	10-13-71	.82
03353900	East Fork White Lick Creek at Mooresville, Ind.	Lat 39°38'47", long 86°20'47", in SE 1/4 sec.18, T.14 N., R.2 E., Hendricks County, at bridge on Mooresville Road, 0.8 mile west of Friendswood, and 3 miles northeast of Mooresville.	42.8	1965, 1968-72	10-13-71	2.13
03360225	Plummer Creek near Bloomfield, Ind.	Lat 38°59'33", long 86°55'44", in NE 1/4 sec.2, T.6 N., R.5 W., Greene County, at bridge on U.S. Highway 231, 2.3 miles south of Bloomfield.	66.7	1954, 1968-72	10-14-71 09-13-72	1.58 1.99
03360920	Big Blue River near New Castle, Ind.	Lat 40°00'15", long 85°20'48", at corner of secs.13, 14, 23, and 24, T.18 N., R.10 E., Henry County, at bridge on U.S. Highway 36, 5.2 miles east of Sulphur Springs, and 5.2 miles north of New Castle.	15.8	1965, 1969-72	10-14-71 02-22-72 09-12-72	5.94 9.10 4.58
03363400	Flatrock River at Rushville, Ind.	Lat 39°36'15", long 85°26'39", in NW 1/4 SW 1/4 sec.5, T.13 N., R.10 E., Rush County, at bridge on U.S. Highway 52, 0.3 mile south of courthouse in Rushville.	168	1969-72	10-13-71 02-23-72 09-12-72	14.3 88.3 9.26
03364400	Clifty Creek at Sandusky, Ind.	Lat 39°25'27", long 85°28'48", in NE 1/4 NE 1/4 sec.11, T.11 N., R.9 E., Decatur County, at bridge on State Highway 3, in Sandusky.	46.4	1969-72	10-13-71 02-23-72 09-12-72	2.62 27.0 .23
03371530	Leatherwood Creek at Bedford, Ind.	Lat 38°50'23", long 86°28'38", in SE 1/4 SW 1/4 NW 1/4 sec.25, T.5 N., R.1 W., Lawrence County, at bridge on county road, 1.6 miles southeast of courthouse in Bedford.	about 39	1972	11-05-71 09-12-72	1.73 1.61
		STREAMS TRIBUTARY TO LAKE MICHIGAN				
		St. Joseph River				
04099805	Little Elkhart River near Middlebury, Ind.	Lat 41°39'15", long 85°40'14", on line between secs.13 and 24, T.37 N., R.7 E., Elkhart County, at bridge on U.S. Highway 20, 2.2 miles southeast of Middlebury.	60.6	1972	02-23-72	25.8
		STREAMS TRIBUTARY TO LAKE ERIE				
		Maumee River				
04177800	Fish Creek near Artic, Ind.	Lat 41°29'15", long 84°50'13", in SE 1/4 sec.18, T.35 N., R.15 E., DeKalb County, at bridge on County Road 12, 1.7 miles northeast of Artic.	95.6	1968-72	10-14-71 02-23-72	4.19 15.6
04177900	Big Run at Butler, Ind.	Lat 41°26'09", long 84°52'08", in NE 1/4 sec.1, T.34 N., R.14 E., DeKalb County, at bridge on State Highway 1, 0.6 mile north of Butler.	17.0	1968-72	10-14-71 02-23-72	1.42 3.73
04178400	Bear Creek at Saint Joe, Ind.	Lat 41°18'58", long 84°53'31", in NE 1/4 SW 1/4 SE 1/4 sec.15, T.33 N., R.14 E., DeKalb County, at bridge on State Highway 1, 1/3 mile east of Saint Joe.	27.2	1972	10-13-71 02-22-72	1.58 5.08
04179310	Cedar Creek at Waterloo, Ind.	Lat 41°26'14", long 85°01'03", in NW 1/4 sec.3, T.34 N., R.13 E., DeKalb County, at bridge on U.S. Highway 27, 0.3 mile northeast of Waterloo.	48.8	1968-72	10-14-71 02-23-72	1.50 8.36
04179800	Little Cedar Creek near Garrett, Ind.	Lat 41°16'08", long 85°08'07", on line between secs.33 and 34, T.33 N., R.12 E., DeKalb County, at bridge on U.S. Highway 27, 6.0 miles south of Garrett.	72.3	1972	10-14-71 02-23-72	6.33 12.8
04181100	Blue Creek near Pleasant Mills, Ind.	Lat 40°44'49", long 84°49'20", in NE 1/4 NE 1/4 sec.4, T.26 N., R.15 E., Adams County, at bridge on State Highway 124, 1.5 miles west of Willshire, Ohio, and 2.2 miles southeast of Pleasant Mills.	78.5	1968-72	10-13-71 02-22-72	6.66 8.73
04181300	Yellow Creek near Decatur, Ind.	Lat 40°48'10", long 84°53'00", in NW 1/4 NE 1/4 NE 1/4 sec.13, T.27 N., R.14 E., Adams County, at bridge on U.S. Highway 33, 2.2 miles southeast of Decatur.	27.0	1972	10-13-71 02-22-72	1.06 2.82
04191340	Flatrock Creek near Townley, Ind.	Lat 41°00'51", long 84°51'06", in SE 1/4 sec.32, T.30 N., R.15 E., Allen County, at bridge on U.S. Highway 30, 1.2 miles southeast of Townley.	47.1	1968-72	10-13-71 02-22-72	.53 3.78

Discharge measurements made at low-flow partial-record stations during Water Year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		UPPER MISSISSIPPI RIVER BASIN				
		Illinois River				
05515100	Little Kankakee River near Mill Creek, Ind.	Lat 41°34'15", long 86°34'27", in center of sec.18, T.36 N., R.1 W., LaPorte County, at bridge on State Highway 4, 2.5 miles west of Mill Creek.	33.8	1961-65 1967-69 1971-72	10-15-71 02-24-72	38.9 33.8
05517550	Reeves ditch near LaCrosse, Ind.	Lat 41°19'03", long 86°55'49", on line between secs.12 and 13, T.33 N., R.5 W., Porter-LaPorte County line, at bridge on State Highway 8, 2.0 miles west of LaCrosse.	44.1	1961-65, 1968, 1971-72	10-15-71 02-24-72	21.0 30.9

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