



# **Water Resources Data for Indiana**

## **Water Year 1975**



**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IN-75-1**

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



UNITED STATES DEPARTMENT OF THE INTERIOR

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Indiana State Board of Health  
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## Preface

This report was prepared by the U.S. Geological Survey in cooperation with the State of Indiana and with other agencies by personnel of the Indiana district of the Water Resources Division, under the supervision of J. L. Cook, District Chief, and J. T. Callahan, Regional Hydrologist, Northeastern Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.



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# WATER RESOURCES DATA FOR INDIANA, 1975

## INTRODUCTION

Water resources data for the 1975 water year for Indiana consist of records of streamflow or reservoir storage at gaging stations, partial-record stations, miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water, and water levels of wells. Records for a few pertinent streamflow 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. 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.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

Beginning with the 1961 water year and continuing through water year 1974, streamflow 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, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a state-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report IN-75-1." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

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

Indiana State Board of Health, W. T. Paynter, commissioner, and R. C. Pickard, assistant commissioner for environmental health.

Indiana State Highway Commission, R. A. Boehing, chairman, Roger F. Marsh, executive director, and G. K. Hallock, chief engineer.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 44 surface-water gaging stations and 8 water-quality gaging 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, Hammond, Muncie, and Richmond; city of Ft. Wayne Filtration Plant; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Co. of Indiana; Container Corporation of America; and Sanitary District of Chicago.



## DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows. See also table for converting English units to International System (SI) units on page 4.

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.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C + 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C + 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C + 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units herein to the International System of Units (SI). Reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By Length	To obtain SI units
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
Area		
acres	4047	square metres (m <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590	square kilometres (km <sup>2</sup> )
Volume		
gallons (gal)	3.785	litres (l)
	$3.785 \times 10^{-3}$	cubic metres (m <sup>3</sup> )
million gallons (10 <sup>6</sup> gal)	3785	cubic metres (m <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	28.32	litres (l)
	.02832	cubic metres (m <sup>3</sup> )
cubic feet per second per day (ft <sup>3</sup> /s-day)	2447	cubic metres (m <sup>3</sup> )
acre-feet (acre-ft)	1233	cubic metres (m <sup>3</sup> )
	$1.233 \times 10^{-3}$	cubic hectometres (hm <sup>3</sup> )
Flow		
cubic feet per second (ft <sup>3</sup> /s)	28.32	litres per second (l/s)
	.02832	cubic metres per second (m <sup>3</sup> /s)
cubic feet per second per square mile [(ft <sup>3</sup> /s)/mi <sup>2</sup> ]	.01093	cubic metres per second per square kilometre [(m <sup>3</sup> /s)/km <sup>2</sup> ]
Mass		
ton (short)	.9072	tonne (t)

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by micro-organisms, such as bacteria.

Cubic feet per second per day ( $\text{ft}^3/\text{s}/\text{day}$ ) 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.

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 ( $\text{ft}^3/\text{s}/\text{mi}^2$ , 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 ( $\text{ft}^3/\text{s}$ , 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.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometre membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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 ( $\text{ft}^3/\text{s}$ )".

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 may include an estimate of that portion of the total drainage area which does not contribute directly to surface runoff.



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 ( $\text{CaCO}_3$ ).

Micrograms per litre ( $\mu\text{g/l}$ ,  $\text{UG/L}$ ) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre ( $\text{mg/l}$ ,  $\text{MG/L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 2, page 8. Concentration of suspended sediment also is expressed in  $\text{mg/l}$ , and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 3, page 8.

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 millimetres (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).

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 distributions 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.

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.

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.

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 litre 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.

Table 2.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to millequivalents per litre

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
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 litre; multiply by factor and divide results by 1,000.

Table 3.--Factors for conversion of sediment concentrations in milligrams per litre to parts per million\*  
(All values calculated to three significant figures)

<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>
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.

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 centimetre 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 litre) 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.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

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 indentation, each indentation 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.

## NUMBERING SYSTEM FOR WELLS

Ground-water wells are listed alphabetically by counties in this report. Each well in Indiana carries dual-identification numbers. The first system is by a county name with a sequential number of the well, that is, number one is the first well in that county for which records were obtained. The second system is based on the latitude and longitude of the well. An additional identification of the well in this system is given following the seconds of longitude. Each well within the boundary of a particular second of latitude and longitude is numbered by tenths of a unit, with the first established well numbered as ".1".

## 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 back 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, and to conditions that affect the natural flow at the gaging station 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.

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 no 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 tables at the end of the surface-water records in this report.

### 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 ft<sup>3</sup>/s; to tenths between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures above 1,000 ft<sup>3</sup>/s. 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, within the format 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 ( $^{\circ}\text{F}$ ). 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 litre (mg/l), and water temperatures are given in degrees Celsius (centigrade,  $^{\circ}\text{C}$ ). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre 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 litre. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 4 on page 18.

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

### Solutes

The methods of collecting and analyzing water samples for determining the kinds of 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.

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 the back of the title page of this report.

Table 4.--Degrees Celcius (°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	40.4	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).

### 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.

PublicationsTable 5.--Water-supply paper numbers and parts, water years,  
1947-67

<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>	<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>
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			

## EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in the nation's most important aquifers.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.



Publications

Publication of ground-water level data for the United States in Water-Supply Papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single Water-Supply Paper for each year covering the entire nation was issued (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate Water-Supply Papers were issued for 6 sections of the United States. Water-level data for Indiana are in the Water-Supply Papers listed below, each report containing one or more calendar years (January-December) of data. Data in this report are for the 12-month water year ending September 30.

<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>
1935	777	1942	944	1949	1156	1956-57	1537
1936	817	1943	986	1950	1165	1958-62	1782
1937	840	1944	1016	1951	1191	1963-67	1977
1938	845	1945	1023	1952	1221	1968-72	2140
1939	886	1946	1071	1953	1265		
1940	906	1947	1096	1954	1321		
1941	936	1948	1126	1955	1404		

Information about reports and other data on ground water in Indiana may be obtained from the district office, at the address given on the back of the title page.

## HYDROLOGIC CONDITIONS

Precipitation totals for the water year were slightly above normal for the state. Distribution of rainfall remained in the same pattern as for the last 4 years but with some relief in the extreme northern part of the state. Reasonably heavy statewide storms occurred only three times during the year. Air temperatures were unseasonably warm throughout the year. Noticeable were the short freezing periods in January and February. Most of the highest flood peaks in the state occurred as a result of the rains of February 22 and 23. Several of the streams in the extreme southern part of the state had their major rise as a result of the rains of April 23 and 24. Although some flood peaks occurred in the last quarter of the year, the majority of rainfall occurred during the middle months.

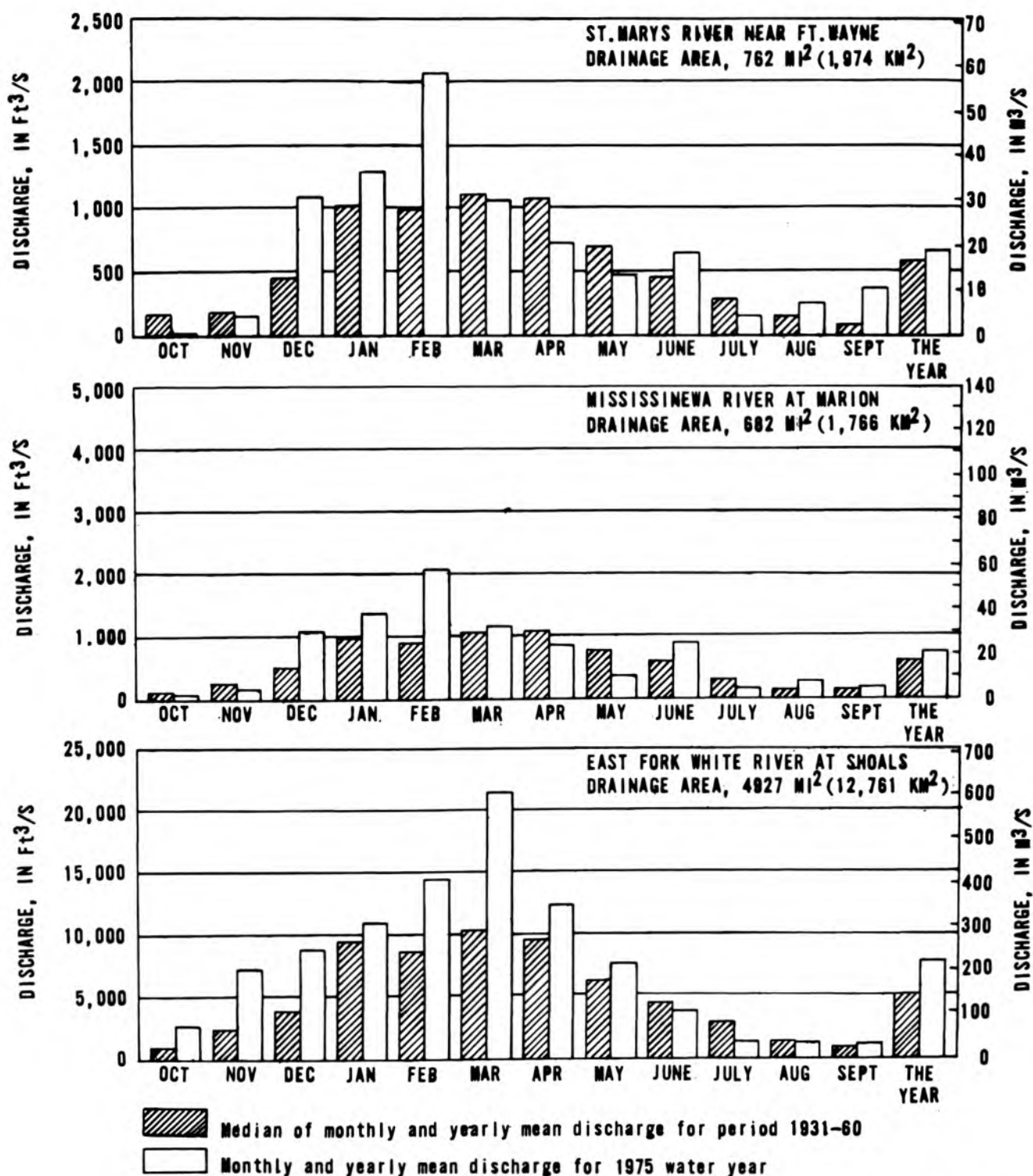
Precipitation averaged about 1 inch below normal throughout the state during October with streamflow reflecting this loss. Precipitation and streamflow returned to normal during November and December with some peaks above base occurring in southern Indiana during the first week of November. Heavy snowfall following Christmas, removed by rainfall early in January, caused some minor flooding in the state with peak discharges for the year recorded in the Kankakee and Calumet River basins.

Unseasonably warm temperatures through January and early February, caused some thawing which maintained streamflow. Heavy precipitation during the period February 22 through 24 produced yearly maximum discharges throughout the state except in the extreme north and south. Almost daily rainfall occurred during March, and was extremely heavy in the southern one-third of the state.

The first 3 weeks of April were dry, but precipitation during the last week caused annual maximum discharges at stations along the Ohio River and the lower Wabash River. Rainfall was absent again until the last of May when isolated storms produced some peaks throughout the state. The last major storm of the year occurred on June 15 and the heaviest concentration was in the middle Wabash and Kankakee River basins.

Summer storms were scattered throughout the state during July and August. Some intensities of 4 to 6 inches were recorded in isolated storms. General showers returned to the state as extremely warm, dry weather broke during the last week of August. Annual low discharges occurred generally at the end of August or during the first week of September. Some peak discharges above base were recorded at the end of August and during the first half of September. Normal seasonal conditions returned by the end of the water year.

## HYDROLOGIC CONDITIONS



Comparison of discharge at three long-term representative gaging stations during 1975 water year with median discharge for period 1931-60

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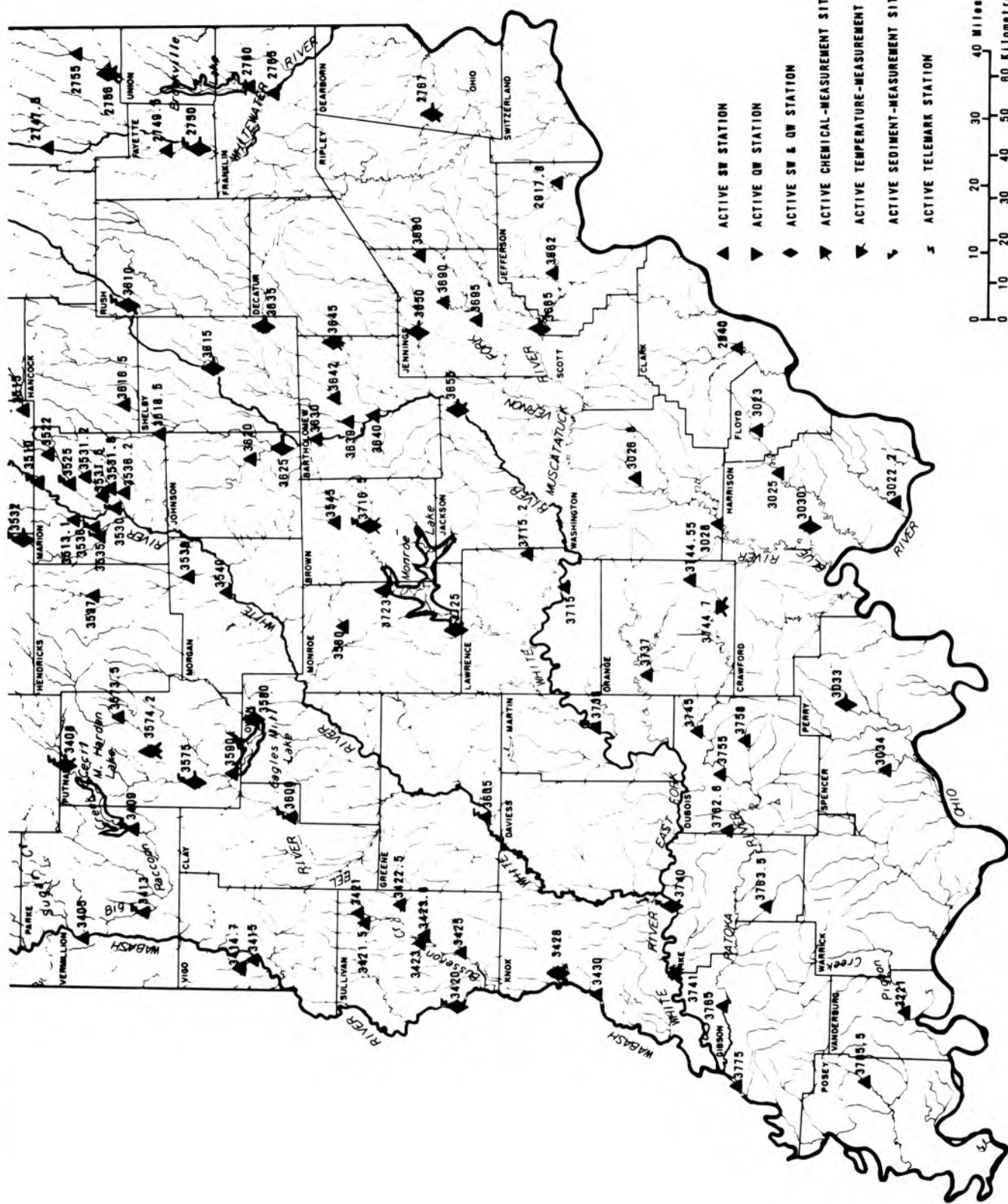


Figure 2.-- Location of stream-flow and water-quality gaging stations in Indiana

03274650 Whitewater River near Economy, Ind.

LOCATION.--Lat 40°00'05", long 85°06'56", in NW¼NE¼ sec.19, T.18 N., R.13 E., Wayne County, on right bank 6 ft (1.8 m) downstream from bridge on Wayne County Line Road, 1.7 miles (2.7 km) upstream from Little Creek, 2.4 miles (3.9 km) northwest of Economy, and at mile 91.9 (147.9 km).

DRAINAGE AREA.--10.4 mi<sup>2</sup> (26.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft (324.917 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 11.5 ft<sup>3</sup>/s (0.326 m<sup>3</sup>/s), 15.02 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 820 ft<sup>3</sup>/s (23.2 m<sup>3</sup>/s), Feb. 23, gage height, 8.00 ft (2.438 m); maximum gage height, 8.13 ft (2.478 m) Apr. 25; minimum daily, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Nov. 3.

Period of record: Maximum discharge 820 ft<sup>3</sup>/s (23.2 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 8.00 ft (2.438 m); maximum gage height, 8.13 ft (2.478 m) Apr. 25, 1975; minimum daily, 0.35 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Nov. 18, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	.50	.96	33	31	23	21	34	9.2	2.3	1.3	.97
2	.81	.46	1.0	14	24	18	18	18	10	2.2	1.2	.91
3	.87	.44	.90	14	20	15	16	14	8.6	2.1	1.2	1.0
4	.87	.69	.88	13	16	14	14	13	6.2	2.1	1.2	2.0
5	.81	1.7	.81	8.9	26	14	13	11	29	4.0	2.7	1.3
6	.87	1.2	.81	8.2	37	14	12	9.5	26	4.7	1.7	3.2
7	.87	.95	2.3	7.4	18	17	12	8.0	8.6	4.5	1.3	1.2
8	.87	.86	23	76	13	16	11	7.5	6.2	4.3	1.1	.97
9	.87	.81	11	75	8.0	14	10	7.2	5.3	2.4	1.1	.91
10	.81	.79	4.4	110	8.5	14	10	6.9	4.8	2.2	1.1	.86
11	.81	.80	3.4	97	9.5	13	10	6.7	11	1.9	1.8	3.6
12	.81	.79	7.2	32	8.9	48	9.8	7.2	9.8	1.7	1.2	3.9
13	.87	.79	12	22	7.8	29	9.5	6.4	6.4	1.7	1.7	1.4
14	1.1	1.0	9.7	13	7.5	20	9.2	6.2	5.1	1.6	3.0	1.0
15	1.2	.99	38	9.6	8.1	17	8.9	5.7	5.3	1.5	1.4	.83
16	.87	.88	34	7.8	21	17	8.6	5.3	4.4	1.5	1.2	.81
17	.81	.82	16	6.2	97	25	8.6	5.1	4.1	1.5	1.2	.75
18	.75	.80	7.9	8.1	56	81	8.6	5.1	3.9	1.5	1.1	.83
19	.70	.99	7.9	8.5	32	104	15	4.8	3.6	1.5	1.1	.81
20	.75	2.0	6.5	6.6	23	41	9.5	4.6	3.3	1.5	1.0	.81
21	.75	1.1	6.0	5.9	16	29	8.9	4.3	3.3	1.4	1.0	.72
22	.70	.97	5.5	5.5	97	23	8.6	5.0	3.1	1.4	1.1	.67
23	.65	.90	11	5.5	449	18	16	4.1	3.0	1.3	1.0	.60
24	.62	1.3	37	7.9	176	24	90	6.7	2.8	1.3	1.0	.60
25	.58	1.4	21	45	67	18	206	8.9	16	1.3	1.0	.62
26	.53	1.2	10	25	42	16	78	9.8	13	1.3	1.1	.63
27	.50	1.1	7.9	9.9	34	15	44	5.7	5.6	1.3	.95	.57
28	.50	.99	6.6	41	29	30	65	4.6	3.7	1.3	.93	.53
29	.52	.92	5.9	211	-----	138	35	4.4	2.6	1.2	1.8	.49
30	.54	.91	5.9	58	-----	42	23	13	2.4	1.2	1.4	.52
31	.51	-----	34	37	-----	28	-----	8.9	-----	1.3	1.0	-----
TOTAL	23.65	29.05	339.46	1,022.0	1,382.3	935	809.2	261.6	226.3	61.0	40.88	34.01
MEAN	.76	.97	11.0	33.0	49.4	30.2	27.0	8.44	7.54	1.97	1.32	1.13
MAX	1.2	2.0	38	211	449	138	206	34	29	4.7	3.0	3.9
MIN	.50	.44	.81	5.5	7.5	13	8.6	4.1	2.4	1.2	.93	.49
CFSM	.07	.09	1.06	3.17	4.75	2.90	2.60	.81	.73	.19	.13	.11
IN.	.08	.10	1.21	3.66	4.94	3.34	2.89	.94	.81	.22	.15	.12

CAL YR 1974 TOTAL 3,498.70 MEAN 9.59 MAX 145 MIN .44 CFSM .92 IN 12.51  
WTR YR 1975 TOTAL 5,164.45 MEAN 14.1 MAX 449 MIN .44 CFSM 1.36 IN 18.47

PEAK DISCHARGE (BASE, 200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-08	2300	5.05	205	02-23	0300	8.00	820
01-10	2200	5.38	253	03-29	0300	5.75	271
01-28	2400	6.93	555	04-25	1000	8.13	785

03274750 Whitewater River near Hagerstown, Ind.

LOCATION.--Lat 39°52'25", long 85°09'47", in NE¼NE¼ sec.3, T.16 N., R.12 E., Wayne County, on left bank at downstream side of bridge on Jerry Meyers Road, 1.0 mile (1.6 km) upstream from Pronghorn Run, 1.5 miles (2.4 km) north of Interstate 70, 2.0 miles (3.2 km) downstream from Nettle Creek, 2.6 miles (4.2 km) south of Hagerstown, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--58.7 mi<sup>2</sup> (152.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--5 years, 71.3 ft<sup>3</sup>/s (2.019 m<sup>3</sup>/s), 16.49 in/yr (419 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft<sup>3</sup>/s (64.6 m<sup>3</sup>/s) Feb. 23, gage height, 10.87 ft (3.313 m); minimum daily, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Sept. 29.

Period of record: Maximum discharge, 2,280 ft<sup>3</sup>/s (64.6 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 10.87 ft (3.313 m); minimum daily, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Aug. 29-31, Sept. 5, 19, 1971, Sept. 29, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	23	146	185	129	121	263	67	30	23	16
2	19	13	23	72	138	115	110	146	67	29	20	15
3	19	13	22	74	122	106	104	127	66	28	22	16
4	19	26	21	70	109	100	91	120	58	32	22	18
5	18	28	20	57	123	96	86	103	95	27	21	17
6	18	23	19	55	178	93	83	94	127	31	24	19
7	18	21	32	51	106	103	81	83	65	30	19	18
8	18	20	115	190	90	95	78	79	56	32	18	17
9	18	18	73	318	73	88	76	75	53	28	19	15
10	17	17	51	451	75	89	74	71	50	26	17	14
11	17	20	45	505	78	85	72	69	66	25	36	22
12	16	18	52	134	77	320	70	76	68	23	30	35
13	16	19	61	94	70	149	67	68	54	24	22	20
14	18	21	57	78	68	110	68	65	50	25	26	17
15	22	19	143	69	69	101	67	65	51	23	23	15
16	17	18	122	65	119	98	66	61	49	22	19	15
17	16	17	72	60	448	163	65	58	47	55	18	14
18	16	18	57	69	246	435	66	57	45	37	19	15
19	16	19	54	69	141	541	109	56	43	30	18	15
20	15	35	47	59	108	186	72	55	41	27	17	15
21	15	25	45	56	94	140	67	52	38	26	16	14
22	16	22	42	54	299	123	66	59	36	25	16	13
23	16	20	49	53	1,880	104	96	53	36	24	14	12
24	16	33	140	70	835	239	746	55	35	23	13	12
25	16	31	90	199	291	119	883	80	34	22	14	12
26	14	27	60	111	197	99	392	78	49	20	14	13
27	14	25	53	71	168	94	223	61	38	19	13	12
28	15	23	48	147	150	184	826	55	34	20	13	12
29	16	21	45	1,330	-----	828	223	53	31	19	18	11
30	16	21	44	275	-----	210	159	130	31	18	22	12
31	15	-----	159	232	-----	145	-----	69	-----	19	17	-----
TOTAL	521	645	1,884	5,284	6,537	5,487	5,307	2,536	1,580	819	603	471
MEAN	16.8	21.5	60.8	170	233	177	177	81.8	52.7	26.4	19.5	15.7
MAX	22	35	159	1,330	1,880	828	883	263	127	55	36	35
MIN	14	13	19	51	68	85	65	52	31	18	13	11
CFSM	.29	.37	1.04	2.90	3.97	3.02	3.02	1.39	.90	.45	.33	.27
IN.	.33	.41	1.19	3.35	4.14	3.48	3.36	1.61	1.00	.52	.38	.30

CAL YR 1974 TOTAL 24,207 MEAN 66.3 MAX 869 MIN 13 CFSM 1.13 IN 15.34  
WTR YR 1975 TOTAL 31,674 MEAN 86.8 MAX 1,880 MIN 11 CFSM 1.48 IN 20.07

PEAK DISCHARGE (BASE, 900 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2400	7.53	1,160	04-24	0700	8.20	1,210
01-29	0700	9.99	1,950	04-25	1800	9.53	1,780
02-23	0600	10.87	2,280	04-28	0400	8.86	1,560
03-29	0700	8.49	1,290				



## GREAT MIAMI RIVER BASIN

03274950 Little Williams Creek at Connersville, Ind.

LOCATION.--Lat 39°38'16", long 85°10'20", in SW¼NE¼ sec.27, T.14 N., R.12 E., Fayette County, on downstream left bank wingwall of bridge on State Highway 44, 1 mile (2 km) west of Connersville, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--9.16 mi<sup>2</sup> (23.72 km<sup>2</sup>).

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 842.00 ft (256.642 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 10.03 ft<sup>3</sup>/s (0.284 m<sup>3</sup>/s), 14.87 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 865 ft<sup>3</sup>/s (24.5 m<sup>3</sup>/s) Feb. 23, gage height, 6.57 ft (2.003 m); minimum daily, 0.37 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 3,560 ft<sup>3</sup>/s (101 m<sup>3</sup>/s) June 22, 1974, gage height, 10.13 ft (3.088 m); minimum daily, 0.37 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Sept. 9, 10, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.0	5.9	23	23	16	21	19	5.7	1.4	.43	.60
2	2.7	3.0	5.7	17	17	14	20	16	18	1.5	.45	.51
3	2.7	3.1	5.2	20	15	13	18	15	7.1	1.3	1.2	.46
4	2.8	22	5.1	18	15	12	15	15	5.0	1.3	1.1	.42
5	2.7	12	4.9	14	15	12	14	13	5.8	1.4	1.1	.39
6	2.6	7.7	4.9	13	16	12	13	12	4.5	1.3	1.1	.42
7	2.4	5.7	14	12	12	14	13	11	3.7	2.4	.82	.42
8	2.5	5.0	33	25	12	11	12	10	3.4	1.7	.67	.39
9	2.6	4.5	19	24	10	10	12	9.6	3.2	1.4	.62	.37
10	2.5	4.5	13	54	11	11	12	8.7	3.1	1.4	.67	.37
11	2.5	5.0	11	42	11	11	11	8.7	7.4	1.3	38	1.9
12	2.8	4.5	12	18	18	79	10	11	4.5	1.1	5.3	1.3
13	3.0	4.2	11	14	12	26	9.6	8.7	3.4	1.6	.93	.62
14	3.3	5.3	11	12	11	20	9.6	8.3	3.1	1.6	3.2	.52
15	5.6	5.0	25	11	12	18	9.6	7.9	3.6	1.1	2.6	.49
16	3.5	4.5	21	11	15	19	9.1	7.1	3.1	1.0	.91	.57
17	3.3	4.5	15	9.8	18	57	12	6.7	3.0	.93	.79	.60
18	3.1	4.2	12	19	17	52	9.6	6.3	2.8	1.4	.76	.84
19	3.1	4.2	12	14	14	45	14	6.0	2.5	1.4	.62	.94
20	3.0	4.7	11	12	12	24	9.1	5.3	2.2	1.0	.57	1.5
21	2.8	4.2	11	11	12	20	8.7	5.3	2.1	.90	.52	.82
22	2.9	4.0	10	11	20	18	7.9	6.0	1.9	.74	.47	.71
23	3.0	4.1	10	11	412	16	20	5.0	1.9	.71	.45	.70
24	3.1	6.4	18	11	59	29	57	4.7	1.9	.76	.46	.83
25	3.1	6.5	15	15	25	18	44	4.5	1.8	.66	.43	.89
26	3.0	5.5	12	13	25	15	27	5.0	2.0	.60	.45	.86
27	2.9	5.3	11	11	21	15	26	5.7	2.0	.55	.43	.81
28	2.9	4.8	11	12	19	79	36	4.0	1.9	.49	.38	.75
29	3.1	4.5	10	26	-----	80	23	4.0	1.7	.42	.48	.73
30	3.6	4.9	9.6	17	-----	30	21	4.2	1.5	.43	.73	.74
31	3.1	-----	28	40	-----	23	-----	6.7	-----	.41	.60	-----
TOTAL	93.5	166.8	397.3	560.8	879	819	524.2	260.4	113.8	34.20	67.24	21.47
MEAN	3.02	5.56	12.8	18.1	31.4	26.4	17.5	8.40	3.79	1.10	2.17	.72
MAX	5.6	22	33	54	412	80	57	19	18	2.4	38	1.9
MIN	2.4	3.0	4.9	9.8	10	10	7.9	4.0	1.5	.41	.38	.37
CFSM	.33	.61	1.40	1.98	3.43	2.88	1.91	.92	.41	.12	.24	.08
IN.	.38	.68	1.61	2.28	3.57	3.33	2.13	1.06	.46	.14	.27	.09

CAL YR 1974 TOTAL 4.286.30 MEAN 11.7 MAX 521 MIN 1.1 CFSM 1.28 IN 17.41  
WTR YR 1975 TOTAL 3.937.71 MEAN 10.8 MAX 412 MIN .37 CFSM 1.18 IN 15.99

PEAK DISCHARGE (BASE, 180 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1400	4.35	230	03-12	0600	4.44	248
01-10	2100	4.64	291	03-28	2000	4.37	234
02-23	0300	6.57	865	08-11	2100	4.71	308

## 03275000 Whitewater River near Alpine, Ind.

LOCATION.--Lat 39°34'23", long 85°09'27", in SW¼SE¼ sec.14; T.13 N., R.12 E., Fayette County, on right bank 500 ft (152 m) downstream from highway bridge, 0.4 mile (0.6 km) downstream from Wilson Creek, 1.6 miles (2.6 km) northeast of Alpine, 4.6 miles (7.4 km) (revised) upstream from Bear Creek, and at mile 54.3 (87.4 km).

DRAINAGE AREA.--529 mi<sup>2</sup> (1,370 km<sup>2</sup>).

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

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft (228.658 m) above mean sea level. Prior to Nov. 9, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 544 ft<sup>3</sup>/s (15.41 m<sup>3</sup>/s), 13.96 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,300 ft<sup>3</sup>/s (575 m<sup>3</sup>/s) Feb. 23, gage height, 14.96 ft (4.560 m); minimum daily, 87 ft<sup>3</sup>/s (2.46 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 37,100 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) Jan. 14, 1937, gage height, 16.61 ft (5.063 m); minimum daily 30 ft<sup>3</sup>/s (0.85 m<sup>3</sup>/s) Aug. 6, 1934.

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	155	247	1,770	2,160	1,370	1,270	1,880	486	194	174	104
2	196	155	247	1,000	1,410	1,150	1,080	1,710	464	190	145	100
3	183	152	238	798	1,130	983	1,020	1,370	507	184	126	97
4	179	315	234	853	977	878	908	1,260	399	187	139	94
5	176	351	226	676	914	825	825	1,080	325	187	132	94
6	170	277	226	593	1,250	792	792	958	819	184	126	100
7	170	247	296	552	1,010	825	759	846	587	194	126	92
8	170	226	1,180	884	785	785	726	753	413	198	117	92
9	167	218	1,280	2,480	658	676	695	691	367	187	112	87
10	167	211	664	2,070	575	670	652	633	340	174	112	87
11	152	203	496	4,270	593	599	634	592	351	170	189	126
12	158	214	448	1,770	733	2,590	605	648	428	164	183	180
13	155	207	575	1,090	587	1,850	593	590	408	161	142	129
14	161	218	605	839	523	1,230	593	531	354	164	158	112
15	179	218	798	720	512	1,000	587	503	340	161	170	104
16	170	214	1,700	646	714	951	557	476	349	154	139	104
17	173	207	1,000	569	1,460	1,360	587	448	322	151	120	104
18	167	207	714	720	2,500	3,210	552	429	308	158	117	112
19	161	207	605	759	1,460	4,530	812	413	287	167	114	114
20	158	207	529	617	1,030	2,260	726	394	279	161	110	112
21	158	242	496	540	853	1,440	593	365	283	154	107	102
22	158	230	469	518	1,140	1,130	546	407	259	148	104	102
23	158	214	458	507	11,900	1,090	772	386	243	145	102	102
24	158	230	902	507	12,200	3,070	4,070	343	223	145	100	104
25	158	320	1,130	860	3,860	1,810	3,960	345	235	139	97	102
26	155	301	752	1,310	2,470	1,140	4,960	399	239	129	94	102
27	152	273	587	792	1,910	983	2,280	420	243	123	94	100
28	155	255	512	652	1,620	1,360	5,990	338	227	123	92	94
29	155	238	469	4,560	-----	5,230	3,260	333	212	120	97	97
30	161	234	453	4,200	-----	2,840	2,080	425	201	114	126	94
31	158	-----	622	2,520	-----	1,630	-----	522	-----	114	114	-----
TOTAL	5,152	6,946	19,158	40,642	56,934	50,257	43,484	20,488	10,498	4,944	3,878	3,143
MEAN	166	232	618	1,311	2,033	1,621	1,449	661	350	159	125	105
MAX	214	351	1,700	4,560	12,200	5,230	5,990	1,880	819	198	189	180
MIN	152	152	226	507	512	599	546	333	201	114	92	87
CFSM	.31	.44	1.17	2.48	3.84	3.06	2.74	1.25	.66	.30	.24	.20
IN.	.36	.49	1.35	2.86	4.00	3.53	3.06	1.44	.74	.35	.27	.22
CAL YR 1974	TOTAL 226,976	MEAN 622	MAX 7,460	MIN 152	CFSM 1.18	IN 15.96						
WTR YR 1975	TOTAL 265,524	MEAN 727	MAX 12,200	MIN 87	CFSM 1.37	IN 18.67						

PEAK DISCHARGE (BASE, 6,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-29	2400	14.47	16,800	04-28	1500	12.09	9,300
02-23	2300	14.96	20,300				

## GREAT MIAMI RIVER BASIN

03275000 Whitewater River near Alpine, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT 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. 16...	1740	4.5	1480	207	865	--	--	--
APR. 24...	1530	--	4880	993	13100	37	49	60
JUNE 19...	1505	--	247	49	32	--	--	--

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC. 16...	--	--	--	--	--	--	--	--
APR. 24...	77	77	81	81	83	87	91	100
JUNE 19...	--	--	--	--	--	--	--	--

03275500 East Fork Whitewater River at Richmond, Ind.

LOCATION.--Lat 39°48'24", long 84°54'26", in NW¼SW¼ sec.8, T.13 N., R.1 W., Wayne County, on left bank 50 ft (15 m) downstream from highway bridge, 0.8 mile (1.3 km) south of Richmond, 1.5 miles (2.4 km) upstream from Short Creek, and at mile 33.4 (53.7 km).

DRAINAGE AREA.--121 mi<sup>2</sup> (313 km<sup>2</sup>).

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.01 ft (260.302 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 27, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 119 ft<sup>3</sup>/s (3.370 m<sup>3</sup>/s), 13.36 in/yr (339 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,510 ft<sup>3</sup>/s (184 m<sup>3</sup>/s) Feb. 23, gage height, 9.50 ft (2.896 m); minimum daily, 9.8 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Aug. 28.

Period of record: Maximum discharge, 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) July 20, 1969, gage height, 12.68 ft (3.865 m), from rating curve extended above 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow at stage of 12.44 ft (3.792 m); minimum daily, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Aug. 1, 1954.

Flood in March 1913 reached a stage of 15.0 ft (4.572 m), discharge not determined, from floodmarks.

REMARKS.--Records good. Some regulation at low flow by powerplant upstream from station. Natural flow also affected by diversion of municipal water supply by City of Richmond.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	21	56	417	494	225	240	347	78	26	20	15
2	26	21	51	200	311	199	206	273	76	24	16	15
3	24	21	42	172	239	179	189	221	74	23	22	16
4	23	96	38	189	197	164	164	203	66	33	20	17
5	21	74	37	140	168	155	149	176	115	25	19	18
6	20	47	37	118	275	149	141	158	181	25	18	15
7	20	34	74	105	188	170	135	138	102	32	17	13
8	20	32	421	319	137	158	125	128	75	32	16	11
9	21	29	357	590	117	141	117	120	65	26	15	11
10	20	27	186	481	104	149	114	112	58	24	15	11
11	20	33	132	898	100	138	104	104	109	23	32	66
12	20	31	145	373	110	515	99	133	103	23	22	39
13	21	30	253	206	88	374	97	109	75	29	32	20
14	20	36	237	146	80	252	93	97	63	25	32	17
15	31	35	304	119	84	214	93	90	63	23	20	15
16	25	32	438	103	201	203	88	86	58	22	16	16
17	23	29	233	94	471	273	86	82	51	35	15	16
18	21	28	152	126	529	780	88	80	49	25	15	22
19	21	28	131	164	301	993	141	74	46	24	14	19
20	21	38	103	110	188	423	104	70	41	23	13	24
21	21	37	95	88	152	300	88	65	42	22	13	17
22	20	32	85	81	234	256	84	70	47	19	13	16
23	20	30	92	79	4,620	214	203	63	60	18	12	16
24	22	50	336	95	2,490	475	1,260	70	37	18	11	26
25	20	65	272	306	608	316	1,650	67	34	18	10	19
26	20	53	156	339	388	214	880	84	34	17	10	19
27	20	54	117	160	308	189	398	70	32	17	11	19
28	20	50	98	137	260	295	639	58	32	15	9.8	17
29	20	44	87	2,110	-----	1,510	393	125	30	15	26	16
30	23	42	85	620	-----	475	278	95	28	15	22	16
31	22	-----	161	534	-----	300	-----	88	-----	17	15	-----
TOTAL	675	1,179	5,011	9,619	13,442	10,398	8,446	3,656	1,924	713	541.8	577
MEAN	21.8	39.3	162	310	480	335	282	118	64.1	23.0	17.5	19.2
MAX	31	96	438	2,110	4,620	1,510	1,650	347	181	35	32	66
MIN	20	21	37	79	80	138	84	58	28	15	9.8	11
CFSM	.18	.32	1.34	2.56	3.97	2.77	2.33	.98	.53	.19	.14	.16
IN.	.21	.36	1.54	2.96	4.13	3.20	2.60	1.12	.59	.22	.17	.18

CAL YR 1974 TOTAL 40,610.0 MEAN 111 MAX 1,380 MIN 14 CFSM .92 IN 12.49  
WTR YR 1975 TOTAL 56,181.8 MEAN 154 MAX 4,620 MIN 9.8 CFSM 1.27 IN 17.27

PEAK DISCHARGE (BASE, 2,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-29	0900	6.38	2,960	03-29	0800	5.73	2,480
02-23	0600	9.50	6,510	04-25	1700	6.89	3,370

## GREAT MIAMI RIVER BASIN

03275600 East Fork Whitewater River at Abington, Ind.

LOCATION.--Lat 39°43'57", long 84°57'35", in NE¼SW¼ sec.2, T.12 N., R.2 W., First principal meridian, Wayne County (revised), at downstream side of center pier of bridge on county road at Abington, 3 miles (5 km) downstream from Elkhorn Creek, 8 miles (13 km) southwest of Richmond, and at mile 26.7 (43.0 km).

DRAINAGE AREA.--200 mi<sup>2</sup> (518 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1965 to current year.

CHEMICAL ANALYSES: October 1969 to current year.

WATER TEMPERATURE: August 1970 to September 1971, March 1973 to current year.

SEDIMENT DISCHARGE: April 1967 to current year (partial-record station).

GAGE.--Water-stage recorder and temperature recorder. Datum of gage is 791.00 ft (241.097 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 237 ft<sup>3</sup>/s (6.712 m<sup>3</sup>/s), 16.09 in/yr (409 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	51	115	718	933	404	432	626	162	50	35	30
2	63	51	118	374	588	353	372	549	153	46	45	30
3	58	51	103	342	451	315	342	454	165	43	42	28
4	55	283	95	346	386	284	291	430	132	61	46	47
5	51	245	90	265	365	268	264	364	164	46	38	30
6	48	137	91	233	491	257	247	330	292	46	38	37
7	48	100	172	207	350	297	235	290	186	50	34	26
8	48	84	830	544	270	270	222	265	135	59	31	24
9	49	76	659	1,090	240	236	210	247	116	49	30	23
10	48	70	399	938	220	254	204	228	106	45	29	22
11	47	83	250	2,100	210	233	191	213	196	42	55	134
12	46	82	264	682	230	1,150	180	262	188	40	59	134
13	45	76	408	450	180	747	169	221	138	46	36	50
14	47	90	392	310	170	476	166	197	114	54	109	36
15	87	84	548	250	190	386	168	187	114	41	51	33
16	61	77	778	220	383	371	159	177	108	39	38	33
17	54	72	429	196	757	621	154	167	99	55	34	32
18	50	70	305	275	548	1,480	155	162	93	61	39	43
19	48	69	267	312	808	1,950	226	153	89	49	33	41
20	47	89	218	234	371	784	177	143	82	45	29	55
21	47	87	198	203	303	526	153	132	88	43	28	38
22	48	77	179	168	543	442	149	143	74	38	28	34
23	47	70	180	168	7,870	359	322	128	113	36	26	33
24	52	119	570	192	5,290	680	2,420	128	80	36	20	53
25	50	155	506	463	1,280	516	2,620	121	69	34	21	41
26	48	123	318	512	744	347	1,710	122	72	32	22	38
27	46	116	243	286	571	305	728	167	72	30	21	36
28	47	106	204	257	474	580	2,650	113	63	30	21	33
29	48	92	180	3,260	-----	2,830	858	198	58	28	22	32
30	54	89	172	1,150	-----	917	609	191	54	28	63	31
31	53	-----	320	1,060	-----	546	-----	167	-----	30	31	-----
TOTAL	1,613	2,974	9,601	17,805	25,216	19,184	16,783	7,275	3,575	1,332	1,154	1,257
MEAN	52.0	99.1	310	574	901	619	559	235	119	43.0	37.2	41.9
MAX	87	283	830	3,260	7,870	2,830	2,650	626	292	61	109	134
MIN	45	51	90	168	170	233	149	113	54	28	20	22
CFSM	.26	.50	1.55	2.87	4.51	3.10	2.80	1.18	.60	.22	.19	.21
IN.	.30	.55	1.79	3.31	4.69	3.57	3.12	1.35	.66	.25	.21	.23

CAL YR 1974 TOTAL 85,413 MEAN 234 MAX 2,880 MIN 36 CFSM 1.17 IN 15.89  
WTR YR 1975 TOTAL 107,764 MEAN 295 MAX 7,870 MIN 20 CFSM 1.48 IN 20.05

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0500	8.28	2,950	03-29	1000	9.43	4,130
01-29	1200	9.78	4,530	04-25	2000	10.24	5,080
02-24	0100	13.56	9,280	04-28	0300	11.19	6,220
03-19	0300	8.06	2,750				



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

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 9,280 ft<sup>3</sup>/s (263 m<sup>3</sup>/s) Feb. 24, gage height, 13.56 ft (4.133 m); minimum daily, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Aug. 24.

Period of record: Maximum discharge, 13,400 ft<sup>3</sup>/s (379 m<sup>3</sup>/s) July 20, 1969, gage height, 16.18 ft (4.932 m); minimum daily, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Aug. 24, 1975.

WATER TEMPERATURE, Current year: Maximum temperature, 27.0°C Aug. 23-25; minimum, 0.5°C Feb. 9-10.

Period of record: Maximum temperature, 27.5°C July 9, 1973; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good.

REVISIONS.--WSP 2108: Drainage area.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	COLOR (PLAT- INUM- COBALT UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 04...	1045	10.0	54	3	760	7.8	8.5	274	334	0
NOV. 10...	1615	10.0	69	4	720	8.1	4.4	283	345	0
DEC. 14...	1515	6.0	371	6	560	8.2	2.9	236	288	0
JAN. 19...	1545	3.0	316	7	570	8.0	4.7	240	292	0
FEB. 23...	1415	8.0	7310	50	300	7.7	4.7	121	147	0
MAR. 22...	1630	11.0	442	16	580	7.9	5.6	229	279	0
APR. 27...	1130	11.0	672	30	510	7.3	19	196	239	0
MAY 27...	1745	23.0	127	6	605	7.8	7.4	240	292	0
JULY 02...	1200	24.0	46	2	700	7.9	6.2	252	307	0
AUG. 07...	1645	22.5	31	2	718	8.0	4.9	249	304	0
SEP. 02...	1715	24.0	32	2	800	8.3	2.3	237	289	0

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT. 04...	.07	2.9	3.0	1.8	.64	.60	330	54	87	27
NOV. 10...	.06	2.0	2.1	1.3	.43	.41	330	49	85	29
DEC. 14...	.01	3.6	3.6	.28	.16	.09	300	61	76	26
JAN. 19...	.02	3.5	3.5	.43	.20	.14	290	55	75	26
FEB. 23...	.03	2.5	2.5	.18	.73	.06	140	23	36	13
MAR. 22...	.03	3.5	3.5	.12	.10	.04	290	65	75	26
APR. 27...	.04	4.0	4.0	.18	.19	.06	250	52	63	22
MAY 27...	.08	2.7	2.8	.25	.14	.08	300	64	77	27
JULY 02...	.04	3.1	3.1	.61	.23	.20	310	58	78	28
AUG. 07...	.04	2.7	2.7	.74	.27	.24	310	63	74	31
SEP. 02...	.04	4.6	4.6	.89	.36	.29	320	86	80	30

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT. 04...	30	.7	16	3.4	46	59	.8	7.8	160	60
NOV. 10...	26	.6	14	3.6	38	56	.1	6.3	240	20
DEC. 14...	11	.3	7	1.8	25	51	.1	6.0	530	40
JAN. 19...	17	.4	11	2.5	27	49	.3	6.8	700	60
FEB. 23...	4.2	.2	6	3.0	9.3	24	.3	4.6	14000	60
MAR. 22...	10	.3	7	2.1	22	47	.3	6.4	860	40
APR. 27...	7.1	.2	6	2.0	15	40	.3	6.5	2200	40
MAY 27...	13	.3	8	2.9	24	51	.2	5.8	460	50
JULY 02...	30	.7	17	3.7	46	63	.6	6.8	460	30
AUG. 07...	34	.8	19	4.3	48	62	.6	7.0	420	20
SEP. 02...	33	.8	18	5.2	46	63	.7	7.0	480	70

DATE	SUS- PENDE D MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT. 04...	10	70	60	450	441	65.6	.61	13	.23
NOV. 10...	0	70	80	444	425	82.7	.60	9.0	.20
DEC. 14...	20	60	40	386	355	387	.53	16	.03
JAN. 19...	0	30	190	389	364	332	.53	15	.07
FEB. 23...	420	430	10	157	178	3100	.21	11	.10
MAR. 22...	40	60	20	356	342	425	.48	15	.10
APR. 27...	60	80	20	350	292	635	.48	18	.13
MAY 27...	30	50	20	393	358	135	.53	12	.26
JULY 02...	10	40	30	438	422	54.4	.60	14	.13
AUG. 07...	20	40	20	484	424	40.5	.66	12	.13
SEP. 02...	10	50	40	488	429	42.2	.66	20	.13

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	17.0	16.5	4.0	4.0	4.5	4.0	5.0	60.0	6.0	5.0
2	13.0	11.5	18.0	17.0	4.0	3.5	4.0	3.5	5.5	4.0	5.0	4.0
3	11.5	10.5	18.0	16.5	3.5	3.0	3.5	3.0	5.0	3.5	4.5	4.0
4	11.5	11.0	16.5	14.5	3.5	2.0	3.5	3.0	4.5	4.0	5.0	4.0
5	13.0	11.5	14.5	13.0	3.0	2.0	4.0	3.0	6.0	4.5	6.0	5.0
6	14.5	13.0	13.0	11.5	3.0	1.5	4.0	4.0	5.5	3.0	8.0	6.0
7	14.5	14.0	11.5	11.0	3.0	2.0	4.5	4.0	3.0	1.5	8.5	7.0
8	14.0	13.0	11.0	10.0	3.5	3.0	5.5	5.0	3.0	1.5	7.0	6.0
9	13.5	13.0	11.5	10.0	3.5	3.0	8.0	7.0	2.0	0.5	6.5	5.0
10	13.5	13.0	12.0	10.5	3.0	3.0	9.0	7.0	2.0	0.5	6.5	5.5
11	14.0	13.0	12.0	10.0	3.5	3.0	10.0	4.5	4.5	1.5	7.0	6.0
12	14.0	14.0	10.0	9.0	4.5	3.5	4.5	3.0	4.0	2.0	7.0	6.0
13	15.0	14.0	9.0	8.0	5.5	4.5	3.0	2.0	3.5	1.5	6.5	6.0
14	15.5	15.0	8.5	7.0	6.0	5.0	2.0	1.5	4.5	2.0	6.0	3.5
15	15.5	14.5	8.5	8.0	5.5	4.5	1.5	1.5	6.0	4.5	6.0	3.5
16	14.5	13.5	8.0	7.0	4.5	3.5	1.5	1.5	6.0	5.0	7.0	5.5
17	13.5	13.0	9.0	7.0	4.0	3.5	2.0	1.5	6.5	5.0	8.5	6.5
18	13.5	12.0	9.5	9.0	3.5	3.0	3.5	2.0	5.5	5.0	9.0	6.5
19	12.0	11.0	11.0	10.0	3.5	3.0	3.5	1.5	5.5	4.5	8.5	8.0
20	11.0	10.5	11.5	10.5	4.5	3.5	3.0	1.0	6.5	4.0	10.0	8.0
21	10.5	9.5	11.5	10.0	5.0	4.5	3.0	1.0	7.0	4.0	11.0	9.0
22	10.0	9.0	10.0	8.5	5.5	4.5	4.5	3.0	8.0	5.5	11.0	10.5
23	12.0	10.0	8.5	7.0	6.5	5.5	4.5	4.0	9.0	8.0	11.5	9.5
24	14.5	12.0	9.5	8.5	8.0	5.0	5.0	3.0	9.0	7.0	13.0	11.5
25	15.0	14.5	9.0	8.0	5.0	4.0	5.0	3.5	7.0	6.0	12.0	9.0
26	14.5	13.0	6.5	6.5	4.0	3.5	3.5	1.5	6.0	5.0	9.0	8.0
27	13.0	12.0	5.5	5.0	4.0	3.5	3.5	1.0	6.0	5.0	8.5	6.0
28	13.0	11.5	5.0	4.5	3.5	3.0	5.5	3.5	6.0	5.5	6.5	6.0
29	14.0	13.0	4.5	4.0	3.5	3.0	6.0	4.5	---	---	7.0	6.0
30	15.5	14.0	4.5	4.0	4.0	3.5	5.5	4.5	---	---	7.0	6.0
31	16.5	15.0	---	---	4.5	4.0	5.0	4.0	---	---	9.5	5.5
MONTH	16.5	9.0	18.0	4.0	8.0	1.5	10.0	1.0	9.0	0.5	13.0	3.5

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

YEAR	27.0	0.5
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## GREAT MIAMI RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE 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
OCT. 04...	1045	10.0	53	2	2.9	--	--	--
NOV. 10...	1615	10.0	68	70	13	--	--	--
DEC. 14...	1515	6.0	371	27	27	--	--	--
JAN. 19...	1545	3.0	316	16	14	--	--	--
FEB. 23...	1315	80.0	8020	810	17500	49	57	66
MAR. 22...	1630	11.0	442	62	74	--	--	--
APR. 27...	1130	11.0	672	114	207	--	--	--
MAY 27...	1745	23.0	127	34	12	--	--	--
JULY 02...	1200	24.0	45	64	7.9	--	--	--
SEP. 02...	1715	24.0	32	16	1.4	--	--	--

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. 04...	--	--	--	--	--	--	--
NOV. 10...	--	--	--	--	--	--	--
DEC. 14...	--	--	--	--	--	--	--
JAN. 19...	--	--	--	--	--	--	--
FEB. 23...	74	83	85	85	88	91	100
MAR. 22...	--	--	--	--	--	--	--
APR. 27...	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--
JULY 02...	--	--	--	--	--	--	--
SEP. 02...	--	--	--	--	--	--	--

## GREAT MIAMI RIVER BASIN

41

03275990 Brookville Lake at Brookville, Ind.

LOCATION.--Lat 39°26'27", long 85°00'10", in NE¼SE¼ sec.17, T.9 N., R.2 W., Franklin County, in discharge tower of reservoir on East Fork Whitewater River, 1.4 miles (2.3 km) northeast of Brookville, and 2.2 miles (3.5 km) above mouth.

DRAINAGE AREA.--379 mi<sup>2</sup> (982 km<sup>2</sup>).

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 200,260 acre-ft (247 hm<sup>3</sup>) Apr. 28, elevation, 751.01 ft (228.908 m); minimum, 144,770 acre-ft (178 hm<sup>3</sup>) Dec. 22, elevation, 739.96 ft (225.540 m).

Period of record: Maximum contents, 200,260 acre-ft (247 hm<sup>3</sup>) Apr. 28, 1975, elevation, 751.01 ft (228.908 m); minimum, 144,770 acre-ft (178 hm<sup>3</sup>) Dec. 22, 1974, elevation, 739.96 ft (225.540 m).

REMARKS.--Reservoir is formed by earth and rock-fill dam. Releases normally controlled by two gates, 5.25 ft (1.60 m) wide and 12 ft (3.66 m) high, in circular conduit through dam. Minimum design capacity is 55,600 acre-ft (68.6 hm<sup>3</sup>), elevation, 713 ft (217.3 m). Seasonal pool capacity is 184,000 acre-ft (227 hm<sup>3</sup>), elevation, 748 ft (228.0 m). Capacity at uncontrolled spillway is 359,600 acre-ft (443 hm<sup>3</sup>), elevation, 775 ft (236.2 m). Reservoir is used for flood control and recreation. Reservoir was put in operation on January 22, 1974.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, January 22, 1974 to September 30, 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Jan. 22.....	641.40	95	-
Jan. 31.....	692.11	20,110	+20,010
Feb. 28.....	709.04	47,220	+27,110
Mar. 31.....	721.25	76,530	+29,310
Apr. 30.....	732.98	115,590	+39,060
May 31.....	739.08	140,840	+25,250
June 30.....	746.16	174,500	+33,660
July 31.....	746.83	177,920	+3,420
Aug. 31.....	748.05	184,270	+6,350
Sept. 30.....	747.90	183,490	-780
Oct. 31.....	745.04	168,850	-14,640
Nov. 30.....	740.16	145,670	-23,180
Dec. 31.....	740.21	145,900	+230
Jan. 22 to Dec. 31, 1974.....	-	-	+145,800
Jan. 31.....	740.86	148,860	+2,960
Feb. 28.....	749.90	194,180	+45,320
Mar. 31.....	746.95	178,590	-15,590
Apr. 30.....	749.41	191,530	+12,940
May 31.....	748.24	185,280	-6,250
June 30.....	748.07	184,380	-900
July 31.....	747.73	182,600	-1,780
Aug. 31.....	748.10	184,540	+1,940
Sept. 30.....	747.10	179,160	-5,380
Water year 1975.....	-	-	-4,330



## GREAT MIAMI RIVER BASIN

03276000 East Fork Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°26'02", long 85°00'12", in NE¼NE¼ sec.20, T.9 N., R.2 W., Franklin County, on right bank 100 ft (30 m) upstream from bridge on State Highway 101, at Brookville, 0.4 mile (0.6 km) downstream from Brookville Lake, and 1.8 miles (2.9 km) upstream from mouth.

DRAINAGE AREA.--380 mi<sup>2</sup> (984 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: March 1954 to current year.

CHEMICAL ANALYSES: October 1974 to current year.

WATER TEMPERATURE: October 1974 to current year.

SEDIMENT DISCHARGE: October 1974 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 621.76 ft (189.512 m) above mean sea level. Prior to May 22, 1954, nonrecording gage at site 100 ft (30 m) downstream at datum 2.00 ft (0.610 m) higher. May 22, 1954, to Aug. 20, 1965, water-stage recorder at site 165 ft (50 m) downstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--21 years, 382 ft<sup>3</sup>/s (10.82 m<sup>3</sup>/s), 13.65 in/yr (347 mm/yr).

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,550 ft<sup>3</sup>/s (185 m<sup>3</sup>/s) Mar. 5, gage height, 8.21 ft (2.502 m); minimum daily, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) Aug. 7.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 595 micromhos Dec. 23; minimum, 270 micromhos Mar. 12.

Period of record: Maximum conductance, 595 micromhos Dec. 23, 1974; minimum, 270 micromhos Mar. 12, 1975.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C July 31, Aug. 21; minimum, 2.0°C Feb. 10.

Period of record: Maximum temperature, 28.0°C July 31, Aug. 21, 1975; minimum, 2.0°C Feb. 10, 1975.

REMARKS.--Records good. Flow regulated by Brookville Lake since January 1974 (see sta 03275990).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	443	230	562	2810	3050	448	4190	247	63	35	28
2	151	443	332	639	2230	3070	422	3850	247	63	36	28
3	151	432	237	814	712	3070	429	2590	241	65	39	28
4	147	571	198	841	639	4840	429	1880	241	65	35	28
5	165	828	100	649	639	5890	429	1030	247	65	35	28
6	320	855	78	649	639	5460	429	439	241	65	35	28
7	156	1000	89	476	639	5480	429	448	241	69	27	29
8	147	1110	223	390	639	3910	365	197	160	234	29	29
9	160	590	571	762	544	1010	203	101	104	63	29	29
10	210	712	649	955	288	520	104	101	104	43	29	51
11	192	581	649	517	332	607	104	101	108	40	31	92
12	390	581	828	118	590	314	108	104	108	40	29	165
13	380	581	869	814	639	372	108	104	104	40	29	234
14	288	476	869	1220	639	939	108	104	104	40	29	234
15	288	410	869	1690	500	939	170	71	104	40	30	234
16	280	390	897	2510	526	939	95	48	104	35	29	119
17	280	400	869	2490	775	961	95	63	150	32	29	108
18	273	390	855	1730	1250	939	95	63	234	32	29	123
19	273	432	775	814	1400	939	215	63	234	32	29	164
20	273	454	571	629	775	939	234	63	221	32	29	240
21	390	517	432	258	476	939	234	63	123	31	29	240
22	432	544	280	204	535	939	2180	63	86	30	29	164
23	410	581	210	204	465	939	3780	63	86	28	29	164
24	432	590	390	237	156	939	1370	63	86	28	29	240
25	454	590	600	380	147	939	203	63	86	28	29	240
26	454	590	649	737	230	816	98	63	86	41	29	240
27	454	600	649	869	926	509	1470	63	71	34	29	240
28	443	600	454	669	2250	458	3680	65	63	34	29	240
29	443	517	343	911	---	458	4260	67	63	34	32	212
30	443	258	343	1900	---	448	4190	63	63	34	29	315
31	443	---	355	2400	---	448	---	111	---	34	28	---
TOTAL	9677	17066	15463	28038	22390	52020	26484	16357	4357	1514	943	4314
MEAN	312	569	499	904	800	1678	883	528	145	48.8	30.4	144
MAX	454	1110	897	2510	2810	5890	4260	4190	247	234	39	315
MIN	147	258	78	118	147	314	95	48	63	28	27	28
CAL YR 1974	TOTAL	81826	MEAN 224	MAX 2930	MIN 15							
WTR YR 1975	TOTAL	198623	MEAN 544	MAX 5890	MIN 27							

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE¼NW¼ sec.32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mile (0.5 km) downstream from East Fork Whitewater River, 1.1 miles (1.8 km) south of Brookville, and at mile 29.3 (47.1 km).

DRAINAGE AREA.--1,224 mi<sup>2</sup> (3,170 km<sup>2</sup>).

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 (181.572 m) above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft (0.457 m) higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years (1915-17, 1923 to current year), 1,267 ft<sup>3</sup>/s (35.88 m<sup>3</sup>/s), 14.06 in/yr (357 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	680	881	3050	5780	4060	2550	5280	825	348	238	188
2	618	672	966	2440	4150	3790	2230	4970	767	338	241	177
3	570	679	891	2390	2530	3690	2100	3630	774	333	265	166
4	554	2370	801	2460	2240	4950	1880	3060	741	321	283	160
5	547	2110	669	2060	2190	6100	1730	2270	715	326	264	158
6	619	1730	619	1910	2410	5630	1630	1720	945	319	253	153
7	507	1740	1820	1600	2320	5600	1570	1590	943	577	243	150
8	498	1690	3200	1640	1970	4150	1410	1230	698	729	238	145
9	518	1150	2730	3490	1680	2040	1170	982	552	360	239	144
10	561	1150	2180	4720	1220	1760	1020	918	512	315	247	152
11	545	1120	1950	8100	1350	1820	999	848	524	297	262	325
12	661	1170	2000	3200	2900	11200	918	950	1290	289	293	745
13	620	1070	2080	2530	2080	4250	871	1080	678	302	268	431
14	548	968	2100	2420	1790	3230	833	848	555	333	252	389
15	618	865	2560	2490	1490	2830	926	759	509	293	270	371
16	672	817	3230	2930	1850	2930	781	682	503	279	258	286
17	607	788	2640	2800	2710	5130	803	655	532	270	242	268
18	576	770	2290	2840	4000	5140	781	629	603	270	233	286
19	557	825	2070	2270	3350	6550	1090	603	579	292	224	278
20	544	937	1780	1750	2330	4740	1090	572	561	281	218	366
21	613	1010	1480	1180	1850	3370	950	547	1620	272	212	358
22	654	981	1240	1080	1870	3220	2270	547	530	265	206	278
23	647	1020	1080	1030	17700	2790	3130	560	452	258	200	275
24	669	1090	1510	1030	26300	4000	6170	518	424	254	194	345
25	686	1320	2290	1330	7720	4120	5490	500	405	250	188	345
26	686	1260	2070	2360	3880	2780	5910	500	392	258	182	340
27	676	1180	1850	2020	3450	2220	4000	547	380	248	177	340
28	668	1140	1480	1680	3870	4500	7870	500	367	248	174	332
29	669	961	1230	4040	---	7890	7820	475	360	244	177	312
30	681	731	1170	7400	---	5620	5710	529	352	241	327	410
31	697	---	1400	6500	---	3150	---	668	---	238	218	---
TOTAL	19086	33994	54257	86740	116980	133250	75702	39167	19088	9648	7286	8673
MEAN	616	1133	1750	2798	4178	4298	2523	1263	636	311	235	289
MAX	800	2370	3230	8100	26300	11200	7870	5280	1620	729	327	745
MIN	498	672	619	1030	1220	1760	781	475	352	238	174	144
CFSM	.50	.93	1.43	2.29	3.41	3.51	2.06	1.03	.52	.25	.19	.24
IN.	.58	1.03	1.65	2.64	3.56	4.05	2.30	1.19	.58	.29	.22	.26

CAL YR 1974	TOTAL	471343	MEAN	1291	MAX	12800	MIN	250	CFSM	1.05	IN	14.33
WTR YR 1975	TOTAL	603871	MEAN	1654	MAX	26300	MIN	144	CFSM	1.35	IN	18.35

## GREAT MIAMI RIVER BASIN

03276000 East Fork Whitewater River at Brookville, Ind.--Continued

EXTREMES.--Current year: Maximum discharge, 36,200 ft<sup>3</sup>/s (1,030 m<sup>3</sup>/s) Feb. 24, gage height, 18.61 ft (5.672 m); minimum daily, 144 ft<sup>3</sup>/s (4.08 m<sup>3</sup>/s) Sept. 9.  
 Period of record: Maximum discharge, 81,800 ft<sup>3</sup>/s (2,320 m<sup>3</sup>/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 ft<sup>3</sup>/s (1.70 m<sup>3</sup>/s) July 27, 1934.  
 Flood of Mar. 25, 1913, reached a stage of 39.0 ft (11.9 m), present datum, from floodmarks (discharge not determined).

REMARKS.--Records good. Flow regulated by Brookville Lake since January 1974 (see sta 03275990).

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

## WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
NOV.					
10...	1100	4.0	1230	78	259
DEC.					
14...	1030	6.0	2100	71	403
JAN.					
19...	1130	3.5	2210	58	346
FEB.					
22...	1400	7.0	1680	40	181
MAR.					
21...	1530	9.0	3250	135	1180
APR.					
26...	1445	13.0	7040	1009	19200
MAY					
28...	1100	20.0	682	59	109
JULY					
02...	1500	25.0	336	43	39
AUG.					
05...	1400	26.0	261	76	54
SEP.					
03...	1130	22.0	194	81	42

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED OXYGEN (MG/L)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
NOV.											
10...	1100	4.0	1230	5	520	--	8.0	4.7	239	291	0
DEC.											
14...	1030	6.0	2100	10	530	11.5	8.1	3.5	226	275	0
JAN.											
19...	1130	3.5	2210	30	440	13.8	7.7	8.2	210	256	0
FEB.											
22...	1400	7.0	1680	9	550	12.9	8.1	3.6	235	287	0
MAR.											
21...	1530	9.0	3250	30	540	11.5	7.6	9.9	202	246	0
APR.											
26...	1445	13.0	7040	450	320	10.2	8.7	.5	119	145	0
MAY											
28...	1100	20.0	682	4	550	11.0	8.1	3.7	236	288	0
JULY											
02...	1500	25.0	336	9	545	12.2	7.9	5.2	210	256	0
AUG.											
05...	1400	26.0	261	9	520	9.6	8.0	4.4	224	273	0
SEP.											
03...	1130	22.0	194	26	640	7.3	8.2	3.0	248	302	0

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM
NOV. 10...	1.6	.63	.92	.14	290	49	74	25	8.8	.2	6
DEC. 14...	2.4	.45	1.9	.06	270	40	70	22	9.0	.2	7
JAN. 19...	2.1	.47	1.6	.15	240	33	61	22	7.7	.2	6
FEB. 22...	3.2	.36	2.8	.05	290	53	71	27	7.6	.2	5
MAR. 21...	3.9	.50	3.4	.10	250	48	67	20	5.9	.2	5
APR. 26...	5.8	2.5	3.3	.40	150	35	42	12	2.8	.1	4
MAY 28...	2.9	.35	2.5	.03	290	51	72	26	6.4	.2	5
JULY 02...	2.2	.33	1.9	.03	280	69	69	26	10	.3	7
AUG. 05...	2.2	.52	1.7	.04	270	44	66	25	8.9	.2	7
SEP. 03...	2.1	.50	1.6	.09	310	59	80	26	12	.3	8

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	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)	TOTAL NITRO- GEN (NO3) (MG/L)
NOV. 10...	2.1	15	38	.2	4.4	327	311	1090	.44	6.9
DEC. 14...	2.2	16	45	.3	3.8	324	304	1840	.44	10
JAN. 19...	2.9	14	36	.3	3.6	296	274	1770	.40	9.2
FEB. 22...	2.0	15	41	.2	4.8	307	310	1390	.42	14
MAR. 21...	2.0	14	37	.3	6.1	292	274	2560	.40	17
APR. 26...	2.4	7.3	21	.4	5.6	202	165	3840	.27	26
MAY 28...	2.2	14	37	.2	3.2	306	303	563	.42	13
JULY 02...	2.2	19	41	.2	2.9	316	297	287	.43	9.9
AUG. 05...	2.5	13	38	.1	5.9	345	294	243	.47	9.8
SEP. 03...	2.5	22	40	.4	5.8	374	338	196	.51	9.3

03276500 Whitewater River at Brookville, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	6.0	4.5	4.5	5.0	9.0	13.0	19.5	25.0	27.0	23.0
2	---	---	6.0	5.0	5.5	4.5	11.0	11.0	15.5	26.0	27.0	24.0
3	---	---	6.0	5.0	4.5	4.0	8.5	12.0	15.0	25.0	25.0	---
4	---	---	6.5	5.5	4.0	5.0	8.0	10.0	16.0	25.5	25.5	26.0
5	---	---	5.5	7.5	5.0	5.0	8.0	11.0	17.0	23.5	25.5	23.0
6	---	---	5.0	4.5	4.0	5.5	9.5	16.0	20.0	22.0	24.0	23.0
7	---	---	5.0	5.5	3.0	5.5	9.5	15.0	17.0	24.0	26.5	23.0
8	---	---	5.0	7.0	4.0	6.0	10.0	16.5	19.0	16.0	26.0	23.0
9	---	---	6.0	8.0	3.0	7.0	10.0	18.0	18.0	23.0	25.0	23.0
10	---	12.0	7.0	8.0	2.0	5.0	9.5	17.0	19.0	24.0	---	---
11	---	12.0	6.0	6.5	3.5	5.5	11.0	17.0	17.0	24.5	25.0	20.5
12	---	11.0	6.5	4.5	3.0	5.0	---	16.0	19.5	21.5	26.0	20.0
13	---	10.0	7.0	3.0	3.0	5.0	---	17.5	21.0	22.5	26.0	17.0
14	---	10.0	7.5	2.5	3.0	3.5	---	18.0	22.0	21.5	26.5	18.0
15	---	9.5	6.0	3.0	5.0	5.5	---	17.5	21.0	21.0	26.0	17.5
16	---	9.0	6.0	3.5	6.0	6.0	11.0	17.0	22.0	23.5	26.0	19.0
17	---	12.0	5.0	3.5	5.5	8.5	15.0	17.5	18.0	24.5	25.0	18.0
18	---	13.0	5.0	3.5	5.5	7.0	15.5	18.0	19.5	22.0	26.0	19.0
19	---	13.0	6.0	4.5	4.0	8.5	13.0	19.0	20.0	23.0	26.0	19.0
20	---	13.0	5.0	3.5	5.0	8.0	11.0	20.5	23.0	24.0	26.0	18.5
21	---	10.0	5.0	4.0	6.0	9.5	13.0	23.0	24.0	22.0	28.0	16.5
22	---	10.0	5.0	4.0	6.0	9.5	10.0	22.5	26.0	24.0	26.0	17.0
23	---	11.5	6.5	5.0	8.0	9.0	10.0	24.0	24.5	27.0	26.0	16.0
24	---	11.0	6.5	5.0	7.0	10.0	13.0	22.5	24.5	25.0	25.5	15.5
25	---	9.0	5.0	5.0	5.0	8.0	11.5	23.0	25.0	24.0	25.5	15.0
26	---	9.0	4.0	4.0	6.0	7.0	13.0	24.0	24.0	25.0	25.0	16.0
27	---	8.0	4.5	3.0	5.5	5.0	10.5	---	25.0	25.5	23.0	15.0
28	---	8.0	5.0	6.0	5.0	6.0	10.5	22.0	24.0	27.0	---	17.0
29	---	8.0	5.5	7.0	---	5.0	12.0	19.0	24.0	25.0	26.0	16.5
30	---	7.0	6.5	5.0	---	6.0	9.0	21.0	25.5	25.0	26.0	---
31	---	---	6.0	4.0	---	9.0	---	21.5	---	28.0	28.0	26.0
MONTH	---	---	7.5	8.0	8.0	10.0	15.5	24.0	26.0	28.0	28.0	26.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	560	520	500	525	490	460	500	460	490	530
2	---	---	550	490	520	525	500	460	500	460	480	550
3	---	---	555	540	540	530	500	470	510	460	480	---
4	---	---	565	530	550	520	500	485	500	470	480	535
5	---	---	560	540	545	530	500	500	505	480	470	515
6	---	---	570	550	540	515	490	500	515	475	480	520
7	---	---	570	565	520	515	490	500	480	430	470	520
8	---	---	395	570	540	530	500	530	500	410	470	510
9	---	---	495	485	550	550	520	530	510	480	490	490
10	---	565	530	460	580	540	515	530	520	500	490	445
11	---	560	550	375	570	530	525	515	520	490	475	445
12	---	550	550	440	440	270	---	510	340	500	420	365
13	---	550	555	515	530	420	---	490	490	500	420	420
14	---	555	540	540	550	470	---	510	515	505	490	445
15	---	560	555	560	565	500	---	515	520	495	505	455
16	---	550	505	545	545	490	495	450	520	500	505	520
17	---	545	515	540	530	420	510	520	495	490	470	520
18	---	540	545	550	460	410	500	520	495	470	465	510
19	---	540	560	505	500	370	485	510	490	470	465	460
20	---	550	570	540	530	410	490	510	490	470	465	460
21	---	540	570	580	545	480	495	515	355	485	500	460
22	---	545	590	580	540	470	450	510	485	480	520	540
23	---	540	595	590	310	500	470	500	490	500	510	530
24	---	530	575	580	285	560	370	510	490	500	515	450
25	---	530	550	570	420	420	355	510	490	490	515	460
26	---	540	545	500	495	490	325	480	500	500	420	460
27	---	540	560	500	525	510	440	---	475	490	420	465
28	---	545	590	520	530	340	390	515	475	485	---	530
29	---	550	590	510	---	330	430	520	480	485	520	450
30	---	550	590	420	---	400	460	515	---	490	520	---
31	---	---	585	440	---	480	---	480	---	---	505	550
MONTH	---	---	595	590	580	560	525	530	520	505	520	550



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

LOCATION.--Lat 39°01'47", long 85°02'17", in SW¼NW¼ 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 (1.9 km) northeast of Dillsboro, and 1.5 miles (2.4 km) downstream from Whitaker Creek.

DRAINAGE AREA.--38.1 mi<sup>2</sup> (98.7 km<sup>2</sup>).

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

CHEMICAL ANALYSES: October 1968 to current year.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 571.00 ft (174.041 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 40.8 ft<sup>3</sup>/s (1.155 m<sup>3</sup>/s), 14.54 in/yr (369 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,060 ft<sup>3</sup>/s (115 m<sup>3</sup>/s) Feb. 23, gage height, 8.09 ft (2.466 m); minimum daily, no flow Aug. 1-3.

Period of record: Maximum discharge, 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) Apr. 29, 1970, gage height, 12.7 ft (3.87 m), from floodmarks, no flow at times most years.

Flood of Jan. 21, 1959, reached a stage of 14.00 ft (4.267 m), discharge, 16,300 ft<sup>3</sup>/s (462 m<sup>3</sup>/s), on basis of contracted-opening measurement.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	7.2	50	140	165	36	47	27	10	2.5	0	3.2
2	16	9.0	90	60	87	30	40	23	4.8	2.0	0	1.7
3	12	80	86	79	56	25	83	20	3.3	1.6	0	.93
4	9.7	350	69	60	52	23	37	19	2.4	1.2	.08	.60
5	8.8	70	55	50	84	22	29	16	352	.91	.85	.38
6	7.6	45	43	42	101	22	25	15	79	.73	.31	.41
7	6.5	30	338	38	52	39	23	14	20	.63	.11	.22
8	5.9	23	314	70	39	33	21	12	11	.60	.07	.15
9	5.7	19	98	350	31	25	19	11	7.1	.47	.08	.10
10	5.3	18	54	900	33	27	22	9.5	5.3	.34	2.7	.06
11	4.9	63	43	300	28	32	19	8.0	27	.25	1.5	.89
12	4.6	68	47	100	50	999	16	8.6	63	.17	.45	138
13	4.7	36	44	65	40	198	14	12	17	.48	.19	18
14	5.1	37	36	50	30	100	14	8.8	13	1.0	.13	7.5
15	130	30	124	40	28	110	15	7.0	15	.65	.31	4.2
16	46	22	126	35	32	273	13	6.1	10	.41	6.2	2.9
17	24	19	63	33	50	462	13	5.2	15	.32	13	2.4
18	17	17	44	280	40	171	12	4.9	16	.22	3.8	2.8
19	14	82	49	100	29	226	31	4.4	7.6	.20	2.1	2.7
20	12	139	50	64	25	89	20	3.5	5.0	.86	1.3	2.4
21	10	47	38	50	22	59	14	3.1	9.0	.43	.84	1.6
22	9.0	31	36	43	55	129	13	2.6	6.4	.20	.58	1.3
23	8.6	25	30	39	1,870	131	74	2.3	4.5	.11	.26	1.0
24	8.6	34	70	36	407	461	558	2.0	3.2	.10	.15	1.9
25	8.6	65	84	72	109	83	413	1.6	2.2	.09	.11	2.2
26	8.3	38	52	54	73	51	126	1.4	6.0	.06	.07	2.2
27	7.8	29	42	40	51	99	59	1.3	5.0	.11	.04	1.7
28	7.3	25	36	36	43	819	43	1.1	4.0	.08	.02	1.2
29	6.9	20	33	170	-----	485	34	8.2	3.3	.04	.02	1.1
30	7.0	20	30	83	-----	109	27	3.8	2.8	.02	6.1	.79
31	7.4	-----	100	293	-----	63	-----	5.9	-----	.01	8.6	-----
TOTAL	454.3	1,498.2	2,374	3,772	3,682	5,431	1,874	268.3	729.9	16.79	49.97	292.64
MEAN	14.7	49.9	76.6	122	132	175	62.5	8.65	24.3	.54	1.61	9.75
MAX	130	350	338	900	1,870	999	558	27	352	2.5	13	138
MIN	4.6	7.2	30	33	22	22	12	1.1	2.2	.01	0	.06
CFSM	.39	1.31	2.01	3.20	3.46	4.59	1.64	.23	.64	.01	.04	.26
IN.	.44	1.46	2.32	3.68	3.60	5.30	1.83	.26	.71	.02	.05	.29

CAL YR 1974 TOTAL 18,735.84 MEAN 51.3 MAX 608 MIN .02 CFSM 1.35 IN 18.29  
WTR YR 1975 TOTAL 20,443.10 MEAN 56.0 MAX 1,870 MIN 0 CFSM 1.47 IN 19.96

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Dec. 24 to Jan. 28.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	1715	8.09	4,060	03-12	0630	7.42	3,290

## HOGAN CREEK BASIN

03276700 South Hogan Creek near Dillsboro, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
JAN. 18...	1715	3.0	298	113	90
APR. 26...	1130	14.0	124	58	19

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED OXYGEN (MG/L)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 03...	1645	11.0	11	490	10.1	7.6	9.6	195	238	0
NOV. 09...	1545	8.5	19	520	--	8.1	3.2	205	250	0
DEC. 13...	1600	5.0	40	440	12.4	8.7	.7	192	234	0
JAN. 18...	1715	3.0	298	287	13.2	7.6	4.8	98	120	0
FEB. 22...	1115	3.0	19	570	13.1	8.2	2.4	193	235	0
MAR. 21...	1145	9.0	57	490	12.2	8.0	3.1	160	195	0
APR. 26...	1130	14.0	124	390	10.6	7.7	4.8	124	151	0
MAY 28...	1800	26.0	.99	460	8.0	7.4	12	149	182	0
JULY 03...	0915	26.0	1.5	510	9.1	7.5	11	177	216	0
AUG. 05...	1030	26.0	1.0	430	7.9	7.6	7.0	144	175	0
29...	1245	25.5	.01	425	7.6	8.0	3.3	167	204	0

03276700 South Hogan Creek near Dillsboro, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM
OCT. 03...	.44	.07	250	51	79	12	10	.3	8
NOV. 09...	.73	.13	260	52	80	14	10	.3	8
DEC. 13...	.97	.06	240	49	75	13	10	.3	8
JAN. 18...	.81	.29	130	32	40	7.5	5.0	.2	7
FEB. 22...	.85	.03	260	66	79	15	11	.3	8
MAR. 21...	.69	.06	200	38	61	11	7.7	.2	8
APR. 26...	.77	.17	160	35	50	8.2	6.2	.2	8
MAY 28...	.02	.04	200	53	58	14	12	.4	11
JULY 03...	.02	.03	250	68	75	14	11	.3	9
AUG. 05...	.08	.04	210	65	62	13	12	.4	11
29...	.10	.05	190	26	56	13	13	.4	13

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	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)
OCT. 03...	2.4	13	51	.2	6.9	303	292	9.00	.41
NOV. 09...	2.6	11	51	1.0	7.3	322	300	16.5	.44
DEC. 13...	1.8	17	54	.2	7.1	311	293	33.6	.42
JAN. 18...	3.1	6.5	30	.3	4.9	259	156	208	.35
FEB. 22...	1.9	14	69	.2	2.2	298	308	15.3	.41
MAR. 21...	1.7	9.6	52	.3	5.2	264	245	40.6	.36
APR. 26...	2.1	8.5	39	.2	6.3	220	195	73.7	.30
MAY 28...	2.6	14	65	.2	1.3	269	257	.72	.37
JULY 03...	2.9	12	71	.3	3.4	322	296	1.30	.44
AUG. 05...	3.4	12	66	.1	4.4	307	259	.83	.42
29...	3.6	14	44	.2	6.6	266	251	.01	.36

## HOGAN CREEK BASIN

03276700 South Hogan Creek near Dillsboro, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
NOV. 09...	1545	330	24	6.7	1.4	.12	.57	<3.6	.7	5.4	1.2

03291780 Indian-Kentuck Creek near Canaan, Ind.

LOCATION.--Lat 38°52'41", long 85°15'26", in SW¼NW¼ 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 (457 m) upstream from Wilson Fork, 2.0 miles (3.2 km) northeast of Canaan, and at mile 16.7 (26.9 km).

DRAINAGE AREA.--27.5 mi<sup>2</sup> (71.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (180 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 30.5 ft<sup>3</sup>/s (0.864 m<sup>3</sup>/s), 15.06 in/yr (383 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,220 ft<sup>3</sup>/s (91.2 m<sup>3</sup>/s) Feb. 23, gage height, 7.42 ft (2.262 m), from rating curve extended above 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s); no flow July 28-Aug. 16, Aug. 19-Sept. 10.

Period of record: Maximum discharge, 3,220 ft<sup>3</sup>/s (91.2 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 7.42 ft (2.262 m), from rating curve extended above 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s); maximum gage height, 11.02 ft (3.359 m) Feb. 22, 1971; no flow for many days in 1970, 1972, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	4.6	43	100	87	30	45	22	13	.39	0	0
2	14	5.7	68	46	60	24	37	17	5.3	.30	0	0
3	10	8.6	55	71	44	20	30	17	4.4	.21	0	0
4	8.6	219	49	54	46	20	23	17	3.9	.15	0	0
5	7.0	86	40	38	65	17	20	13	209	.12	0	0
6	5.7	39	33	33	76	15	18	34	36	.15	0	0
7	5.0	27	163	28	45	23	15	30	9.7	.17	0	0
8	4.6	21	211	65	36	19	15	17	5.0	.12	0	0
9	4.4	16	83	85	29	15	14	15	3.5	.08	0	0
10	4.1	15	53	579	34	18	14	12	2.8	.05	0	0
11	3.5	79	41	285	25	20	12	10	22	.04	0	59
12	3.2	59	44	82	33	520	11	9.5	56	.04	0	20
13	3.2	37	36	54	26	137	10	8.6	11	.33	0	2.3
14	3.4	32	31	42	22	80	10	7.8	58	.28	0	.72
15	86	23	81	33	21	80	10	7.0	23	.16	0	.39
16	32	19	77	26	22	219	9.0	6.3	10	.08	0	.27
17	19	14	51	24	27	273	8.9	5.7	8.1	.05	.01	.19
18	14	15	38	169	23	126	8.8	5.5	15	.04	.01	.21
19	11	50	43	74	20	230	26	5.0	6.1	.05	0	.24
20	9.1	83	36	48	17	81	14	4.4	4.0	.11	0	.41
21	7.0	37	30	39	16	55	11	4.1	6.2	.38	0	.32
22	6.3	26	25	30	31	101	10	3.7	3.2	.19	0	.29
23	5.7	21	22	28	1,390	118	45	3.5	2.4	.09	0	.32
24	6.0	47	52	27	314	412	664	3.7	1.8	.05	0	.79
25	5.5	64	60	55	96	82	295	3.2	1.3	.03	0	1.2
26	5.7	37	37	44	62	50	91	3.2	3.2	.01	0	1.1
27	4.8	30	33	28	46	79	53	6.0	2.1	.01	0	.91
28	4.6	23	28	27	38	723	39	3.7	1.2	0	0	.62
29	4.4	19	25	56	-----	408	31	3.4	.75	0	0	.49
30	4.8	16	23	43	-----	101	25	3.7	.53	0	0	.41
31	4.8	-----	57	159	-----	61	-----	11	-----	0	0	-----
TOTAL	329.4	1,172.9	1,668	2,472	2,751	4,157	1,614.7	313.0	528.48	3.68	.02	90.18
MEAN	10.6	39.1	53.8	79.7	98.3	134	53.8	10.1	17.6	.12	.0006	3.01
MAX	86	219	211	579	1,390	723	664	34	209	.39	.01	59
MIN	3.2	4.6	22	24	16	15	8.8	3.2	.53	0	0	0
CFSM	.39	1.42	1.96	2.90	3.57	4.87	1.96	.37	.64	.004	0	.11
IN.	.45	1.59	2.26	3.34	3.72	5.62	2.18	.42	.71	.004	0	.12

CAL YR 1974 TOTAL 13,926.06 MEAN 38.2 MAX 366 MIN .02 CFSM 1.39 IN 18.84  
WTR YR 1975 TOTAL 15,100.36 MEAN 41.4 MAX 1,390 MIN 0 CFSM 1.51 IN 20.43

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1215	5.65	1,150	03-24	0115	5.80	1,270
01-10	2045	6.49	1,990	03-28	0200	6.62	2,130
02-23	1745	7.42	3,220	04-24	0915	7.32	3,070
03-12	0800	6.48	1,980	06-05	1700	6.42	1,900



## SILVER CREEK BASIN

03294000 Silver Creek near Sellersburg, Ind.

LOCATION.--Lat 38°22'15", long 85°43'35", in SW¼SW¼ lot 68, Clark Military Grant, Clark County, on upstream side of Straws Mill bridge on Watson Road, 0.3 mile (0.5 km) downstream from Pleasant Run, 2.4 miles (3.9 km) southeast of Sellersburg, and 12.2 miles (19.6 km) (revised) upstream from mouth.

DRAINAGE AREA.--189 mi<sup>2</sup> (490 km<sup>2</sup>).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 429.78 ft (130.997 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--21 years, 216 ft<sup>3</sup>/s (6.117 m<sup>3</sup>/s), 15.52 in/yr (394 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,400 ft<sup>3</sup>/s (294 m<sup>3</sup>/s) Apr. 26, gage height, 26.26 ft (8.004 m); minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Aug. 22.

Period of record: Maximum discharge, 19,600 ft<sup>3</sup>/s (555 m<sup>3</sup>/s) Jan. 22, 1959, gage height, 30.89 ft (9.415 m), from flood-marks, from rating curve extended above 6,300 ft<sup>3</sup>/s (178 m<sup>3</sup>/s) on basis of contracted-opening measurements of peak flow, at site 5.2 miles (8.4 km) upstream, drainage area, 165 mi<sup>2</sup> (427 km<sup>2</sup>) (revised), adjusted to gage site; no flow at times in most years.

REMARKS.--Records good. Some regulation by Deam Lake.

REVISIONS (WATER YEARS).--WSP 1705: 1955-58. WRD Ind. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	18	255	638	1,050	260	470	860	555	18	8.9	1.9
2	71	51	605	332	969	214	356	535	160	15	10	1.3
3	63	102	375	388	600	176	328	292	142	13	14	1.2
4	59	434	231	358	728	157	247	268	93	12	48	1.2
5	54	555	178	238	690	143	210	208	73	13	20	1.4
6	51	133	145	146	615	129	186	173	93	8.9	16	1.7
7	49	140	268	189	365	290	168	490	65	9.2	10	1.5
8	48	129	950	178	264	258	147	480	46	10	4.4	1.5
9	49	115	460	505	229	170	132	665	40	7.9	3.2	1.3
10	48	103	258	1,290	171	174	143	336	34	7.9	1.4	1.2
11	48	143	208	3,690	174	255	124	224	555	6.5	1.0	2.6
12	46	210	202	1,410	537	2,740	104	184	465	6.0	1.0	18
13	42	157	168	550	340	2,360	93	149	163	6.6	.80	8.6
14	41	138	142	360	244	1,120	89	128	90	16	1.6	5.2
15	402	119	126	280	284	792	93	109	93	16	2.3	3.6
16	280	104	380	242	205	860	84	95	65	8.9	4.6	5.5
17	143	95	224	190	224	895	84	82	48	7.6	73	7.9
18	102	89	179	1,010	219	588	80	71	268	17	18	10
19	88	88	166	878	182	2,150	415	197	95	12	5.7	16
20	74	190	157	543	152	910	238	57	198	20	2.8	18
21	63	131	140	354	136	515	153	52	48	18	1.1	17
22	63	91	122	284	203	532	126	46	38	10	.60	20
23	61	78	110	244	3,020	515	238	143	34	6.5	.70	17
24	44	76	181	216	4,430	2,990	4,100	2,280	28	5.2	.80	21
25	28	208	302	219	1,380	1,620	10,100	385	23	5.2	.80	56
26	28	153	238	224	562	555	6,120	116	20	4.8	1.0	40
27	22	117	221	168	385	460	1,430	146	152	5.2	1.4	32
28	22	98	238	156	320	3,050	580	93	46	6.0	1.6	23
29	21	86	182	163	-----	5,120	405	82	31	7.6	1.6	22
30	18	78	165	385	-----	3,800	322	157	23	8.2	1.7	20
31	16	-----	265	1,510	-----	720	-----	179	-----	8.6	1.9	-----
TOTAL	2,228	4,229	7,841	17,338	18,678	34,518	27,365	9,282	3,784	316.8	259.90	377.6
MEAN	71.9	141	253	559	667	1,113	912	299	126	10.2	8.38	12.6
MAX	402	555	950	3,690	4,430	5,120	10,100	2,280	555	20	73	56
MIN	16	18	110	146	136	129	80	46	20	4.8	.60	1.2
CFSM	.38	.75	1.34	2.96	3.53	5.89	4.83	1.58	.67	.05	.04	.07
IN.	.44	.83	1.54	3.41	3.68	6.79	5.39	1.83	.74	.06	.05	.07

CAL YR 1974 TOTAL 81,380.60 MEAN 223 MAX 3,340 MIN 4.2 CFSM 1.18 IN 16.02  
WTR YR 1975 TOTAL 126,217.30 MEAN 346 MAX 10,100 MIN .60 CFSM 1.83 IN 24.84

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1400	18.31	4,020	03-24	1300	17.61	3,800
02-24	1200	20.03	4,720	03-29	1200	21.06	5,240
03-12	1400	17.44	3,700	04-26	0600	26.26	10,400
03-19	1000	14.81	2,780	05-24	1700	15.40	2,990

03302220 Buck Creek near New Middletown, Ind.

LOCATION (revised).--Lat 38°07'13", long 86°05'16", in SE¼NE¼ sec.32, T.4 S., R.4 E., Harrison County, at downstream end of pier of bridge on State Highway 337, 0.6 mile (1.0 km) downstream from South Fork Buck Creek, 3.6 miles (5.8 km) southwest of New Middletown, and 14.4 miles (23.2 km) upstream from mouth.

DRAINAGE AREA.--65.2 mi<sup>2</sup> (168.9 km<sup>2</sup>), of which 28.1 mi<sup>2</sup> (72.8 km<sup>2</sup>) 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 (152 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 91.4 ft<sup>3</sup>/s (2.588 m<sup>3</sup>/s), 19.04 in/yr (484 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,500 ft<sup>3</sup>/s (354 m<sup>3</sup>/s) Apr. 24, gage height, 14.36 ft (4.377 m); minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Aug. 27, 28, Sept. 4, and 10.

Period of record: Maximum discharge, 12,700 ft<sup>3</sup>/s (360 m<sup>3</sup>/s) Apr. 2, 1970, gage height, 14.40 ft (4.389 m); minimum daily, 0.90 ft<sup>3</sup>/s (0.03 m<sup>3</sup>/s) Sept. 13, 1972.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Ind. 1972: 1971(P).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	22	107	156	307	95	190	366	21	7.6	1.9	2.3
2	33	30	146	120	273	80	149	184	14	6.7	1.8	2.0
3	29	65	152	142	193	68	117	133	13	6.0	1.7	1.7
4	27	212	111	124	189	61	89	114	13	5.7	1.2	1.6
5	25	162	91	102	234	57	77	87	14	5.1	7.5	1.9
6	23	49	78	93	242	53	68	75	14	12	6.0	8.8
7	22	76	140	78	163	82	62	64	11	6.8	4.3	3.0
8	21	65	217	87	126	67	57	73	10	6.1	3.5	2.3
9	19	57	153	114	100	59	54	67	9.9	5.0	3.2	1.9
10	18	52	116	1,020	85	67	51	54	11	5.1	2.9	1.6
11	17	80	96	847	80	112	47	48	50	4.9	2.7	3.0
12	16	103	84	296	221	1,350	43	45	72	4.6	24	5.1
13	16	95	69	195	131	384	40	39	28	4.9	35	3.9
14	17	85	62	136	107	307	39	35	19	4.9	7.8	2.9
15	378	72	73	107	92	224	38	33	17	4.3	11	2.4
16	162	65	82	88	82	197	36	30	15	3.9	8.9	2.3
17	96	59	76	73	76	162	35	28	14	3.7	9.6	2.1
18	69	63	66	520	66	198	36	26	40	3.7	5.1	3.7
19	53	58	66	271	61	519	173	24	17	3.7	3.9	5.1
20	44	50	58	175	55	242	84	22	13	4.9	3.2	4.5
21	36	43	56	133	51	173	63	21	11	5.3	2.7	3.7
22	32	38	50	108	51	204	56	19	11	3.7	2.4	3.0
23	29	36	47	95	1,850	209	286	19	9.6	3.2	2.3	3.0
24	28	42	174	91	625	826	2,580	18	8.7	3.0	2.1	4.1
25	26	54	229	95	290	272	2,220	17	8.3	2.9	1.9	12
26	24	51	157	79	183	162	517	16	47	2.7	1.7	9.9
27	22	51	165	67	140	128	298	15	51	2.4	1.6	6.6
28	22	47	165	64	116	858	204	14	20	2.4	1.6	4.7
29	21	42	135	70	-----	2,610	143	15	12	2.7	1.7	3.0
30	20	44	108	73	-----	484	142	15	8.9	2.4	2.1	2.5
31	19	-----	103	441	-----	281	-----	18	-----	2.1	2.3	-----
TOTAL	1,407	2,018	3,432	6,060	6,189	10,591	7,994	1,734	603.4	142.4	193.7	114.6
MEAN	45.4	67.3	111	195	221	342	266	55.9	20.1	4.59	6.25	3.82
MAX	378	212	229	1,020	1,850	2,610	2,580	366	72	12	35	12
MIN	16	22	47	64	51	53	35	14	8.3	2.1	1.6	1.6
CFSM	.70	1.03	1.70	2.99	3.39	5.25	4.08	.86	.31	.07	.10	.06
IN.	.80	1.15	1.96	3.46	3.53	6.04	4.56	.99	.34	.08	.11	.07

CAL YR 1974 TOTAL 31,783.5 MEAN 87.1 MAX 1,060 MIN 1.8 CFSM 1.34 IN 18.13  
WTR YR 1975 TOTAL 40,479.1 MEAN 111 MAX 2,610 MIN 1.6 CFSM 1.70 IN 23.10

PEAK DISCHARGE (BASE, 1,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2100	8.69	3,160	03-24	0200	6.64	1,520
01-18	1000	6.66	1,530	03-29	0500	12.26	8,180
02-23	1700	8.67	3,140	04-24	1400	14.36	12,500
03-12	0900	9.59	4,170				

## INDIAN CREEK BASIN

03302300 Little Indian Creek near Galena, Ind.

LOCATION.--Lat 38°19'19", long 85°55'53", in NE¼SW¼ sec.23, T.2 S., R.5 E., Floyd County, on right bank at downstream side of county road bridge, 2 miles (3 km) south of Galena, 3.6 miles (5.8 km) upstream from mouth, and 7.0 miles (11.3 km) northwest of New Albany.

DRAINAGE AREA.--16.1 mi<sup>2</sup> (41.7 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 703.00 ft (214.274 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 24.1 ft<sup>3</sup>/s (0.683 m<sup>3</sup>/s), 20.33 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,840 ft<sup>3</sup>/s (137 m<sup>3</sup>/s) Apr. 24, gage height, 9.19 ft (2.801 m); no flow many days in August and September.

Period of record: Maximum discharge, 5,500 ft<sup>3</sup>/s (156 m<sup>3</sup>/s) July 21, 1973, gage height, (2.835 m); from rating curve extended above 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/s) on basis of contracted-opening measurement at 7.34 ft (2.237 m); no flow for many days in 1969, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	3.3	34	65	88	19	37	121	7.3	1.4	.45	.10
2	5.3	6.7	38	40	84	17	31	41	3.9	1.3	.84	.10
3	4.1	26	33	49	47	15	24	37	3.0	1.6	1.5	0
4	3.6	76	27	36	53	13	19	30	2.6	.80	1.3	0
5	2.9	37	22	29	58	12	16	20	2.3	.70	.42	0
6	2.4	23	19	25	50	11	14	24	13	.60	.42	0
7	1.9	18	70	21	33	31	13	46	3.6	.60	.34	0
8	1.7	14	46	29	27	24	12	67	2.5	.90	.26	0
9	1.5	12	47	36	22	17	12	45	2.0	.60	.22	.10
10	1.3	11	31	61	21	19	12	25	4.9	.60	.22	0
11	1.1	20	26	215	18	31	9.9	17	119	.38	.15	0
12	.96	20	25	61	24	574	8.7	20	26	.38	.10	0
13	1.2	16	19	38	19	94	7.6	15	8.8	.38	.10	0
14	1.4	16	18	28	17	87	8.2	11	4.0	.34	.60	0
15	47	13	35	23	16	67	8.5	9.6	3.1	.30	1.5	0
16	19	11	32	20	16	63	9.3	8.0	2.6	.30	1.1	0
17	12	10	27	16	19	51	11	7.0	110	.70	.60	0
18	9.4	9.5	22	156	17	118	9.9	6.3	47	.90	.34	0
19	7.7	28	22	59	15	220	65	5.2	11	.42	.26	0
20	6.3	31	19	39	14	63	26	4.6	6.6	.80	.26	0
21	5.2	19	17	29	13	41	14	4.1	4.1	.50	.20	0
22	4.5	14	15	25	15	52	15	3.5	3.0	.42	.15	0
23	4.9	12	14	23	681	168	125	3.1	2.4	.34	0	0
24	4.5	17	51	21	135	317	1,270	2.6	2.2	.30	0	0
25	3.9	21	54	23	51	61	527	2.3	2.0	.26	0	0
26	3.9	17	36	20	34	37	105	5.6	20	.26	0	0
27	2.8	15	48	17	26	39	53	8.4	5.6	.24	0	0
28	2.8	13	41	16	22	452	31	3.4	2.5	.23	0	0
29	2.5	11	31	18	-----	605	22	23	2.1	.30	.10	0
30	2.8	14	26	22	-----	89	30	5.9	1.7	.90	.10	0
31	2.5	-----	52	151	-----	51	-----	7.0	-----	.57	.10	-----
TOTAL	178.56	554.5	1,037	1,967	1,635	3,462	2,550.1	628.6	428.8	14.32	11.67	.30
MEAN	5.76	18.5	33.5	63.5	58.4	112	85.0	20.3	14.3	.59	.38	.010
MAX	47	76	86	617	681	605	1,270	121	119	1.6	1.5	.10
MIN	.96	3.3	14	16	13	11	7.6	2.3	1.7	.23	0	0
CFSM	.36	1.15	2.08	3.94	3.63	6.96	5.28	1.26	.89	.04	.02	.0006
IN.	.41	1.28	2.40	4.54	3.78	8.00	5.89	1.45	.99	.04	.03	0
CAL YR 1974	TOTAL	8,440.38	MEAN	23.1	MAX	252	MIN	.05	CFSM	1.43	IN	19.50
WTR YR 1975	TOTAL	12,471.85	MEAN	34.2	MAX	1,270	MIN	0	CFSM	2.12	IN	24.82

PEAK DISCHARGE (BASE, 500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1900	7.49	3,220	03-18	2345	4.59	729	06-11	1115	4.52	518
01-18	0800	4.27	558	03-23	2345	5.43	1,300	06-17	2045	4.49	507
02-23	1500	5.42	1,290	03-29	0200	7.28	2,460				
03-12	0630	6.58	2,320	04-24	1045	9.19	4,840				

## 03302500 Indian Creek near Corydon, Ind.

LOCATION.--Lat 38°16'35", long 86°06'35", in SW¼SE¼ sec.6, T.3 S., R.4 E., Harrison County, on upstream side of bridge on State Highway 335, 0.6 mile (1.0 km) upstream from Raccoon Branch, 4.5 miles (7.2 km) north of Corydon, and at mile 33.7 (54.2 km).

DRAINAGE AREA.--129 mi<sup>2</sup> (334 km<sup>2</sup>), of which 10.6 mi<sup>2</sup> (27.4 km<sup>2</sup>) 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 (175.906 m) 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 (1.920 m) at same site and datum.

AVERAGE DISCHARGE.--32 years, 169 ft<sup>3</sup>/s (4.786 m<sup>3</sup>/s), 17.79 in/yr (452 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,400 ft<sup>3</sup>/s (379 m<sup>3</sup>/s) Apr. 24, gage height, 19.94 ft (6.078 m); minimum daily, 0.26 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 26,700 ft<sup>3</sup>/s (756 m<sup>3</sup>/s) Mar. 5, 1964, gage height, 22.64 ft (6.901 m); no flow at times during 1943-44, 1951-54, 1959, 1965, 1972-73.

REMARKS.--Records good.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	30	166	451	779	230	386	579	59	12	1.3	.43
2	82	78	291	382	689	188	318	371	49	11	1.4	.40
3	63	161	328	375	496	157	274	284	37	10	2.2	.40
4	52	632	268	345	422	136	206	333	34	8.5	4.3	.40
5	46	481	213	275	460	123	174	227	32	7.0	3.9	.52
6	41	260	175	233	444	112	152	180	39	5.8	10	.74
7	35	187	248	195	344	241	135	303	53	5.0	7.6	.47
8	31	147	649	189	283	229	121	291	29	9.0	5.6	.40
9	29	118	433	367	239	170	110	411	23	7.7	4.4	.31
10	27	101	312	1,170	180	177	112	257	22	6.0	3.2	.26
11	25	106	243	3,250	187	217	100	190	257	4.7	2.3	1.5
12	23	164	206	695	235	2,140	90	156	296	6.0	1.7	3.2
13	22	138	168	448	199	853	83	126	117	7.5	1.4	3.1
14	21	128	143	331	173	602	78	100	73	10	1.1	3.1
15	35	110	148	268	162	456	81	88	54	8.5	1.2	1.8
16	297	97	305	218	150	480	75	79	44	6.9	1.6	1.1
17	159	89	236	172	158	402	73	70	51	5.2	2.1	.83
18	106	83	193	766	151	352	72	64	377	6.0	2.7	1.6
19	84	93	183	587	137	1,220	157	57	122	8.0	1.7	1.8
20	72	187	161	403	124	559	177	51	71	11	1.3	1.9
21	60	131	145	315	113	375	141	48	51	8.3	1.3	1.5
22	47	100	130	260	109	371	115	45	40	7.0	1.1	.86
23	43	88	115	223	2,750	341	425	44	31	5.6	1.1	.93
24	41	94	243	203	2,120	2,080	6,910	42	26	4.6	1.0	1.5
25	39	159	411	205	675	625	5,770	39	23	3.8	.77	2.4
26	37	147	333	200	441	374	1,080	38	30	2.9	.55	2.7
27	35	131	310	157	338	305	583	66	66	2.1	.54	5.5
28	31	115	323	144	282	2,150	414	51	38	1.5	.54	7.1
29	30	97	262	141	-----	4,090	326	47	24	1.4	.54	4.9
30	30	88	222	162	-----	857	285	86	16	1.3	.68	3.3
31	29	-----	231	853	-----	522	-----	53	-----	1.3	.61	-----
TOTAL	1,790	4,540	7,794	13,983	12,840	21,134	19,023	4,776	2,184	195.6	69.73	54.95
MEAN	57.7	151	251	451	459	682	634	154	72.8	6.31	2.25	1.83
MAX	297	632	649	3,250	2,750	4,090	6,910	579	377	12	10	7.1
MIN	21	30	115	141	109	112	72	38	16	1.3	.54	.26
CFSM	.45	1.17	1.95	3.50	3.56	5.29	4.91	1.19	.56	.05	.02	.01
IN.	.52	1.31	2.25	4.03	3.70	6.09	5.49	1.38	.63	.06	.02	.02

CAL YR 1974 TOTAL 65,978.00 MEAN 181 MAX 1,600 MIN 13 CFSM 1.40 IN 19.03  
WTR YR 1975 TOTAL 88,384.28 MEAN 242 MAX 6,910 MIN .26 CFSM 1.88 IN 25.49

PEAK DISCHARGE (BASE, 4,500 FT<sup>3</sup>/S).--Mar. 29 (1300) 6,240 ft<sup>3</sup>/s (16.03 ft); Apr. 24 (2000) 13,400 ft<sup>3</sup>/s (19.94 ft).

03302680 West Fork Blue River at Salem, Ind.

LOCATION (revised).--Lat 38°36'19", long 86°05'40", in SW¼SE¼ sec.17, T.2 N., R.4 E., Washington County, on left bank at downstream side of bridge on East Market Street, 0.35 mile (0.56 km) east of County Court House in Salem, 6.0 miles (9.6 km) upstream from Hoggatt Branch, and 6.9 miles (11.1 km) upstream from mouth.

DRAINAGE AREA.--19.0 mi<sup>2</sup> (49.2 km<sup>2</sup>).

PERIOD OF RECORD.--July 1970 to current year. Prior to December 10, 1970, nonrecording gage at site 0.55 mile (0.88 km) downstream at datum 5.04 ft (1.536 m) lower. Low-flow records not equivalent due to effluent from factory entering stream from right bank between sites.

GAGE.--Water-stage recorder. Datum of gage 713.00 ft (217.322 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 24.6 ft<sup>3</sup>/s (0.697 m<sup>3</sup>/s), 17.58 in/yr (446 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,820 ft<sup>3</sup>/s (108 m<sup>3</sup>/s) Feb. 24, gage height, 11.66 ft (3.554 m); minimum daily, 0.03 ft<sup>3</sup>/s (0.0008 m<sup>3</sup>/s) Sept. 9, 10.  
Period of record: Maximum discharge, 4,430 ft<sup>3</sup>/s (125 m<sup>3</sup>/s) July 10, 1974, gage height, 12.29 ft (3.746 m); minimum daily, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 24, 1970.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	2.4	24	50	80	30	50	23	11	1.2	.06	.14
2	13	3.9	29	37	70	24	42	17	6.9	.99	.05	.07
3	10	12	36	45	55	20	35	15	6.1	.84	.11	.05
4	8.0	181	34	36	47	18	29	14	4.9	.67	.37	.05
5	6.1	72	30	29	58	16	24	12	11	.56	.29	.06
6	5.3	43	26	27	45	15	21	11	7.8	.58	.49	.08
7	4.5	30	58	23	38	26	18	17	4.8	.56	.44	.07
8	4.5	24	75	24	33	18	16	20	4.0	.49	.12	.04
9	3.9	20	53	25	27	16	14	14	3.6	.32	.11	.03
10	3.1	17	39	70	23	19	13	11	3.6	.17	.09	.03
11	2.9	20	32	300	25	20	11	9.3	6.1	.11	.06	104
12	2.9	18	29	90	30	204	9.7	8.8	7.8	.11	.04	7.1
13	3.1	18	23	55	27	78	8.7	7.8	4.4	.65	.04	1.9
14	3.9	19	21	42	24	60	8.8	7.4	4.8	1.1	.06	.98
15	19	17	39	34	22	66	8.5	7.1	4.3	.52	.18	.86
16	11	16	39	28	21	93	8.0	6.4	3.6	.16	.21	.77
17	8.5	15	33	25	23	84	8.0	6.1	6.1	.18	.21	.51
18	7.0	14	27	70	21	121	8.0	5.8	7.4	.17	.12	.72
19	6.2	36	27	50	19	117	21	5.2	3.6	.46	.12	1.3
20	5.8	48	22	40	18	66	16	4.9	2.6	1.2	.14	1.4
21	5.3	33	20	32	17	50	12	4.6	2.1	.67	.11	.80
22	5.3	25	18	28	17	45	10	4.0	1.8	.26	.11	.50
23	4.9	21	17	25	300	95	60	4.9	1.7	.20	.10	.43
24	4.5	27	22	24	600	118	700	4.4	1.2	.16	.08	.65
25	4.2	28	24	28	100	61	400	3.8	1.0	.09	.05	5.9
26	3.4	25	22	23	70	40	150	3.8	35	.07	.05	3.3
27	3.4	23	22	25	50	152	80	7.5	5.2	.06	.05	1.9
28	3.1	20	21	24	36	268	45	3.6	3.1	.05	.06	1.2
29	2.9	17	20	24	-----	193	34	3.8	2.1	.11	.10	.89
30	2.9	17	18	27	-----	82	28	4.0	1.5	.20	.39	.72
31	2.6	-----	31	60	-----	65	-----	25	-----	.08	.11	-----
TOTAL	191.2	862.3	931	1,420	1,896	2,280	1,888.7	292.2	169.1	12.99	4.52	136.45
MEAN	6.17	28.7	30.0	45.8	67.7	73.5	63.0	9.43	5.64	.42	.15	4.55
MAX	20	181	75	300	600	268	700	25	35	1.2	.49	104
MIN	2.6	2.4	17	23	17	15	8.0	3.6	1.0	.05	.04	.03
CFSM	.32	1.51	1.58	2.41	3.56	3.87	3.32	.50	.30	.02	.008	.24
IN.	.37	1.69	1.82	2.78	3.71	4.46	3.70	.57	.33	.03	.008	.27

CAL YR 1974 TOTAL 11,541.19 MEAN 31.6 MAX 789 MIN .08 CFSM 1.66 IN 22.60  
WTR YR 1975 TOTAL 10,084.46 MEAN 27.6 MAX 700 MIN .03 CFSM 1.45 IN 19.74

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S)

NOTE: No gage-height record Jan. 9 to Feb. 27, Mar. 31 to Apr. 8, and Apr. 15-29.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1015	6.10	692	03-27	2345	7.39	1,160
01-11	unknown	unknown	a1,300	04-24	unknown	11.36	3,600
02-24	unknown	11.66	3,820	09-11	1600	6.40	847
03-12	1600	6.84	950				

a estimated



## 03302800 Blue River at Fredericksburg, Ind.

LOCATION.--Lat 38°26'02", long 86°11'31", in NE¼NW¼ sec.16, T.1 S., R.3 E., Washington County, attached to downstream side of bridge on U.S. Highway 150 at Fredericksburg, 0.5 mile (0.8 km) downstream from South Fork Blue River, and at mile 57.1 (91.9 km).

DRAINAGE AREA.--283 mi<sup>2</sup> (733 km<sup>2</sup>), of which 76.9 mi<sup>2</sup> (199.2 km<sup>2</sup>) 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 (179.832 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 321 ft<sup>3</sup>/s (9.091 m<sup>3</sup>/s), 15.40 in/yr (391 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) Apr. 24, gage height, 22.88 ft (6.974 m); minimum daily, 7.9 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Aug. 28.

Period of record: Maximum discharge, 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) Apr. 24, 1975, gage height, 22.88 ft (6.974 m); minimum daily, 6.1 ft<sup>3</sup>/s (0.17 m<sup>3</sup>/s) Oct. 18, 1968.

Flood of Jan. 21, 1959 reached a stage of 29.20 ft (8.900 m), from floodmark, on left upstream wingwall.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	38	267	809	1,120	547	776	582	270	33	13	16
2	176	42	405	601	1,060	452	633	486	142	31	13	12
3	127	77	510	621	850	371	552	415	113	29	12	10
4	102	1,200	442	617	701	316	430	376	95	24	13	9.1
5	87	1,060	379	488	785	283	370	320	84	24	20	8.5
6	74	500	328	424	744	259	317	294	161	21	22	9.9
7	63	357	400	363	592	308	275	1,330	108	18	18	12
8	56	273	1,110	327	493	353	247	764	77	23	17	11
9	52	223	761	498	424	266	226	931	64	20	16	9.3
10	48	188	546	1,010	331	274	219	565	59	19	22	8.3
11	43	188	445	4,500	344	298	196	418	95	18	31	20
12	39	232	404	1,340	450	3,040	174	337	207	18	17	312
13	37	199	341	856	416	1,730	157	272	145	19	17	61
14	37	198	293	633	351	1,070	147	228	90	23	22	32
15	107	191	317	514	322	831	149	202	92	21	20	24
16	212	170	586	414	301	1,260	138	177	78	19	18	19
17	120	154	457	330	318	1,120	137	154	65	18	84	16
18	91	141	378	879	326	890	134	140	197	18	37	17
19	76	165	350	880	290	2,240	358	125	125	24	23	17
20	67	545	314	630	261	1,220	279	113	77	22	18	19
21	59	370	281	493	242	839	200	104	60	21	15	20
22	52	275	247	413	245	766	173	95	55	18	13	16
23	49	224	223	365	4,480	656	427	89	50	17	12	14
24	48	262	246	343	8,350	2,740	6,440	102	47	16	12	14
25	48	449	386	358	1,760	1,360	10,000	104	45	14	11	17
26	45	361	366	364	1,050	808	3,030	89	42	14	9.5	28
27	41	305	335	289	787	649	1,350	138	309	13	8.6	30
28	40	262	335	265	655	4,170	943	93	85	13	7.9	24
29	39	212	300	272	-----	4,950	728	81	54	12	8.0	20
30	38	186	280	313	-----	1,750	590	92	40	13	9.5	16
31	38	-----	280	878	-----	1,050	-----	126	-----	15	23	-----
TOTAL	2,376	9,047	12,312	21,087	28,048	36,866	29,795	9,342	3,131	608	582.5	842.1
MEAN	76.6	302	397	680	1,002	1,189	993	301	104	19.6	18.8	28.1
MAX	265	1,200	1,110	4,500	8,350	4,950	10,000	1,330	309	33	84	312
MIN	37	38	223	265	242	259	134	81	40	12	7.9	8.3
CFSM	.27	1.07	1.40	2.40	3.54	4.20	3.51	1.06	.37	.07	.07	.10
IN.	.31	1.19	1.62	2.77	3.69	4.85	3.92	1.23	.41	.08	.08	.11
CAL YR 1974	TOTAL	131,917.0	MEAN	361	MAX	4,950	MIN	12	CFSM	1.28	IN	17.34
WTR YR 1975	TOTAL	154,036.6	MEAN	422	MAX	10,000	MIN	7.9	CFSM	1.49	IN	20.25

PEAK DISCHARGE (BASE, 2,100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	2000	10.88	3,030	03-19	0900	11.12	3,150	03-29	1200	16.17	6,200
01-11	0800	16.26	6,260	03-24	1100	12.68	3,970	04-24	2400	22.88	12,000
02-24	0700	22.08	11,300	03-28	1300	16.25	6,250	05-07	0700	9.21	2,280
03-12	1600	15.17	5,500								

03303000 Blue River near White Cloud, Ind.

LOCATION.--Lat 38°14'15", long 86°13'42", in NW¼SE¼ sec.19, T.3 S., R.3 E., Harrison County, on left bank 400 ft (122 m) downstream from Spring Creek, 600 ft (183 m) upstream from bridge on Interstate 64, 0.2 mile (0.3 km) upstream from bridge on State Highway 62, 0.8 mile (1.3 km) north of White Cloud, and at mile 14.7 (23.6 km).

DRAINAGE AREA.--476 mi<sup>2</sup> (1,233 km<sup>2</sup>), of which 192 mi<sup>2</sup> (497 km<sup>2</sup>) 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.

PERIOD OF RECORD.--WATER DISCHARGE: October 1930 to current year. Monthly figures only for some periods, published in WSP 1305. SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 434.26 ft (132.362 m) above mean sea level (levels by State of Indiana, Department of Natural Resources from adjusted elevation of U.S. Coast and Geodetic Survey bench mark). Prior to Nov. 16, 1938, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 618 ft<sup>3</sup>/s (17.50 m<sup>3</sup>/s), 17.63 in/yr (448 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566	113	465	1,140	2,420	1,170	1,770	1,290	534	136	47	26
2	406	201	681	1,330	2,070	997	1,400	1,140	517	116	41	26
3	319	263	883	1,170	1,860	850	1,220	992	364	105	43	26
4	267	1,170	882	1,240	1,470	736	1,010	924	303	98	46	30
5	231	2,670	756	1,050	1,460	665	864	828	272	93	51	30
6	216	1,160	663	895	1,430	616	771	735	248	89	53	30
7	185	757	686	796	1,260	780	695	1,520	282	85	58	29
8	163	592	1,430	715	1,050	837	634	1,660	278	81	58	27
9	148	496	1,560	831	919	704	591	1,800	222	75	55	26
10	138	434	1,120	1,670	796	656	557	1,300	197	72	51	27
11	127	424	895	6,910	716	709	530	998	296	70	47	38
12	116	479	779	3,840	904	4,070	489	822	505	70	44	60
13	107	488	702	1,920	946	5,080	451	704	460	68	94	270
14	103	456	606	1,380	789	2,420	427	608	371	72	80	127
15	216	438	596	1,090	713	1,810	414	551	296	92	54	71
16	302	414	847	914	670	1,960	402	509	265	79	52	52
17	372	385	889	767	649	1,930	389	468	261	68	60	43
18	280	360	764	1,300	673	1,700	386	436	345	64	60	40
19	235	350	688	2,010	628	3,290	648	405	364	60	92	38
20	209	651	657	1,380	580	2,850	795	386	326	56	66	38
21	192	797	597	1,090	540	1,810	575	360	261	63	51	38
22	178	577	548	919	531	1,510	492	337	228	65	39	36
23	166	481	503	805	5,770	1,450	839	314	203	60	37	34
24	160	482	621	746	14,000	4,180	9,320	296	174	58	34	37
25	152	692	782	735	6,950	3,590	18,900	282	157	54	32	46
26	149	740	823	745	2,430	1,880	11,500	286	144	48	29	50
27	141	626	760	665	1,710	1,390	3,590	300	160	44	28	47
28	131	558	736	587	1,380	5,050	2,330	371	318	45	30	42
29	123	488	694	566	-----	9,900	1,740	300	251	49	29	53
30	117	433	639	613	-----	5,210	1,390	272	168	45	31	49
31	110	-----	641	1,470	-----	2,520	-----	289	-----	47	29	-----
TOTAL	6,325	18,175	23,893	41,289	55,314	72,320	65,119	21,483	8,770	2,227	1,521	1,486
MEAN	204	606	771	1,332	1,976	2,333	2,171	693	292	71.8	49.1	49.5
MAX	566	2,670	1,560	6,910	14,000	9,900	18,900	1,800	534	136	94	270
MIN	103	113	465	566	531	616	386	272	144	44	28	26
CFSM	.43	1.27	1.62	2.80	4.15	4.90	4.56	1.46	.61	.15	.10	.10
IN.	.49	1.42	1.87	3.23	4.32	5.65	5.09	1.68	.69	.17	.12	.12
CAL YR 1974	TOTAL 263,064	MEAN 721	MAX 6,650	MIN 51	CFSM 1.51	IN 20.56						
WTR YR 1975	TOTAL 317,922	MEAN 871	MAX 18,900	MIN 26	CFSM 1.83	IN 24.85						

PEAK DISCHARGE (BASE, 7,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1800	11.39	8,150	03-29	0400	13.61	11,500
02-24	2200	15.50	14,600	04-25	1800	19.23	21,700

## 03303000 Blue River near White Cloud, Ind.--Continued

EXTREMES.--Current year: Maximum discharge, 21,700 ft<sup>3</sup>/s (615 m<sup>3</sup>/s) Apr. 25, gage height, 19.23 ft (5.861 m); minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 1-3, 9.  
 Period of record: Maximum discharge, 28,500 ft<sup>3</sup>/s (807 m<sup>3</sup>/s) Jan. 22, 1959, gage height, 23.07 ft (7.032 m); minimum daily, 9.6 ft<sup>3</sup>/s (0.27 m<sup>3</sup>/s) Oct. 17, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1921-32, 1933(M), 1935-38(M), 1944. WSP 1385: Drainage area. WSP 1555: 1953. Revised figures of discharge, in cubic feet per second, for the 1973 water year, superseding figures published in WRD Ind. 1973 are given below:

Mar. 21, 1973.....2,130

Month	Ft <sup>3</sup> /s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
March 1973.....	67,404	5,920	289	2,174	4.57	5.27
Water year 1973..	343,996	13,600	25	942	1.98	26.88
Cal year 1973....	306,407	13,600	27	839	1.76	23.95

## ANDERSON RIVER BASIN

03303300 Middle Fork Anderson River at Bristow, Ind.

LOCATION.--Lat 38°08'19", long 86°43'16", in SW¼NE¼ 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 (3.2 km) downstream from Coon Branch, 5.8 miles (9.3 km) (revised) upstream from Sulphur Fork Creek, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--39.8 mi<sup>2</sup> (103.1 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: August 1961 to current year.

SEDIMENT DISCHARGE: March 1964 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 395.00 ft (120.396 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 55.6 ft<sup>3</sup>/s (1.575 m<sup>3</sup>/s), 18.97 in/yr (482 mm/yr).

EXTREMES.--Current year: Maximum discharge 1,810 ft<sup>3</sup>/s (51.3 m<sup>3</sup>/s) Apr. 24, gage height, 16.19 ft (4.935 m); no flow Aug. 12-14, 21-27.

Period of record: Maximum discharge, 6,360 ft<sup>3</sup>/s (180 m<sup>3</sup>/s) Mar. 9, 1964; maximum gage height, 19.33 ft (5.892 m) Mar. 4, 1964; no flow at times most years.

Flood of Jan. 21, 1959, reached a stage of 20.0 ft (6.096 m), from floodmark, discharge, 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s), from rating curve extended above 7,000 ft<sup>3</sup>/s (198 m<sup>3</sup>/s). This is the maximum flood since 1905, from information by local resident.

REMARKS.--Records good. Flow regulated by Soil Conservation Service control structures beginning June 1967.

REVISIONS.--WRD Ind. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	8.7	70	200	303	331	356	427	15	3.1	.84	.28
2	50	31	103	124	246	138	234	372	11	2.8	.97	.11
3	33	58	98	169	158	62	87	255	9.0	2.5	.74	.04
4	25	360	77	136	133	51	62	79	7.3	2.2	1.1	.01
5	20	375	62	93	135	46	52	53	6.4	2.1	1.3	.15
6	15	221	51	74	133	42	45	43	10	1.7	1.9	.35
7	13	96	144	61	106	144	41	39	7.0	1.1	.68	.37
8	11	65	281	62	89	133	37	59	6.0	.80	.32	.28
9	9.5	49	159	76	77	93	35	88	5.8	.64	.16	.14
10	8.0	38	99	238	66	86	35	66	6.0	.95	.08	.06
11	7.4	112	76	505	66	119	32	50	67	.67	.04	5.5
12	7.3	116	67	391	133	547	29	41	52	.38	0	3.0
13	7.8	84	57	259	107	407	26	34	28	.45	0	.93
14	8.4	65	48	109	88	382	25	28	18	.39	0	.51
15	38	51	60	85	77	284	25	24	13	.25	.05	.34
16	35	40	75	74	69	153	24	21	8.9	.19	.28	.47
17	26	34	64	64	72	113	25	18	9.2	.23	.11	.49
18	20	30	53	266	69	114	25	16	15	.40	.13	.26
19	17	32	53	237	62	248	117	13	8.3	.76	.06	.26
20	14	47	47	149	56	172	83	12	5.7	8.8	.02	.43
21	12	43	42	109	51	120	60	10	4.4	3.0	0	.37
22	10	35	37	88	73	175	47	9.0	4.2	2.5	0	.34
23	9.1	30	33	77	800	175	240	8.0	4.1	2.1	0	.33
24	8.1	77	152	70	548	434	856	7.5	4.0	1.8	0	.62
25	7.6	113	149	72	468	346	765	6.9	3.9	1.3	0	3.0
26	7.2	83	98	68	449	252	506	6.2	3.8	1.2	0	3.0
27	6.7	65	86	60	428	130	479	6.3	3.6	1.0	0	2.4
28	6.7	51	80	56	401	394	467	5.9	3.6	.82	.26	1.9
29	7.2	40	68	55	-----	617	451	8.3	3.5	.74	.47	1.5
30	7.9	36	59	63	-----	427	436	7.0	3.4	.71	1.2	1.1
31	8.0	-----	93	294	-----	400	-----	9.4	-----	.68	.41	-----
TOTAL	537.9	2,485.7	2,641	4,384	5,463	7,135	5,702	1,822.5	347.1	46.26	11.12	28.54
MEAN	17.4	82.9	85.2	141	195	230	190	58.8	11.6	1.49	.36	.95
MAX	82	375	281	505	800	617	856	427	67	8.8	1.9	5.5
MIN	6.7	8.7	33	55	51	42	24	5.9	3.4	.19	0	.01
CFSM	.44	2.08	2.14	3.54	4.90	5.78	4.77	1.48	.29	.04	.009	.02
IN.	.50	2.32	2.47	4.10	5.11	6.67	5.33	1.70	.32	.04	.01	.03
CAL YR 1974	TOTAL	24,590.15	MEAN	67.4	MAX	615	MIN	0	CFSM	1.69	IN	22.98
WTR YR 1975	TOTAL	30,604.12	MEAN	83.8	MAX	856	MIN	0	CFSM	2.11	IN	28.60

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
DEC. 03...	1410	6.0	95	12	3.1



## CROOKED CREEK BASIN

03303400 Crooked Creek at Santa Claus, Ind.

LOCATION.--Lat 38°07'05", long 86°53'24", in SW¼SE¼ sec.31, T.4 S., R.4 W., Spencer County, on right bank at upstream side of bridge on county road, 1.3 miles (2.1 km) east of Santa Claus Post Office, and 1.8 miles (2.9 km) upstream from unnamed right-bank tributary.

DRAINAGE AREA.--7.86 mi<sup>2</sup> (20.36 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 404.34 ft (123.243 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 12.7 ft<sup>3</sup>/s (0.360 m<sup>3</sup>/s), 21.94 in/yr (557 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,940 ft<sup>3</sup>/s (54.9 m<sup>3</sup>/s) Feb. 23, gage height, 9.38 ft (2.859 m); no flow July 3-16, 18, 24-29, Aug. 1, 6-13, 18-29, Sept. 8-10, 21, 22.

Period of record: Maximum discharge, 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) Apr. 28, 1970, gage height, 9.74 ft (2.969 m), from rating curve extended above 450 ft<sup>3</sup>/s (12.7 m<sup>3</sup>/s) on basis of two indirect measurements of peak flow at site 1.6 miles (2.6 km) downstream, drainage area, 16.0 mi<sup>2</sup> (41.4 km<sup>2</sup>), adjusted to gage site; no flow many days each year.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.21	35	37	42	10	13	12	2.7	.03	0	.13
2	.60	29	31	15	37	7.1	12	6.1	1.1	.01	.05	.07
3	.45	30	18	51	17	4.9	8.8	5.2	.98	0	3.5	.03
4	.30	169	10	21	21	4.0	7.2	3.8	.78	0	.10	.02
5	.25	23	6.5	12	22	3.4	6.3	1.7	.72	0	.02	11
6	.20	18	4.7	9.6	20	3.0	5.7	1.0	.85	0	0	2.4
7	.18	13	99	6.5	11	58	5.1	13	.49	0	0	.06
8	.15	7.5	65	36	8.2	17	4.3	42	.35	0	0	0
9	.13	4.4	19	24	5.0	11	4.1	25	.27	0	0	0
10	.12	2.7	12	221	3.4	17	3.9	14	.31	0	0	0
11	.10	59	9.2	111	6.5	67	3.3	9.2	40	0	0	18
12	.09	19	7.9	24	38	244	2.7	6.5	8.2	0	0	14
13	.11	11	5.3	14	12	31	2.4	3.9	2.1	0	0	.48
14	.20	5.9	3.5	7.9	8.6	37	2.5	2.7	1.1	0	.05	.16
15	17	2.7	15	6.7	6.4	61	2.5	2.0	.86	0	.02	.07
16	6.1	1.7	13	4.9	5.3	43	2.3	1.5	.55	0	.50	.04
17	2.2	1.3	8.5	2.6	9.4	24	2.6	1.2	8.6	.05	.05	.03
18	1.1	1.0	4.9	105	6.2	65	2.8	1.1	6.4	0	0	.03
19	.73	4.9	7.9	30	3.6	73	23	.93	.98	.20	0	.02
20	.41	8.5	4.9	18	2.2	22	7.0	.80	.65	15	0	.04
21	.23	3.2	3.3	12	1.6	15	4.2	.72	.48	1.0	0	.03
22	.21	1.5	1.4	9.0	33	59	3.1	.64	.37	.10	0	0
23	.21	1.1	1.6	7.6	833	69	149	.57	.26	.03	0	0
24	.21	41	64	7.3	78	99	387	.70	.20	0	0	.05
25	.16	20	29	10	32	20	249	.82	.16	0	0	2.7
26	.11	9.6	14	6.6	22	12	29	.73	.17	0	0	.76
27	.08	6.3	16	3.9	16	24	16	.77	.16	0	0	.34
28	.08	3.3	14	3.4	13	226	11	.42	.16	0	0	.22
29	.11	1.6	11	4.6	-----	236	7.2	6.6	.10	0	0	.16
30	.12	3.2	8.5	12	-----	29	7.1	1.9	.05	1.0	.80	.13
31	.06	-----	45	146	-----	18	-----	7.3	-----	.10	.24	-----
TOTAL	33.50	502.61	588.1	979.6	1,313.4	1,609.4	984.1	174.80	80.10	17.52	5.33	50.97
MEAN	1.08	16.8	19.0	31.6	46.9	51.9	32.8	5.64	2.67	.57	.17	1.70
MAX	17	169	99	221	833	244	387	42	40	15	3.5	18
MIN	.06	.21	1.4	2.6	1.6	3.0	2.3	.42	.05	0	0	0
CFSM	.14	2.14	2.42	4.02	5.97	6.60	4.17	.72	.34	.07	.02	.22
IN.	.16	2.38	2.78	4.64	6.22	7.62	4.66	.83	.38	.08	.03	.24

CAL YR 1974 TOTAL 4,407.22 MEAN 12.1 MAX 396 MIN 0 CFSM 1.54 IN 20.86  
WTR YR 1975 TOTAL 6,339.43 MEAN 17.4 MAX 833 MIN 0 CFSM 2.21 IN 30.00

PEAK DISCHARGE (BASE, 500 FT<sup>3</sup>/S)NOTE: No gage-height record  
July 10 to Aug. 26.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	0915	8.78	551	03-29	0130	8.95	746
01-10	1815	8.79	555	04-24	1115	9.14	1,150
02-23	1630	9.38	1,940	04-25	0500	9.02	860
03-12	0545	8.92	705				

## 03322100 Pigeon Creek at Evansville, Ind.

LOCATION.--Lat 38°00'14", long 87°32'19", in NE¼NW¼ sec.16, T.6 S., R.10 W., Vanderburgh County, on left bank in the median strip of Old U.S. 41, between two steel truss bridges at Evansville, and at mile 6.0 (9.6 km) (revised).

DRAINAGE AREA.--323 mi<sup>2</sup> (837 km<sup>2</sup>).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 352.24 ft (107.363 m) above mean sea level. Nonrecording auxiliary gage at site 1.2 miles (1.9 km) (revised) upstream at same datum. Prior to October 1, 1968, water-stage recorder, and October 1, 1968, to September 30, 1971, nonrecording gage at site 1.2 miles (1.9 km) (revised) upstream, was used as base gage, and present base gage was used as auxiliary gage.

AVERAGE DISCHARGE.--15 years, 334 ft<sup>3</sup>/s (9.459 m<sup>3</sup>/s), 14.04 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) Apr. 28; maximum gage height, 20.36 ft (6.206 m) Mar. 31 (backwater from Ohio River); minimum daily discharge, 7.8 ft<sup>3</sup>/s (0.221 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 12,100 ft<sup>3</sup>/s (343 m<sup>3</sup>/s) May 10, 1961, gage height, 27.94 ft (8.52 m); minimum daily (unaffected by backwater), 1.0 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) 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 for periods of backwater from the Ohio River, which are poor.

REVISIONS (WATER YEARS).--WSP 2109: 1960. WRD Ind. 1972: 1971.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	33	273	900	2,000	950	2,100	1,900	153	21	9.0	100
2	217	75	600	870	1,700	500	1,100	1,150	130	20	12	65
3	118	250	612	1,130	1,650	370	710	2,200	75	17	340	43
4	86	1,440	454	860	1,400	320	600	2,200	59	18	897	27
5	67	1,130	180	450	540	300	450	450	69	23	408	16
6	53	1,180	170	300	400	400	350	170	64	25	177	14
7	41	1,130	796	230	300	1,330	270	200	61	33	163	15
8	38	775	1,310	400	230	1,250	200	390	50	31	77	12
9	33	550	1,040	970	200	1,000	150	890	42	22	47	10
10	30	460	1,100	1,540	170	562	130	1,250	44	29	40	7.8
11	27	759	734	2,790	160	913	120	1,280	262	23	37	82
12	31	804	594	2,700	200	2,850	110	462	469	18	31	451
13	37	734	420	2,500	260	2,980	106	217	200	32	25	241
14	37	422	350	2,200	320	2,200	93	151	104	60	26	71
15	140	255	450	1,170	220	2,300	99	119	72	30	98	40
16	210	193	661	400	240	2,100	97	100	55	21	341	30
17	175	160	454	170	190	1,300	90	86	123	15	229	23
18	110	141	264	420	150	1,100	96	79	550	13	112	20
19	62	153	227	440	140	1,600	382	75	287	12	55	19
20	51	470	233	370	130	900	533	67	118	145	39	18
21	44	483	184	300	116	660	253	61	76	511	26	21
22	39	255	161	250	577	650	141	58	52	202	20	21
23	34	180	140	200	3,240	630	1,000	55	43	67	16	18
24	32	421	567	220	4,110	1,400	3,900	52	36	37	14	38
25	32	756	824	260	3,900	900	5,360	51	30	25	14	69
26	32	679	511	190	3,800	600	5,700	77	27	18	11	56
27	31	370	276	160	3,400	700	5,800	119	27	14	9.6	40
28	30	217	266	140	2,400	1,650	6,000	76	27	13	9.0	33
29	32	158	251	200	-----	3,300	4,800	70	26	12	60	27
30	40	138	425	500	-----	2,600	2,800	101	23	13	500	21
31	34	-----	847	2,000	-----	2,400	-----	119	-----	14	300	-----
TOTAL	2,546	14,771	15,374	25,230	32,143	40,715	43,540	14,275	3,354	1,534	4,142.6	1,648.8
MEAN	82.1	492	496	814	1,148	1,313	1,451	460	112	49.5	134	55.0
MAX	603	1,440	1,310	2,790	4,110	3,300	6,000	2,200	550	511	897	451
MIN	27	33	140	140	116	300	90	51	23	12	9.0	7.8
CFSM	.25	1.52	1.54	2.52	3.55	4.07	4.49	1.42	.35	.15	.41	.17
IN.	.29	1.70	1.77	2.91	3.70	4.69	5.01	1.64	.39	.18	.48	.19
CAL YR 1974	TOTAL 149,831.0	MEAN 410	MAX 3,100	MIN 10	CFSM 1.27	IN 17.26						
WTR YR 1975	TOTAL 199,273.4	MEAN 546	MAX 6,000	MIN 7.8	CFSM 1.69	IN 22.95						

03322500 Wabash River near New Corydon, Ind.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE¼SE¼ sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft (3 m) downstream from county bridge on Indiana-Ohio State line road, 2 miles (3 km) east of New Corydon, 2.8 miles (4.5 km) downstream from Beaver Creek, and at mile 465.6 (749.2 km).

DRAINAGE AREA.--262 mi<sup>2</sup> (678 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: April 1951 to current year.

CHEMICAL ANALYSES: July 1969 to June 1973.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft (253.014 m) above mean sea level. Prior to June 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 198 ft<sup>3</sup>/s (5.607 m<sup>3</sup>/s), 10.26 in/yr (261 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,540 ft<sup>3</sup>/s (157 m<sup>3</sup>/s) Feb. 24, gage height, 18.85 ft (5.745 m); minimum daily, 8.0 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Oct. 23.

Period of record: Maximum discharge, 8,720 ft<sup>3</sup>/s (247 m<sup>3</sup>/s) Jan. 22, 1959, gage height, 20.47 ft (6.239 m), from flood-marks; minimum daily, 0.8 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s) Dec. 22, 23, 1963.

REMARKS.--Records fair. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	16	1,100	531	325	433	378	33	19	11	49
2	10	15	24	525	407	221	371	378	30	17	11	31
3	9.5	39	79	354	349	196	351	175	72	16	53	23
4	9.5	36	65	406	319	215	311	132	49	16	99	65
5	9.5	177	74	303	329	217	294	101	46	16	47	47
6	8.6	129	100	259	701	208	286	91	175	16	62	49
7	8.4	69	114	248	444	466	278	81	138	17	29	26
8	8.2	45	861	852	342	544	255	72	62	51	18	18
9	8.2	32	853	1,880	275	320	151	64	41	24	14	15
10	8.8	25	370	1,340	250	265	136	59	34	16	13	14
11	8.5	23	283	1,560	230	244	125	54	38	15	42	16
12	9.0	23	804	726	220	616	67	59	81	14	85	58
13	9.2	23	979	368	210	638	53	60	58	14	34	40
14	10	115	846	254	200	358	50	50	45	16	66	25
15	9.5	98	918	230	240	273	49	47	240	15	93	17
16	9.8	51	1,270	205	350	258	46	41	356	13	71	15
17	10	36	647	190	600	277	44	40	126	13	33	14
18	9.0	29	377	180	900	908	49	37	81	21	21	14
19	8.5	25	287	170	1,200	2,450	72	30	57	111	17	17
20	8.2	80	245	160	1,100	1,430	60	30	55	47	15	24
21	8.3	106	237	155	760	724	44	28	133	25	13	30
22	8.2	60	224	150	900	526	45	68	70	18	13	18
23	8.0	41	297	145	2,200	411	50	77	166	15	203	15
24	8.7	35	1,630	185	4,300	414	468	48	51	17	92	13
25	10	42	1,460	459	2,320	387	408	37	52	15	44	13
26	9.6	52	637	606	1,220	312	181	34	93	13	36	13
27	9.3	39	353	302	690	294	117	29	44	13	34	12
28	10	33	272	245	471	309	585	26	32	12	18	10
29	9.0	26	248	1,430	-----	2,050	354	26	27	11	20	9.2
30	9.0	22	270	1,450	-----	1,340	168	27	22	11	70	8.2
31	11	-----	432	728	-----	620	-----	29	-----	11	53	-----
TOTAL	284.5	1,539	15,272	17,165	22,058	17,816	5,901	2,408	2,507	648	1,430	718.4
MEAN	9.18	51.3	493	554	788	575	197	77.7	83.6	20.9	46.1	23.9
MAX	11	177	1,630	1,880	4,300	2,450	585	378	356	111	203	65
MIN	8.0	13	16	145	200	196	44	26	22	11	11	8.2
CFSM	.04	.20	1.88	2.11	3.01	2.19	.75	.30	.32	.08	.18	.09
IN.	.04	.22	2.17	2.44	3.13	2.53	.84	.34	.36	.09	.20	.10

CAL YR 1974 TOTAL 88,889.7 MEAN 244 MAX 4,490 MIN 7.0 CFSM .93 IN 12.67  
WTR YR 1975 TOTAL 87,746.9 MEAN 240 MAX 4,300 MIN 8.0 CFSM .92 IN 12.46

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0300	18.85	5,540	03-29	1300	16.51	2,550
03-19	1100	16.62	2,650				

03322900 Wabash River at Linn Grove, Ind.

LOCATION.--Lat 40°39'22", long 85°01'58", in SE¼SE¼ sec.34, T.26 N., R.13 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on State Highway 118, 800 ft (244 m) downstream from Shoemaker ditch, 0.8 mile (1.3 km) north of Linn Grove, and 2.2 miles (3.5 km) upstream from Rice ditch.

DRAINAGE AREA.--453 mi<sup>2</sup> (1,173 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: September 1964 to current year.

SEDIMENT DISCHARGE: July 1971 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 808.00 ft (246.278 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 377 ft<sup>3</sup>/s (10.68 m<sup>3</sup>/s), 11.30 in/yr (287 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) Feb. 24, gage height, 12.71 ft (3.874 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Oct. 7-11, 13.

Period of record: Maximum discharge, 6,620 ft<sup>3</sup>/s (187 m<sup>3</sup>/s) Dec. 11, 1966, gage height, 13.01 ft (3.965 m); minimum daily, 5.1 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Oct. 8, 1964.

Flood in April 1964 reached a stage of 13.13 ft (4.002 m), from floodmark, discharge, 6,900 ft<sup>3</sup>/s (195 m<sup>3</sup>/s).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	48	1,150	1,680	1,090	1,490	480	73	45	17	92
2	11	13	59	1,280	1,080	692	765	712	151	36	17	64
3	11	14	54	951	707	461	552	500	342	31	18	40
4	11	22	119	752	541	410	471	330	251	28	42	41
5	11	667	117	624	507	407	413	252	163	27	127	109
6	11	735	142	478	867	400	388	204	173	26	75	166
7	10	376	178	440	937	462	378	179	349	26	90	89
8	10	207	844	923	655	777	372	158	250	26	40	39
9	10	142	1,390	1,570	440	775	319	141	136	51	25	23
10	10	98	1,370	2,100	380	554	233	122	86	35	20	18
11	10	76	791	2,480	350	477	212	107	156	24	19	19
12	11	66	942	2,450	330	637	191	105	214	22	37	96
13	10	60	1,480	1,400	320	1,010	126	113	181	22	109	138
14	11	318	1,700	900	310	944	98	107	163	21	49	74
15	12	420	1,790	500	308	591	91	90	482	21	209	39
16	14	223	1,830	400	372	498	90	82	622	21	296	27
17	13	151	1,820	340	765	506	84	72	507	20	140	23
18	14	119	1,490	282	1,490	795	85	68	261	20	52	21
19	13	96	857	280	1,920	1,520	279	64	172	29	32	21
20	13	99	545	260	1,810	2,450	256	59	118	147	22	24
21	13	202	410	250	1,280	2,360	168	54	180	71	24	43
22	14	186	379	265	1,040	1,580	130	334	240	35	22	49
23	14	124	417	246	2,330	939	133	263	349	25	44	32
24	16	98	1,290	241	4,630	677	682	181	329	22	292	24
25	15	105	1,750	541	5,640	612	1,160	127	178	21	147	20
26	14	109	1,970	956	4,340	490	692	118	871	21	105	19
27	15	105	1,540	748	2,820	413	372	84	432	20	191	19
28	14	87	795	457	1,780	406	1,040	48	181	19	68	19
29	13	70	503	1,360	-----	1,410	1,210	54	98	18	38	18
30	13	57	485	1,880	-----	2,260	669	52	62	18	208	17
31	12	-----	584	2,160	-----	2,400	-----	56	-----	17	169	-----
TOTAL	381	5,057	27,689	28,664	39,629	29,003	13,149	5,316	7,770	965	2,744	1,423
MEAN	12.3	169	893	925	1,415	936	438	171	259	31.1	88.5	47.4
MAX	16	735	1,970	2,480	5,640	2,450	1,490	712	871	147	296	166
MIN	10	12	48	241	308	400	84	48	62	17	17	17
CFSM	.03	.37	1.97	2.04	3.12	2.07	.97	.38	.57	.07	.20	.10
IN.	.03	.42	2.27	2.35	3.25	2.38	1.08	.44	.64	.08	.23	.12

CAL YR 1974 TOTAL 165,762.2 MEAN 454 MAX 5,900 MIN 8.2 CFSM 1.00 IN 13.41  
WTR YR 1975 TOTAL 161,790.0 MEAN 443 MAX 5,640 MIN 10 CFSM .98 IN 13.29

PEAK DISCHARGE (BASE, 1,900 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-15	1800	8.72	1,930	02-24	2100	12.71	6,000
12-26	0800	8.84	2,000	03-20	1900	9.87	2,670
01-11	2400	9.69	2,550	03-31	0100	9.86	2,660
01-31	0600	9.19	2,220				

## WABASH RIVER BASIN

03322900 Wabash River at Linn Grove, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 24...	1135	11.0	15	136	5.8	--	--
NOV. 29...	1340	3.0	66	12	2.2	--	--
JAN. 02...	1630	2.0	1480	181	723	84	89
FEB. 24...	1430	--	5810	992	15600	80	92
APR. 07...	1510	10.0	372	67	67	--	--
MAY 19...	1440	24.0	63	68	12	--	--
JUNE 30...	1745	27.0	57	148	23	--	--
AUG. 07...	1425	25.0	80	171	37	--	--
SEP. 11...	1315	21.0	17	132	6.3	--	--

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. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT. 24...	--	--	--	--	--	--	--
NOV. 29...	--	--	--	--	--	--	--
JAN. 02...	93	96	98	99	99	100	--
FEB. 24...	95	96	97	98	98	98	100
APR. 07...	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--
JUNE 30...	--	--	--	--	--	--	--
AUG. 07...	--	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	--



03323450 Huntington Lake near Huntington, Ind.

LOCATION.--Lat 40°50'43", long 85°28'06", in SW¼SW¼ sec.25, T.28 N., R.9 E., Huntington County, on right bank of reservoir on Wabash River at upstream side of State Highway 5, 1.5 miles (2.4 km) southeast of Huntington, and at mile 411.4 (661.9 km).

DRAINAGE AREA.--717 mi<sup>2</sup> (1,857 km<sup>2</sup>).

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 (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 36,350 acre-ft (44.8 hm<sup>3</sup>) Feb. 27, elevation, 767.70 ft (233.995 m); minimum, 1,760 acre-ft (2.17 hm<sup>3</sup>) Nov. 18, elevation, 731.27 ft (222.891 m).

Period of record: Maximum contents, 76,450 acre-ft (94.3 hm<sup>3</sup>) Jan. 28, 1974, elevation, 783.64 ft (238.853 m); minimum, 1,760 acre-ft (2.17 hm<sup>3</sup>) Nov. 18, 1974, elevation, 731.27 ft (222.891 m), 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 (1.83 m) wide and 6.0 ft (1.83 m) high and by spillway, crest elevation, 765 ft (233.2 m), with three taintor gates, 45 ft (13.7 m) by 36.5 ft (11.13 m) setting atop spillway. Minimum design capacity is 4,100 acre-ft (5.06 hm<sup>3</sup>), elevation, 737 ft (224.6 m). Seasonal pool capacity is 12,500 acre-ft (15.4 hm<sup>3</sup>), elevation, 749 ft (228.3 m). Capacity at flood control pool is 153,100 acre-ft (189 hm<sup>3</sup>), elevation, 798 ft (243.2 m). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	749.01	12,490	-
Oct. 31.....	743.56	8,090	-4,400
Nov. 30.....	737.12	4,180	-3,910
Dec. 31.....	737.10	4,170	-10
Calendar year 1974.....	-	-	-24,990
Jan. 31.....	744.39	8,690	+4,520
Feb. 28.....	766.28	33,920	+25,230
Mar. 31.....	743.15	7,800	-26,120
Apr. 30.....	751.29	14,640	+6,840
May 31.....	749.27	12,730	-1,910
June 30.....	749.00	12,480	-250
July 31.....	749.08	12,550	+70
Aug. 31.....	749.69	13,110	+560
Sept. 30.....	746.71	10,500	-2,610
Water year 1975.....	-	-	-1,990

## WABASH RIVER BASIN

03323500 Wabash River at Huntington, Ind.

LOCATION.--Lat 40°51'20", long 85°29'53", in SW¼NE¼ sec.27, T.28 N., R.9 E., Huntington County, on right bank at the Huntington Water and Light Plant, 2 miles (3 km) south of Huntington, 2.4 miles (3.9 km) downstream from Huntington Lake, 3.2 miles (5.1 km) upstream from Little River, and at mile 409.0 (658.1 km).

DRAINAGE AREA.--721 mi<sup>2</sup> (1,867 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: January 1951 to September 1974.  
WATER TEMPERATURE: October 1963 to current year.

GAGE.--WATER DISCHARGE: Datum of gage is 700.04 ft (213.372 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 5, 1951, nonrecording gage at same site and datum. July 6, 1951 to Sept. 30, 1974 water-stage recorder at same site and datum.

WATER TEMPERATURE: Temperature recorder.

AVERAGE DISCHARGE.--23 years, 612 ft<sup>3</sup>/s (17.33 m<sup>3</sup>/s), 11.52 in/yr (293 mm/yr).

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	15.0	14.0	14.0	4.0	3.5	1.5	1.5	1.0	1.0	1.5	1.5
2	15.5	14.5	14.0	13.5	4.0	3.5	1.5	1.5	1.0	1.0	1.5	1.0
3	15.0	13.5	13.5	13.5	4.0	4.0	1.5	1.5	1.0	1.0	1.0	1.0
4	16.0	14.5	13.5	13.0	4.0	4.0	1.5	1.5	1.0	1.0	1.0	0.5
5	15.0	14.5	13.0	12.0	4.0	4.0	1.5	1.5	1.0	1.0	1.0	1.0
6	16.0	15.0	12.0	12.0	4.0	4.0	1.0	1.0	1.0	1.0	1.5	1.0
7	15.5	14.5	12.0	11.0	4.0	4.0	2.0	1.0	0.5	0.5	2.0	1.5
8	14.5	14.0	11.0	10.5	4.0	3.0	2.0	2.0	2.0	0.5	3.0	2.0
9	15.5	14.0	10.5	10.5	3.0	2.0	3.0	2.0	2.0	0.5	3.0	2.0
10	15.5	14.0	10.5	10.5	2.0	1.5	3.5	3.0	2.0	0.5	3.0	2.0
11	14.5	13.5	10.5	10.5	1.5	1.5	4.5	3.5	2.0	1.0	2.0	2.0
12	14.5	14.0	10.5	10.0	1.5	1.5	4.5	4.0	1.5	0.5	2.0	2.0
13	14.0	14.0	10.0	9.0	1.5	1.5	4.0	2.0	3.5	0.5	3.0	2.0
14	14.0	14.0	9.0	8.0	1.5	1.5	2.0	1.0	3.5	1.5	3.0	2.0
15	14.0	14.0	8.0	6.5	2.0	1.5	1.0	1.0	1.5	1.0	2.0	1.5
16	14.0	13.5	6.5	5.5	2.0	2.0	2.0	0.5	1.0	1.0	3.0	1.5
17	14.0	13.5	5.5	4.5	2.0	2.0	3.0	2.0	1.0	0.5	3.5	3.0
18	13.5	13.0	6.0	4.5	2.0	2.0	3.0	1.0	0.5	0.5	4.0	3.5
19	13.0	13.0	6.0	6.0	2.0	1.5	2.0	1.0	0.5	0.5	5.0	4.0
20	13.0	12.0	6.0	6.0	1.5	1.5	2.0	1.0	0.5	0.5	5.5	5.0
21	12.0	11.0	6.0	6.0	2.0	1.5	2.0	2.0	1.0	0.5	6.0	5.5
22	12.0	11.0	6.0	6.0	3.0	1.5	2.0	2.0	1.5	1.0	6.5	6.0
23	12.0	12.0	7.0	6.0	3.0	1.5	2.0	2.0	2.0	1.5	7.0	6.5
24	12.0	12.0	8.0	7.0	3.0	1.5	3.0	2.0	3.0	2.0	9.5	7.0
25	13.0	11.5	7.0	6.0	1.5	1.5	3.0	1.0	3.0	3.0	9.5	7.0
26	12.0	10.5	6.0	5.5	1.5	1.5	1.0	0.5	3.0	3.0	7.0	6.0
27	12.0	10.5	5.5	5.0	1.5	1.0	0.5	0.5	3.0	2.0	6.0	4.5
28	12.0	11.0	5.0	5.0	1.0	1.0	0.5	0.5	2.0	1.5	4.5	4.5
29	12.0	12.0	5.0	4.5	1.5	1.0	0.5	0.5	---	---	4.5	4.5
30	13.0	12.0	4.5	4.0	1.5	1.5	1.0	0.5	---	---	4.5	4.5
31	14.0	13.0	---	---	1.5	1.5	1.5	1.0	---	---	4.5	4.0
MONTH	16.5	10.5	14.0	4.0	4.0	1.0	4.5	0.5	3.5	0.5	9.5	0.5

EXTREMES.--WATER DISCHARGE, Period of record: Maximum discharge, 14,900 ft<sup>3</sup>/s (422 m<sup>3</sup>/s) Feb. 10, 1959; maximum gage height, 23.20 ft (7.071 m) Feb. 10, 1959 (backwater from ice); minimum daily discharge, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Oct. 28, 29, 1964. Flood in March 1913 reached a stage of 22.7 ft (6.92 m), from high-water mark by Corps of Engineers.

Period of record: Maximum temperature, 32.0°C July 27, 1964; minimum, freezing point on many days during most winter periods.

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

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

03324000 Little River near Huntington, Ind.

LOCATION.--Lat 40°54'14", long 85°24'22", in NE¼NW¼ sec.9, T.28 N., R.10 E., Huntington County, on right bank on upstream side of highway bridge, 5 miles (8 km) east of Huntington, and at mile 7.5 (12.1 km).

DRAINAGE AREA.--263 mi<sup>2</sup> (681 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: 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.

SEDIMENT DISCHARGE: October 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 728.10 ft (221.925 m) above mean sea level. Prior to Oct. 1, 1948, nonrecording gage 4 miles (6 km) downstream at datum 8.79 ft (2.679 m) lower, and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--32 years, 224 ft<sup>3</sup>/s (6.344 m<sup>3</sup>/s), 11.57 in/yr (294 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,530 ft<sup>3</sup>/s (71.6 m<sup>3</sup>/s) Feb. 24, gage height, 13.16 ft (4.011 m); minimum daily, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Dec. 3.

Period of record: Maximum discharge, 5,990 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) Jan. 4, 1950; maximum gage height, 18.43 ft (5.617 m) Feb. 11, 1959; minimum daily discharge, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	30	18	378	306	270	166	360	83	69	19	95
2	18	28	18	246	229	202	135	272	82	60	20	66
3	18	27	17	163	172	151	269	211	214	54	58	78
4	18	45	20	137	144	136	282	199	330	52	54	351
5	19	60	23	108	140	124	199	158	346	48	31	585
6	20	64	21	96	130	119	154	136	471	44	56	732
7	21	40	20	93	120	345	132	115	254	41	33	244
8	21	32	41	352	110	645	116	101	139	37	25	115
9	20	26	98	1,210	100	347	104	93	97	34	22	77
10	20	24	126	900	94	253	98	84	78	31	21	57
11	20	23	78	1,310	88	209	92	78	389	30	23	328
12	20	22	47	701	82	207	85	78	966	29	137	984
13	20	20	55	300	78	273	79	73	416	32	52	342
14	24	23	97	210	74	210	72	65	217	36	35	148
15	29	26	198	180	71	160	71	62	1,200	31	141	96
16	30	29	526	150	122	155	69	58	1,400	27	122	84
17	28	29	296	120	607	213	68	53	650	25	65	76
18	25	31	155	105	982	518	73	52	319	24	43	67
19	24	30	103	92	482	671	167	51	195	35	32	61
20	25	28	91	82	292	536	168	50	132	82	27	61
21	28	26	96	76	276	312	100	66	106	49	24	59
22	27	23	62	70	409	256	90	653	271	33	35	53
23	25	21	52	66	2,270	195	102	645	692	29	140	47
24	26	21	326	64	2,440	164	1,030	312	896	27	62	42
25	27	23	820	97	1,950	152	947	186	404	25	41	38
26	27	20	421	153	980	117	404	286	359	23	77	38
27	27	20	199	90	542	95	266	180	220	23	109	38
28	28	20	136	76	369	92	1,220	101	140	23	60	35
29	27	20	111	937	-----	363	1,050	81	107	20	64	40
30	29	19	135	1,030	-----	412	499	74	84	19	106	36
31	33	-----	200	441	-----	245	-----	78	-----	19	97	-----
TOTAL	745	850	4,606	10,033	13,659	8,147	8,307	5,011	11,257	1,111	1,831	5,073
MEAN	24.0	28.3	149	324	488	263	277	162	375	35.8	59.1	169
MAX	33	64	820	1,310	2,440	671	1,220	653	1,400	82	141	984
MIN	18	19	17	64	71	92	68	50	78	19	19	35
CFSM	.09	.11	.57	1.23	1.86	1.00	1.05	.62	1.43	.14	.22	.64
IN.	.11	.12	.65	1.42	1.93	1.15	1.17	.71	1.59	.16	.26	.72
CAL YR 1974	TOTAL 92,769	MEAN 254	MAX 3,690	MIN 12	CFSM .97	IN 13.12						
WTR YR 1975	TOTAL 70,630	MEAN 194	MAX 2,440	MIN 17	CFSM .74	IN 9.99						

03324000 Little River near Huntington, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 12...	0940	8.0	21	67	3.9
DEC. 03...	0955	2.0	16	11	.60
JAN. 06...	1235	1.0	90	49	12
MAR. 03...	1630	1.0	145	56	22
APR. 14...	1640	8.0	74	31	6.2
MAY 28...	1435	21.0	96	96	25
JULY 08...	1515	26.0	36	77	7.6
AUG. 20...	1550	--	26	46	3.3
SEP. 16...	0950	15.0	86	53	12



## 03324200 Salamonie River at Portland, Ind.

LOCATION.--Lat 40°25'40", long 85°02'20", in NE¼SE¼ sec.23, T.23 N., R.13 E., Jay County, on right bank at downstream side of county road bridge, 2.3 miles (3.7 km) (revised) downstream from Butternut Creek, 3.2 miles (5.1 km) west of Portland, 3.7 miles (6.0 km) downstream from Little Salamonie River, and at mile 70.5 (113.4 km).

DRAINAGE AREA.--85.6 mi<sup>2</sup> (221.7 km<sup>2</sup>).

PERIOD OF RECORD.--September 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 877.59 ft (267.489 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1960, nonrecording gage at site 1.4 miles (2.3 km) upstream at datum 6.43 ft (1.960 m) higher.

AVERAGE DISCHARGE.--16 years, 72.1 ft<sup>3</sup>/s (2.042 m<sup>3</sup>/s), 11.44 in/yr (291 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,180 ft<sup>3</sup>/s (90.1 m<sup>3</sup>/s) Feb. 23, gage height, 15.83 ft (4.825 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) July 27.

Period of record: Maximum discharge, 3,460 ft<sup>3</sup>/s (98.0 m<sup>3</sup>/s) Mar. 5, 1963, gage height, 16.96 ft (5.169 m); minimum daily, 0.4 ft<sup>3</sup>/s (0.01 m<sup>3</sup>/s) Sept. 27, 1965.

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

REVISIONS (WATER YEARS).--WSP 2109: Drainage. WRD Ind. 1972: 1971.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.4	8.9	488	122	49	60	161	12	8.2	3.5	12
2	4.2	3.5	11	114	89	37	47	103	13	7.2	2.9	7.2
3	3.7	3.1	11	87	71	31	44	50	28	6.6	6.7	8.3
4	3.1	12	8.9	128	61	27	34	37	19	6.3	55	8.2
5	3.1	72	9.7	70	81	26	27	32	17	5.4	19	7.6
6	2.2	53	9.7	52	259	26	23	27	192	4.2	14	4.4
7	3.6	25	26	48	94	160	22	22	59	35	8.9	3.3
8	4.2	15	544	421	41	138	21	20	21	66	5.4	3.3
9	3.9	10	399	760	28	58	20	17	14	18	3.5	3.3
10	3.9	7.9	107	508	24	46	19	14	11	8.9	2.5	3.1
11	3.5	7.6	63	766	29	40	18	13	16	6.3	7.8	7.1
12	3.3	7.2	373	146	23	294	16	21	17	4.9	9.3	8.6
13	3.3	7.9	417	66	20	158	14	18	12	4.4	8.2	5.7
14	5.2	78	296	44	19	70	13	14	18	4.6	53	3.7
15	8.6	50	378	34	20	47	13	13	448	4.9	62	2.9
16	4.6	23	515	26	55	44	13	12	184	4.9	42	3.1
17	3.9	15	157	23	508	61	14	9.7	49	4.4	13	2.9
18	4.4	13	87	26	795	443	15	8.9	27	5.4	7.2	4.7
19	3.9	13	62	40	246	1,340	34	9.3	17	4.4	7.2	4.4
20	3.7	21	47	22	133	304	26	9.3	38	3.7	6.9	7.4
21	2.7	20	40	23	148	119	18	7.6	124	4.2	4.6	7.6
22	3.3	15	37	19	258	94	17	20	26	3.7	4.9	4.9
23	3.9	10	118	18	2,030	66	26	12	84	3.1	59	4.2
24	4.6	9.7	967	24	1,700	73	463	9.3	27	3.1	25	3.7
25	3.9	11	497	206	261	73	178	7.6	92	3.1	9.7	3.7
26	3.5	12	127	220	128	40	77	6.3	230	2.2	12	3.3
27	2.5	10	67	70	91	31	52	6.3	47	1.9	8.6	2.9
28	2.1	9.7	50	49	66	49	249	5.7	22	2.1	4.9	2.2
29	2.5	7.2	46	813	-----	1,210	114	5.7	13	2.5	7.8	2.2
30	4.4	6.0	57	331	-----	225	62	6.3	9.7	3.1	105	2.5
31	4.4	-----	183	145	-----	89	-----	7.6	-----	3.5	32	-----
TOTAL	118.5	552.2	5,719.2	5,787	7,400	5,468	1,749	705.6	1,886.7	246.2	611.5	148.4
MEAN	3.82	18.4	184	187	264	176	58.3	22.8	62.9	7.94	19.7	4.95
MAX	8.6	78	967	813	2,030	1,340	463	161	448	66	105	12
MIN	2.1	3.1	8.9	18	19	26	13	5.7	9.7	1.9	2.5	2.2
CFSM	.04	.22	2.15	2.18	3.08	2.06	.68	.27	.73	.09	.23	.06
IN.	.05	.24	2.49	2.51	3.22	2.38	.76	.31	.82	.11	.27	.06

CAL YR 1974 TOTAL 30,992.6 MEAN 84.9 MAX 2,280 MIN 2.1 CFSM .99 IN 13.47  
WTR YR 1975 TOTAL 30,392.3 MEAN 83.3 MAX 2,030 MIN 1.9 CFSM .97 IN 13.21

PEAK DISCHARGE (BASE, 1,400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	1500	15.83	3,180	03-29	1100	11.58	1,690
03-19	0700	11.86	1,760				

03324300 Salamonie River near Warren, Ind.

LOCATION (revised).--Lat 40°42'45", long 85°27'13", in SE¼SE¼ sec.12, T.26 N., R.9 E., Huntington County, on right bank at downstream side of bridge on County Road 800 South, 0.4 mile (0.6 km) downstream from Detamore ditch, 0.4 mile (0.6 km) downstream from Interstate 69, 0.8 mile (1.3 km) upstream from concrete and stone dam, 2.4 miles (3.9 km) northwest of Warren, and at mile 30.0 (48.3 km).

DRAINAGE AREA.--425 mi<sup>2</sup> (1,101 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: March 1957 to current year.

SEDIMENT DISCHARGE: October 1963 to current year (partial-record station).

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 784.65 ft (239.161 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 28, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 390 ft<sup>3</sup>/s (11.04 m<sup>3</sup>/s), 12.46 in/yr (316 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,060 ft<sup>3</sup>/s (172 m<sup>3</sup>/s) Feb. 23, gage height, 12.51 ft (3.813 m); minimum daily, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 13,200 ft<sup>3</sup>/s (374 m<sup>3</sup>/s) Feb. 10, 1959, gage height, 17.05 ft (5.197 m); minimum daily, 5.8 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Sept. 19, 1959.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	111	55	1,360	823	441	549	436	160	66	44	238
2	40	112	53	1,120	585	320	353	616	245	55	52	122
3	38	119	55	435	411	251	335	371	512	48	71	72
4	40	141	53	461	333	211	292	278	336	43	71	52
5	41	242	51	433	309	190	231	230	208	41	59	83
6	41	565	51	294	810	181	195	197	218	41	95	187
7	41	281	61	259	749	211	173	172	432	41	73	82
8	40	151	807	1,110	456	472	155	152	182	42	71	52
9	39	101	1,990	3,050	455	384	142	141	112	76	54	37
10	41	77	1,050	2,900	229	261	135	131	96	79	48	31
11	40	64	382	3,180	210	224	127	126	535	49	82	46
12	40	58	636	2,310	172	252	118	125	453	40	79	89
13	46	56	1,980	684	143	885	110	129	306	39	73	76
14	65	86	1,820	385	129	460	103	127	432	43	106	56
15	74	343	1,520	284	127	278	100	121	1,980	40	124	42
16	76	208	2,510	220	179	248	96	114	1,950	36	403	37
17	78	139	1,800	162	871	289	94	106	693	35	166	35
18	91	124	703	163	2,490	533	103	100	312	38	77	34
19	82	101	404	182	2,190	1,480	467	92	193	44	48	35
20	75	88	291	171	885	2,240	500	86	120	50	36	41
21	70	84	239	140	744	1,090	254	85	104	53	32	41
22	73	89	203	134	1,070	472	187	1,170	198	50	37	43
23	74	76	223	119	4,990	444	180	599	160	49	96	45
24	79	67	1,900	121	5,650	322	1,120	272	188	52	57	44
25	81	71	2,900	322	5,460	328	2,140	178	128	50	82	41
26	82	75	1,880	921	4,140	256	828	146	743	46	119	38
27	81	71	573	492	1,120	181	449	133	768	46	226	37
28	86	66	349	274	609	170	1,420	93	240	49	131	37
29	96	61	282	2,610	-----	1,850	1,270	82	137	45	73	40
30	101	54	307	3,040	-----	3,000	579	85	93	45	85	44
31	105	-----	367	1,570	-----	1,880	-----	82	-----	44	378	-----
TOTAL	2,003	3,881	25,695	28,906	36,339	19,804	12,805	6,775	12,234	1,475	3,148	1,857
MEAN	64.6	129	829	932	1,298	639	427	219	408	47.6	102	61.9
MAX	105	565	2,900	3,180	5,650	3,000	2,140	1,170	1,980	79	403	238
MIN	38	54	51	119	127	170	94	82	93	35	32	31
CFSM	.15	.30	1.95	2.19	3.05	1.50	1.00	.52	.96	.11	.24	.15
IN.	.18	.34	2.25	2.53	3.18	1.73	1.12	.59	1.07	.13	.28	.16

CAL YR 1974 TOTAL 189,185 MEAN 518 MAX 7,400 MIN 17 CFSM 1.22 IN 16.56  
WTR YR 1975 TOTAL 154,922 MEAN 424 MAX 5,650 MIN 31 CFSM 1.00 IN 13.56

PEAK DISCHARGE (BASE, 3,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-25	0700	9.77	3,000	02-23	2300	12.51	6,060
01-09	1100	9.94	3,180	03-30	0100	9.93	3,170
01-29	2100	10.26	3,530				

03324300 Salamonie River near Warren, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 12...	1520	9.0	58	85	13
DEC. 03...	1200	2.0	54	11	1.6
JAN. 06...	1610	1.0	291	38	30
MAR. 03...	1105	.0	255	92	63
APR. 14...	1310	9.0	101	53	14
MAY 28...	1105	23.0	98	106	28
JULY 08...	1210	26.0	40	57	6.3
AUG. 20...	1155	24.5	32	52	4.5
SEP. 16...	1400	16.0	35	22	2.1

03324450 Salamonie Lake at Dora, Ind.

LOCATION.--Lat 40°48'25", long 85°40'38", in SW¼NW¼ sec.7, T.27 N., R.8 E., Wabash County, in discharge tower of reservoir on Salamonie River, 1.1 miles (1.8 km) northwest of Dora, and 3.4 miles (5.5 km) upstream from mouth.

DRAINAGE AREA.--553 mi<sup>2</sup> (1,432 km<sup>2</sup>).

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 (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 74,460 acre-ft (91.8 hm<sup>3</sup>) June 18, elevation, 759.47 ft (231.486 m); minimum, 13,030 acre-ft (16.1 hm<sup>3</sup>) Dec. 12, elevation, 729.92 ft (222.480 m).

Period of record: Maximum contents, 157,740 acre-ft (194 hm<sup>3</sup>) Apr. 26, 1972, elevation, 778.43 ft (237.265 m); minimum, 10,000 acre-ft (12.3 hm<sup>3</sup>) Mar. 11, 1969, elevation, 726.44 ft (221.419 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft (1.45 m) wide and 16.0 ft (4.88 m) high, in semi-elliptical conduit through dam. Minimum design capacity is 13,100 acre-ft (16.2 hm<sup>3</sup>), elevation, 730 ft (222.5 m). Seasonal pool capacity is 60,700 acre-ft (74.8 hm<sup>3</sup>), elevation, 755 ft (230.1 m). Capacity at uncontrolled spillway elevation, 793 ft (241.7 m) is 263,600 acre-ft (325 hm<sup>3</sup>). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 17, 1967.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	753.97	57,800	-
Oct. 31.....	747.16	40,960	-16,840
Nov. 30.....	730.42	13,520	-27,440
Dec. 31.....	730.60	13,700	+180
Calendar year 1974.....	-	-	-51,690
Jan. 31.....	738.34	23,820	+10,120
Feb. 28.....	753.45	56,380	+32,560
Mar. 31.....	739.43	25,650	-30,730
Apr. 30.....	752.79	54,610	+28,960
May 31.....	755.14	61,100	+6,490
June 30.....	755.09	60,950	-150
July 31.....	754.69	59,810	-1,140
Aug. 31.....	755.78	62,950	+3,140
Sept. 30.....	751.37	50,940	-12,010
Water year 1975.....	-	-	-6,860

## 03325000 Wabash River at Wabash, Ind.

LOCATION.--Lat 40°47'25", long 85°49'13", in SE¼NW¼ sec.14, T.27 N., R.6 E., Wabash County, on right bank on upstream side of Wabash Street bridge in Wabash, 7.1 miles (11.4 km) (revised) downstream from Salamonie River, and at mile 387.2 (623.0 km).

DRAINAGE AREA.--1,768 mi<sup>2</sup> (4,579 km<sup>2</sup>).

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 (195.883 m) above mean sea level. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 1,493 ft<sup>3</sup>/s (42.28 m<sup>3</sup>/s), 11.47 in/yr (291 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,820 ft<sup>3</sup>/s (250 m<sup>3</sup>/s) Feb. 23, gage height, 12.98 ft (3.956 m); minimum daily discharge 104 ft<sup>3</sup>/s (2.95 m<sup>3</sup>/s) Aug. 2.

Period of record: Maximum discharge, 49,600 ft<sup>3</sup>/s (1,400 m<sup>3</sup>/s) May 18, 1943; maximum gage height, 24.44 ft (7.499 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) July 21, 1936.

Maximum stage known, 28.7 ft (8.748 m) Mar. 26, 1913, from floodmark, determined by Corps of Engineers, discharge, 90,000 ft<sup>3</sup>/s (2,550 m<sup>3</sup>/s), from rating curve extended above 49,000 ft<sup>3</sup>/s (1,390 m<sup>3</sup>/s).

REMARKS.--Records good. Flow 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	757	582	2,530	3,680	5,710	3,530	2,860	519	607	136	875
2	120	747	249	3,520	3,670	5,520	3,380	2,000	728	358	104	1,080
3	143	756	275	3,200	4,180	5,800	2,540	1,400	1,280	264	135	816
4	154	773	283	2,830	3,310	6,390	1,710	1,320	2,410	265	198	602
5	176	900	307	2,230	4,210	5,380	1,390	1,040	1,910	257	190	737
6	204	1,790	224	2,030	4,040	4,230	1,240	897	1,990	228	224	2,070
7	226	1,860	263	1,360	2,640	5,180	1,040	646	1,280	217	223	1,560
8	228	1,430	663	2,120	2,610	4,810	1,020	591	1,120	211	170	952
9	238	1,380	1,870	5,050	1,730	5,030	874	565	875	197	162	597
10	246	973	3,780	4,610	1,040	4,950	765	481	618	189	122	494
11	252	809	3,370	5,610	774	4,800	652	385	904	176	183	720
12	234	945	2,630	3,740	1,090	3,410	602	373	3,900	156	253	3,090
13	199	1,160	2,380	4,710	1,490	1,820	474	370	2,830	174	381	1,860
14	257	1,150	3,780	4,330	552	2,260	440	650	1,780	188	304	1,310
15	522	1,240	4,490	4,270	868	2,530	422	443	3,800	214	439	914
16	825	1,630	4,920	4,490	1,060	1,960	272	316	5,650	207	1,020	1,050
17	792	1,750	4,750	4,790	2,040	1,770	233	290	4,200	156	852	1,000
18	648	1,480	4,500	5,120	4,310	2,190	228	282	2,110	178	241	822
19	641	1,070	4,610	3,440	4,510	3,560	271	293	1,630	144	146	687
20	665	1,070	3,960	1,690	5,110	4,470	388	352	2,020	138	278	1,200
21	676	843	2,650	857	5,570	4,230	314	315	3,020	242	281	1,150
22	690	699	2,440	829	5,580	4,490	263	1,470	2,830	201	250	724
23	702	689	1,720	879	8,100	4,480	268	4,720	3,140	180	277	457
24	708	716	2,150	758	7,360	3,410	1,260	2,890	3,240	217	346	454
25	701	751	4,700	852	6,480	1,750	2,750	1,650	2,450	280	299	472
26	705	787	5,090	1,830	6,580	1,480	2,650	1,070	1,500	178	748	485
27	739	862	4,610	2,520	6,110	1,190	2,150	1,070	1,630	109	822	488
28	722	800	4,290	1,660	5,820	1,040	3,270	864	1,520	114	966	496
29	733	789	3,290	3,930	-----	1,500	3,680	498	1,330	142	640	489
30	776	782	3,370	5,830	-----	2,580	3,100	521	992	139	763	483
31	762	-----	2,980	3,980	-----	3,140	-----	633	-----	136	940	-----
TOTAL	14,852	31,388	85,176	95,595	104,514	111,060	41,176	31,255	63,206	6,462	12,093	28,134
MEAN	479	1,046	2,748	3,084	3,733	3,583	1,373	1,008	2,107	208	390	938
MAX	825	1,860	5,090	5,830	8,100	6,390	3,680	4,720	5,650	607	1,020	3,090
MIN	120	689	224	758	552	1,040	228	282	519	109	104	454
CFSM	.27	.59	1.55	1.74	2.11	2.03	.78	.57	1.19	.12	.22	.53
IN.	.31	.66	1.79	2.01	2.20	2.34	.87	.66	1.33	.14	.25	.59

CAL YR 1974 TOTAL 799,328 MEAN 2,190 MAX 10,200 MIN 69 CFSM 1.24 IN 16.82  
WTR YR 1975 TOTAL 624,911 MEAN 1,712 MAX 8,100 MIN 104 CFSM .97 IN 13.15



03325500 Mississinewa River near Ridgeville, Ind.

LOCATION.--Lat 40°16'49", long 84°59'44", in SE¼SE¼ sec.7, T.21 N., R.14 E., Randolph County, on right bank 10 ft (3 m) downstream from highway bridge, 0.8 mile (1.3 km) downstream from Mud Creek, 2 miles (3 km) east of Ridgeville, and at mile 99.5 (160.0 km).

DRAINAGE AREA.--133 mi<sup>2</sup> (344 km<sup>2</sup>).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft (294.217 m) above mean sea level (levels by State of Indiana, Department of Natural Resources. Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 125 ft<sup>3</sup>/s (3.540 m<sup>3</sup>/s), 12.76 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,460 ft<sup>3</sup>/s (126 m<sup>3</sup>/s) Feb. 23, gage height, 12.84 ft (3.914 m); minimum daily, 4.2 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 29.

Period of record: Maximum discharge, 13,900 ft<sup>3</sup>/s (394 m<sup>3</sup>/s) June 10, 1958, gage height, 16.25 ft (4.953 m); from rating curve extended above 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.6	16	750	245	168	138	366	50	22	6.3	50
2	6.8	5.9	17	226	180	135	114	195	45	19	6.5	26
3	6.2	5.8	16	170	150	111	105	130	90	18	14	19
4	6.5	7.5	14	180	130	97	77	106	51	23	53	15
5	6.0	37	14	118	176	93	67	81	70	16	16	14
6	5.5	23	14	100	459	89	61	69	408	15	34	13
7	5.0	14	56	90	184	463	58	55	134	44	12	11
8	5.5	11	520	687	109	292	54	48	63	20	8.5	9.1
9	7.0	9.3	307	1,150	62	163	50	41	37	15	7.3	8.7
10	6.5	8.2	117	870	68	140	49	36	28	13	6.4	8.2
11	6.5	8.1	75	1,070	80	121	44	34	37	12	7.8	10
12	6.8	8.6	331	308	63	826	39	48	61	11	31	32
13	6.2	8.5	403	162	49	411	33	35	34	10	17	21
14	6.8	27	369	111	46	199	32	29	146	10	58	12
15	9.2	22	619	87	46	139	34	29	1,520	9.9	46	9.0
16	9.2	15	604	69	112	127	31	26	542	9.3	25	9.2
17	6.5	12	249	59	844	191	31	23	189	9.0	13	9.4
18	5.7	11	137	66	1,150	1,010	37	22	110	9.0	9.5	9.9
19	6.0	11	104	79	492	1,780	67	21	74	11	39	12
20	6.0	46	78	50	267	561	42	20	56	9.1	23	12
21	5.0	37	70	52	227	279	30	18	80	7.8	11	12
22	4.8	22	59	46	393	195	31	27	46	7.4	21	9.8
23	6.5	18	131	45	3,590	137	48	24	35	7.3	311	9.1
24	8.3	18	966	58	3,380	156	577	19	29	7.1	56	9.2
25	6.2	24	571	341	1,500	122	682	19	114	6.7	20	8.6
26	5.2	23	192	317	435	86	475	19	367	6.5	14	9.5
27	4.8	20	122	120	281	76	241	17	100	6.2	11	8.8
28	4.4	18	93	94	216	140	631	14	54	7.0	8.8	7.7
29	4.2	14	84	1,120	-----	1,300	286	14	33	6.9	171	6.5
30	5.1	13	105	606	-----	383	169	46	25	6.4	423	7.7
31	6.0	-----	420	303	-----	190	-----	58	-----	6.1	93	-----
TOTAL	190.6	503.5	6,873	9,504	14,934	10,180	4,333	1,689	4,628	380.7	1,573.1	399.4
MEAN	6.15	16.8	222	307	533	328	144	54.5	154	12.3	50.7	13.3
MAX	9.2	46	966	1,150	3,590	1,780	682	366	1,520	44	423	50
MIN	4.2	5.6	14	45	46	76	30	14	25	6.1	6.3	6.5
CFSM	.05	.13	1.67	2.31	4.01	2.47	1.08	.41	1.16	.09	.38	.10
IN.	.05	.14	1.92	2.66	4.18	2.95	1.21	.47	1.29	.11	.44	.11

CAL YR 1974 TOTAL 43,191.3 MEAN 118 MAX 2,850 MIN 3.8 CFSM .89 IN 12.08  
WTR YR 1975 TOTAL 55,188.3 MEAN 151 MAX 3,590 MIN 4.2 CFSM 1.14 IN 15.44

PEAK DISCHARGE (BASE, 2,400 FT<sup>3</sup>/S).--Feb. 23 (0900) 4,460 ft<sup>3</sup>/s (12.84 ft).

03326070 Big Lick Creek near Hartford City, Ind.

LOCATION.--Lat 40°25'20", long 85°21'04", in SE¼SE¼ sec.23, T.23 N., R.10 E., Blackford County, on right bank, 6 ft (2 m) downstream from bridge on County Road 100 East and 2.0 miles (3.2 km) southeast of Hartford City.

DRAINAGE AREA.--29.2 mi<sup>2</sup> (75.6 km<sup>2</sup>).

PERIOD OF RECORD.--July 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft (263.652 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 712 ft<sup>3</sup>/s (20.2 m<sup>3</sup>/s) Feb. 23, gage height, 13.98 ft (4.261 m); minimum daily, 0.66 ft<sup>3</sup>/s (0.019 m<sup>3</sup>/s) Oct. 20.

Period of record: Maximum discharge, 712 ft<sup>3</sup>/s (20.2 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 13.98 ft (4.261 m); minimum daily, 0.38 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Sept. 25, 1971.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.92	2.0	101	39	22	34	37	15	3.3	1.1	7.3
2	2.2	1.2	2.3	28	27	17	23	23	16	3.1	1.2	4.1
3	2.1	.91	2.9	28	21	15	20	17	17	3.1	2.7	2.8
4	1.7	2.5	2.7	33	19	13	16	15	10	3.4	1.9	2.3
5	1.7	50	2.4	18	52	12	14	12	7.2	2.8	1.5	2.4
6	1.6	12	2.4	15	101	12	12	11	7.0	3.3	2.1	3.1
7	2.0	4.4	12	15	30	34	11	8.9	5.6	3.6	2.0	2.3
8	2.5	2.8	113	129	17	26	9.8	7.7	4.7	5.0	1.3	2.0
9	2.4	2.1	60	167	7.8	17	9.2	6.8	4.2	3.3	1.1	2.2
10	2.3	1.8	35	165	7.4	16	8.9	6.3	3.8	3.1	.97	2.2
11	2.1	1.6	13	194	8.4	15	8.0	6.3	4.3	3.3	1.6	3.1
12	2.2	2.1	113	53	7.2	97	7.4	6.0	8.4	3.6	13	5.3
13	2.5	1.9	89	26	5.9	47	6.8	5.7	5.2	3.3	5.2	2.8
14	3.5	27	60	17	5.2	23	6.0	5.2	29	3.1	20	2.0
15	3.7	7.5	118	10	5.7	18	6.3	5.0	300	2.8	64	1.8
16	1.5	3.5	117	7.9	18	22	5.7	4.7	50	2.3	24	1.9
17	1.1	2.9	47	6.4	140	42	5.7	4.4	30	2.3	7.9	2.0
18	.82	2.5	25	9.0	157	80	7.7	4.1	20	2.3	3.8	1.9
19	.89	2.3	17	11	68	196	88	3.8	14	2.3	8.7	2.2
20	.66	3.8	13	6.7	42	67	23	3.6	12	2.1	7.1	2.7
21	.85	3.0	11	5.2	40	32	15	3.4	9.5	1.9	3.3	2.1
22	.96	2.0	9.4	4.9	97	44	14	5.0	8.2	2.1	8.1	1.5
23	.94	1.8	42	5.3	602	26	36	4.2	7.2	2.3	30	1.6
24	1.2	3.1	206	9.5	271	44	287	4.1	6.7	2.9	5.6	1.7
25	1.2	4.5	118	62	113	25	94	4.0	100	2.2	2.5	2.2
26	.87	2.9	35	46	72	16	43	3.8	51	1.9	27	2.9
27	.89	2.4	20	17	48	14	46	3.4	19	1.8	17	2.6
28	.83	2.1	14	15	33	31	157	3.1	7.7	3.5	5.3	2.3
29	.88	1.6	13	204	-----	388	54	3.0	4.8	2.0	5.8	2.1
30	1.0	1.5	17	89	-----	113	27	3.1	3.6	1.2	51	2.1
31	1.2	-----	63	49	-----	54	-----	3.3	-----	1.0	20	-----
TOTAL	50.49	158.63	1,395.1	1,546.9	2,054.6	1,578	1,095.5	233.9	781.1	84.2	346.77	77.5
MEAN	1.63	5.29	45.0	49.9	73.4	50.9	36.5	7.55	26.0	2.72	11.2	2.58
MAX	3.7	50	206	204	602	388	287	37	300	5.0	64	7.3
MIN	.66	.91	2.0	4.9	5.2	12	5.7	3.0	3.6	1.0	.97	1.5
CFSM	.06	.18	1.54	1.71	2.51	1.74	1.25	.26	.89	.09	.38	.09
IN.	.06	.20	1.78	1.97	2.62	2.01	1.40	.30	1.00	.11	.44	.10

CAL YR 1974 TOTAL 10,170.02 MEAN 27.9 MAX 448 MIN .66 CFSM .96 IN 12.96  
WTR YR 1975 TOTAL 9,402.69 MEAN 25.8 MAX 602 MIN .66 CFSM .88 IN 11.98

PEAK DISCHARGE (BASE, 275 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
May 16 to June 26.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-08	2400	9.34	279	04-24	0800	11.00	414
02-23	0500	13.98	712	06-15	unknown	11.37	447
03-29	0600	12.34	538				

## 03326500 Mississinewa River at Marion, Ind.

LOCATION (revised).--Lat 40°34'34", long 85°39'34", in SE¼NE¼ sec.31, T.25 N., R.8 E., Grant County, on left bank 12 ft (4 m) downstream from Highland Avenue bridge in Marion, 1.0 mile (2.0 km) upstream from Hummel Creek, 4.6 miles (7.4 km) downstream from Lugar Creek, and at mile 35.8 (57.6 km).

DRAINAGE AREA.--682 mi<sup>2</sup> (1,766 km<sup>2</sup>).

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 (236.086 m) above mean sea level. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 633 ft<sup>3</sup>/s (17.93 m<sup>3</sup>/s), 12.60 in/yr (320 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,700 ft<sup>3</sup>/s (331 m<sup>3</sup>/s) Feb. 24, gage height, 11.60 ft (3.536 m); minimum daily, 9.1 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) July 24.

Period of record: Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) Mar. 21, 1927, gage height, 17.40 ft (5.305 m) from graph based on gage readings, from rating curve extended above 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s); minimum daily, 3.4 ft<sup>3</sup>/s (0.096 m<sup>3</sup>/s) Oct. 25, 1968.

Flood in March 1913 reached a stage of 19.20 ft (5.852 m) from information by State of Indiana, Department of Natural Resources.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	83	118	1,810	1,510	965	1,100	993	468	257	68	735
2	70	80	115	2,080	1,160	730	791	1,360	855	214	89	379
3	70	88	112	1,230	916	565	685	1,000	998	184	158	244
4	73	107	109	937	765	462	558	677	625	167	125	178
5	73	155	107	863	717	404	445	536	461	154	91	235
6	73	340	102	659	1,380	388	376	444	423	141	90	157
7	70	280	118	565	1,590	421	345	374	487	134	116	123
8	70	213	630	1,250	916	885	320	328	514	177	103	104
9	70	152	1,740	3,380	538	1,050	297	294	297	185	92	95
10	73	129	1,440	3,700	336	636	282	266	226	164	99	88
11	73	112	751	4,420	427	512	267	247	506	135	111	101
12	75	99	801	3,300	415	578	252	241	606	120	91	107
13	78	102	1,680	1,810	331	1,520	237	241	335	138	119	112
14	104	132	1,850	843	298	1,510	221	232	555	164	113	96
15	83	196	1,830	637	298	787	215	212	3,840	251	294	86
16	86	200	2,590	519	331	606	206	197	4,020	55	652	101
17	80	188	2,260	1,040	874	619	205	185	2,650	14	357	95
18	75	155	1,400	393	2,760	899	228	179	1,270	91	215	98
19	73	132	863	393	3,230	2,080	902	171	785	103	150	102
20	73	118	622	366	2,140	3,440	826	164	547	97	114	87
21	73	115	506	307	1,320	2,290	482	161	470	92	109	81
22	75	112	427	302	1,340	1,150	371	657	383	274	235	83
23	75	123	444	275	7,170	865	355	479	389	47	349	82
24	78	132	1,900	267	10,800	663	2,090	431	308	9.1	294	79
25	78	123	3,130	468	9,460	659	2,760	423	280	48	306	77
26	75	121	2,470	1,190	3,930	540	2,040	306	1,280	72	743	75
27	80	118	1,230	1,180	2,050	403	1,810	244	1,230	69	822	73
28	80	112	751	652	1,290	380	2,440	195	746	68	350	72
29	83	112	579	2,240	-----	2,710	2,510	176	464	67	252	75
30	86	107	545	3,010	-----	3,920	1,520	224	329	66	338	71
31	88	-----	682	2,580	-----	2,200	-----	223	-----	64	816	-----
TOTAL	2,386	4,242	31,902	42,666	58,292	34,837	25,136	11,860	26,347	3,821.1	7,861	4,091
MEAN	77.0	141	1,029	1,376	2,082	1,124	838	383	878	123	254	136
MAX	104	346	3,130	4,420	10,800	3,920	2,760	1,360	4,020	274	822	735
MIN	70	80	102	267	298	380	205	161	226	9.1	68	71
CFSM	.11	.21	1.51	2.02	3.05	1.65	1.23	.56	1.29	.18	.37	.20
IN.	.13	.23	1.74	2.33	3.18	1.90	1.37	.65	1.44	.21	.43	.22

CAL YR 1974 TOTAL 278,478.0 MEAN 763 MAX 12,200 MIN 16 CFSM 1.12 IN 15.19  
WTR YR 1975 TOTAL 253,441.1 MEAN 694 MAX 10,800 MIN 9.1 CFSM 1.02 IN 13.82

PEAK DISCHARGE (BASE, 5,600 FT<sup>3</sup>/S).--Feb. 24 (2400) 11,700 ft<sup>3</sup>/s (11.60 ft).

03326950 Mississinewa Lake at Peoria, Ind.

LOCATION.--Lat 40°42'52", long 85°57'27", in NW¼SW¼ sec.10, T.26 N., R.5 E., Miami County, in discharge tower of reservoir on Mississinewa River at Peoria, 6.8 miles (10.9 km) southeast of Peru, and 7.3 miles (11.7 km) above mouth.

DRAINAGE AREA.--807 mi<sup>2</sup> (2,090 km<sup>2</sup>).

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 (213.360 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 100,060 acre-ft (123 hm<sup>3</sup>) June 18, elevation, 743.83 ft (226.719 m); minimum, 22,890 acre-ft (28.2 hm<sup>3</sup>) Dec. 11, elevation, 711.69 ft (216.923 m).

Period of record: Maximum contents, 171,990 acre-ft (212 hm<sup>3</sup>) Apr. 3, 1973, elevation, 757.73 ft (230.956 m); minimum, 22,890 acre-ft (28.2 hm<sup>3</sup>) Dec. 11, 1974, elevation, 711.69 ft (216.923 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4.75 ft (1.45 m) wide and 16.0 ft (4.88 m) high, in semi-elliptical conduit through dam. Minimum design capacity is 23,300 acre-ft (28.7 hm<sup>3</sup>), elevation, 712 ft (217.0 m). Seasonal pool capacity is 75,200 acre-ft (92.7 hm<sup>3</sup>), elevation, 737 ft (224.6 m). Capacity at uncontrolled spillway elevation, 779 ft (237.4 m) is 368,400 acre-ft (454 hm<sup>3</sup>). Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	736.18	72,620	-
Oct. 31.....	729.07	53,550	-19,070
Nov. 30.....	712.52	23,960	-29,590
Dec. 31.....	712.37	23,770	-190
Calendar year 1974.....	-	-	-72,090
Jan. 31.....	722.10	38,940	+15,170
Feb. 28.....	742.52	94,790	+55,850
Mar. 31.....	725.47	45,560	-49,230
Apr. 30.....	739.18	82,440	+36,680
May 31.....	737.30	76,140	-6,300
June 30.....	737.22	75,890	-250
July 31.....	737.12	75,570	-320
Aug. 31.....	737.66	77,310	+1,740
Sept. 30.....	733.38	64,480	-12,830
Water year 1975.....	-	-	-8,140

## 03327500 Wabash River at Peru, Ind.

LOCATION.--Lat 40°44'35", long 86°05'45", in SE¼NE¼ 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 (0.8 km) southwest of Peru, 4.4 miles (7.1 km) (revised) downstream from Mississinewa River, and at mile 370.5 (596.1 km).

DRAINAGE AREA.--2,686 mi<sup>2</sup> (6,956 km<sup>2</sup>).

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 617.94 ft (188.348 m) above mean sea level (levels by Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 2,371 ft<sup>3</sup>/s (67.15 m<sup>3</sup>/s), 11.99 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft<sup>3</sup>/s (317 m<sup>3</sup>/s) Mar. 7, gage height, 10.54 ft (3.213 m); minimum daily, 266 ft<sup>3</sup>/s (7.53 m<sup>3</sup>/s) July 29.

Period of record: Maximum discharge, 68,000 ft<sup>3</sup>/s (1,930 m<sup>3</sup>/s) May 18, 1943, gage height, 24.46 ft (7.455 m), from floodmark; minimum daily, 72 ft<sup>3</sup>/s (2.04 m<sup>3</sup>/s) Oct. 5, 1946.

Flood of Mar. 26, 1913, reached a stage of 28.1 ft (8.56 m), discharge, 115,000 ft<sup>3</sup>/s (3,260 m<sup>3</sup>/s), from rating curve extended above 63,000 ft<sup>3</sup>/s (1,780 m<sup>3</sup>/s).

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

REVISIONS (WATER YEARS).--WSP 2109: Drainage area. WRD Ind. 1974: 1973.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	483	1,510	1,230	3,590	4,400	6,180	4,620	4,100	998	1,230	273	1,830
2	426	1,490	734	5,300	4,910	6,020	4,530	3,310	1,490	837	290	1,740
3	344	1,500	512	5,170	7,680	7,400	4,060	2,710	2,300	582	355	1,280
4	357	1,520	518	3,990	6,960	10,700	3,060	2,520	3,370	515	442	881
5	371	1,550	532	3,200	7,140	9,990	2,580	2,170	2,730	502	488	882
6	395	2,090	484	3,100	5,900	8,800	2,090	1,680	2,600	493	495	1,730
7	420	2,660	435	2,180	4,450	11,600	1,600	1,360	2,020	476	495	1,850
8	435	2,360	842	2,530	4,470	10,500	1,480	1,170	1,750	469	495	1,370
9	442	2,210	2,550	5,680	3,040	10,800	1,070	1,070	1,620	457	495	1,090
10	452	1,930	5,160	5,590	1,940	10,500	1,020	988	1,140	440	495	878
11	463	1,710	4,480	6,840	1,340	10,200	876	889	1,110	432	495	969
12	479	1,660	3,160	5,070	1,750	7,890	761	805	3,840	411	517	2,900
13	504	1,830	3,340	6,010	2,200	3,710	653	1,090	3,960	372	684	2,460
14	524	1,840	5,260	7,110	1,540	4,130	545	3,080	3,070	383	715	1,870
15	816	1,900	6,200	7,070	1,340	4,550	528	1,770	4,670	391	923	1,240
16	1,370	2,280	6,770	7,630	1,590	3,730	474	843	6,430	431	1,470	1,420
17	1,540	2,460	7,170	7,810	2,310	3,030	370	646	5,060	379	1,710	1,910
18	1,450	2,420	6,330	7,780	5,170	3,050	366	588	3,450	386	1,350	1,590
19	1,370	2,080	5,500	5,930	7,000	4,660	390	578	4,010	383	337	1,340
20	1,380	1,890	5,070	3,010	8,210	6,510	429	605	4,090	358	714	1,490
21	1,380	1,660	3,280	1,600	8,230	6,530	480	604	5,790	370	478	1,700
22	1,410	1,430	3,040	1,520	7,480	6,490	406	1,010	5,630	418	342	1,440
23	1,410	1,410	2,510	1,520	10,300	5,640	394	4,760	5,440	382	392	1,020
24	1,420	1,420	2,710	1,410	8,550	4,970	901	3,580	5,230	372	655	959
25	1,420	1,500	6,390	1,340	7,110	2,880	2,450	2,340	3,670	439	681	986
26	1,410	1,600	7,810	2,130	7,200	2,550	2,770	1,630	2,240	446	1,020	992
27	1,410	1,630	7,030	3,580	6,680	2,120	2,520	1,580	2,240	303	1,540	1,010
28	1,430	1,540	5,710	3,430	6,360	1,850	3,660	1,320	2,970	269	1,780	1,010
29	1,440	1,480	4,260	3,900	-----	2,310	4,920	1,030	2,380	266	1,470	1,050
30	1,530	1,380	4,140	6,950	-----	3,610	5,090	795	1,940	276	1,430	1,050
31	1,520	-----	3,540	4,880	-----	4,150	-----	999	-----	273	1,880	-----
TOTAL	29,801	53,940	116,697	136,850	145,250	187,050	55,093	51,620	97,238	13,741	24,906	41,937
MEAN	961	1,798	3,764	4,415	5,188	6,034	1,836	1,665	3,241	443	803	1,398
MAX	1,540	2,660	7,810	7,810	10,300	11,600	5,090	4,760	6,430	1,230	1,880	2,900
MIN	344	1,380	435	1,340	1,340	1,850	366	578	998	266	273	878
CFSM	.36	.67	1.40	1.64	1.93	2.25	.68	.62	1.21	.16	.30	.52
IN.	.41	.75	1.62	1.90	2.01	2.59	.76	.71	1.35	.19	.34	.58
CAL YR 1974	TOTAL	1,174,549	MEAN	3,218	MAX	13,400	MIN	176	CFSM	1.20	IN	16.27
WTR YR 1975	TOTAL	954,123	MEAN	2,614	MAX	11,600	MIN	266	CFSM	.97	IN	13.21



03327520 Pipe Creek near Bunker Hill, Ind.

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¼SE¼ sec.29, T.26 N., R.4 E., Miami County, on right bank 150 ft (46 m) downstream from bridge on County Road 125 West, 0.5 mile (0.8 km) northeast of Bunker Hill, and at mile 11.4 (18.3 km).

DRAINAGE AREA.--159 mi<sup>2</sup> (412 km<sup>2</sup>).

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 (224.333 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 149 ft<sup>3</sup>/s (4.220 m<sup>3</sup>/s), 12.73 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft<sup>3</sup>/s (53.5 m<sup>3</sup>/s) Feb. 24, gage height, 10.43 ft (3.179 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Oct. 2.

Period of record: Maximum discharge, 3,960 ft<sup>3</sup>/s (112 m<sup>3</sup>/s) Jan. 21, 1974, gage height, 14.93 ft (4.551 m); minimum daily, 4.0 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Aug. 31, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	14	268	392	259	131	285	87	52	11	184
2	10	13	16	229	316	199	116	226	220	45	12	110
3	12	14	15	182	246	153	137	186	182	41	44	74
4	12	15	14	151	206	130	119	165	132	39	31	54
5	12	21	13	119	197	117	103	136	105	36	18	60
6	11	21	13	109	259	114	94	119	89	35	14	142
7	11	16	14	107	225	135	88	102	76	34	13	66
8	11	14	54	258	169	151	82	91	62	30	12	45
9	11	13	88	647	127	128	78	84	54	27	12	36
10	11	12	73	583	175	124	75	78	48	25	13	30
11	11	13	51	865	125	115	71	76	65	24	66	55
12	11	13	59	535	92	119	65	77	268	23	68	107
13	11	13	104	299	79	124	61	72	182	23	31	53
14	14	16	153	222	73	115	57	65	235	23	21	38
15	20	21	228	178	72	106	57	64	1,330	23	131	31
16	13	18	407	124	89	122	55	64	1,220	21	66	33
17	12	18	295	98	182	176	54	59	600	19	34	33
18	13	19	189	95	385	237	61	57	355	20	25	30
19	13	19	139	87	311	280	112	58	242	21	20	39
20	13	18	105	80	225	253	101	55	176	20	17	53
21	12	16	89	73	211	195	73	53	132	19	15	39
22	11	14	77	67	364	174	66	111	109	17	15	33
23	14	14	71	62	1,550	137	73	223	138	15	178	28
24	13	14	340	67	1,850	128	238	133	135	16	70	26
25	13	14	549	135	1,440	112	312	131	86	14	35	23
26	12	13	353	176	680	89	196	113	103	13	78	23
27	13	13	224	119	433	77	162	129	150	13	83	22
28	12	13	167	97	334	82	566	83	107	13	39	21
29	13	13	133	849	-----	169	487	69	78	12	153	20
30	15	12	126	969	-----	253	298	113	61	12	545	19
31	15	-----	141	540	-----	174	-----	117	-----	11	301	-----
TOTAL	386	456	4,314	8,390	10,807	4,747	4,188	3,394	6,827	736	2,171	1,527
MEAN	12.5	15.2	139	271	386	153	140	109	228	23.7	70.0	50.9
MAX	20	21	549	969	1,850	280	566	285	1,330	52	545	184
MIN	10	12	13	62	72	77	54	53	48	11	11	19
CFSM	.08	.10	.87	1.70	2.43	.96	.88	.69	1.43	.15	.44	.32
IN.	.09	.11	1.01	1.96	2.53	1.11	.98	.79	1.60	.17	.51	.36

CAL YR 1974 TOTAL 70,307.8 MEAN 193 MAX 3,680 MIN 7.6 CFSM 1.21 IN 16.45  
 WTR YR 1975 TOTAL 47,943.0 MEAN 131 MAX 1,850 MIN 10 CFSM .82 IN 11.22

PEAK DISCHARGE (BASE, 1,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-30	0200	7.95	1,100	06-15	1900	9.31	1,520
02-24	0800	10.43	1,890				

03328000 Eel River at North Manchester, Ind.

LOCATION.--Lat 40°59'55", long 85°45'50", in NE¼NE¼ sec.5, T.29 N., R.7 E., Wabash County, on right bank 200 ft (61 m) downstream from Main Street bridge in North Manchester, 1.3 miles (2.1 km) (revised) upstream from Pony Creek, and at mile 52.7 (84.8 km). Records include flow of Pony Creek.

DRAINAGE AREA.--417 mi<sup>2</sup> (1,080 km<sup>2</sup>), 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 November 20, 1923 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 738.00 ft (224.942 m) above mean sea level. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street bridge, 700 ft (213 m) upstream at same datum.

AVERAGE DISCHARGE.--46 years, 353 ft<sup>3</sup>/s (9.997 m<sup>3</sup>/s), 11.50 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,300 ft<sup>3</sup>/s (93.5 m<sup>3</sup>/s) June 15, gage height, 9.27 ft (2.825 m); minimum daily, 76 ft<sup>3</sup>/s (2.15 m<sup>3</sup>/s) Oct. 5, 6.

Period of record: Maximum discharge, 7,940 ft<sup>3</sup>/s (225 m<sup>3</sup>/s) Dec. 22, 1967, gage height, 13.55 ft (4.130 m); maximum gage height, 14.00 ft (4.267 m) Feb. 27, 1936; minimum daily discharge, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Oct. 19, 1956.

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	101	110	793	558	556	374	681	1,060	350	119	244
2	79	97	111	593	438	456	337	525	845	301	119	194
3	78	125	112	424	373	392	822	446	1,120	271	165	165
4	77	300	109	358	333	347	889	423	1,340	251	150	276
5	76	313	105	304	316	324	619	380	1,240	235	134	445
6	76	298	104	280	311	315	468	347	1,670	223	171	807
7	77	213	105	267	269	664	395	311	1,060	210	144	382
8	78	172	161	594	284	1,220	346	285	607	200	128	251
9	79	148	241	1,870	384	741	310	268	440	187	120	200
10	80	134	193	1,720	285	530	287	252	363	180	118	174
11	79	130	174	2,190	342	449	270	240	545	173	121	305
12	78	130	160	1,730	296	436	254	246	1,300	171	352	1,020
13	78	123	165	894	255	472	240	241	789	174	200	461
14	84	126	207	614	233	407	229	227	574	175	169	296
15	89	126	369	479	209	355	225	218	2,630	167	369	228
16	88	127	1,030	365	237	361	220	210	2,930	159	392	204
17	86	154	629	313	574	388	214	201	2,170	153	233	178
18	82	201	391	284	1,410	401	212	194	1,470	149	179	155
19	83	189	295	269	803	531	261	188	777	171	156	149
20	88	172	237	245	504	629	326	192	547	212	142	161
21	88	159	219	231	533	474	274	304	478	180	134	150
22	86	145	201	226	602	418	267	775	424	160	135	139
23	88	135	187	215	2,280	376	378	742	581	150	308	131
24	88	131	669	210	2,540	363	1,090	782	1,030	146	241	124
25	87	126	1,290	263	2,170	362	1,370	548	1,700	142	170	118
26	88	121	726	351	1,640	319	838	447	1,390	139	209	115
27	86	118	438	267	981	288	572	354	920	134	246	113
28	86	116	340	240	704	280	1,480	282	608	132	169	109
29	92	112	291	1,200	-----	477	1,620	248	689	128	172	109
30	116	109	348	1,590	-----	623	1,000	358	434	123	253	104
31	109	-----	516	858	-----	450	-----	1,210	-----	120	252	-----
TOTAL	2,629	4,651	10,233	20,237	19,864	14,404	16,187	12,125	31,731	5,666	5,970	7,507
MEAN	84.8	155	330	653	709	465	540	391	1,058	183	193	250
MAX	116	313	1,290	2,190	2,540	1,220	1,620	1,210	2,930	350	392	1,020
MIN	76	97	104	210	209	280	212	188	363	120	118	104
CFSM	.20	.37	.79	1.57	1.70	1.12	1.30	.94	2.54	.44	.46	.60
IN.	.23	.41	.91	1.81	1.77	1.28	1.44	1.08	2.83	.51	.53	.67

CAL YR 1974 TOTAL 146,812 MEAN 402 MAX 3,740 MIN 76 CFSM .96 IN 13.10  
WTR YR 1975 TOTAL 151,204 MEAN 414 MAX 2,930 MIN 76 CFSM .99 IN 13.49

PEAK DISCHARGE (BASE, 2,200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1200	7.19	2,270	06-15	2200	9.27	3,300
02-24	0700	7.81	2,590				

03328430 Weesau Creek near Deedsville, Ind.

LOCATION.--Lat 40°54'34", long 86°07'36", in NW¼NW¼ sec.6, T.28 N., R.4 E., Miami County, on left bank 100 ft (30 m) downstream from bridge on County Road 1000 North, and 1.5 miles (2.4 km) west of Deedsville.

DRAINAGE AREA.--8.87 mi<sup>2</sup> (22.97 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 785.00 ft (239.268 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 10.2 ft<sup>3</sup>/s (0.289 m<sup>3</sup>/s), 15.55 in/yr (395 mm/yr).

EXTREMES.--Current year: Maximum discharge, 190 ft<sup>3</sup>/s (5.38 m<sup>3</sup>/s) June 15, gage height, 4.89 ft (1.490 m); minimum daily, 0.55 ft<sup>3</sup>/s (0.016 m<sup>3</sup>/s) Oct. 2, 3, 15.

Period of record: Maximum discharge, 283 ft<sup>3</sup>/s (8.01 m<sup>3</sup>/s) Feb. 4, 1971, gage height, 5.83 ft (1.777 m); minimum daily, 0.49 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 13-22, 24, 25, 1974.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.86	1.2	17	14	13	8.5	14	19	5.2	2.0	19
2	.55	.82	1.3	10	10	10	12	11	15	4.5	3.1	12
3	.55	2.7	1.2	6.3	7.8	8.4	18	10	24	4.2	16	7.5
4	.56	3.1	1.2	4.7	6.6	7.4	21	9.2	18	3.9	6.5	5.7
5	.55	4.2	1.1	3.6	6.7	7.0	13	8.7	20	3.6	3.9	41
6	.57	2.8	1.0	3.4	7.8	6.4	11	7.8	19	3.4	3.0	35
7	.58	1.8	1.3	3.2	6.5	34	9.2	6.6	11	3.3	2.5	14
8	.60	1.4	6.6	22	4.5	29	8.4	5.9	7.4	2.8	2.2	8.1
9	.60	1.1	8.1	42	3.5	16	8.0	5.2	5.9	2.6	2.0	5.8
10	.64	.98	4.5	42	5.0	13	7.3	4.9	4.9	2.6	2.4	4.8
11	.60	1.3	3.4	65	4.3	11	6.8	4.9	19	2.5	4.3	43
12	.60	1.3	3.1	30	3.6	14	6.4	6.2	17	2.9	5.5	85
13	.68	1.4	4.0	15	3.2	13	6.0	5.9	9.2	2.7	3.2	40
14	.85	1.4	6.3	8.3	2.7	9.6	5.6	4.5	37	2.6	2.5	20
15	.85	1.5	12	5.8	2.8	7.8	5.3	4.2	131	2.4	6.5	14
16	.80	1.5	18	4.4	9.0	7.2	5.1	3.9	92	2.3	4.9	12
17	.81	2.6	9.7	3.7	26	6.7	4.9	3.6	50	2.2	3.4	9.4
18	.82	5.3	5.5	3.5	45	6.7	5.2	3.4	32	2.4	2.7	7.8
19	.82	4.0	4.0	3.1	16	15	6.6	3.1	20	58	2.4	7.2
20	.85	3.3	3.0	2.7	13	14	5.5	3.1	14	70	2.3	7.8
21	.89	2.7	2.7	2.6	10	10	5.2	5.5	11	30	2.1	6.4
22	.89	2.2	2.3	2.4	24	8.9	5.2	103	22	18	1.9	5.6
23	.89	2.6	2.3	2.3	76	9.0	6.6	51	24	13	18	5.1
24	.90	1.9	21	2.5	84	13	23	25	19	8.0	5.2	4.1
25	.90	1.7	31	11	54	9.9	16	23	48	4.6	3.1	3.9
26	.85	1.5	14	10	37	8.4	12	31	24	3.5	7.8	3.7
27	.82	1.5	6.8	5.2	25	9.0	20	16	15	2.8	5.9	3.6
28	.82	1.4	4.7	4.1	17	21	51	10	11	2.4	4.2	3.4
29	1.2	1.2	3.8	56	-----	33	28	7.8	7.8	2.2	31	3.2
30	1.5	1.2	6.0	45	-----	24	18	19	6.2	2.0	42	3.3
31	1.1	-----	10	20	-----	9.5	-----	47	-----	2.3	37	-----
TOTAL	24.46	61.26	201.1	456.8	525.0	404.9	358.8	464.4	753.4	272.9	239.5	441.4
MEAN	.79	2.04	6.49	14.7	18.8	13.1	12.0	15.0	25.1	8.80	7.73	14.7
MAX	1.5	5.3	31	65	84	34	51	103	131	70	42	85
MIN	.55	.82	1.0	2.3	2.7	6.4	4.9	3.1	4.9	2.0	1.9	3.2
CFSM	.09	.23	.73	1.66	2.12	1.48	1.35	1.69	2.83	.99	.87	1.66
IN.	.10	.26	.84	1.92	2.20	1.70	1.50	1.95	3.16	1.14	1.00	1.85

CAL YR 1974 TOTAL 3,389.00 MEAN 9.28 MAX 128 MIN .49 CFSM 1.05 IN 14.21  
WTR YR 1975 TOTAL 4,203.92 MEAN 11.5 MAX 131 MIN .55 CFSM 1.30 IN 17.63

PEAK DISCHARGE (BASE, 60 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0200	3.50	76	05-22	0400	4.11	121	07-19	1400	4.48	151
01-29	1600	3.51	77	05-30	2000	3.27	66	08-29	1400	3.22	61
02-24	unknown	3.69	88	06-15	1300	4.89	190	09-05	1400	3.48	77
04-28	0400	3.19	62	06-25	0100	3.43	75	09-11	2200	4.59	159

## WABASH RIVER BASIN

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03328500 Eel River near Logansport, Ind.

LOCATION.--Lat 40°46'55", long 86°15'50", in NE¼SE¼ sec.14, T.27 N., R.2 E., Cass County, on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles (8.8 km) northeast of Logansport, and 7.4 miles (11.9 km) (revised) upstream from mouth.

DRAINAGE AREA.--789 mi<sup>2</sup> (2,044 km<sup>2</sup>).

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

WATER TEMPERATURE: October 1969 to current year.

SEDIMENT DISCHARGE: August 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 621.50 ft (189.433 m) above mean sea level. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 729 ft<sup>3</sup>/s (20.645 m<sup>3</sup>/s), 12.55 in/yr (319 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	253	253	1,110	1,300	1,160	790	1,510	1,970	884	237	808
2	204	233	253	1,190	991	946	712	1,160	1,580	741	241	627
3	202	253	250	884	817	813	1,370	962	1,670	655	462	459
4	201	309	251	721	712	709	1,940	874	2,440	593	630	381
5	199	541	244	613	669	650	1,440	807	2,070	540	407	968
6	197	574	235	542	703	620	1,080	742	2,620	499	324	2,060
7	196	515	240	513	618	961	888	663	2,150	472	320	1,330
8	195	389	287	644	569	2,230	769	595	1,350	448	290	793
9	197	321	435	2,540	510	1,660	687	551	971	425	259	549
10	199	282	507	2,930	341	1,160	626	518	790	392	245	428
11	200	274	407	4,000	475	960	580	492	870	368	244	694
12	200	267	368	3,190	535	894	539	482	1,790	368	260	3,730
13	201	266	353	1,950	514	923	506	487	1,750	371	490	2,290
14	212	267	379	1,180	447	857	481	464	1,790	371	359	1,200
15	212	265	499	911	391	748	465	440	5,460	363	392	802
16	214	273	1,230	782	436	680	454	421	6,570	340	629	629
17	213	291	1,440	643	914	715	445	404	5,270	322	651	541
18	207	335	936	598	2,180	759	445	389	3,310	326	416	484
19	204	404	695	532	1,750	916	467	377	2,130	483	327	452
20	201	376	553	506	1,080	1,200	516	366	1,460	1,040	281	460
21	202	340	478	490	867	1,020	540	369	1,400	725	256	485
22	205	314	439	432	1,050	856	492	1,640	1,150	494	241	426
23	206	297	407	401	3,960	756	520	2,290	1,180	404	432	385
24	209	285	619	391	5,210	784	1,160	1,440	1,620	361	739	357
25	210	274	2,150	531	4,080	776	2,190	1,610	3,530	327	496	336
26	208	267	1,720	735	2,880	680	1,680	1,190	3,180	301	414	323
27	206	261	1,020	621	2,060	597	1,170	1,060	2,160	289	493	314
28	206	256	750	501	1,450	568	2,560	854	1,490	275	487	303
29	217	250	623	1,740	-----	818	3,220	676	1,280	264	500	291
30	247	248	582	3,430	-----	1,160	2,240	628	1,230	253	947	289
31	258	-----	763	2,090	-----	993	-----	1,320	-----	244	1,050	-----
TOTAL	6,438	9,480	19,366	37,341	37,509	28,569	30,972	25,781	66,231	13,938	13,519	23,194
MEAN	208	316	625	1,205	1,340	922	1,032	832	2,208	450	436	773
MAX	258	574	2,150	4,000	5,210	2,230	3,220	2,290	6,570	1,040	1,050	3,730
MIN	195	233	235	391	341	568	445	366	790	244	237	289
CFSM	.26	.40	.79	1.53	1.70	1.17	1.31	1.05	2.80	.57	.55	.98
IN.	.30	.45	.91	1.76	1.77	1.35	1.46	1.22	3.12	.66	.64	1.09

CAL YR 1974 TOTAL 308,770 MEAN 846 MAX 7,420 MIN 168 CFSM 1.07 IN 14.56  
WTR YR 1975 TOTAL 312,338 MEAN 856 MAX 6,570 MIN 195 CFSM 1.08 IN 14.73

PEAK DISCHARGE (BASE, 5,000 FT<sup>3</sup>/S).--Feb. 24 (0300) 5,390 ft<sup>3</sup>/s (7.91 ft); June 16 (1600) 6,620 ft<sup>3</sup>/s (8.59 ft).

## WABASH RIVER BASIN

03328500 Eel River near Logansport, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,620 ft<sup>3</sup>/s (187 m<sup>3</sup>/s) June 16, gage height, 8.59 ft (2.618 m); minimum daily, 195 ft<sup>3</sup>/s (5.52 m<sup>3</sup>/s) Oct. 8.  
 Period of record: Maximum discharge, 14,200 ft<sup>3</sup>/s (402 m<sup>3</sup>/s) Dec. 9, 1966, gage height, 12.20 ft (3.719 m); minimum daily, 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) Mar. 15, 1960, result of freezeup.  
 Flood of May 18, 1943, reached a stage of 13.2 ft (4.02 m), from floodmark, discharge, 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s).  
 WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C Aug. 25; minimum, 0.5°C Jan. 15, 17.  
 Period of record: Maximum temperature, 30.0°C June 29, 1971; minimum, freezing point on many days during winter periods.  
 SEDIMENT CONCENTRATION, Current year: Maximum daily concentration, 1,790 mg/l June 15; minimum daily, 21 mg/l Dec. 14.  
 Period of record: Maximum daily concentration, 1,790 mg/l June 15, 1975; minimum daily, 12 mg/l Feb. 16, 1974.  
 SEDIMENT DISCHARGE, Current year: Maximum daily load, 26,400 tons (23,900 tonnes) June 15; minimum daily, 19 tons (17 tonnes) Oct. 8, Nov. 29, 30.  
 Period of record: Maximum daily load, 26,400 tons (23,900 tonnes) June 15, 1975; minimum daily, 6.9 tons (6.3 tonnes) Aug. 31, Sept. 1, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DIS- CHARGE (MG/L)	SUS- PENDE SEDIMENT 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. 17...	1400	1360	271	995	74	78	89
JAN. 09...	1525	3050	407	3350	49	61	72
FEB. 23...	1400	4310	641	7560	48	61	69
APR. 29...	1130	3320	469	4200	66	75	80

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC. 17...	95	97	99	99	100	--	--
JAN. 09...	85	95	97	98	99	100	--
FEB. 23...	76	82	85	85	88	93	100
APR. 29...	84	90	93	93	94	96	100

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TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

[illegible]



## WABASH RIVER BASIN

03328500 Eel River near Logansport, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) \* WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	210	49	28	253	54	37	253	37	25
2	204	47	26	233	50	31	253	36	25
3	202	46	25	253	57	39	250	36	24
4	201	44	24	309	64	53	251	36	24
5	199	42	23	541	97	142	244	35	23
6	197	40	21	574	68	105	235	35	22
7	196	38	20	515	51	71	240	35	23
8	195	36	19	389	48	50	287	50	39
9	197	38	20	321	46	40	435	69	81
10	199	40	22	282	44	34	507	47	64
11	200	42	23	274	42	31	407	31	34
12	200	42	23	267	41	30	368	24	24
13	201	43	23	266	43	31	353	22	21
14	212	49	28	267	54	39	379	21	21
15	212	55	31	265	49	35	499	42	57
16	214	55	32	273	49	36	1230	227	754
17	213	53	30	291	53	42	1440	284	1100
18	207	52	29	335	58	52	936	124	313
19	204	51	28	404	61	67	695	55	103
20	201	49	27	376	53	54	553	47	70
21	202	48	26	340	48	44	478	47	61
22	205	50	28	314	43	36	439	49	58
23	206	52	29	297	40	32	407	50	55
24	209	54	30	285	37	28	619	80	134
25	210	56	32	274	34	25	2150	209	1210
26	208	55	31	267	32	23	1720	141	655
27	206	54	30	261	30	21	1020	69	190
28	206	53	29	256	29	20	750	53	107
29	217	52	30	250	28	19	623	50	84
30	247	54	36	248	28	19	582	49	77
31	258	58	40	---	---	---	763	58	119
MONTH	6638	---	843	9480	---	1286	19366	---	5597
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1110	73	219	1300	173	607	1160	48	150
2	1140	63	202	991	84	225	946	61	156
3	884	45	107	817	47	104	813	67	147
4	721	41	80	712	38	73	709	63	121
5	613	39	65	669	39	70	650	58	102
6	542	38	56	703	70	133	620	54	90
7	513	37	51	618	63	105	961	93	241
8	644	47	151	569	69	106	2230	219	1320
9	2540	337	2310	510	77	106	1660	162	726
10	2430	411	3250	341	78	72	1160	88	276
11	4000	447	4830	475	79	101	960	59	153
12	3190	361	3110	535	80	116	894	51	123
13	1950	193	1020	514	81	112	923	66	164
14	1180	93	296	447	83	100	857	70	162
15	911	60	148	391	85	90	748	60	121
16	782	69	146	436	89	105	680	58	106
17	643	45	165	914	108	267	715	62	120
18	598	42	149	2180	202	1190	759	58	119
19	532	41	116	1750	139	657	916	68	168
20	506	69	44	1080	65	190	1200	85	275
21	490	65	86	867	39	91	1020	71	196
22	432	60	70	1050	68	193	856	59	136
23	401	56	61	3960	512	5470	756	51	104
24	341	52	55	5210	608	8550	784	122	258
25	531	85	122	4080	264	2910	776	106	222
26	735	100	148	2880	144	1120	680	67	123
27	621	87	146	2060	102	567	597	53	85
28	501	83	112	1450	68	266	568	49	75
29	1740	577	2710	---	---	---	818	76	168
30	3430	865	8010	---	---	---	1160	68	213
31	2090	430	2470	---	---	---	993	54	145
MONTH	37341	---	30565	37509	---	23696	28569	---	6565

03328500 Eel River near Logansport, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) \* WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL				MAY			JUNE		
	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	740	42	90	1510	131	534	1970	1550	8240	
2	712	44	85	1160	112	351	1580	595	2540	
3	1370	380	1410	462	99	257	1670	393	1770	
4	1940	327	1710	874	87	205	2440	475	3130	
5	1440	163	634	807	78	170	2070	304	1700	
6	1080	73	213	742	74	148	2620	564	3990	
7	888	53	127	663	72	129	2150	448	2600	
8	769	53	110	595	71	114	1350	328	1200	
9	687	52	96	551	71	106	971	235	616	
10	626	51	86	518	70	98	790	181	386	
11	580	50	78	492	69	92	870	240	564	
12	534	48	70	482	68	89	1790	388	1880	
13	506	46	63	487	78	103	1750	367	1730	
14	481	45	58	464	78	98	1790	390	1880	
15	465	43	54	440	78	93	5460	1790	26400	
16	454	42	51	421	77	88	6570	1100	19500	
17	445	40	48	404	77	84	5270	487	6930	
18	445	39	47	389	77	81	3310	290	2590	
19	467	41	52	377	76	77	2130	235	1350	
20	516	64	89	366	76	75	1460	213	840	
21	540	72	105	369	82	82	1400	483	1830	
22	492	65	86	1640	542	2400	1150	205	637	
23	520	65	91	2290	426	2630	1180	352	1120	
24	1160	135	423	1440	258	1000	1620	463	2030	
25	2190	295	1740	1610	727	3160	3530	776	7400	
26	1680	138	626	1190	382	1230	3180	958	8230	
27	1170	101	319	1060	304	870	2160	502	2930	
28	2560	337	2330	854	285	657	1490	253	1020	
29	3220	456	3960	676	217	396	1280	224	774	
30	2240	175	1060	628	196	332	1230	325	1080	
31	---	---	---	1320	454	1620	---	---	---	
MONTH	30972	---	15911	25781	---	17369	66231	---	116887	
JULY										
1	884	214	511	237	66	42	808	84	183	
2	741	186	372	241	60	39	627	74	125	
3	655	171	302	462	109	136	459	72	89	
4	593	144	231	630	156	265	381	77	74	
5	540	118	172	407	85	93	968	193	504	
6	499	105	141	324	67	59	2060	401	2230	
7	472	100	127	320	92	79	1330	288	1030	
8	448	97	117	290	127	99	793	124	266	
9	425	93	107	259	119	83	549	76	113	
10	392	89	94	245	108	71	428	59	68	
11	368	83	82	244	98	65	694	208	390	
12	368	82	81	260	87	61	3730	657	6620	
13	371	89	89	490	128	169	2290	293	1810	
14	371	95	95	359	82	79	1200	122	395	
15	363	98	96	392	77	82	802	69	149	
16	340	95	87	629	107	182	629	70	119	
17	322	88	77	651	85	149	541	56	82	
18	326	83	73	416	67	75	484	47	61	
19	483	107	140	327	62	55	452	46	54	
20	1040	233	654	281	61	46	460	49	61	
21	725	146	286	256	62	43	485	70	92	
22	494	127	169	241	63	41	426	54	62	
23	404	111	121	432	110	128	385	47	49	
24	361	105	102	739	156	311	357	45	43	
25	327	102	90	496	68	91	336	44	40	
26	301	99	80	414	60	67	323	44	38	
27	289	94	73	493	82	109	314	43	36	
28	275	90	67	487	98	129	303	42	34	
29	264	86	61	500	130	176	291	42	33	
30	253	80	55	947	136	348	289	41	32	
31	244	73	48	1050	116	329	---	---	---	
MONTH	13938	---	4800	13519	---	3701	23194	---	14887	
YEAR	312338		242107							

## WABASH RIVER BASIN

03329000 Wabash River at Logansport, Ind.

LOCATION.--Lat 40°44'47", long 86°22'39", in SW¼NE¼ sec.35, T.27 N., R.1 E., Cass County, on left bank 150 ft (46 m) downstream from Cicott Street bridge in Logansport, 1,000 ft (305 m) downstream from Eel River, and at mile 353.7 (569.1 km).

DRAINAGE AREA.--3,779 mi<sup>2</sup> (9,788 km<sup>2</sup>).

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 National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft (174.736 m) above mean sea level (levels by Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.

AVERAGE DISCHARGE.--52 years (1923 to current year), 3,300 ft<sup>3</sup>/s (93.5 m<sup>3</sup>/s), 11.85 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,900 ft<sup>3</sup>/s (507 m<sup>3</sup>/s) Feb. 23, gage height, 9.40 ft (2.865 m); minimum daily, 535 ft<sup>3</sup>/s (15.2 m<sup>3</sup>/s) July 31.

Period of record: Maximum discharge, 89,800 ft<sup>3</sup>/s (2,540 m<sup>3</sup>/s) May 18, 1943, gage height, 21.32 ft (6.500 m); minimum daily, 135 ft<sup>3</sup>/s (3.82 m<sup>3</sup>/s) Sept. 26, 1941.

Maximum stage known, 25.3 ft (7.711 m) Mar. 26, 1913, from floodmarks, discharge, 140,000 ft<sup>3</sup>/s (3,960 m<sup>3</sup>/s).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	698	1,650	1,470	4,880	6,470	7,950	5,470	6,440	3,060	2,400	559	3,100
2	668	1,610	1,200	6,600	6,100	7,480	5,430	5,140	2,990	1,770	542	2,800
3	575	1,710	851	6,870	8,990	7,970	5,770	4,160	4,120	1,390	781	2,110
4	554	1,810	793	5,210	8,350	11,700	5,290	3,760	5,840	1,180	949	1,610
5	561	2,070	786	4,140	8,640	11,000	4,300	3,390	5,210	1,110	926	1,600
6	579	2,450	780	3,940	7,300	9,280	3,370	2,690	5,300	1,060	799	2,940
7	598	3,250	731	2,970	5,680	12,800	2,630	2,220	4,480	1,010	720	3,630
8	617	2,900	894	2,990	5,460	13,100	2,320	1,900	3,220	980	754	2,510
9	625	2,560	2,340	8,490	3,900	12,900	1,880	1,730	2,840	935	648	1,880
10	638	2,310	5,500	9,690	2,540	12,000	1,720	1,620	2,090	887	612	1,510
11	645	2,020	5,680	12,200	1,980	11,500	1,550	1,500	1,950	852	607	1,930
12	654	1,890	3,930	9,810	2,250	9,830	1,400	1,390	5,000	851	681	6,080
13	694	2,060	3,720	8,060	2,640	4,820	1,310	1,360	6,560	815	871	5,750
14	714	2,130	5,720	8,960	2,300	4,880	1,170	3,570	6,030	801	1,020	3,640
15	802	2,120	7,190	8,410	1,720	5,330	1,110	2,550	13,100	801	1,180	2,490
16	1,280	2,450	8,600	8,850	1,970	4,640	1,090	1,530	15,300	791	1,720	2,170
17	1,560	2,770	9,780	8,860	2,940	3,800	975	1,190	12,200	788	2,230	2,580
18	1,500	2,810	8,500	9,010	7,300	3,780	940	1,080	7,760	819	1,440	2,740
19	1,420	2,680	6,740	7,530	9,460	5,210	1,020	1,040	6,800	953	735	2,030
20	1,410	2,320	6,320	4,010	9,960	8,010	1,080	1,030	5,820	1,310	861	1,940
21	1,420	2,050	4,420	2,340	10,000	7,790	1,160	1,090	7,730	1,080	898	2,460
22	1,440	1,760	3,790	1,960	9,330	7,810	1,050	2,380	7,880	934	714	2,140
23	1,450	1,660	3,270	1,870	16,300	6,560	1,060	7,010	7,570	843	725	1,640
24	1,470	1,640	3,120	1,840	16,600	6,130	2,020	5,800	7,660	766	1,280	1,430
25	1,480	1,660	8,650	1,920	13,700	3,860	4,710	4,440	8,640	743	1,230	1,410
26	1,460	1,790	10,600	2,730	11,600	3,190	4,870	3,170	6,170	778	1,330	1,420
27	1,460	1,820	9,300	4,100	9,770	2,710	4,020	2,860	4,490	723	1,950	1,450
28	1,500	1,770	7,160	4,440	8,600	2,340	6,750	2,380	4,950	587	2,360	1,410
29	1,530	1,660	5,580	6,150	-----	2,900	8,950	1,890	3,930	559	2,520	1,420
30	1,670	1,630	4,990	12,000	-----	4,730	8,400	1,560	3,620	536	3,120	1,430
31	1,670	-----	4,510	8,220	-----	5,200	-----	2,300	-----	535	3,490	-----
TOTAL	33,342	63,010	146,915	189,050	201,850	221,200	92,815	84,170	182,310	29,587	38,252	70,980
MEAN	1,076	2,100	4,739	6,098	7,209	7,135	3,094	2,715	6,077	954	1,234	2,366
MAX	1,670	3,250	10,600	12,200	16,600	13,100	8,950	7,010	15,300	2,400	3,490	6,080
MIN	554	1,610	731	1,840	1,720	2,340	940	1,030	1,950	535	542	1,410
CFSM	.28	.56	1.25	1.61	1.91	1.89	.82	.72	1.61	.25	.33	.63
IN.	.33	.62	1.45	1.86	1.99	2.18	.91	.83	1.79	.29	.38	.70
CAL YR 1974	TOTAL 1,658,091	MEAN 4,543	MAX 23,500	MIN 409	CFSM 1.20	IN 16.32						
WTR YR 1975	TOTAL 1,353,481	MEAN 3,708	MAX 16,600	MIN 535	CFSM .98	IN 13.32						

03329400 Rattlesnake Creek near Patton, Ind.

LOCATION.--Lat 40°42'46", long 86°41'49", in NW¼SW¼ sec.7, T.26 N., R.2 W., Carroll County, on left bank 5 ft (2 m) downstream from bridge on County Road 900 West, and 2.5 miles (4.0 km) northeast of Patton.

DRAINAGE AREA.--6.83 mi<sup>2</sup> (17.69 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.97 ft (196.892 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 7.96 ft<sup>3</sup>/s (0.225 m<sup>3</sup>/s), 15.83 in/yr (402 mm/yr).

EXTREMES.--Current year: Maximum discharge, 224 ft<sup>3</sup>/s (6.34 m<sup>3</sup>/s) June 14, gage height, 4.30 ft (1.311 m); minimum daily, 0.26 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Oct. 1.

Period of record: Maximum discharge, 224 ft<sup>3</sup>/s (6.34 m<sup>3</sup>/s) June 14, 1975, gage height, 4.30 ft (1.311 m); minimum daily discharge, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Sept. 23, 1974.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.57	1.0	7.7	12	10	6.2	6.1	7.2	8.6	1.6	20
2	.30	.57	.95	5.5	10	9.0	6.3	5.5	5.3	6.9	2.0	10
3	.31	2.5	.86	5.3	8.6	7.6	6.9	5.6	4.6	5.4	2.7	5.4
4	.30	2.6	.78	4.0	7.9	6.4	6.6	5.1	4.2	4.6	1.8	4.0
5	.30	3.7	.78	3.6	9.6	5.8	5.9	4.8	4.3	4.0	1.7	27
6	.30	1.7	.86	3.6	11	5.7	5.6	4.5	3.7	3.6	1.6	21
7	.34	1.0	1.4	3.4	7.9	6.8	5.4	4.1	3.3	3.3	1.5	8.6
8	.34	.86	4.0	12	6.6	6.3	5.0	4.0	3.1	2.8	1.5	5.4
9	.34	.78	2.4	17	4.8	5.6	4.8	3.7	2.9	2.6	1.4	4.1
10	.34	.70	1.9	36	4.2	6.0	4.6	3.7	2.8	2.4	1.4	3.6
11	.34	1.1	1.6	47	6.9	6.3	4.2	3.7	23	2.2	1.9	25
12	.39	1.0	1.6	24	5.6	7.2	4.1	3.6	18	2.1	2.6	35
13	.57	1.0	1.7	16	5.0	6.3	3.7	3.2	8.0	2.1	1.6	18
14	.86	1.1	2.0	11	4.4	6.2	3.7	3.3	56	1.9	1.7	10
15	.57	1.1	2.9	8.6	3.8	5.4	3.4	3.2	91	1.7	5.3	7.2
16	.50	1.3	3.2	6.7	5.3	5.4	3.4	2.9	51	1.6	2.4	6.2
17	.50	2.2	2.5	5.9	8.5	5.3	3.8	2.9	37	1.5	1.9	5.5
18	.45	2.0	2.0	6.1	12	5.4	4.1	2.9	28	1.8	1.5	4.8
19	.45	1.6	1.9	5.1	9.7	6.5	3.4	2.8	23	2.8	1.4	6.9
20	.45	1.3	1.6	5.3	8.4	6.1	2.7	2.7	22	19	1.5	7.7
21	.50	1.1	1.6	4.2	7.1	5.9	2.6	2.8	30	7.5	1.5	5.6
22	.50	1.0	1.4	3.6	9.9	5.6	2.9	18	19	4.3	1.3	4.7
23	.50	1.0	1.6	3.6	67	5.3	3.4	6.9	14	3.2	2.4	4.2
24	.57	.95	9.7	4.6	50	5.4	6.8	10	12	2.8	1.5	4.0
25	.50	.86	11	11	34	4.6	5.0	17	67	2.4	1.3	7.1
26	.45	.78	5.9	7.7	24	4.1	3.8	20	46	2.2	4.2	7.4
27	.45	.86	4.6	5.3	15	4.3	5.9	9.3	30	2.1	2.1	5.6
28	.50	.78	3.7	5.3	13	5.3	15	6.1	21	1.9	1.6	5.0
29	.95	.78	3.4	40	---	14	10	5.1	16	1.7	29	4.5
30	.95	.78	4.0	21	---	9.1	7.4	11	11	1.6	40	4.1
31	.63	---	6.3	15	---	7.1	---	20	---	1.5	31	---
TOTAL	14.71	37.57	89.13	355.1	372.2	200.0	156.6	204.5	664.4	137.3	154.9	287.6
MEAN	.47	1.25	2.88	11.5	13.3	6.45	5.22	6.60	22.1	4.43	5.00	9.59
MAX	.95	3.7	11	47	67	14	15	20	91	28	40	35
MIN	.26	.57	.78	3.4	3.8	4.1	2.6	2.7	2.8	1.5	1.3	3.6
CFSM	.07	.18	.42	1.68	1.95	.94	.76	.97	3.24	.65	.73	1.40
IN.	.08	.20	.49	1.93	2.03	1.09	.85	1.11	3.62	.75	.84	1.57

CAL YR 1974 TOTAL 3003.45 MEAN 8.23 MAX 74 MIN .14 CFSM 1.21 IN 16.36  
WTR YR 1975 TOTAL 2674.01 MEAN 7.33 MAX 91 MIN .26 CFSM 1.07 IN 14.56

PEAK DISCHARGE (BASE, 65 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2100	2.83	68	06-25	0300	3.15	98
02-23	unknown	3.09	84	06-25	1700	2.90	78
06-14	2100	4.30	224	07-19	1200	3.06	80

03329700 Deer Creek near Delphi, Ind.

LOCATION.--Lat 40°35'25", long 86°37'15", in NE¼NE¼ sec.27, T.25 N., R.2 W., Carroll County, on downstream side of left wingwall of highway bridge, 2.6 miles (4.2 km) northeast of Delphi Post Office, and 4.8 miles (7.7 km) (revised) upstream from mouth.

DRAINAGE AREA.--274 mi<sup>2</sup> (710 km<sup>2</sup>).

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

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 553.81 ft (168.801 m) above mean sea level (Corps of Engineers bench mark, levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--32 years, 241 ft<sup>3</sup>/s (6.825 m<sup>3</sup>/s), 11.94 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,750 ft<sup>3</sup>/s (106 m<sup>3</sup>/s) June 15, gage height, 8.90 ft (2.713 m); minimum daily, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Oct. 6-8.

Period of record: Maximum discharge, 14,400 ft<sup>3</sup>/s (408 m<sup>3</sup>/s) June 10, 1958, gage height, 18.26 ft (5.566 m); minimum daily, 6.2 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Sept. 25-28, 1954.

Flood in May 1943 reached a stage of 19.8 ft (6.035 m), from floodmarks, discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s), from rating curve extended above 8,000 ft<sup>3</sup>/s (227 m<sup>3</sup>/s).

REMARKS.--Records good.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	35	38	187	572	443	251	433	200	132	35	775
2	31	34	38	222	480	360	228	401	217	118	45	521
3	30	40	38	202	394	306	306	318	184	103	83	364
4	29	45	36	182	341	266	288	282	160	94	56	254
5	29	51	35	150	331	242	245	234	152	86	69	197
6	28	49	35	138	426	231	217	210	144	83	63	167
7	28	46	41	134	350	245	195	179	124	80	49	157
8	28	40	72	167	260	248	182	162	108	74	42	134
9	29	35	110	535	200	225	169	150	97	69	39	112
10	29	34	136	615	180	234	162	142	86	65	47	94
11	29	38	94	1,120	245	228	150	136	126	60	103	200
12	29	36	90	715	212	234	142	134	169	60	92	248
13	31	37	101	461	187	248	132	126	177	60	80	207
14	38	44	120	340	177	237	126	116	535	58	58	148
15	35	42	136	270	152	220	124	112	3,310	53	282	124
16	35	42	195	210	167	222	122	105	2,040	51	202	120
17	33	44	212	184	228	260	120	99	1,180	49	100	118
18	32	46	155	177	398	279	126	94	745	101	70	114
19	31	45	130	167	381	331	142	90	502	83	56	122
20	31	42	120	155	309	391	144	85	377	68	58	138
21	30	40	99	169	279	331	126	83	294	59	58	152
22	30	38	85	130	401	309	118	1,060	231	53	85	138
23	31	37	83	110	2,370	260	128	583	546	53	321	122
24	31	37	197	112	2,720	297	207	595	426	50	162	109
25	31	36	469	202	1,670	269	331	454	436	49	79	108
26	32	35	370	276	927	212	245	451	495	45	195	100
27	32	34	260	200	659	187	202	325	367	42	228	95
28	32	34	205	160	539	202	461	228	260	41	126	87
29	39	33	169	1,320	-----	408	553	184	190	39	903	82
30	40	33	150	1,530	-----	405	384	231	152	37	2,180	79
31	35	-----	146	788	-----	312	-----	231	-----	36	1,290	-----
TOTAL	981	1,182	4,165	11,328	15,555	8,642	6,326	8,033	14,030	2,051	7,256	5,386
MEAN	31.6	39.4	134	365	556	279	211	259	468	66.2	234	180
MAX	40	51	469	1,530	2,720	443	553	1,060	3,310	132	2,180	775
MIN	28	33	35	110	152	187	118	83	86	36	35	79
CFSM	.12	.14	.49	1.33	2.03	1.02	.77	.95	1.71	.24	.85	.66
IN.	.13	.16	.57	1.54	2.11	1.17	.86	1.09	1.90	.28	.99	.73

CAL YR 1974 TOTAL 119,442 MEAN 327 MAX 5,100 MIN 27 CFSM 1.19 IN 16.22  
WTR YR 1975 TOTAL 84,935 MEAN 233 MAX 3,310 MIN 28 CFSM .85 IN 11.53

PEAK DISCHARGE (BASE, 2,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0500	7.94	2,960	08-29	2300	7.46	2,590
06-15	0800	8.90	3,750				

03329700 Deer Creek near Delphi, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 04...	1315	13.0	28	38	2.9
NOV. 08...	1225	10.5	37	135	14
JAN. 17...	1320	.0	190	15	7.7
MAR. 12...	1400	5.0	244	53	35
APR. 23...	1220	14.5	128	46	16
JUNE 03...	1610	20.0	176	97	46
JULY 15...	1230	21.0	54	41	6.1
AUG. 19...	1630	25.5	56	43	6.6
SEP. 23...	1410	15.0	121	17	5.6



## WABASH RIVER BASIN

03330500 Tippecanoe River at Oswego, Ind.

LOCATION.--Lat 41°19'14", long 85°47'21", in NE¼NE¼ sec.14, T.33 N., R.6 E., Kosciusko County, on left bank 10 ft (3 m) downstream from dam at Tippecanoe Lake Outlet in Oswego, 3 miles (5 km) east of Leesburg, and at mile 158.9 (255.7 km).

DRAINAGE AREA.--113 mi<sup>2</sup> (293 km<sup>2</sup>).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.00 ft (252.984 m) above mean sea level. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 99.0 ft<sup>3</sup>/s (2.804 m<sup>3</sup>/s), 11.90 in/yr (302 mm/yr).

EXTREMES.--Current year: Maximum discharge, 305 ft<sup>3</sup>/s (8.64 m<sup>3</sup>/s) June 20, gage height, 7.66 ft (2.335 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Oct. 1-31.

Period of record: Maximum discharge, 700 ft<sup>3</sup>/s (19.8 m<sup>3</sup>/s) Oct. 17, 1954, gage height, 8.64 ft (2.633 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	38	122	131	236	116	270	124	195	22	70
2	14	16	37	121	135	240	117	262	128	183	59	23
3	14	17	37	119	140	228	123	257	141	170	80	23
4	14	22	37	119	147	213	128	249	161	160	75	23
5	14	51	38	119	154	203	136	243	190	148	65	23
6	14	111	38	119	158	194	147	236	213	135	25	23
7	14	109	39	119	155	193	160	225	228	114	25	23
8	14	103	39	122	151	188	170	215	239	72	25	23
9	14	97	39	126	147	182	177	204	248	31	24	23
10	14	91	39	132	142	179	179	188	251	30	24	23
11	14	87	40	146	134	175	176	173	262	29	24	23
12	14	79	40	166	126	171	170	164	263	28	24	23
13	14	55	41	178	118	168	164	153	248	28	24	22
14	14	56	41	190	110	164	155	141	249	28	24	22
15	14	55	69	198	105	159	146	129	264	28	25	22
16	14	45	91	202	102	156	140	91	271	31	26	22
17	14	26	88	198	100	152	136	20	281	47	26	22
18	14	28	88	193	100	149	140	20	293	50	26	22
19	14	29	88	186	101	146	155	21	300	67	26	22
20	14	29	91	178	105	138	161	53	304	62	27	24
21	14	29	95	170	110	132	165	82	300	45	27	27
22	14	30	97	163	117	127	178	81	294	44	28	26
23	14	53	98	156	136	131	187	75	284	44	48	27
24	14	94	109	150	151	134	206	64	266	55	62	27
25	14	91	118	141	168	132	221	68	254	84	50	27
26	14	85	119	131	191	131	236	85	244	83	27	26
27	14	80	119	123	213	128	252	104	235	80	27	26
28	14	55	123	113	228	125	270	112	227	67	28	26
29	14	37	129	115	-----	123	277	119	218	28	50	25
30	14	38	126	121	-----	118	282	118	209	22	64	25
31	14	-----	125	125	-----	116	-----	125	-----	22	78	-----
TOTAL	434	1,713	2,316	4,561	3,875	5,031	5,270	4,347	7,189	2,210	1,165	763
MEAN	14.0	57.1	74.7	147	138	162	176	140	240	71.3	37.6	25.4
MAX	14	111	129	202	228	240	282	270	304	195	80	70
MIN	14	15	37	113	100	116	116	20	124	22	22	22
CFSM	.12	.51	.66	1.30	1.22	1.43	1.56	1.24	2.12	.63	.33	.22
IN.	.14	.56	.76	1.50	1.28	1.66	1.73	1.43	2.37	.73	.38	.25

CAL YR 1974 TOTAL 43,159 MEAN 118 MAX 398 MIN 13 CFSM 1.04 IN 14.21  
WTR YR 1975 TOTAL 38,874 MEAN 107 MAX 304 MIN 14 CFSM .95 IN 12.80

PEAK DISCHARGE (BASE, 200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-16	0800	6.96	203	06-12	0400	7.50	270
03-02	1000	7.21	242	06-20	0100	7.66	305
04-30	0600	7.44	284				

03331110 Walnut Creek near Warsaw, Ind.

LOCATION.--Lat 41°12'17", long 85°52'11", in NW¼NE¼ sec.30, T.32 N., R.6 E., Kosciusko County, on left bank 10 ft (3 m) upstream from bridge on County Road 200 South, 0.3 mile (0.5 km) downstream from small right-bank tributary, and 2.5 miles (4.0 km) south of court house in Warsaw.

DRAINAGE AREA.--19.6 mi<sup>2</sup> (50.8 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 823.00 ft (250.850 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 17.1 ft<sup>3</sup>/s (0.484 m<sup>3</sup>/s), 11.85 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 98 ft<sup>3</sup>/s (2.78 m<sup>3</sup>/s) June 16, gage height, 2.79 ft (0.850 m); minimum daily, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Oct. 1, 3-15, 18.

Period of record: Maximum discharge, 141 ft<sup>3</sup>/s (3.99 m<sup>3</sup>/s) Apr. 21, 1970, gage height, 3.02 ft (0.920 m); maximum gage height, 3.10 ft (0.945 m) Mar. 5, 1974; minimum daily discharge, 0.90 ft<sup>3</sup>/s (0.025 m<sup>3</sup>/s) Aug. 13, Aug. 24 to Sept. 3, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.0	4.8	19	30	27	20	40	60	18	2.1	6.7
2	1.3	2.0	4.8	19	25	23	19	32	58	16	5.1	6.4
3	1.2	6.5	4.8	18	21	21	33	28	56	14	10	5.7
4	1.2	12	4.7	16	19	19	42	26	56	12	9.3	5.4
5	1.2	13	4.6	14	18	17	42	23	53	11	7.6	7.0
6	1.2	13	4.7	13	17	17	36	21	52	9.2	6.7	12
7	1.2	10	4.7	12	19	22	30	19	45	8.9	5.4	12
8	1.2	8.2	6.3	13	14	29	25	18	37	8.2	4.5	9.9
9	1.2	6.8	8.2	23	15	28	22	17	30	7.5	3.8	8.4
10	1.2	5.3	7.0	35	17	26	19	15	25	7.1	4.5	7.2
11	1.2	5.2	6.6	49	11	23	18	14	28	6.8	5.4	6.7
12	1.2	5.6	6.5	49	10	22	17	14	34	6.4	7.5	6.0
13	1.2	5.5	6.5	40	10	21	16	13	32	6.2	5.3	4.9
14	1.2	5.9	6.5	36	9.6	19	15	13	38	6.2	4.4	4.2
15	1.2	5.9	9.8	22	8.6	18	15	12	83	5.9	7.5	3.7
16	1.5	5.6	19	18	11	17	14	11	98	5.6	8.7	3.9
17	1.3	6.2	21	18	21	16	13	9.9	92	5.2	8.0	3.7
18	1.2	7.6	17	14	36	15	13	9.4	79	4.7	7.1	3.9
19	1.3	8.1	16	14	33	19	15	8.9	62	5.7	5.9	4.4
20	1.3	8.2	15	14	27	21	15	8.0	48	5.1	4.8	4.8
21	1.3	8.2	13	12	24	21	14	8.0	38	4.5	4.2	4.6
22	1.3	7.6	11	11	24	20	15	16	30	4.5	4.2	4.0
23	1.3	6.8	10	10	48	19	15	18	23	4.2	4.3	3.9
24	1.4	6.5	14	10	59	20	30	35	23	3.9	3.9	3.4
25	1.5	6.3	20	11	57	21	30	42	25	3.5	3.4	3.3
26	1.5	5.9	21	14	48	19	28	51	25	3.3	3.9	3.3
27	1.5	5.3	19	14	39	18	27	50	23	3.2	3.7	3.2
28	1.4	5.3	16	12	33	17	46	41	21	2.8	3.7	3.0
29	1.5	5.3	14	26	-----	20	49	33	25	2.7	3.5	2.9
30	1.8	5.2	14	36	-----	23	46	33	21	2.6	4.6	2.9
31	1.9	-----	16	36	-----	22	-----	55	-----	2.2	6.3	-----
TOTAL	41.1	205.0	346.5	648	704.2	640	739	734.2	1,320	207.1	169.3	161.4
MEAN	1.33	6.83	11.2	20.9	25.2	20.6	24.6	23.7	44.0	6.68	5.46	5.38
MAX	1.9	13	21	49	59	29	49	55	98	18	10	12
MIN	1.2	2.0	4.6	10	8.6	15	13	8.0	21	2.2	2.1	2.9
CFSM	.07	.35	.57	1.07	1.29	1.05	1.26	1.21	2.24	.34	.28	.27
IN.	.08	.39	.66	1.23	1.34	1.21	1.40	1.39	2.51	.39	.32	.31

CAL YR 1974 TOTAL 6,402.4 MEAN 17.5 MAX 122 MIN 1.1 CFSM .89 IN 12.15  
WTR YR 1975 TOTAL 5,915.8 MEAN 16.2 MAX 98 MIN 1.2 CFSM .83 IN 11.23

PEAK DISCHARGE (BASE, 75 FT<sup>3</sup>/S).--June 16 (0400) 98 ft<sup>3</sup>/s (2.79 ft).

03331500 Tippecanoe River near Ora, Ind.

LOCATION.--Lat 41°09'26", long 86°33'49", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.6, T.31 N., R.1 W., Pulaski County, on right bank at downstream side of highway bridge, 1.0 mile (1.6 km) upstream from Bartee ditch, 1.3 miles (2.1 km) southwest of Ora, and at mile 78.5 (126.3 km).

DRAINAGE AREA.--856 mi<sup>2</sup> (2,217 km<sup>2</sup>).

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

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 694 ft (212 m) (by barometer). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft (37 m) 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 (152 m) downstream from present site. All gages at same datum.

AVERAGE DISCHARGE.--32 years, 809 ft<sup>3</sup>/s (22.91 m<sup>3</sup>/s), 12.83 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,790 ft<sup>3</sup>/s (136 m<sup>3</sup>/s) June 17, gage height, 12.40 ft (3.780 m); minimum daily, 174 ft<sup>3</sup>/s (4.93 m<sup>3</sup>/s) Oct. 4, 6-9, 16.

Period of record: Maximum discharge, 7,800 ft<sup>3</sup>/s (221 m<sup>3</sup>/s) Apr. 5, 1950, gage height, 14.40 ft (4.389 m) site then in use; minimum daily, 87 ft<sup>3</sup>/s (2.46 m<sup>3</sup>/s) Sept. 13, 1966.

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	233	343	725	1,440	1,660	984	2,290	1,870	1,530	388	517
2	192	235	328	770	1,300	1,480	949	2,040	1,720	1,350	376	509
3	190	244	320	738	1,180	1,320	1,010	1,800	1,760	1,220	453	486
4	174	388	316	709	1,060	1,210	1,180	1,620	2,000	1,120	602	456
5	176	447	316	671	991	1,150	1,210	1,500	2,280	1,050	630	444
6	174	496	308	634	957	1,100	1,170	1,390	2,460	966	618	520
7	174	480	306	610	883	1,160	1,130	1,280	2,480	885	551	510
8	174	444	320	628	887	1,460	1,090	1,180	2,200	827	479	475
9	174	439	355	884	1,060	1,570	1,040	1,080	1,860	789	416	448
10	176	430	391	1,120	1,050	1,470	992	1,010	1,600	751	377	414
11	176	441	365	1,630	1,250	1,380	935	956	1,600	697	369	399
12	176	452	355	2,160	1,480	1,310	893	941	2,090	657	422	440
13	176	439	363	2,100	1,390	1,300	853	897	2,290	630	463	477
14	192	441	363	1,670	1,150	1,230	821	834	2,310	611	415	451
15	194	425	373	1,460	1,050	1,140	799	783	2,900	596	467	426
16	174	404	425	1,180	1,020	1,060	772	739	3,920	579	491	404
17	186	404	482	1,130	860	1,010	755	687	4,690	553	485	393
18	194	422	496	1,050	1,280	972	774	647	4,600	532	468	383
19	199	428	508	963	1,420	992	905	613	4,120	537	436	373
20	199	409	494	870	1,210	1,110	1,050	564	3,680	696	393	374
21	197	393	482	840	1,130	1,110	1,060	533	3,380	718	425	370
22	197	375	466	810	1,140	1,080	1,030	843	2,750	713	395	368
23	199	363	452	766	1,510	1,040	1,010	1,450	2,370	658	430	363
24	197	353	477	733	2,260	1,010	1,120	1,360	2,490	589	469	357
25	197	343	607	777	2,640	979	1,300	1,280	2,710	534	430	356
26	199	343	675	910	2,500	948	1,360	1,530	3,090	500	436	359
27	197	363	653	867	2,160	910	1,350	1,950	3,080	479	445	348
28	197	363	625	793	1,880	909	1,640	1,910	2,550	469	422	339
29	207	355	604	945	-----	976	2,090	1,640	2,040	451	420	332
30	226	348	598	1,540	-----	1,100	2,300	1,450	1,760	435	445	331
31	233	-----	644	1,660	-----	1,050	-----	1,620	-----	417	484	-----
TOTAL	5,910	11,700	13,810	32,343	38,138	36,196	33,572	38,417	78,650	22,539	14,100	12,422
MEAN	191	390	445	1,043	1,362	1,168	1,119	1,239	2,622	727	455	414
MAX	233	496	675	2,160	2,640	1,660	2,300	2,290	4,690	1,530	630	520
MIN	174	233	306	610	860	909	755	533	1,600	417	369	331
CFSM	.22	.46	.52	1.22	1.59	1.36	1.31	1.45	3.06	.85	.53	.48
IN.	.26	.51	.60	1.41	1.66	1.57	1.46	1.67	3.42	.98	.61	.54
CAL YR 1974	TOTAL 367,350		MEAN 1,006	MAX 4,650	MIN 174	CFSM 1.18	IN 15.96					
WTR YR 1975	TOTAL 337,797		MEAN 925	MAX 4,690	MIN 174	CFSM 1.08	IN 14.68					

PEAK DISCHARGE (BASE, 2,300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-25	1600	10.54	2,690	06-07	0100	10.36	2,530
05-01	0200	10.16	2,360	06-17	1700	12.40	4,790

03332500 Tippecanoe River near Monticello, Ind.

LOCATION.--Lat 40°46'48", long 86°45'36", in NW¼NE¼ sec.21, T.27 N., R.3 W., White County, at Norway plant of Northern Indiana Public Service Co., 2 miles (3 km) north of Monticello, and at mile 32.0 (51.5 km).

DRAINAGE AREA.--1,732 mi<sup>2</sup> (4,486 km<sup>2</sup>).

PERIOD OF RECORD.--October 1931 to current year.

AVERAGE DISCHARGE.--44 years, 1,501 ft<sup>3</sup>/s (42.51 m<sup>3</sup>/s), 11.78 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 11,600 ft<sup>3</sup>/s (329 m<sup>3</sup>/s) June 15; minimum daily, 238 ft<sup>3</sup>/s (6.74 m<sup>3</sup>/s) Oct. 10, 11.

Period of record: Maximum daily discharge, 16,800 ft<sup>3</sup>/s (476 m<sup>3</sup>/s) June 13, 1958; minimum daily, 103 ft<sup>3</sup>/s (2.92 m<sup>3</sup>/s) 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 CURIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	455	701	1,930	2,950	3,030	1,930	3,570	3,280	2,800	635	1,430
2	282	433	586	1,620	2,620	2,650	1,850	3,300	3,080	2,440	635	1,220
3	325	680	652	1,620	2,390	2,230	2,100	2,880	2,820	2,000	833	1,070
4	303	783	520	1,430	2,080	2,000	2,230	2,670	2,970	1,870	734	915
5	347	899	619	1,430	2,060	1,890	1,230	2,440	3,310	1,820	915	1,090
6	325	915	520	1,260	2,080	1,910	2,040	2,440	3,670	1,600	1,020	1,430
7	325	833	750	1,240	1,470	2,030	1,980	2,120	3,330	1,560	915	1,170
8	325	750	685	1,570	1,450	2,530	1,810	1,940	3,180	1,350	750	915
9	325	701	750	2,670	1,070	2,490	1,720	1,810	2,710	1,240	652	915
10	238	734	618	3,740	1,020	2,510	1,780	1,610	2,640	1,220	619	763
11	238	783	767	7,050	976	2,210	1,650	1,510	4,780	1,340	803	866
12	390	740	668	4,880	1,260	2,440	1,490	1,640	6,000	1,000	915	800
13	390	750	767	3,590	1,370	2,410	1,430	1,430	3,950	1,110	668	915
14	390	789	734	2,220	1,560	2,290	1,430	1,430	5,150	1,170	734	882
15	347	635	810	2,310	1,430	2,140	1,430	1,430	11,600	1,040	1,440	734
16	325	783	800	2,190	1,560	1,980	1,280	1,260	11,100	915	1,460	866
17	325	783	915	1,650	2,510	1,810	1,220	1,170	8,400	915	1,090	614
18	303	882	915	1,730	4,600	1,870	1,320	1,220	7,130	1,190	915	717
19	325	816	849	2,000	3,030	2,040	1,430	1,130	6,180	1,040	800	734
20	325	783	849	1,450	2,720	2,020	1,430	1,110	5,360	1,110	718	685
21	368	655	833	1,430	2,550	2,000	1,540	1,140	5,580	1,190	734	635
22	325	671	833	1,620	2,910	1,940	1,570	2,880	4,580	979	816	767
23	325	652	882	1,430	6,350	1,810	1,580	3,050	4,080	958	1,130	652
24	390	762	1,200	1,430	7,320	1,940	1,830	3,090	4,320	1,020	1,040	668
25	347	602	1,650	1,840	5,700	1,810	1,870	3,330	6,330	915	767	652
26	347	569	1,460	1,960	4,920	1,620	1,940	3,530	7,090	765	833	718
27	305	619	1,430	1,640	4,340	1,560	2,020	3,200	5,300	618	718	718
28	325	569	1,320	1,590	3,790	1,670	3,150	2,970	4,480	685	816	619
29	461	652	1,240	3,190	-----	2,160	3,500	2,700	3,820	652	800	635
30	412	619	1,280	3,650	-----	2,310	3,370	2,830	3,250	602	1,290	652
31	390	-----	1,680	3,060	-----	2,080	-----	4,280	-----	668	1,560	-----
TOTAL	10,473	21,297	28,283	70,420	78,086	65,380	55,150	71,110	149,470	37,782	27,755	25,447
MEAN	338	710	912	2,272	2,789	2,109	1,838	2,294	4,982	1,219	895	848
MAX	461	915	1,680	7,050	7,320	3,030	3,500	4,280	11,600	2,800	1,560	1,430
MIN	238	433	520	1,240	976	1,560	1,220	1,110	2,640	602	619	614
CFSM	.20	.41	.53	1.31	1.61	1.22	1.06	1.32	2.88	.70	.52	.49
IN.	.22	.46	.61	1.51	1.68	1.40	1.18	1.53	3.21	.81	.60	.55
CAL YR 1974	TOTAL 672,703	MEAN 1,843	MAX 12,100	MIN 238	CFSM 1.06	IN 14.45						
WTR YR 1975	TOTAL 640,653	MEAN 1,755	MAX 11,600	MIN 238	CFSM 1.01	IN 13.76						

03333000 Tippecanoe River near Delphi, Ind.

LOCATION.--Lat 40°37'02", long 86°45'39", in NW¼NE¼ sec.16, T.25 N., R.3 W., Carroll County, on right bank 2 miles (3 km) northeast of Springboro, 1.7 miles (2.7 km) (revised) downstream from Big Creek, 5 miles (8 km) northwest of Delphi, and at mile 15.1 (24.3 km).

DRAINAGE AREA.--1,865 mi<sup>2</sup> (4,830 km<sup>2</sup>).

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 (168.253 m) 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 (8.8 km) downstream at different datum.

AVERAGE DISCHARGE.--36 years (1939 to current year), 1,635 ft<sup>3</sup>/s (46.30 m<sup>3</sup>/s), 11.91 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,100 ft<sup>3</sup>/s (399 m<sup>3</sup>/s) June 15, gage height, 11.79 ft (3.594 m); minimum daily, 205 ft<sup>3</sup>/s (5.81 m<sup>3</sup>/s) Oct. 11.

Period of record: Maximum discharge, 22,600 ft<sup>3</sup>/s (640 m<sup>3</sup>/s) Feb. 10, 1959, gage height, 15.10 ft (4.602 m); minimum daily, 1 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Nov. 2, 3, 1954, caused by repair work at Oakdale Dam, 6.5 miles (10.5 km) upstream.

REMARKS.--Records good. Flow regulated by upstream reservoirs.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	483	708	1,870	3,110	3,370	2,120	3,450	3,230	2,730	731	1,790
2	275	311	585	1,820	2,810	3,150	2,110	3,240	3,070	2,400	681	1,680
3	311	846	585	1,570	2,660	2,520	2,270	2,860	2,960	2,170	904	1,250
4	270	954	558	1,600	2,210	2,460	2,380	2,680	2,830	2,100	819	977
5	315	883	592	1,340	2,340	2,160	2,330	2,420	3,310	1,730	1,040	1,300
6	315	911	571	1,320	2,330	2,340	2,220	2,510	3,510	1,730	1,050	1,630
7	329	750	531	1,280	1,750	2,460	2,250	2,020	3,180	1,530	892	1,460
8	329	873	810	1,450	1,680	2,750	1,960	1,970	3,070	1,510	890	1,070
9	320	648	810	2,800	1,210	2,810	1,920	1,930	2,610	1,340	787	911
10	311	767	449	3,750	1,120	2,860	1,880	1,670	2,740	1,220	597	1,050
11	205	776	810	7,670	1,060	2,590	1,840	1,540	4,520	1,220	848	1,120
12	394	684	793	4,930	1,330	2,820	1,690	1,670	6,220	1,110	1,340	1,260
13	359	692	619	3,920	1,430	2,590	1,630	1,530	3,990	959	702	1,180
14	507	945	810	2,430	1,710	2,410	1,520	1,470	4,860	1,260	765	1,120
15	320	564	810	2,530	1,590	2,420	1,600	1,420	13,500	1,050	1,670	946
16	292	802	684	2,380	1,560	2,060	1,520	1,260	11,800	901	1,760	965
17	292	802	963	1,720	2,540	2,060	1,260	1,140	8,590	901	1,260	841
18	320	810	997	1,930	4,430	1,930	1,620	1,420	7,060	1,250	892	809
19	315	810	819	2,130	3,250	2,270	1,630	1,110	6,070	1,190	918	826
20	315	810	819	1,660	2,950	2,120	1,560	996	5,340	1,730	713	815
21	320	750	937	1,270	2,800	2,140	1,550	1,050	5,960	1,210	945	756
22	315	578	828	1,770	3,120	2,300	1,780	3,050	4,610	1,200	920	857
23	320	784	819	1,510	7,400	1,990	1,680	3,120	4,020	1,040	1,190	739
24	426	669	1,120	1,450	7,950	1,930	2,120	3,090	4,120	1,060	1,190	815
25	405	545	1,900	2,140	6,170	1,820	1,840	3,540	7,020	1,030	901	828
26	320	619	1,590	2,230	5,100	1,760	1,950	3,420	7,720	901	954	931
27	320	619	1,350	1,660	4,490	1,690	2,060	3,170	5,540	893	796	850
28	315	564	1,350	1,770	3,830	1,810	3,280	2,860	4,500	711	842	803
29	531	605	1,320	3,390	-----	2,370	3,370	2,640	3,840	687	1,490	798
30	432	612	1,120	4,110	-----	2,530	3,310	2,760	3,270	675	2,030	750
31	320	-----	1,600	3,230	-----	2,200	-----	4,190	-----	782	2,160	-----
TOTAL	10,429	21,466	28,257	74,630	83,930	72,690	60,250	71,196	153,060	39,720	32,677	31,127
MEAN	336	716	912	2,407	2,998	2,345	2,008	2,297	5,102	1,281	1,054	1,038
MAX	531	954	1,900	7,670	7,950	3,370	3,370	4,190	13,500	2,730	2,160	1,790
MIN	205	311	449	1,270	1,060	1,690	1,260	996	2,610	675	597	739
CFSM	.18	.38	.49	1.29	1.61	1.26	1.08	1.23	2.74	.69	.57	.56
IN.	.21	.43	.56	1.49	1.67	1.45	1.20	1.42	3.05	.79	.65	.62
CAL YR 1974	TOTAL 710,127	MEAN 1,946	MAX 13,300	MIN 205	CFSM 1.04	IN 14.16						
WTR YR 1975	TOTAL 679,432	MEAN 1,861	MAX 13,500	MIN 205	CFSM 1.00	IN 13.55						



03333450 Wildcat Creek near Jerome, Ind.

LOCATION.--Lat 40°26'29", long 85°55'08", in NE¼SE¼ 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 (0.8 km) downstream from Mud Creek, 1.5 miles (2.4 km) southeast of Jerome, and at mile 79.9 (128.6 km).

DRAINAGE AREA.--146 mi<sup>2</sup> (378 km<sup>2</sup>).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 820.04 ft (249.948 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 129 ft<sup>3</sup>/s (3.653 m<sup>3</sup>/s), 12.00 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,270 ft<sup>3</sup>/s (64.3 m<sup>3</sup>/s) Feb. 23, gage height, 9.37 ft (2.856 m); minimum daily, 4.9 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Oct. 3.

Period of record: Maximum discharge, 4,160 ft<sup>3</sup>/s (118 m<sup>3</sup>/s) Apr. 20, 1964; maximum gage height, 11.98 ft (3.652 m) Jan. 26, 1962; minimum daily discharge, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Oct. 10-12, 1966.

Flood in March 1913 reached a stage of about 18 ft (5.486 m), from information by local residents.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	5.3	11	288	257	279	212	374	167	90	10	163
2	5.7	5.3	12	212	216	212	167	287	191	75	12	100
3	4.9	5.3	11	161	177	160	159	231	161	62	19	62
4	15	6.4	11	133	158	132	121	193	121	57	22	50
5	16	10	11	105	166	118	104	153	109	50	20	40
6	8.6	10	8.4	97	327	111	96	130	123	45	15	31
7	7.2	8.6	6.8	90	255	112	90	107	90	42	12	24
8	8.2	6.8	45	182	175	111	86	95	72	95	9.4	19
9	7.7	6.1	62	486	119	94	81	86	61	76	7.9	15
10	12	5.3	46	476	105	99	79	79	55	49	7.4	12
11	14	5.7	35	823	96	92	75	78	125	38	11	13
12	14	5.3	46	541	80	119	71	80	208	34	13	16
13	14	5.7	81	298	68	156	70	73	121	29	11	14
14	16	9.6	108	195	64	137	69	63	254	28	9.3	11
15	11	11	140	145	69	118	69	63	1,330	25	18	9.0
16	6.1	9.6	241	113	74	131	69	57	911	22	17	9.4
17	5.3	9.1	165	89	143	178	69	51	440	20	13	9.6
18	5.3	9.9	107	94	327	292	67	51	260	19	10	9.6
19	12	11	85	93	267	315	98	48	172	25	8.8	9.6
20	20	10	65	74	201	302	87	45	128	27	7.7	11
21	19	9.5	60	68	165	226	65	42	190	23	6.9	9.8
22	11	9.4	51	68	229	200	60	968	221	18	6.1	9.1
23	6.4	15	50	65	1,880	152	71	1,310	139	14	5.8	8.2
24	6.4	19	289	66	1,070	147	615	1,160	104	13	5.4	7.9
25	6.4	18	358	122	693	125	578	876	218	12	5.0	7.7
26	13	10	236	184	499	95	328	686	391	11	23	7.7
27	20	7.9	151	116	376	84	243	417	435	10	46	7.0
28	20	8.2	112	94	1,690	94	812	280	280	9.9	33	6.6
29	19	8.2	92	394	-----	481	824	207	179	9.2	26	6.1
30	11	8.5	91	562	-----	557	497	220	121	8.5	307	5.4
31	6.1	-----	107	340	-----	309	-----	150	-----	9.0	280	-----
TOTAL	347.4	269.7	2,894.2	6,774	9,946	5,738	6,032	8,660	7,377	1,045.6	997.7	703.7
MEAN	11.2	8.99	93.4	219	355	185	201	279	246	33.7	32.2	23.5
MAX	20	19	358	823	1,880	557	824	1,310	1,330	95	307	163
MIN	4.9	5.3	6.8	65	64	84	60	42	55	8.5	5.0	5.4
CFSM	.08	.06	.64	1.50	2.43	1.27	1.38	1.91	1.68	.23	.22	.16
IN.	.09	.07	.74	1.73	2.53	1.46	1.54	2.21	1.88	.27	.25	.18
CAL YR 1974	TOTAL 65,405.60	MEAN 179	MAX 2,610	MIN 4.0	CFSM 1.23	IN 16.66						
WTR YR 1975	TOTAL 50,785.30	MEAN 139	MAX 1,880	MIN 4.9	CFSM .95	IN 12.94						

PEAK DISCHARGE (BASE, 1,200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	2200	9.37	2,270	06-15	1300	7.60	1,460
05-23	0100	7.95	1,590				



## WABASH RIVER BASIN

03333600 Kokomo Creek near Kokomo, Ind.

LOCATION.--Lat 40°26'28", long 86°05'20", in NW¼SW¼ 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 (4.2 km) southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.--24.7 mi<sup>2</sup> (64.0 km<sup>2</sup>).

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 807.68 ft (246.181 m) above mean sea level (unadjusted).

AVERAGE DISCHARGE.--16 years, 20.9 ft<sup>3</sup>/s (0.592 m<sup>3</sup>/s), 11.49 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 370 ft<sup>3</sup>/s (10.5 m<sup>3</sup>/s) Feb. 23, gage height, 6.52 ft (1.987 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Aug. 20.

Period of record: Maximum discharge, 1,040 ft<sup>3</sup>/s (29.4 m<sup>3</sup>/s) Apr. 20, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Aug. 20, 1975.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 2109: Drainage area. WRD Ind. 1970-71(P).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	2.5	2.5	59	48	41	34	42	16	5.4	.13	3.6
2	.75	2.4	2.8	39	41	33	32	33	20	3.5	.80	1.6
3	.96	2.6	2.7	34	34	28	34	31	17	2.5	2.1	.79
4	1.4	3.9	2.9	29	32	25	28	28	13	1.6	.70	.48
5	1.4	4.4	2.4	25	36	23	25	25	13	.98	.43	.46
6	1.6	2.0	2.2	23	55	21	23	22	22	.56	.43	.40
7	2.0	1.7	3.7	21	38	21	21	19	12	.75	.31	.23
8	2.8	1.5	12	74	30	17	19	17	8.4	1.6	.30	.17
9	2.8	1.5	14	107	23	16	18	15	5.7	1.7	.30	.14
10	2.5	1.5	10	103	20	17	17	13	5.4	2.3	.32	.10
11	2.3	1.6	10	139	17	16	16	12	15	4.9	.55	.23
12	3.0	1.5	18	71	15	21	15	12	20	4.3	.54	.37
13	3.8	1.7	15	46	14	21	14	11	12	5.3	.40	.35
14	4.9	3.7	15	33	13	20	11	9.8	70	5.2	.35	.29
15	2.5	2.9	18	27	14	19	11	9.1	207	3.5	.63	.34
16	2.4	2.7	22	22	19	23	10	8.0	123	1.7	.28	.56
17	2.3	3.1	37	17	34	34	10	6.7	66	.82	.23	.59
18	2.2	3.2	27	20	51	52	13	6.5	48	2.5	.12	.63
19	2.1	3.3	23	18	40	59	16	5.8	44	2.2	.09	.84
20	2.2	3.2	16	14	32	50	11	5.2	48	.43	.08	.88
21	2.2	2.9	14	13	31	39	9.2	4.7	48	.27	.11	.63
22	2.3	2.5	11	12	65	35	9.3	130	13	.12	.09	.63
23	2.3	2.4	14	12	350	28	13	92	8.4	.12	.13	.52
24	2.4	3.0	85	14	242	28	79	95	6.4	.12	.28	.51
25	2.2	2.6	91	34	127	23	67	63	26	.11	.56	.59
26	2.1	2.3	49	36	89	18	44	44	58	.11	1.4	.84
27	2.0	2.2	36	23	68	19	38	32	34	.11	.22	.67
28	6.0	2.1	29	21	54	23	106	24	20	.11	.09	.62
29	6.2	2.0	25	128	-----	67	77	20	13	.11	5.4	.60
30	5.3	2.0	24	83	-----	58	55	19	8.6	.11	18	.55
31	2.8	-----	31	57	-----	42	-----	16	-----	.11	7.4	-----
TOTAL	80.46	74.9	665.2	1,354	1,632	937	875.5	870.8	1,020.9	53.14	42.77	19.21
MEAN	2.60	2.50	21.5	43.7	58.3	30.2	29.2	28.1	34.0	1.71	1.38	.64
MAX	6.2	4.4	91	139	350	67	106	130	207	5.4	18	3.6
MIN	.75	1.5	2.2	12	13	16	9.2	4.7	5.4	.11	.08	.10
CFSM	.11	.10	.87	1.77	2.36	1.22	1.18	1.14	1.38	.07	.06	.03
IN.	.12	.11	1.00	2.04	2.46	1.41	1.32	1.31	1.54	.08	.06	.03

CAL YR 1974 TOTAL 11,367.02 MEAN 31.1 MAX 444 MIN .35 CFSM 1.26 IN 17.12  
WTR YR 1975 TOTAL 7,625.88 MEAN 20.9 MAX 350 MIN .08 CFSM .85 IN 11.49

PEAK DISCHARGE (BASE, 260 FT<sup>3</sup>/S).--Feb. 23 (0500) 370 ft<sup>3</sup>/s (6.52 ft).

03333700 Wildcat Creek at Kokomo, Ind.

LOCATION.--Lat 40°28'24", long 86°09'26", in NE¼NW¼ sec.2, T.23 N., R.3 E., Howard County, on right bank on property of Penn-Dixie Steel Corporation in Kokomo, 0.5 mile (0.8 km) (revised) downstream from Kokomo Creek, 0.4 mile (0.6 km) upstream from Dixon Road bridge, and at mile 62.5 (100.6 km).

DRAINAGE AREA.--242 mi<sup>2</sup> (627 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.62 ft (236.409 m) above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--20 years, 226 ft<sup>3</sup>/s (6.40 m<sup>3</sup>/s), 12.68 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,050 ft<sup>3</sup>/s (115 m<sup>3</sup>/s) Feb. 24, gage height, 7.91 ft (2.411 m); minimum daily, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Nov. 10.

Period of record: Maximum discharge, 8,100 ft<sup>3</sup>/s (229 m<sup>3</sup>/s) Feb. 10, 1959; maximum gage height, 11.77 ft (3.587 m) Apr. 21, 1964; minimum daily discharge, 7.2 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) 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 (5,140,000 m<sup>3</sup>).

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	29	28	335	456	457	332	503	279	162	44	194
2	29	25	42	373	369	344	306	405	309	130	42	176
3	30	30	35	289	170	277	281	332	281	111	246	125
4	30	43	33	249	150	236	245	287	233	87	69	95
5	26	43	32	208	130	208	203	254	225	82	58	123
6	24	31	29	190	120	196	175	217	232	73	50	78
7	29	29	48	180	130	203	143	184	188	74	49	65
8	30	24	83	338	302	191	78	153	147	71	48	69
9	29	26	77	715	229	172	68	136	127	104	42	66
10	29	20	57	850	175	177	66	119	118	91	49	70
11	29	36	55	1,250	170	161	62	112	239	76	65	88
12	28	32	77	1,000	150	159	55	129	345	62	51	66
13	29	32	81	534	130	213	53	118	256	57	45	56
14	65	50	82	348	120	213	60	102	548	58	49	51
15	34	33	119	275	130	201	74	93	2,310	57	88	58
16	31	26	190	225	149	195	85	90	2,060	56	41	64
17	27	25	298	181	212	235	93	77	891	54	37	56
18	29	30	237	182	419	349	127	71	520	84	43	54
19	24	29	192	177	428	445	150	73	344	53	43	73
20	22	28	159	152	328	445	152	70	269	52	42	62
21	27	27	129	127	286	353	126	81	239	54	39	54
22	28	27	113	115	427	298	111	810	313	54	39	49
23	28	27	115	104	2,750	263	135	1,820	245	53	35	47
24	29	29	336	107	3,800	218	537	2,290	191	51	36	43
25	30	29	588	180	2,330	201	883	1,540	298	51	41	40
26	24	27	439	267	1,260	183	499	1,010	687	45	110	39
27	24	26	298	227	822	159	393	672	545	45	47	37
28	29	22	229	187	593	156	887	461	423	45	43	34
29	52	23	187	783	-----	375	1,240	343	278	44	222	33
30	41	24	170	971	-----	725	753	331	211	45	145	33
31	31	-----	204	651	-----	498	-----	280	-----	45	102	-----
TOTAL	949	882	4,762	11,770	16,735	8,506	8,372	13,163	13,351	2,126	2,060	2,098
MEAN	30.6	29.4	154	380	598	274	279	425	445	68.6	66.5	69.9
MAX	65	50	588	1,250	3,800	725	1,240	2,290	2,310	162	246	194
MIN	22	20	28	104	120	156	53	70	118	44	35	33
CFSM	.13	.12	.64	1.57	2.47	1.13	1.15	1.76	1.84	.28	.27	.29
IN.	.15	.14	.73	1.81	2.57	1.31	1.29	2.02	2.05	.33	.32	.32

CAL YR 1974 TOTAL 124,695 MEAN 342 MAX 6,070 MIN 20 CFSM 1.41 IN 19.17  
WTR YR 1975 TOTAL 84,774 MEAN 232 MAX 3,800 MIN 20 CFSM .96 IN 13.03

PEAK DISCHARGE (BASE, 2,100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0700	7.91	4,050	06-15	2200	6.58	2,760
05-24	1200	6.44	2,630				

03334500 South Fork Wildcat Creek near Lafayette, Ind.

LOCATION.--Lat 40°25'04", long 86°46'05", in SW¼SW¼ sec.21, T.23 N., R.3 W., Tippecanoe County, on right bank 40 ft (12 m) upstream from bridge on State Highway 26, 0.5 mile (0.8 km) upstream from Middle Fork, 4.4 miles (7.1 km) (revised) upstream from mouth, and 5 miles (8 km) east of Lafayette.

DRAINAGE AREA.--243 mi<sup>2</sup> (629 km<sup>2</sup>).

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 (172.700 m) above mean sea level (Indiana State Highway Commission bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft (12 m) downstream at same datum.

AVERAGE DISCHARGE.--32 years, 241 ft<sup>3</sup>/s (6.825 m<sup>3</sup>/s), 13.47 in/yr (342 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,940 ft<sup>3</sup>/s (168 m<sup>3</sup>/s) May 23, gage height, 11.32 ft (3.450 m); minimum daily, 41 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s) Oct. 7, 8, 22.

Period of record: Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) June 10, 1958, gage height, 15.28 ft (4.657 m), from rating curve extended above 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) on basis of contracted-opening measurement at 16.8 ft (5.121 m); minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Sept. 19, 22, 1944, Aug. 30, 31, Sept. 1, 14, 15, 1969.

Flood in May 1943 reached a stage of 16.8 ft (5.12 m), from floodmarks, discharge, 17,900 ft<sup>3</sup>/s (507 m<sup>3</sup>/s) 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.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	55	52	356	427	416	376	514	250	184	68	451
2	46	51	53	319	359	336	325	420	228	157	69	289
3	44	105	54	249	307	279	606	351	213	139	254	205
4	43	54	54	215	269	241	554	318	196	126	276	154
5	43	64	51	180	273	221	405	271	193	115	136	125
6	42	68	50	163	474	208	339	239	198	109	104	115
7	41	62	54	158	387	204	295	212	180	103	151	98
8	41	55	165	223	278	194	266	194	161	96	101	86
9	43	51	227	1,020	226	170	241	180	149	90	79	80
10	43	49	148	991	170	171	225	170	142	84	74	75
11	43	52	120	1,830	165	169	206	163	164	77	258	100
12	43	55	147	1,010	160	169	192	163	178	74	207	115
13	43	57	221	531	152	184	178	156	147	74	114	92
14	49	62	193	368	142	181	170	147	154	72	89	77
15	58	71	175	299	141	174	166	141	213	65	142	71
16	54	68	266	240	149	175	161	139	306	64	109	70
17	47	65	223	193	199	205	156	134	247	60	88	72
18	45	66	171	180	393	228	160	130	193	797	78	68
19	44	66	149	180	346	295	357	127	159	493	76	72
20	43	63	130	179	270	364	252	125	248	247	68	72
21	43	58	115	155	244	296	192	121	311	157	64	68
22	41	55	109	153	291	267	175	4,380	648	116	61	64
23	42	52	107	141	2,390	225	198	3,900	428	97	60	63
24	47	52	325	140	2,430	264	649	1,270	320	88	57	62
25	49	54	561	272	1,510	222	660	736	213	79	55	64
26	47	50	361	396	970	181	420	692	263	73	146	65
27	44	49	249	259	689	175	343	692	811	69	155	63
28	43	49	198	207	531	199	1,090	470	513	65	91	60
29	48	48	167	906	-----	671	983	359	311	62	382	55
30	65	47	154	1,030	-----	733	614	314	230	59	1,490	55
31	60	-----	157	575	-----	476	-----	293	-----	58	919	-----
TOTAL	1,440	1,753	5,206	13,118	14,342	8,293	10,954	17,521	7,967	4,149	6,021	3,106
MEAN	46.5	58.4	168	423	512	268	365	565	266	134	194	104
MAX	68	105	561	1,830	2,430	733	1,090	4,380	811	797	1,490	451
MIN	41	47	50	140	141	169	156	121	142	58	55	55
CF5M	.19	.24	.69	1.74	2.11	1.10	1.50	2.33	1.09	.55	.80	.43
IN.	.22	.27	.80	2.01	2.20	1.27	1.68	2.68	1.22	.64	.92	.48

CAL YR 1974 TOTAL 143,220 MFAN 392 MAX 4,800 MIN 41 CF5M 1.61 IN 21.93  
WTR YR 1975 TOTAL 93,870 MEAN 257 MAX 4,380 MIN 41 CF5M 1.06 IN 14.37

PEAK DISCHARGE (BASE, 3,000 FT<sup>3</sup>/S) May 23 (0300) 5,940 ft<sup>3</sup>/s (11.32 ft).

## 03335000 Wildcat Creek near Lafayette, Ind.

LOCATION.--Lat 40°26'26", long 86°49'46", in SE¼NE¼ sec.14, T.23 N., R.4 W., Tippecanoe County, on downstream side of bridge on County Road 2A East, 2.8 miles (4.5 km) downstream from South Fork Wildcat Creek, 3.7 miles (6.0 km) northeast of courthouse in Lafayette, and 4.8 miles (7.7 km) upstream from mouth.

DRAINAGE AREA.--794 mi<sup>2</sup> (2,056 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: May 1954 to current year.

CHEMICAL ANALYSES: December 1970 to August 1974.

WATER TEMPERATURE: December 1970 to August 1974.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Non-recording gage. Datum of gage is 527.66 ft (160.831 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark). Water-stage recorder June 13, 1957, to August 30, 1974, at present site and datum.

AVERAGE DISCHARGE.--21 years, 759 ft<sup>3</sup>/s (21.49 m<sup>3</sup>/s), 12.98 in/yr (330 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	198	150	1,040	1,840	1,630	1,210	1,660	825	508	201	1,410
2	153	192	155	925	1,460	1,280	990	1,310	820	413	243	1,010
3	145	260	150	740	1,230	1,050	1,250	1,070	770	386	488	760
4	135	192	156	675	1,090	900	1,330	920	685	344	772	552
5	130	200	150	608	1,090	795	985	820	636	302	375	480
6	120	220	162	552	1,320	740	805	750	636	294	333	496
7	128	190	207	520	1,260	720	750	665	596	249	358	389
8	125	170	500	639	1,120	640	670	592	504	216	274	347
9	125	150	650	2,490	840	628	576	536	452	201	231	298
10	125	145	484	2,620	594	632	536	508	414	189	231	288
11	125	150	414	5,090	560	600	484	452	588	225	940	340
12	125	162	378	4,780	540	616	459	462	628	261	600	528
13	135	168	368	2,080	520	620	434	466	620	252	358	368
14	153	180	410	1,400	500	665	403	452	790	243	280	298
15	249	195	488	930	520	690	396	428	1,830	231	588	252
16	222	190	560	700	544	640	406	410	2,870	216	434	255
17	168	200	660	570	730	720	403	375	2,660	210	308	258
18	156	210	560	665	1,170	800	438	372	1,570	1,380	258	246
19	145	204	520	600	1,260	1,000	665	336	910	1,280	240	264
20	140	198	592	560	1,100	1,270	604	323	780	618	213	258
21	140	180	540	512	980	1,170	524	323	965	392	207	270
22	130	168	466	445	990	990	470	4,740	1,310	302	201	228
23	125	162	396	445	5,570	845	484	5,600	1,240	274	237	210
24	145	162	750	428	6,840	850	1,130	3,520	1,130	252	189	195
25	153	162	1,740	600	6,180	805	1,700	2,840	775	234	165	210
26	150	159	1,340	880	5,070	675	1,530	3,140	885	216	382	213
27	150	159	960	770	2,920	616	1,120	2,320	1,900	210	500	204
28	148	152	860	700	2,160	645	1,970	1,580	1,330	207	400	195
29	145	150	720	2,000	-----	1,490	2,520	1,160	925	192	1,790	192
30	140	148	528	3,510	-----	1,800	2,040	1,040	640	180	5,150	180
31	216	-----	524	2,460	-----	1,650	-----	1,010	-----	186	2,480	-----
TOTAL	4,614	5,376	16,538	40,934	49,998	28,172	27,282	40,180	30,684	10,663	19,426	11,194
MEAN	149	179	533	1,320	1,786	909	909	1,296	1,023	344	627	373
MAX	249	260	1,740	5,090	6,840	1,800	2,520	5,600	2,870	1,380	5,150	1,410
MIN	120	145	150	428	500	600	396	323	414	180	165	180
CFSM	.19	.23	.67	1.66	2.25	1.14	1.14	1.63	1.29	.43	.79	.47
IN.	.22	.25	.77	1.92	2.34	1.32	1.28	1.88	1.44	.50	.91	.52

CAL YR 1974 TOTAL 419,916 MEAN 1,150 MAX 11,800 MIN 118 CFSM 1.45 IN 19.67  
WTR YR 1975 TOTAL 285,061 MEAN 781 MAX 6,840 MIN 120 CFSM .98 IN 13.36

PEAK DISCHARGE (BASE, 6,300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0600	11.30	6,940	08-30	1000	10.90	6,440
05-22	1800	12.40	8,370				

## WABASH RIVER BASIN

0335000 Wildcat Creek near Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 8,370 ft<sup>3</sup>/s (237 m<sup>3</sup>/s) May 22, gage height, 12.40 ft (3.780 m); minimum daily, 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s) Oct. 6.

Period of record: Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) June 10, 1958, gage height, 21.52 ft (6.559 m), from rating curve extended above 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s); minimum daily, 46 ft<sup>3</sup>/s (1.30 m<sup>3</sup>/s) Sept. 28, 29, 1954.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 155: 1955, 1957(M). WSP 2109: Drainage area.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV. 12...	1410	--	166	56	25	--	--
DEC. 06...	1200	2.5	146	40	16	--	--
JAN. 17...	1050	.0	569	68	104	--	--
MAR. 12...	1735	5.5	592	44	70	--	--
APR. 23...	1625	14.5	489	34	45	--	--
MAY 23...	1120	23.0	7070	1058	20200	63	73
JUNE 05...	0920	21.0	653	94	166	--	--
JULY 15...	1430	21.0	226	33	20	--	--
AUG. 20...	1600	26.0	220	71	23	--	--
SEP. 23...	1705	16.0	211	15	8.5	--	--

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. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
NOV. 12...	--	--	--	--	--	--	--
DEC. 06...	--	--	--	--	--	--	--
JAN. 17...	--	--	--	--	--	--	--
MAR. 12...	--	--	--	--	--	--	--
APR. 23...	--	--	--	--	--	--	--
MAY 23...	82	89	94	96	97	98	100
JUNE 05...	--	--	--	--	--	--	--
JULY 15...	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--
SEP. 23...	--	--	--	--	--	--	--



## 03335500 Wabash River at Lafayette, Ind.

LOCATION.--Lat 40°25'19", long 86°53'49", in NE¼SW¼ sec.20, T.23 N., R.4 W., Tippecanoe County, on right bank 20 ft (6 m) downstream from Brown Street bridge in Lafayette, 5.1 miles (8.2 km) downstream from Wildcat Creek, and at mile 311.9 (501.8 km).

DRAINAGE AREA.--7,267 mi<sup>2</sup> (18,822 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: 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 National Weather Service.

WATER TEMPERATURE: July 1954 to September 1964, August 1967 to current year.

SEDIMENT DISCHARGE: February 1965 to June 1968, October 1974 to current year (partial-record station).

GAGE.--Water-stage recorder and temperature recorder. Datum of gage is 504.14 ft (153.662 m) above mean sea level. Prior to May 2, 1903, nonrecording gage 0.5 mile (0.8 km) upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years (1923 to current year), 6,410 ft<sup>3</sup>/s (181.5 m<sup>3</sup>/s), 11.98 in/yr (304 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	2,590	2,800	7,690	14,300	15,400	9,520	14,400	8,080	7,910	1,500	9,040
2	1,410	2,660	2,690	8,630	12,100	13,500	9,230	12,100	7,730	6,670	1,450	6,800
3	1,340	2,630	2,430	9,720	11,600	12,300	10,100	10,200	7,780	5,700	1,630	6,130
4	1,310	3,480	2,040	9,000	13,200	13,200	10,400	9,000	8,360	5,010	2,270	5,370
5	1,240	3,530	1,800	7,350	12,200	15,100	9,290	8,020	9,820	4,460	2,410	4,370
6	1,250	3,680	1,920	6,520	12,500	13,700	8,050	7,420	9,620	3,960	2,430	4,160
7	1,250	4,030	1,880	6,230	11,300	13,900	7,320	6,400	9,620	3,710	2,320	4,700
8	1,280	4,500	2,340	5,520	9,080	16,500	6,430	5,680	8,440	3,450	2,110	5,080
9	1,300	4,100	3,110	9,290	8,170	17,000	5,460	5,250	7,200	3,260	1,990	4,440
10	1,310	3,510	4,670	16,200	6,880	16,300	5,150	4,870	6,410	3,010	1,820	3,740
11	1,320	3,510	6,990	24,800	5,490	15,700	4,850	4,570	6,110	2,810	1,780	3,380
12	1,220	3,360	6,340	25,500	5,000	14,900	4,690	4,290	9,930	2,690	2,080	3,920
13	1,450	3,230	5,280	18,300	4,970	11,800	4,250	4,250	11,700	2,590	2,260	7,770
14	1,520	3,360	5,830	16,300	5,090	8,700	4,100	4,130	11,400	2,540	2,010	6,300
15	1,680	3,360	7,700	16,300	5,230	8,800	3,950	5,650	25,300	2,530	2,330	5,440
16	1,570	3,090	9,110	14,600	4,770	8,660	3,950	4,870	34,700	2,360	3,310	4,470
17	2,020	3,510	10,700	11,900	4,920	7,720	3,800	3,870	34,000	2,210	3,490	3,780
18	2,300	4,000	11,000	11,600	10,100	7,270	3,700	3,530	26,600	2,380	3,400	3,620
19	2,270	4,300	9,250	11,800	14,200	7,950	3,800	3,480	18,500	3,510	3,070	3,560
20	2,170	3,900	8,030	9,410	14,400	10,500	4,100	3,100	14,600	3,730	2,490	3,450
21	2,160	3,500	7,240	6,380	14,200	11,900	3,800	3,040	14,500	3,640	2,070	3,340
22	2,180	3,090	5,680	5,260	13,600	11,700	3,800	9,490	15,400	3,340	2,000	3,320
23	2,220	2,950	5,210	5,030	24,800	11,100	3,950	15,100	14,400	2,990	2,050	3,270
24	2,300	2,820	5,250	4,690	34,500	9,820	4,400	15,300	14,300	2,710	2,240	2,940
25	2,340	2,820	8,640	4,760	34,700	8,930	7,230	13,400	15,800	2,510	2,410	2,690
26	2,350	2,800	12,900	5,670	29,400	6,930	9,430	12,600	19,700	2,340	2,410	2,640
27	2,240	2,820	12,700	6,280	23,000	6,240	8,560	10,400	16,200	2,160	2,730	2,640
28	2,260	2,820	10,700	7,190	18,400	5,890	10,200	8,320	12,600	2,040	2,920	2,600
29	2,370	2,820	9,010	11,500	-----	6,780	15,500	7,190	11,000	1,840	4,750	2,520
30	2,770	2,820	7,270	19,700	-----	9,020	15,700	6,600	9,270	1,700	14,500	2,480
31	2,650	-----	7,100	19,600	-----	9,950	-----	8,100	-----	1,580	12,000	-----
TOTAL	56,470	99,590	197,610	342,720	378,100	347,160	204,710	234,620	419,070	101,340	96,230	127,960
MEAN	1,822	3,320	6,375	11,060	13,500	11,200	6,824	7,568	13,970	3,269	3,104	4,265
MAX	2,770	4,500	12,900	25,500	34,700	17,000	15,700	15,300	34,700	7,910	14,500	9,040
MIN	1,220	2,590	1,800	4,690	4,770	5,890	3,700	3,040	6,110	1,580	1,450	2,480
CFSM	.25	.46	.88	1.52	1.86	1.54	.94	1.04	1.92	.45	.43	.59
IN.	.29	.51	1.01	1.75	1.94	1.78	1.05	1.20	2.15	.52	.49	.66

CAL YR 1974 TOTAL 3,218,350 MEAN 8,817 MAX 52,500 MIN 1,160 CFSM 1.21 IN 16.47  
WTR YR 1975 TOTAL 2,605,580 MEAN 7,139 MAX 34,700 MIN 1,220 CFSM .98 IN 13.34



## 03335500 Wabash River at Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 36,000 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s) Feb. 24, gage height, 17.25 ft (5.258 m); minimum daily, 1,220 ft<sup>3</sup>/s (34.6 m<sup>3</sup>/s) Oct. 12.

Period of record: Maximum discharge, 131,000 ft<sup>3</sup>/s (3,710 m<sup>3</sup>/s) May 19, 1943, gage height, 28.47 ft (8.678 m); minimum daily, 399 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s) Sept. 26, 1941.

Flood of Mar. 26, 1913, reached a stage of 32.9 ft (10.03 m), from floodmark determined by National Weather Service, discharge, 190,000 ft<sup>3</sup>/s (5,380 m<sup>3</sup>/s).

WATER TEMPERATURES, Current year: Maximum temperature, 22.0°C July 4, 29-31, Aug. 22-24; minimum, freezing point during winter months.

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

REMARKS.--Records good. Flow partially regulated by upstream reservoirs and power development.

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

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT 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
NOV. 08...	1055	4560	129	1590	--	--	--
MAR. 13...	1335	11900	98	3150	82	88	91
JUNE 05...	1420	10500	178	5050	--	--	--
JULY 16...	1330	2360	52	331	--	--	--
AUG. 20...	1150	2570	56	389	--	--	--
SEP. 24...	1420	2920	39	307	--	--	--

## WATER QUALITY DATA: WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
NOV. 08...	--	--	--	--	--	--
MAR. 13...	93	95	96	96	97	100
JUNE 05...	--	--	--	--	--	--
JULY 16...	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--
SEP. 24...	--	--	--	--	--	--

03335500 Wabash River at Lafayette, Ind.--Continued

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	13.5	12.0	3.5	3.0	3.5	3.0	---	---	0.0	0.0
2	11.0	10.0	13.5	12.0	3.0	3.0	4.0	3.5	---	---	0.0	0.0
3	10.0	9.0	13.0	12.0	3.5	3.0	4.0	3.0	---	---	0.0	0.0
4	10.5	9.0	12.0	11.0	3.0	3.0	3.0	1.5	---	---	0.0	0.0
5	12.0	10.0	11.0	10.5	3.5	3.0	1.5	1.5	---	---	0.0	0.0
6	13.0	11.5	10.5	9.5	3.0	3.0	1.5	1.5	---	---	0.5	0.0
7	12.0	11.5	10.0	9.0	3.5	3.5	2.0	1.5	---	---	1.0	0.5
8	11.5	10.5	9.5	9.0	3.5	3.5	2.0	2.0	---	---	1.5	1.0
9	11.5	10.0	10.0	9.5	3.5	2.0	3.0	2.0	---	---	2.0	1.0
10	12.0	10.5	10.0	9.5	2.0	2.0	3.0	2.0	---	---	1.5	0.5
11	11.5	10.5	10.0	9.5	2.0	2.0	3.5	2.0	---	---	1.0	0.5
12	12.0	11.0	10.0	9.0	3.0	2.0	3.5	3.0	---	---	3.0	1.0
13	12.0	12.0	9.0	8.0	3.0	3.0	3.0	1.5	---	---	3.5	3.0
14	12.0	11.0	8.5	6.5	3.0	3.0	1.5	0.5	---	---	3.5	3.0
15	11.0	10.0	7.0	6.0	3.0	2.0	1.0	0.5	---	---	4.0	3.5
16	10.5	9.5	6.0	5.5	2.0	2.0	0.5	0.5	---	---	4.5	4.0
17	10.5	9.5	6.5	6.0	2.0	2.0	---	---	---	---	5.0	4.0
18	10.0	9.5	7.0	6.5	3.0	2.0	---	---	---	---	5.5	4.5
19	9.5	8.5	7.0	7.0	3.0	2.0	---	---	---	---	5.5	5.0
20	8.5	7.0	8.0	7.0	2.0	2.0	---	---	---	---	5.5	5.0
21	7.0	6.5	8.0	7.0	3.0	2.0	---	---	---	---	6.0	5.5
22	8.0	6.0	7.0	7.0	3.0	3.0	---	---	---	---	5.5	4.5
23	9.5	7.0	7.0	6.0	3.0	3.0	---	---	---	---	5.0	4.5
24	10.5	9.5	7.0	6.5	3.0	3.0	---	---	---	---	4.5	4.5
25	11.5	10.5	8.0	6.5	3.0	2.0	---	---	---	---	4.5	4.5
26	11.0	10.0	6.5	5.5	2.0	2.0	---	---	---	---	4.5	4.0
27	10.0	9.0	5.5	4.5	2.0	2.0	---	---	---	---	4.0	3.5
28	9.5	8.5	4.5	4.0	2.0	1.5	---	---	---	---	4.5	3.5
29	10.0	9.5	4.0	3.5	2.0	1.5	---	---	---	---	4.5	4.5
30	11.5	10.0	4.0	3.5	2.0	2.0	---	---	---	---	5.0	4.5
31	13.0	11.5	---	---	3.0	2.0	---	---	---	---	4.5	4.0
MONTH	13.0	6.0	13.5	3.5	3.5	1.5	---	---	---	---	6.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	4.0	---	---	---	---	21.5	20.5	21.5	21.0	19.5	19.0
2	4.5	4.0	---	---	---	---	21.5	20.5	21.5	21.0	20.5	19.5
3	5.0	4.0	---	---	---	---	21.5	21.0	21.0	21.0	20.5	20.0
4	5.0	4.5	---	---	---	---	22.0	21.0	21.0	20.5	20.5	20.0
5	5.0	5.0	---	---	---	---	21.5	21.0	21.5	21.0	20.5	20.0
6	5.0	4.5	---	---	19.0	18.5	21.0	20.5	21.0	21.0	20.0	19.5
7	5.5	5.0	---	---	19.0	18.5	21.5	21.0	21.0	20.5	20.0	19.0
8	5.5	5.0	---	---	19.0	18.0	21.5	21.0	21.0	20.0	19.5	19.0
9	5.5	5.0	---	---	19.0	18.0	21.0	21.0	21.5	20.5	19.5	19.0
10	5.5	5.5	---	---	19.0	18.5	21.5	21.0	21.5	21.0	19.5	18.5
11	5.5	5.0	---	---	19.0	19.0	21.0	20.5	21.5	21.0	19.5	19.0
12	6.0	5.0	---	---	19.0	18.5	20.5	19.5	21.0	20.5	19.0	18.5
13	7.0	6.0	---	---	19.0	18.5	19.5	19.0	21.0	21.0	18.5	17.0
14	8.0	7.0	---	---	19.0	18.5	20.0	18.5	21.0	21.0	18.0	16.5
15	8.0	7.0	---	---	19.0	18.5	20.5	19.5	21.0	20.5	17.0	16.5
16	7.0	6.5	---	---	18.5	18.0	21.0	20.0	20.5	20.0	17.0	17.0
17	6.5	6.5	---	---	18.0	18.0	21.5	20.5	20.5	20.0	18.0	17.0
18	8.0	6.5	---	---	18.5	18.0	21.0	20.0	21.0	20.0	18.0	18.0
19	8.0	8.0	---	---	19.5	18.5	20.0	20.0	21.0	20.5	18.0	18.0
20	---	---	---	---	20.0	19.0	20.5	20.0	21.5	21.0	18.0	17.0
21	---	---	---	---	20.0	19.5	21.0	20.5	21.5	21.0	17.0	16.5
22	---	---	---	---	20.5	20.0	21.5	21.0	22.0	21.5	16.5	16.5
23	---	---	---	---	20.5	20.0	21.0	21.0	22.0	21.5	16.5	16.0
24	---	---	---	---	20.5	20.0	21.5	21.0	22.0	21.5	16.5	16.0
25	---	---	---	---	20.5	20.0	21.5	21.0	21.5	21.5	16.0	15.5
26	---	---	---	---	20.0	20.0	21.0	20.5	21.5	21.0	15.5	15.5
27	---	---	---	---	20.0	19.5	21.0	20.5	21.5	20.5	16.0	15.5
28	---	---	---	---	20.5	20.0	21.5	21.0	21.0	20.5	16.5	15.5
29	---	---	---	---	21.0	20.0	22.0	21.0	21.0	20.0	16.5	15.5
30	---	---	---	---	21.0	20.5	22.0	21.0	20.0	19.5	16.0	15.5
31	---	---	---	---	---	---	22.0	21.0	19.5	19.0	---	---
MONTH	---	---	---	---	21.0	18.0	22.0	18.5	22.0	19.0	20.5	15.5

03335690 Mud Pine Creek near Oxford, Ind.

LOCATION.--Lat 40°31'24", long 87°20'30", in NE¼SE¼ sec.17, T.24 N., R.8 W., Benton County, on right bank 5 ft (2 m) downstream from county road bridge, 0.3 mile (0.5 km) north of Chase, 2 miles (3 km) east of Boswell, and 5 miles (8 km) west of Oxford.

DRAINAGE AREA.--39.4 mi<sup>2</sup> (102.0 km<sup>2</sup>).

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 718.00 ft (218.846 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,280 ft<sup>3</sup>/s (36.2 m<sup>3</sup>/s) Aug. 29, gage height, 9.82 ft (2.993 m); minimum daily, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Aug. 11.

Period of record: Maximum discharge, 1,650 ft<sup>3</sup>/s (46.7 m<sup>3</sup>/s) June 15, 1974, gage height, 9.72 ft (2.963 m); minimum daily, 0.25 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Sept. 24, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	8.1	15	94	84	74	44	51	19	26	3.1	217
2	1.6	6.6	15	68	75	67	42	43	18	23	2.5	145
3	1.6	91	15	62	64	53	49	42	16	20	6.4	109
4	1.8	97	14	51	60	47	49	38	15	17	2.7	83
5	1.6	126	14	44	62	44	45	33	18	15	2.0	71
6	1.6	72	15	45	67	38	42	30	13	14	5.1	59
7	1.6	52	34	41	54	43	38	27	10	19	2.7	50
8	1.6	40	69	143	46	37	35	25	9.4	13	1.8	42
9	1.6	32	48	188	37	33	32	23	9.0	14	1.5	34
10	1.6	28	40	374	33	32	30	21	8.6	9.3	1.3	30
11	1.5	61	33	548	36	28	27	21	119	8.0	1.2	31
12	1.6	51	31	174	30	32	26	20	97	7.7	1.3	27
13	2.1	40	33	113	28	28	24	17	62	7.9	1.7	21
14	5.0	37	37	81	26	27	23	17	176	6.3	2.3	17
15	3.7	39	63	65	27	23	23	16	575	5.5	150	14
16	2.4	41	71	54	30	23	22	15	202	4.8	39	13
17	1.9	65	53	46	79	23	23	14	129	4.5	16	12
18	1.6	55	43	47	83	23	25	14	95	4.2	8.8	11
19	1.5	48	40	37	60	30	22	13	75	17	6.3	13
20	1.5	40	32	29	52	27	16	14	76	8.8	4.7	13
21	1.3	32	32	29	56	26	15	12	87	5.4	3.7	11
22	1.3	27	27	30	169	26	16	13	54	4.3	3.1	9.5
23	1.5	26	32	31	550	23	20	12	46	3.9	2.8	9.2
24	3.9	22	144	45	329	25	38	11	44	3.8	2.3	7.9
25	2.6	19	140	120	188	19	25	12	195	3.0	2.1	15
26	2.0	18	85	78	147	15	20	62	135	2.6	42	16
27	2.0	19	67	54	111	18	38	32	73	2.2	9.3	13
28	2.0	16	55	50	92	35	127	20	50	2.0	4.9	12
29	13	14	50	258	-----	115	84	17	38	1.7	649	12
30	22	14	54	140	-----	73	60	19	31	1.5	771	11
31	11	-----	83	97	-----	54	-----	26	-----	1.3	416	-----
TOTAL	101.8	1,236.7	1,484	3,236	2,675	1,161	1,080	730	2,495.0	276.7	2,166.6	1,128.6
MEAN	3.28	41.2	47.9	104	95.5	37.5	36.0	23.5	83.2	8.93	69.9	37.6
MAX	22	126	144	548	550	115	127	62	575	26	771	217
MIN	1.3	6.6	14	29	26	15	15	11	8.6	1.3	1.2	7.9
CFSM	.08	1.05	1.22	2.64	2.42	.95	.91	.60	2.11	.23	1.77	.95
IN.	.10	1.17	1.40	3.06	2.53	1.10	1.02	.69	2.36	.26	2.05	1.07

CAL YR 1974 TOTAL 19,866.90 MEAN 54.4 MAX 713 MIN .39 CFSM 1.38 IN 18.76  
 WTR YR 1975 TOTAL 17,771.40 MEAN 48.7 MAX 771 MIN 1.2 CFSM 1.24 IN 16.78

PEAK DISCHARGE (BASE, 250 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-08	2000	6.07	332	06-15	1000	7.88	721
01-11	0300	8.36	853	06-25	2000	6.45	400
01-29	1200	6.14	345	08-15	0600	6.04	323
02-23	0400	8.00	757	08-29	2000	9.82	1,280

03335700 Big Pine Creek near Williamsport, Ind.

LOCATION.--Lat 40°19'03", long 87°17'26", in SW¼SE¼ sec.26, T.22 N., R.8 W., Warren County, on downstream side of county road bridge, 1.6 miles (2.6 km) north of city limits of Williamsport, and 3.7 miles (6.0 km) (revised) upstream from mouth.

DRAINAGE AREA.--323 mi<sup>2</sup> (837 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1955 to current year.

CHEMICAL ANALYSES: July 1970 to September 1975 (discontinued).

WATER TEMPERATURE: November 1970 to September 1975 (discontinued).

GAGE.--Water-stage recorder and multi-parameter monitor. Datum of gage is 511.68 ft (155.960 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to May 19, 1967, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 262 ft<sup>3</sup>/s (7.420 m<sup>3</sup>/s), 11.01 in/yr (280 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	67	92	432	622	571	382	336	268	253	35	1,830
2	30	57	92	387	536	462	340	289	244	215	35	1,230
3	29	78	98	351	471	397	370	272	215	192	58	809
4	28	321	93	312	421	355	366	282	181	174	47	514
5	27	349	88	263	425	332	344	258	167	157	39	389
6	27	268	87	252	483	321	318	238	164	147	53	344
7	27	191	105	247	374	332	293	218	137	145	37	282
8	27	151	238	430	327	329	275	209	121	171	36	234
9	27	128	253	938	304	296	261	196	114	168	31	196
10	27	115	213	1,980	300	289	251	184	106	119	28	172
11	27	169	184	3,560	350	282	238	181	689	104	27	265
12	27	207	178	2,210	280	279	225	181	851	119	36	314
13	29	173	170	1,030	250	275	215	172	778	115	28	248
14	42	162	174	640	230	261	206	161	567	94	56	187
15	51	155	215	495	215	248	206	158	1,150	83	729	158
16	49	157	329	399	231	238	199	153	1,610	75	358	153
17	43	214	283	341	544	234	193	145	1,360	69	182	139
18	39	231	233	324	748	228	199	142	840	68	115	131
19	38	209	217	332	585	275	206	137	475	88	90	134
20	38	186	191	296	442	282	178	134	347	172	68	147
21	37	160	176	275	437	261	164	131	397	125	53	137
22	37	140	165	251	992	258	161	134	370	89	45	126
23	37	129	171	241	3,500	238	172	181	374	73	48	116
24	39	125	472	248	2,990	244	304	161	332	66	138	106
25	46	111	734	622	1,950	238	265	139	1,360	58	63	109
26	46	101	551	645	1,320	212	221	175	1,440	51	104	139
27	43	99	395	442	937	202	238	218	1,490	47	105	158
28	40	97	321	359	723	318	518	164	783	43	69	139
29	47	89	280	1,550	-----	768	522	139	471	39	1,240	126
30	117	83	270	1,220	-----	674	393	137	307	37	4,240	124
31	92	-----	297	872	-----	479	-----	268	-----	34	2,960	-----
TOTAL	1,248	4,722	7,365	21,944	20,987	10,178	8,223	5,893	17,708	3,390	11,153	9,156
MEAN	40.3	157	238	708	750	328	274	190	590	109	360	305
MAX	117	349	734	3,560	3,500	768	522	336	1,610	253	4,240	1,830
MIN	27	57	87	241	215	202	161	131	106	34	27	106
CFSM	.12	.49	.74	2.19	2.32	1.02	.85	.59	1.83	.34	1.11	.94
IN.	.14	.54	.85	2.53	2.42	1.17	.95	.68	2.04	.39	1.28	1.05
CAL YR 1974	TOTAL 146,085 MEAN 400 MAX 4,560 MIN 23 CFSM 1.24 IN 16.82											
WTR YR 1975	TOTAL 121,967 MEAN 334 MAX 4,240 MIN 27 CFSM 1.03 IN 14.05											

PEAK DISCHARGE (BASE, 2,800 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0200	9.75	3,940	06-25	1600	10.42	4,560
02-23	0200	10.09	4,220	08-29	2400	10.80	4,980

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

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 4,980 ft<sup>3</sup>/s (141 m<sup>3</sup>/s) Aug. 29, gage height, 10.80 ft (3.292 m); minimum daily, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) Oct. 5-12, Aug. 11.

Period of record: Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) Feb. 10, 1959, from rating curve extended above 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) on basis of contracted-opening measurement, gage height, 16.00 ft (4.877 m), from floodmark; minimum daily, 6.5 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Oct. 6-8, 1966.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 694 micromhos Oct. 29; minimum, 268 micromhos Jan. 11.

Period of record: Maximum conductance, 812 micromhos Jan. 17, 1972; minimum, 185 micromhos Sept. 8, 1972.

WATER TEMPERATURE, Current year: Maximum temperature, 30.5°C Aug. 23; minimum, freezing point Mar. 2 and 3.

Period of record: Maximum temperature, 30.5°C Aug. 18, 1972, July 9, Aug. 27, 1973, Aug. 23, 1975; minimum, freezing point on many days during most winter periods.

REMARKS.--Discharge records good, Chemical records fair.

REVISIONS.--WSP 2109: Drainage area.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	COLOR (PLAT- INUM- COBALT UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.										
05...	1030	13.0	25	4	600	7.9	5.9	241	294	0
NOV.										
16...	1230	4.0	160	2	630	8.2	3.1	249	303	0
DEC.										
17...	1215	4.0	284	8	435	8.8	.7	226	275	0
JAN.										
21...	1530	2.5	265	10	580	5.0	4430	227	277	0
MAR.										
01...	1500	3.0	559	16	530	7.9	4.4	178	217	0
23...	1545	13.0	222	12	605	8.3	2.0	204	249	0
APR.										
28...	1300	11.0	567	22	540	7.7	7.2	184	224	0
MAY										
19...	1430	24.0	129	2	610	8.1	3.4	218	266	0
JUNE										
30...	1445	25.5	307	17	570	7.8	6.6	214	261	0
JULY										
29...	1530	28.0	37	2	580	8.0	4.3	220	268	0
AUG.										
31...	1645	20.5	2410	60	280	7.6	5.9	121	147	0

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT.										
05...	9.0	.2	6	1.9	13	69	.2	3.5	130	60
NOV.										
16...	10	.2	6	1.0	22	62	.1	8.3	290	10
DEC.										
17...	6.5	.2	4	.8	21	61	.2	7.9	490	40
JAN.										
21...	6.4	.2	4	1.2	17	62	.3	8.5	240	20
MAR.										
01...	5.1	.1	4	1.3	18	57	.2	7.6	2100	200
23...	6.4	.2	4	.9	20	62	.2	3.9	240	30
APR.										
28...	6.6	.2	5	1.4	18	53	.3	5.4	6800	60
MAY										
19...	6.4	.2	4	1.2	16	65	.3	2.6	210	180
JUNE										
30...	4.9	.1	4	1.4	15	53	.3	10	3200	20
JULY										
29...	9.1	.2	6	1.9	14	66	.1	2.0	320	10
AUG.										
31...	2.5	.1	3	2.6	6.1	21	.1	9.9	2700	220

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS- PENDE D MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT.									
05...	10	30	20	358	345	24.2	.49	1.7	.00
NOV.									
16...	60	80	20	--	394	170	.54	25	.13
DEC.									
17...	30	50	20	412	373	316	.56	31	.10
JAN.									
21...	0	30	30	394	379	282	.54	34	.07
MAR.									
01...	40	60	20	331	296	500	.45	9.7	.07
23...	0	20	360	356	352	213	.48	30	.10
APR.									
28...	290	300	10	358	320	548	.49	31	.20
MAY									
19...	0	20	20	395	361	138	.54	24	.26
JUNE									
30...	100	110	10	383	344	317	.52	31	.13
JULY									
29...	20	30	10	386	337	38.6	.53	4.0	.07
AUG.									
31...	100	120	20	266	179	1730	.36	10	.07

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT.										
05...	.00	.38	.38	.00	.02	.00	300	57	75	27
NOV.										
16...	.04	5.7	5.7	.12	.06	.04	340	93	84	32
DEC.										
17...	.03	7.1	7.1	.06	.05	.02	320	92	81	28
JAN.										
21...	.02	7.7	7.7	.09	.01	.03	330	100	85	28
MAR.										
01...	.02	2.2	2.2	.06	.12	.02	260	84	67	23
23...	.03	6.8	6.8	.03	.01	.01	310	110	75	30
APR.										
28...	.06	7.0	7.1	.06	.28	.02	270	89	68	25
MAY										
19...	.08	5.3	5.4	.00	.02	.00	340	120	81	33
JUNE										
30...	.04	7.0	7.0	.15	.12	.05	290	75	76	24
JULY										
29...	.02	.90	.92	.03	.01	.01	330	110	73	35
AUG.										
31...	.02	2.3	2.3	.34	.17	.11	160	35	41	13



## WABASH RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975												
DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	620	597	530	518	488	477	530	514	532	446
2	---	---	651	612	521	511	487	476	539	530	538	438
3	---	---	627	587	518	506	493	489	542	539	469	452
4	---	---	602	513	513	501	501	495	547	544	486	473
5	---	620	587	558	512	502	511	503	553	541	496	488
6	637	622	593	566	516	501	515	511	546	534	504	500
7	642	622	615	594	507	500	517	513	547	535	511	498
8	647	629	628	608	504	481	520	443	554	546	513	504
9	653	631	636	617	480	473	452	431	563	541	534	521
10	655	634	641	621	485	475	466	284	583	563	536	534
11	660	636	635	602	487	480	423	268	565	546	546	542
12	669	638	609	601	484	475	489	338	546	534	556	550
13	671	612	620	609	481	470	483	358	544	534	561	556
14	632	591	620	609	474	463	506	459	553	541	572	565
15	627	614	632	614	462	443	529	510	551	547	580	571
16	634	624	637	630	438	430	540	533	551	547	587	577
17	639	623	630	611	440	433	553	545	547	407	590	581
18	644	628	612	604	450	444	559	556	451	414	596	581
19	656	630	611	603	452	446	566	556	467	452	587	575
20	659	640	606	594	459	450	570	557	---	---	598	581
21	667	643	601	595	463	454	583	572	---	---	608	587
22	675	647	600	592	469	465	585	583	---	---	663	596
23	668	647	593	589	478	465	585	583	---	---	---	---
24	665	639	588	582	467	406	587	576	---	---	---	---
25	667	649	583	573	431	415	570	480	---	---	---	---
26	664	649	574	566	457	437	505	487	---	---	---	---
27	684	659	565	559	475	463	547	507	---	---	---	---
28	683	669	560	554	484	480	565	518	---	---	---	---
29	694	632	557	547	492	488	407	288	---	---	---	---
30	642	613	548	537	494	490	454	407	---	---	---	---
31	618	590	---	---	494	486	512	456	---	---	---	---
MONTH	694	590	651	513	530	406	587	268	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	586	567	---	---	---	---	406	342
2	---	---	---	---	590	571	---	---	---	---	449	409
3	---	---	---	---	586	554	---	---	---	---	482	449
4	---	---	---	---	608	583	---	---	---	---	507	482
5	---	---	---	---	610	604	---	---	---	---	520	505
6	---	---	---	---	612	597	---	---	---	---	532	432
7	---	---	---	---	617	601	---	---	---	---	550	526
8	---	---	---	---	617	605	---	---	---	---	560	547
9	---	---	---	---	619	611	---	---	---	---	568	563
10	---	---	---	---	621	611	---	---	---	---	576	565
11	---	---	---	---	618	346	---	---	---	---	578	408
12	---	---	---	---	483	427	---	---	---	---	539	405
13	---	---	---	---	524	485	---	---	---	---	555	526
14	---	---	---	---	542	524	---	---	---	---	578	555
15	---	---	---	---	538	380	---	---	---	---	591	578
16	---	---	---	---	377	344	---	---	---	---	594	589
17	---	---	---	---	458	368	---	---	---	---	604	594
18	---	---	---	---	516	461	---	---	---	---	---	---
19	---	---	607	599	552	514	---	---	---	---	---	---
20	---	---	607	594	568	543	---	---	---	---	---	---
21	---	---	608	598	566	527	---	---	---	---	---	---
22	---	---	606	596	539	487	---	---	---	---	---	---
23	---	---	619	593	561	464	---	---	---	---	---	---
24	---	---	591	549	537	462	---	---	---	---	---	---
25	---	---	601	588	538	296	---	---	---	---	---	---
26	---	---	601	578	372	313	---	---	---	---	---	---
27	---	---	592	577	433	306	---	---	---	---	---	---
28	577	562	592	566	530	438	---	---	---	---	---	---
29	594	577	620	591	551	459	---	---	---	---	---	---
30	598	592	627	608	571	553	---	---	---	---	---	---
31	---	---	612	553	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	621	296	---	---	---	---	---	---

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

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER      NOVEMBER      DECEMBER      JANUARY      FEBRUARY      MARCH

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	18.5	16.5	2.5	2.0	5.0	4.0	5.0	4.0	2.5	2.0
2	---	---	17.5	15.0	4.0	2.5	3.5	2.5	4.5	3.5	1.5	0.0
3	---	---	16.0	15.0	3.5	2.5	3.5	3.0	4.5	3.0	2.5	0.0
4	---	---	15.0	12.0	3.5	3.0	3.5	2.5	4.0	3.5	3.5	0.5
5	15.5	13.5	12.0	10.0	3.0	2.0	3.0	2.0	4.5	4.0	5.0	1.5
6	16.5	13.5	10.5	9.0	3.5	2.0	3.5	2.5	4.5	2.5	6.0	4.5
7	14.5	12.0	9.5	8.0	5.0	3.5	4.5	3.0	2.0	1.5	6.0	5.0
8	13.5	10.0	9.5	8.0	4.5	3.5	7.5	5.0	1.5	1.5	5.0	4.0
9	15.0	12.0	9.5	7.5	3.5	2.0	7.0	5.5	1.5	1.5	4.5	1.5
10	14.5	11.5	10.0	9.0	2.0	1.5	10.5	5.5	1.5	1.5	4.5	2.5
11	14.5	11.5	10.5	9.5	3.0	2.0	10.0	5.0	1.5	1.5	5.0	3.5
12	16.5	14.0	9.5	8.0	4.0	3.0	4.5	1.5	2.0	1.5	5.5	4.5
13	16.0	14.5	8.0	4.5	5.0	4.0	1.5	1.5	2.0	1.5	4.5	2.0
14	16.0	14.0	5.0	3.5	7.0	5.0	1.5	1.5	2.0	1.5	5.0	2.0
15	14.0	12.0	4.5	3.0	6.5	5.5	2.5	1.5	2.5	2.0	6.0	2.0
16	13.0	10.0	5.0	3.0	5.5	4.5	2.5	2.0	3.5	2.5	7.5	4.5
17	14.0	10.5	7.5	5.0	4.5	3.0	2.0	1.5	3.5	3.0	7.5	5.5
18	12.5	10.5	8.0	6.5	3.0	2.0	3.5	2.0	3.5	3.5	9.0	7.0
19	11.0	9.5	10.0	8.0	2.5	2.0	3.5	3.0	3.5	3.0	10.5	8.5
20	10.5	8.5	10.0	8.0	2.0	1.5	3.0	1.5	---	---	12.0	7.5
21	9.5	7.0	8.0	5.5	2.5	2.5	3.0	1.5	---	---	13.0	9.5
22	10.5	6.5	6.5	4.5	3.0	2.0	3.5	2.5	---	---	13.0	11.5
23	13.0	8.5	9.0	5.0	3.5	2.5	3.5	2.5	---	---	13.5	9.0
24	15.0	12.5	9.5	8.0	4.5	3.5	4.5	2.5	---	---	13.5	10.0
25	16.5	14.0	8.0	5.0	4.5	2.5	4.5	3.5	---	---	9.5	5.5
26	14.5	11.0	5.0	3.5	2.5	2.0	3.5	2.5	---	---	6.0	4.0
27	13.0	9.5	4.5	3.0	3.5	2.5	3.0	2.0	---	---	5.0	3.0
28	15.0	11.0	3.5	2.5	4.0	3.5	4.5	3.0	---	---	4.5	3.0
29	15.0	13.5	4.0	2.5	5.0	4.0	6.0	3.0	---	---	5.0	4.0
30	18.0	14.5	4.0	2.5	5.5	4.5	4.5	3.0	---	---	5.0	3.5
31	18.5	15.5	---	---	5.0	4.5	4.5	3.5	---	---	8.0	3.5
MONTH	18.5	6.5	18.5	2.5	7.0	1.5	10.5	1.5	---	---	13.5	0.0

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	6.0	---	---	20.0	16.5	---	---	27.0	25.0	22.5	20.5
2	9.5	6.5	---	---	18.5	17.0	---	---	26.0	24.5	24.0	22.5
3	8.0	5.5	---	---	20.0	16.5	---	---	26.5	24.5	24.5	23.0
4	7.5	4.0	---	---	22.0	18.5	---	---	27.0	23.5	24.5	22.5
5	9.0	4.5	---	---	24.5	20.5	---	---	27.5	24.0	23.0	21.0
6	9.5	5.5	---	---	25.0	20.5	---	---	27.0	23.5	22.0	18.5
7	9.5	6.0	---	---	23.0	19.5	---	---	25.0	21.0	21.5	18.0
8	---	---	---	---	22.0	18.0	---	---	26.0	20.5	21.5	19.5
9	---	---	---	---	22.0	18.0	---	---	27.0	22.0	21.5	18.5
10	---	---	---	---	23.0	19.0	---	---	27.5	24.0	22.5	18.0
11	---	---	---	---	21.5	20.0	---	---	28.0	24.5	21.5	20.0
12	---	---	---	---	21.0	19.0	---	---	28.0	24.5	20.0	18.0
13	---	---	---	---	21.0	19.0	---	---	26.5	24.5	18.0	15.0
14	---	---	---	---	22.0	19.0	---	---	25.5	24.0	17.5	14.0
15	---	---	---	---	20.0	19.0	---	---	24.0	23.0	17.0	15.0
16	---	---	---	---	20.0	18.0	---	---	24.5	22.5	17.5	16.5
17	---	---	---	---	20.5	19.5	---	---	25.0	22.0	17.0	17.0
18	---	---	---	---	23.0	19.5	---	---	26.0	22.0	---	---
19	---	---	24.5	22.5	26.0	21.5	---	---	27.0	23.5	---	---
20	---	---	25.0	21.5	26.5	22.5	---	---	28.0	24.0	---	---
21	---	---	26.5	23.0	25.5	22.5	---	---	29.5	24.5	---	---
22	---	---	26.0	23.0	26.5	22.5	---	---	29.5	25.5	---	---
23	---	---	26.0	22.0	25.0	23.5	---	---	30.5	26.0	---	---
24	---	---	26.0	22.5	25.0	22.0	---	---	29.0	26.0	---	---
25	---	---	24.5	22.5	24.0	21.0	---	---	28.0	26.0	---	---
26	---	---	24.5	21.0	22.5	20.5	---	---	26.5	24.5	---	---
27	---	---	24.5	20.5	24.5	22.5	---	---	26.5	23.5	---	---
28	13.5	11.5	23.0	19.5	25.0	23.0	---	---	27.0	24.0	---	---
29	16.5	11.5	20.5	19.5	26.0	23.0	28.0	26.5	26.0	23.0	---	---
30	15.5	14.0	22.0	19.5	25.5	23.0	29.5	24.5	23.0	22.0	---	---
31	---	---	20.5	18.0	---	---	29.5	25.0	23.0	21.0	---	---
MONTH	---	---	---	---	26.5	16.5	---	---	30.5	20.5	---	---

03336000 Wabash River at Covington, Ind.

LOCATION.--Lat 40°08'24", long 87°24'20", in NE¼NW¼ 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 (4.7 km) downstream from Oppossum Run, 3.6 miles (5.8 km) upstream from Spring Creek, and at mile 271.1 (436.2 km).

DRAINAGE AREA.--8,218 mi<sup>2</sup> (21,285 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mile (0.6 km) downstream January 1927 to December 1930, and at present site since December 1930, are contained in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 473.97 ft (144.466 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 7,295 ft<sup>3</sup>/s (206.6 m<sup>3</sup>/s), 12.05 in/yr (306 mm/yr).

EXTREMES.--Current year: Maximum discharge, 34,200 ft<sup>3</sup>/s (969 m<sup>3</sup>/s) Feb. 26, gage height, 21.24 ft (6.474 m); minimum daily, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s) Oct. 13.

Period of record: Maximum discharge, 147,000 ft<sup>3</sup>/s (4,160 m<sup>3</sup>/s) May 20, 1943, gage height, 32.44 ft (9.888 m); minimum daily, 487 ft<sup>3</sup>/s (13.8 m<sup>3</sup>/s) Sept. 29, 1941.

Flood in March 1913 reached a stage of 35.1 ft (10.70 m), from floodmark determined by National Weather Service, discharge, 200,000 ft<sup>3</sup>/s (5,660 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partially regulated by upstream reservoirs and power development.

REVISIONS.--WSP 1275: Drainage area. WRD Ind. 1973: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,960	2,730	3,100	7,800	19,800	21,900	11,400	16,000	9,980	10,300	2,300	14,600
2	1,890	2,700	3,230	8,620	15,300	17,400	10,900	14,200	9,560	9,060	2,530	11,100
3	1,890	2,720	3,050	9,510	12,800	14,800	11,100	12,300	9,370	7,480	2,740	9,520
4	1,860	3,130	2,600	9,920	13,100	12,800	11,800	10,600	9,470	6,500	3,280	7,630
5	1,810	3,870	2,460	8,540	13,300	14,900	11,400	10,000	10,100	5,870	4,100	6,020
6	1,690	3,950	2,210	7,420	13,400	15,200	10,200	9,330	10,500	5,400	4,580	5,490
7	1,690	3,970	2,310	6,820	12,900	14,000	8,980	8,360	9,960	5,110	3,720	6,540
8	1,700	4,330	2,380	6,510	11,000	15,800	7,950	7,300	9,780	4,860	3,180	7,030
9	1,720	4,400	3,070	7,900	9,230	16,900	7,110	6,590	8,620	4,730	2,970	6,150
10	1,720	4,000	3,710	14,200	7,900	17,200	6,530	6,140	7,740	4,350	2,810	5,070
11	1,710	3,960	5,460	23,600	6,410	16,600	6,170	5,640	7,900	4,000	2,720	4,610
12	1,690	3,890	6,860	27,100	5,890	15,900	5,740	5,390	10,300	3,870	3,480	6,240
13	1,630	3,640	6,150	27,500	5,560	15,300	5,370	5,140	11,800	3,900	3,540	8,080
14	1,850	3,640	5,530	22,600	5,690	11,400	5,150	5,040	12,900	3,620	3,300	9,440
15	1,960	4,040	6,650	17,300	5,850	9,400	4,890	5,300	14,800	3,670	4,290	7,190
16	2,010	3,860	8,160	13,900	5,600	9,490	4,760	6,420	23,500	3,530	5,280	5,690
17	1,990	4,060	9,370	12,800	5,830	9,010	4,690	5,190	28,100	3,250	5,470	4,930
18	2,280	4,490	10,700	12,000	8,140	8,340	4,490	4,410	30,900	3,310	4,880	4,850
19	2,490	4,650	10,200	12,200	12,900	8,490	4,680	4,220	28,800	4,540	4,170	4,990
20	2,420	4,580	8,610	11,700	14,600	9,850	4,950	4,030	22,400	5,450	3,370	4,720
21	2,400	4,200	7,880	8,840	14,600	12,200	4,780	3,700	16,900	5,110	3,060	4,610
22	2,400	3,960	6,690	6,410	14,600	12,700	4,600	6,040	16,200	4,530	3,060	4,500
23	2,410	3,460	5,870	5,760	22,300	12,500	4,820	12,800	15,300	4,000	3,100	4,580
24	2,450	3,390	6,110	5,600	27,500	11,600	5,470	15,100	15,200	3,650	3,440	4,290
25	2,450	3,250	7,140	5,990	32,100	10,500	7,230	14,500	15,500	3,330	3,450	3,870
26	2,500	3,210	11,200	7,680	34,100	9,010	9,370	14,100	19,400	3,260	4,170	3,840
27	2,480	3,200	13,400	7,920	31,700	7,470	10,100	13,000	20,500	3,030	3,780	3,900
28	2,400	3,250	11,700	7,580	27,400	7,120	10,500	10,700	17,100	2,940	4,360	3,810
29	2,430	3,270	10,100	12,200	-----	8,360	13,200	9,450	13,700	2,770	4,190	3,660
30	2,610	3,180	8,770	17,300	-----	10,200	16,200	8,190	11,400	2,540	13,700	3,600
31	2,920	-----	7,550	20,800	-----	11,300	-----	8,620	-----	2,440	17,800	-----
TOTAL	65,410	110,980	202,220	374,020	409,500	387,640	234,530	267,800	447,680	140,400	136,820	180,550
MEAN	2,110	3,699	6,523	12,070	14,630	12,500	7,818	8,639	14,920	4,529	4,414	6,018
MAX	2,920	4,650	13,400	27,500	34,100	21,900	16,200	16,000	30,900	10,300	17,800	14,600
MIN	1,630	2,700	2,210	5,600	5,560	7,120	4,490	3,700	7,740	2,440	2,300	3,600
CFSM	.26	.45	.79	1.47	1.78	1.52	.95	1.05	1.82	.55	.54	.73
IN.	.30	.50	.92	1.69	1.85	1.75	1.06	1.21	2.03	.64	.62	.82
CAL YR 1974	TOTAL 3,586,250	MEAN 9,825	MAX 54,900	MIN 1,630	CFSM 1.20	IN 16.23						
WTR YR 1975	TOTAL 2,957,550	MEAN 8,103	MAX 34,100	MIN 1,630	CFSM .99	IN 13.39						

03339000 Vermilion River near Danville, Ill.

LOCATION.--Lat 40°05'53", long 87°35'37", in SE¼NW¼ sec.22, T.19 N., R.11 W., Vermilion County, on left bank 1.5 mile (2.4 km) upstream from Stony Creek and 2.5 miles (4.0 km) southeast of Danville.

DRAINAGE AREA.--1,290 mi<sup>2</sup> (3,341 km<sup>2</sup>) (revised).

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 (153.415 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mile (0.5 km) upstream at same datum.

AVERAGE DISCHARGE.--54 years, 931 ft<sup>3</sup>/s (26.37 m<sup>3</sup>/s), 9.80 in/yr (249 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) Feb. 23, gage height, 17.39 ft (5.300 m); minimum, 91 ft<sup>3</sup>/s (2.58 m<sup>3</sup>/s) Oct. 8, 9, 24.

Period of record: Maximum discharge, 48,700 ft<sup>3</sup>/s (1,380 m<sup>3</sup>/s) Mar. 13, 1939, gage height, 28.59 ft (8.714 m); minimum daily, 2 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) Oct. 9-14, 1920, Aug. 10, 1930.

REMARKS.--Records good except those for winter periods and those for period of no gage-height, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 miles (7.2 km) above station, usable capacity, 7,440 acre-feet (9.17 hm<sup>3</sup>), and by Danville sewage-disposal plant.

REVISIONS (WATER YEARS).--WSP 853: 1936(M). WSP 973: 1939. WSP 1305: 1915-16, 1920, 1929. WSP 1335: 1934(m). WSP 1909: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	129	424	1650	2920	2700	1500	1240	1590	550	136	513
2	121	119	410	1660	2420	2400	1400	995	1040	472	219	457
3	114	131	392	1440	2390	1900	1800	1020	767	401	361	383
4	112	365	405	1330	2170	1700	1700	1030	729	365	272	340
5	109	845	365	1040	2130	1500	1400	955	662	352	378	886
6	109	995	361	1150	2270	1400	1330	886	622	410	1000	1030
7	102	916	415	1080	2000	1300	1220	723	599	711	1220	627
8	98	933	845	1360	1600	1200	1150	698	507	1360	539	482
9	100	593	1140	4230	1000	1100	1080	704	396	961	352	390
10	102	448	916	5270	800	1100	1020	656	361	729	299	300
11	102	534	859	10800	800	1000	812	616	616	507	226	260
12	102	1250	1000	11200	850	1000	773	616	812	405	197	600
13	114	1090	812	7130	900	950	742	599	950	374	194	1100
14	147	1060	748	4510	1000	950	806	560	1760	335	311	590
15	152	967	780	2960	1040	900	845	539	3340	307	2820	530
16	172	939	1160	2110	1010	850	645	518	2470	272	3650	390
17	147	1160	1360	1660	1330	800	645	492	1800	226	1630	480
18	131	1410	1120	1540	2070	800	742	472	1170	210	859	340
19	126	1220	872	1560	2270	950	1030	462	852	254	588	300
20	124	1060	760	1450	1780	1100	692	477	651	773	433	390
21	112	928	698	1290	1510	900	513	507	571	748	319	540
22	107	786	662	1120	3030	800	502	497	550	433	233	480
23	100	711	656	961	12200	800	566	448	528	261	240	390
24	102	656	1250	1080	11000	900	961	433	497	284	216	350
25	107	593	3010	1970	7000	800	1870	502	1130	323	191	340
26	109	523	2360	3870	4500	700	2160	729	2690	219	577	327
27	107	492	1590	2480	3600	800	1630	2030	1890	181	433	307
28	105	482	1330	1710	3100	2500	1440	1300	1120	158	1080	290
29	119	452	1210	5640	---	3500	1550	845	832	158	711	261
30	119	415	995	6370	---	2500	1570	717	656	167	610	258
31	114	---	1190	4440	---	1800	---	1310	---	147	544	---
TOTAL	3624	22202	30095	96061	78690	41600	34094	23576	32158	13053	20838	13931
MEAN	117	740	971	3099	2810	1342	1136	761	1072	421	672	464
MAX	172	1410	3010	11200	12200	3500	2160	2030	3340	1360	3650	1100
MIN	98	119	361	961	800	700	502	433	361	147	136	258
CFSM	.09	.57	.75	2.40	2.18	1.04	.88	.59	.83	.33	.52	.36
IN.	.10	.64	.87	2.77	2.27	1.20	.98	.68	.93	.38	.60	.40

CAL YR 1974 TOTAL 677513 MEAN 1856 MAX 18500 MIN 98 CFSM 1.44 IN 19.54  
WTR YR 1975 TOTAL 409922 MEAN 1123 MAX 12200 MIN 98 CFSM .87 IN 11.82

PEAK DISCHARGE (BASE, 6,000 FT<sup>3</sup>/S)NOTE.--No gage-height record  
Feb. 24 to Apr. 3.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	0445	16.61	12,100	02-23	1345	17.39	13,000
01-29	2115	12.02	7,300				

03339108 East Fork Coal Creek near Hillsboro, Ind.

LOCATION.--Lat 40°06'06", long 87°07'54", in NW¼SW¼ 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 (2.4 km) east of Hillsboro, 3.7 miles (6.0 km) northwest of Waynetown, and 9.6 miles (15.4 km) upstream from mouth.

DRAINAGE AREA.--33.4 mi<sup>2</sup> (86.5 km<sup>2</sup>).

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.76 ft (205.362 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 39.7 ft<sup>3</sup>/s (1.124 m<sup>3</sup>/s), 16.14 in/yr (410 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) May 22, gage height, 7.20 ft (2.195 m); minimum daily, 6.9 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) Aug. 1.

Period of record: Maximum discharge, 2,180 ft<sup>3</sup>/s (61.7 m<sup>3</sup>/s) June 13, 1972, gage height, 9.69 ft (2.954 m); minimum daily, 3.7 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Sept. 19, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	14	63	64	42	58	79	42	17	6.9	64
2	9.5	12	14	40	55	36	72	60	36	15	36	41
3	9.1	12	16	39	47	30	116	66	35	14	137	28
4	8.8	14	15	36	44	28	71	84	29	13	24	22
5	8.5	21	14	29	63	28	58	59	30	13	75	21
6	8.3	17	15	28	64	27	52	49	25	13	152	18
7	8.1	15	26	27	43	30	47	41	22	13	32	16
8	8.0	14	45	101	33	26	43	38	20	12	18	14
9	8.0	13	29	115	29	24	36	35	19	11	14	14
10	8.0	13	22	424	26	26	37	33	18	10	13	13
11	8.0	17	21	284	37	24	34	32	43	9.9	40	23
12	9.0	17	34	98	26	37	33	33	26	11	30	50
13	12	16	32	60	19	32	31	29	20	11	15	23
14	21	24	27	40	20	29	30	28	31	9.5	27	18
15	16	21	33	32	22	25	30	28	24	9.0	29	16
16	13	19	38	29	31	27	30	25	19	8.6	14	18
17	13	19	28	24	77	26	29	24	18	8.4	12	17
18	12	17	23	27	76	26	41	24	16	33	10	16
19	11	16	23	29	54	72	97	24	15	37	9.5	33
20	10	15	20	28	42	50	48	23	15	19	8.9	29
21	10	14	20	27	40	41	38	22	15	13	8.4	20
22	10	13	20	21	123	36	35	427	14	11	8.0	17
23	13	13	31	21	391	30	59	77	95	12	7.8	15
24	16	14	80	25	186	36	190	52	78	11	7.2	14
25	14	13	66	105	102	28	211	84	59	9.4	7.1	16
26	13	13	40	60	65	24	113	157	100	8.7	161	15
27	12	13	31	39	58	25	128	118	46	8.3	36	14
28	13	12	26	43	50	55	128	60	29	8.0	19	13
29	22	12	24	213	-----	200	83	47	22	7.5	120	12
30	27	12	25	88	-----	95	99	41	19	7.2	253	12
31	15	-----	47	67	-----	68	-----	48	-----	7.0	133	-----
TOTAL	376.3	454	899	2,262	1,887	1,283	2,077	1,947	980	390.5	1,463.8	642
MEAN	12.1	15.1	29.0	73.0	67.4	41.4	69.2	62.8	32.7	12.6	47.2	21.4
MAX	27	24	80	424	391	200	211	427	100	37	253	64
MIN	8.0	12	14	21	19	24	29	22	14	7.0	6.9	12
CFSM	.36	.45	.87	2.19	2.02	1.24	2.07	1.88	.98	.38	1.41	.64
IN.	.42	.51	1.00	2.52	2.10	1.43	2.31	2.17	1.09	.43	1.63	.72

CAL YR 1974 TOTAL 18,362.9 MEAN 50.3 MAX 643 MIN 8.0 CFSM 1.51 IN 20.45  
WTR YR 1975 TOTAL 14,661.6 MEAN 40.2 MAX 427 MIN 6.9 CFSM 1.20 IN 16.33

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1815	6.69	1,040	05-22	0715	7.20	1,200
02-23	0130	5.96	817	08-05	2330	5.88	793



## 03339500 Sugar Creek at Crawfordsville, Ind.

LOCATION.--Lat 40°02'56", long 86°53'58", in SW¼NW¼ sec.32, T.19 N., R.4 W., Montgomery County, on left bank 327 ft (100 m) upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 0.5 mile (0.8 km) upstream from bridge on State Highway 43, 1.0 mile (1.6 km) downstream from Walnut Fork Sugar Creek, and at mile 40.4 (65.0 km).

DRAINAGE AREA.--509 mi<sup>2</sup> (1,318 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: June 1938 to current year.

SEDIMENT DISCHARGE: February 1972 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 657.77 ft (200.488 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 486 ft<sup>3</sup>/s (13.76 m<sup>3</sup>/s), 12.97 in/yr (329 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,810 ft<sup>3</sup>/s (193 m<sup>3</sup>/s) Feb. 23, gage height, 6.58 ft (2.006 m); minimum daily, 41 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s) Oct. 6-13.

Period of record: Maximum discharge, 26,300 ft<sup>3</sup>/s (745 m<sup>3</sup>/s) June 28, 1957, gage height, 14.48 ft (4.414 m); minimum daily, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Sept. 24-27, 1941.

Flood in March 1913, reached a stage of 17.3 ft (5.27 m) from information by local resident, discharge, about 36,000 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	80	95	1,640	1,270	859	1,070	1,030	385	121	84	711
2	48	72	98	1,070	1,060	640	816	797	451	109	85	399
3	46	70	101	777	906	503	861	676	434	100	1,170	271
4	44	78	101	681	792	431	659	595	348	93	1,190	209
5	43	127	95	543	958	403	521	485	318	88	431	186
6	41	166	95	476	1,560	371	455	424	296	88	319	177
7	41	135	133	450	1,010	376	410	370	253	338	229	144
8	41	114	871	1,100	690	378	380	332	227	184	164	123
9	41	99	966	2,770	497	328	353	310	210	124	129	110
10	41	92	572	2,820	410	340	332	288	198	97	116	99
11	41	97	417	4,620	520	326	308	279	213	84	470	122
12	41	106	816	2,500	360	582	287	279	225	80	302	473
13	41	109	1,160	1,290	340	850	272	265	196	80	185	354
14	51	182	888	807	320	592	262	244	201	77	208	236
15	59	253	809	618	300	466	258	237	238	76	356	181
16	65	196	1,280	466	338	498	248	227	293	74	242	166
17	54	167	926	354	660	662	253	214	221	72	171	154
18	48	148	629	388	1,320	894	274	207	196	1,850	135	144
19	46	137	514	433	1,050	1,990	750	198	171	3,230	111	135
20	46	126	412	351	754	1,630	681	194	153	1,370	96	132
21	45	115	369	302	669	1,010	422	189	143	634	87	128
22	43	105	342	299	925	807	347	3,060	136	358	84	117
23	43	98	375	269	5,960	612	403	3,290	151	245	82	112
24	49	105	1,250	280	6,050	607	2,240	1,390	193	192	79	108
25	51	108	1,720	895	3,270	528	4,190	935	159	151	78	100
26	53	101	1,060	1,230	2,030	401	4,370	1,310	163	123	1,020	101
27	49	95	683	677	1,460	363	2,230	1,650	256	107	804	99
28	49	95	515	509	1,120	773	2,620	945	205	101	354	95
29	57	89	421	2,160	-----	4,370	1,980	577	166	115	364	92
30	84	85	407	2,310	-----	2,980	1,310	452	139	91	1,980	90
31	94	-----	580	1,410	-----	1,560	-----	388	-----	84	1,330	-----
TOTAL	1,549	3,550	18,700	34,495	36,599	27,130	29,562	21,837	6,938	10,536	12,455	5,568
MEAN	50.0	118	603	1,113	1,307	875	985	704	231	340	402	186
MAX	94	253	1,720	4,620	6,050	4,370	4,370	3,290	451	3,230	1,980	711
MIN	41	70	95	269	300	326	248	189	136	72	78	90
CFSM	.10	.23	1.18	2.19	2.57	1.72	1.94	1.38	.45	.67	.79	.37
IN.	.11	.26	1.37	2.52	2.67	1.98	2.16	1.60	.51	.77	.91	.41

CAL YR 1974 TOTAL 309,423 MEAN 848 MAX 9,310 MIN 41 CFSM 1.67 IN 22.61  
WTR YR 1975 TOTAL 208,919 MEAN 572 MAX 6,050 MIN 41 CFSM 1.12 IN 15.27

PEAK DISCHARGE (BASE, 4,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0600	5.25	5,120	04-25	1700	5.68	5,650
02-23	2300	6.58	6,810	05-23	0900	4.54	4,120
03-29	1200	5.13	4,950	07-18	2300	5.27	5,150



03339500 Sugar Creek at Crawfordsville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV.					
07...	1200	8.0	139	96	36
DEC.					
05...	1035	.5	89	27	6.5
JAN.					
16...	0940	1.0	485	55	72
FEB.					
26...	1210	1.0	2050	190	1050
APR.					
09...	1235	7.0	374	8	8.1
MAY					
21...	1130	24.0	184	30	15
JULY					
03...	0910	25.0	96	36	9.4
AUG.					
06...	1715	25.0	340	40	37
SEP.					
10...	1010	19.5	104	40	11

## 03340500 Wabash River at Montezuma, Ind.

LOCATION.--Lat 39°47'33", long 87°22'26", in SE¼NE¼ 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 (3.2 km) upstream from Raccoon Creek, 4.9 miles (7.9 km) downstream from Sugar Creek, and at mile 240.0 (386.0 km).

DRAINAGE AREA.--11,118 mi<sup>2</sup> (28,796 km<sup>2</sup>).

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage heights only) in reports of State of Indiana, Department of Natural Resources.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft (139.522 m) 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.--48 years, 9,610 ft<sup>3</sup>/s (272.2 m<sup>3</sup>/s), 11.74 in/yr (298 mm/yr).

EXTREMES.--Current year: Maximum discharge, 46,400 ft<sup>3</sup>/s (1,314 m<sup>3</sup>/s) Feb. 26, gage height, 21.87 ft (6.666 m); minimum daily, 1,970 ft<sup>3</sup>/s (55.8 m<sup>3</sup>/s) Oct. 13.

Period of record: Maximum discharge, 184,000 ft<sup>3</sup>/s (5,210 m<sup>3</sup>/s) May 20, 1943, gage height, 32.83 ft (10.007 m); minimum daily, 571 ft<sup>3</sup>/s (16.2 m<sup>3</sup>/s) Sept. 24, 1941.

Flood of Mar. 27, 1913, reached a stage of 34.0 ft (10.36 m), from floodmarks, discharge, 230,000 ft<sup>3</sup>/s (6,510 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1931(M). WSP 1505: 1954. WSP 1915: 1954(M). WSP 2109: Drainage area. WRD Ind. 1974: 1973.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,340	3,420	4,170	12,400	29,500	37,100	17,000	21,600	12,900	12,700	2,990	20,200
2	2,270	3,260	4,220	13,500	26,700	31,100	15,800	19,900	12,900	10,900	2,870	16,300
3	2,180	3,270	4,180	13,600	21,800	24,000	15,400	17,600	12,200	9,210	4,760	12,400
4	2,150	3,290	3,950	14,100	19,500	19,500	15,500	15,800	11,400	7,910	5,150	10,000
5	2,110	4,330	3,650	13,300	19,800	18,700	15,300	14,200	11,800	7,120	5,110	8,150
6	2,090	5,060	3,450	11,400	20,300	19,700	14,200	12,800	12,400	6,620	5,440	6,900
7	2,060	5,220	3,420	10,300	20,100	19,100	12,900	11,300	12,200	6,290	6,240	6,810
8	2,020	5,330	3,860	10,500	18,100	18,700	11,500	10,100	11,500	6,580	4,930	7,500
9	2,010	5,550	5,170	15,900	15,300	20,100	10,500	9,320	10,700	6,690	3,940	7,520
10	2,010	5,310	5,660	23,000	12,800	20,700	9,580	8,620	9,430	5,970	3,580	6,350
11	2,010	5,040	6,190	36,700	11,000	20,500	8,850	8,140	9,520	5,420	3,340	5,710
12	2,020	5,290	8,810	39,400	10,500	20,900	8,270	7,760	11,500	5,020	3,720	7,370
13	1,970	5,530	9,640	39,900	9,590	20,100	7,830	7,400	13,200	4,900	4,050	9,120
14	2,110	5,490	8,750	37,800	8,800	17,500	7,490	7,020	15,500	4,690	3,950	10,300
15	2,290	5,660	8,620	32,300	8,790	14,000	7,200	7,040	18,000	4,450	4,210	9,330
16	2,370	5,680	10,700	24,700	9,020	13,400	6,940	8,010	22,800	4,360	8,360	7,570
17	2,350	5,470	12,700	19,400	9,510	13,400	6,640	7,620	25,800	4,170	8,190	6,440
18	2,400	6,030	13,600	17,600	13,100	12,700	6,750	6,720	28,300	3,900	6,490	5,790
19	2,690	6,390	13,600	17,000	17,000	13,300	7,580	6,140	30,000	6,540	5,520	5,750
20	2,760	6,240	12,200	16,600	19,500	14,800	7,540	6,320	29,100	8,170	4,720	5,980
21	2,710	5,920	10,700	14,800	19,300	15,700	7,240	6,180	24,200	7,250	3,880	6,010
22	2,670	5,500	9,830	11,600	19,300	16,400	6,700	7,010	19,500	6,120	3,330	5,990
23	2,670	5,110	8,490	9,580	32,500	16,100	8,590	15,200	18,000	5,200	3,430	5,750
24	2,710	4,860	8,440	8,930	41,400	15,300	16,400	18,500	18,900	4,690	3,390	5,630
25	2,780	4,740	11,600	9,970	45,700	14,100	19,100	18,300	18,300	4,290	3,670	5,220
26	2,840	4,570	14,900	14,500	46,300	12,900	22,100	19,900	22,000	4,060	5,210	4,810
27	2,790	4,380	17,100	15,400	45,300	11,000	19,400	21,700	24,400	3,820	6,330	4,670
28	2,760	4,330	16,500	13,200	41,700	11,900	18,300	17,500	22,900	3,580	5,680	4,640
29	2,790	4,320	14,600	17,200	-----	19,700	18,200	12,600	18,400	3,460	5,200	4,580
30	3,130	4,220	12,600	26,700	-----	21,800	20,700	11,800	15,100	3,260	11,000	4,420
31	3,380	-----	11,100	29,100	-----	19,200	-----	12,800	-----	3,090	20,000	-----
TOTAL	75,440	148,810	282,400	590,380	612,210	563,400	369,500	374,900	522,850	180,430	168,680	227,210
MEAN	2,434	4,960	9,110	19,040	21,860	18,170	12,320	12,090	17,430	5,820	5,441	7,574
MAX	3,380	6,390	17,100	39,900	46,300	37,100	22,100	21,700	30,000	12,700	20,000	20,200
MIN	1,970	3,260	3,420	8,930	8,790	11,000	6,640	6,140	9,430	3,090	2,870	4,420
CFSM	.22	.45	.82	1.71	1.97	1.63	1.11	1.09	1.57	.52	.49	.68
IN.	.25	.50	.94	1.98	2.05	1.89	1.24	1.25	1.75	.60	.56	.76
CAL YR 1974	TOTAL 5,204,790		MEAN 14,260		MAX 81,100		MIN 1,970		CFSM 1.28		IN 17.41	
WTR YR 1975	TOTAL 4,116,210		MEAN 11,280		MAX 46,300		MIN 1,970		CFSM 1.01		IN 13.77	

03340800 Big Raccoon Creek near Fincastle, Ind.

LOCATION.--Lat 39°48'45", long 86°57'14", in NW¼SW¼ sec.22, T.16 N., R.5 W., Putnam County, on left bank at downstream side of county road bridge, 1.6 miles (2.6 km) upstream from Ramp Creek, 3.1 miles (5.0 km) west of Fincastle, and at mile 48.8 (78.5 km).

DRAINAGE AREA.--139 mi<sup>2</sup> (360 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

WATER TEMPERATURE: July 1965 to current year.

SEDIMENT DISCHARGE: August 1959 to September 1971, October 1973 to current year (partial-record station, October 1971 to September 1973).

GAGE.--Water-stage recorder. Datum of gage is 686.03 ft (209.102 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 143 ft<sup>3</sup>/s (4.050 m<sup>3</sup>/s), 13.97 in/yr (355 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND \* WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	33	42	520	702	209	287	263	90	25	22	54
2	19	30	43	296	407	169	232	204	100	24	21	38
3	17	28	46	238	308	139	226	188	157	22	33	29
4	16	35	45	234	257	124	173	194	105	21	251	25
5	15	130	44	188	263	116	150	150	94	22	70	22
6	15	123	46	169	348	110	135	130	80	19	296	20
7	14	80	70	167	246	165	123	112	62	65	130	18
8	14	59	382	360	196	171	114	100	53	50	54	18
9	14	50	312	985	150	135	105	91	48	31	35	17
10	14	45	199	1120	130	138	99	81	44	25	27	15
11	14	49	155	1960	180	124	93	77	48	21	144	19
12	14	57	267	605	130	619	85	88	49	20	91	141
13	14	57	314	319	97	437	80	78	42	19	41	90
14	18	234	244	238	93	279	74	69	40	19	31	41
15	27	181	257	170	90	211	74	64	96	19	25	29
16	29	115	413	137	123	228	69	60	102	19	22	25
17	25	87	274	112	263	326	68	57	63	17	20	22
18	22	72	199	115	436	385	74	54	47	66	19	21
19	20	65	174	125	314	982	203	52	39	480	18	21
20	19	61	141	105	230	527	142	50	34	220	16	20
21	17	53	141	93	194	321	97	47	33	102	16	20
22	17	47	134	90	255	240	83	1680	31	62	15	19
23	17	44	139	81	3130	202	128	611	31	46	14	17
24	19	50	365	81	1800	271	1990	270	37	39	14	16
25	20	50	418	312	673	220	1680	197	32	34	14	16
26	20	45	261	355	444	169	1730	178	130	30	326	17
27	19	43	187	214	322	145	622	345	48	28	190	16
28	19	43	153	174	262	551	801	163	35	26	58	15
29	22	40	130	973	---	1780	478	110	30	25	35	15
30	39	38	130	730	---	702	331	90	27	24	206	14
31	39	---	248	571	---	401	---	85	---	23	102	---
TOTAL	610	2044	5973	11837	12043	10596	10546	5938	1827	1643	2356	850
MEAN	19.7	68.1	193	382	430	342	352	192	60.9	53.0	76.0	28.3
MAX	39	234	418	1960	3130	1780	1990	1680	157	480	326	141
MIN	14	28	42	81	90	110	68	47	27	17	14	14
CFSM	.14	.49	1.39	2.75	3.09	2.46	2.53	1.38	.44	.38	.55	.20
IN.	.16	.55	1.60	3.17	3.22	2.84	2.82	1.59	.49	.44	.63	.23

CAL YR 1974 TOTAL 89525 MEAN 245 MAX 5210 MIN 12 CFSM 1.76 IN 23.96  
WTR YR 1975 TOTAL 66263 MEAN 182 MAX 3130 MIN 14 CFSM 1.31 IN 17.73

PEAK DISCHARGE (BASE, 1,900 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0400	9.61	2,480	04-24	1300	9.89	2,640
02-23	1800	11.91	4,210	04-26	0300	10.41	2,980
03-29	1100	9.89	2,640	05-22	1900	10.59	3,100

## 03340800 Big Raccoon Creek near Fincastle, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 4,210 ft<sup>3</sup>/s (119 m<sup>3</sup>/s) Feb. 23, gage height, 11.91 ft (3.630 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Oct. 7-13, Aug. 23-25, Sept. 30.  
 Period of record: Maximum discharge, 15,100 ft<sup>3</sup>/s (428 m<sup>3</sup>/s) Jan. 26, 1962; maximum gage height, 15.68 ft (4.779 m) Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 16, 17, and Oct. 5, 6, 1964.  
 Flood of June 28, 1957, reached a stage of 19.10 ft (5.822 m), discharge, 39,900 ft<sup>3</sup>/s (1,130 m<sup>3</sup>/s), from slope-area measurement.

SEDIMENT CONCENTRATION, Current year: Maximum daily concentration, 7,770 mg/l May 22; minimum daily, 8 mg/l Jan. 22, 23.  
 Period of record: Maximum daily concentration, 27,900 mg/l Jan. 29, 1970; minimum daily, 1 mg/l Apr. 13-15, 1970.

SEDIMENT DISCHARGE, Current year: Maximum daily load, 35,500 tons (32,200 tonnes) Feb. 23; minimum daily, 0.34 tons (0.31 tonnes) Sept. 30.  
 Period of record: Maximum daily load, 295,000 tons (268,000 tonnes) Dec. 22, 1967; minimum daily, 0.03 ton (0.027 tonnes) Sept. 15, 1964.

REMARKS.--Water discharge records good, and sediment discharge records poor.

REVISIONS (WATER YEARS).--WSP 1909: 1958. WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT CHARGE (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	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN. 10...	2030	2200	2440	14500	49	66	80	92	97	99	100	--
FEB. 23...	1700	4130	4700	52400	38	53	70	84	94	98	99	100
MAR. 24...	0800	455	908	1120	68	76	83	94	98	100	--	--
APR. 24...	1130	2580	3330	23200	45	62	76	90	96	99	99	100
MAY 22...	1000	1740	11900	55900	34	56	76	93	98	99	100	--

## WABASH RIVER BASIN

03340800 Big Raccoon Creek near Fincastle, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
OCTOBER NOVEMBER DECEMBER

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22	99	5.9	33	14	1.2	42	20	2.3
2	19	77	4.0	30	15	1.2	43	22	2.6
3	17	65	3.0	28	16	1.2	46	27	3.4
4	16	58	2.5	35	23	2.2	45	27	3.3
5	15	55	2.2	130	205	72	44	26	3.1
6	15	55	2.2	123	148	49	46	24	3.0
7	14	55	2.1	80	39	8.4	70	43	8.1
8	14	58	2.2	59	33	5.3	382	129	133
9	14	60	2.3	50	30	4.1	312	63	53
10	14	58	2.2	45	27	3.3	199	38	20
11	14	56	2.1	49	41	5.4	155	29	12
12	14	54	2.0	57	66	10	267	66	48
13	14	52	2.0	57	61	9.4	314	63	53
14	18	67	3.3	234	1670	1060	244	28	18
15	27	112	8.2	181	911	445	257	44	31
16	29	103	8.1	115	310	96	413	108	120
17	25	68	4.6	87	125	29	274	63	47
18	22	49	2.9	72	78	15	199	51	27
19	20	39	2.1	65	63	11	174	55	26
20	19	33	1.7	61	53	8.7	141	45	17
21	17	27	1.2	53	44	6.3	141	42	16
22	17	24	1.1	47	34	4.3	134	39	14
23	17	21	0.96	44	24	2.9	139	45	17
24	19	18	0.92	50	23	3.1	365	193	190
25	20	16	0.86	50	22	3.0	418	204	230
26	20	15	0.81	45	22	2.7	261	123	87
27	19	14	0.72	43	21	2.4	187	96	48
28	19	13	0.67	43	20	2.3	153	84	35
29	22	17	1.0	40	19	2.1	130	77	27
30	39	29	3.1	38	18	1.8	130	74	26
31	39	19	2.0	---	---	---	248	151	101
MONTH	610	---	78.94	2044	---	1868.3	5973	---	1421.8
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	520	1640	2300	702	621	1180	209	48	27
2	296	918	734	407	302	332	169	34	16
3	238	759	488	308	156	130	139	27	10
4	234	535	338	257	101	70	124	26	8.7
5	188	84	43	263	97	69	116	31	9.7
6	169	62	28	348	158	148	110	30	8.9
7	167	133	60	246	98	65	165	129	57
8	360	1720	1670	196	81	43	171	157	72
9	985	2130	5660	150	74	30	135	116	42
10	1120	1860	5620	130	68	24	138	90	34
11	1960	3600	19100	180	65	32	124	78	26
12	605	814	1330	130	64	22	619	2080	3480
13	319	245	211	97	62	16	437	682	805
14	238	97	62	93	61	15	279	134	101
15	170	46	21	90	59	14	211	40	23
16	137	24	8.9	123	78	26	228	27	17
17	112	14	4.2	263	95	67	326	140	123
18	115	11	3.4	436	76	89	385	118	123
19	125	10	3.4	314	42	36	982	951	2520
20	105	9	2.6	230	28	17	527	102	145
21	93	9	2.3	194	20	10	321	27	23
22	90	8	1.9	255	151	104	240	21	14
23	81	8	1.8	3130	4200	35500	202	20	11
24	81	9	2.0	1800	666	3240	271	673	492
25	312	86	72	673	168	305	220	245	146
26	355	86	82	444	113	135	169	120	55
27	214	32	18	322	85	74	145	98	38
28	174	22	10	262	65	46	551	729	1080
29	973	689	1810	---	---	---	1780	2850	13700
30	730	357	704	---	---	---	702	1240	2350
31	571	493	760	---	---	---	401	600	650
MONTH	11837	---	41151.5	12043	---	41839	10596	---	26207.3

03340800 Big Raccoon Creek near Fincastle, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL				MAY			JUNE	
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	287	245	190	263	148	105	90	42	10
2	232	164	103	204	116	64	100	113	31
3	226	241	147	188	119	60	157	168	71
4	173	132	62	194	157	82	105	66	19
5	150	69	28	150	91	37	94	36	9.1
6	135	57	21	130	72	25	80	26	5.6
7	123	53	18	112	53	16	62	22	3.7
8	114	50	15	100	38	10	53	21	3.0
9	105	48	14	91	31	7.6	48	19	2.5
10	99	45	12	81	28	6.1	44	17	2.0
11	93	42	11	77	35	7.3	48	42	5.4
12	85	39	9.0	88	135	32	49	58	7.7
13	80	37	8.0	78	122	26	42	42	4.8
14	74	34	6.8	69	75	14	40	33	3.6
15	74	32	6.4	64	50	8.6	96	62	16
16	69	28	5.2	60	38	6.2	102	89	25
17	68	26	4.8	57	28	4.3	63	67	11
18	74	28	5.6	54	25	3.6	47	65	8.2
19	203	346	190	52	22	3.1	39	63	6.6
20	142	177	68	50	22	3.0	34	104	9.5
21	97	78	20	47	19	2.4	33	98	8.7
22	83	63	14	1680	7770	35200	31	93	7.8
23	128	258	89	611	2360	3890	31	88	7.4
24	1990	2770	14900	270	288	210	37	83	8.3
25	1680	2870	13000	197	145	77	32	87	7.5
26	1730	2560	12000	178	107	51	130	114	40
27	622	1120	1880	345	88	82	48	87	11
28	801	1530	3310	163	46	20	35	77	7.3
29	478	449	579	110	43	13	30	72	5.8
30	331	220	197	90	41	10	27	70	5.1
31	---	---	---	85	39	9.0	---	---	---
MONTH	10546	---	46913.8	5938	---	40085.2	1827	---	363.6
DAY	JULY				AUGUST			SEPTEMBER	
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	25	67	4.5	22	48	2.9	54	67	9.8
2	24	66	4.3	21	47	2.7	38	46	4.7
3	22	66	3.9	33	59	5.3	29	38	3.0
4	21	66	3.7	251	680	461	25	35	2.4
5	22	65	3.9	70	90	17	22	33	2.0
6	19	64	3.3	296	691	552	20	31	1.7
7	65	88	15	130	235	82	18	30	1.5
8	50	68	9.2	54	63	9.2	18	28	1.4
9	31	56	4.7	35	54	5.1	17	27	1.2
10	25	54	3.6	27	53	3.9	15	25	1.0
11	21	51	2.9	144	358	139	19	29	1.5
12	20	49	2.6	91	95	23	141	101	38
13	19	47	2.4	41	39	4.3	90	69	17
14	19	45	2.3	31	26	2.2	41	36	4.0
15	19	42	2.2	25	25	1.7	29	23	1.8
16	19	40	2.1	22	24	1.4	25	18	1.2
17	17	39	1.8	20	23	1.2	22	16	0.95
18	66	167	30	19	23	1.2	21	15	0.85
19	480	1890	2450	18	23	1.1	21	14	0.79
20	220	1720	1020	16	24	1.0	20	14	0.76
21	102	448	123	16	24	1.0	20	13	0.70
22	62	122	20	15	24	0.97	19	13	0.67
23	46	52	6.5	14	25	0.95	17	12	0.55
24	39	62	6.5	14	25	0.95	16	12	0.52
25	34	65	6.0	14	25	0.95	16	11	0.48
26	30	59	4.8	326	1630	1430	17	11	0.50
27	28	56	4.2	190	1170	600	16	10	0.43
28	26	54	3.8	58	136	21	15	10	0.41
29	25	52	3.5	35	62	5.9	15	10	0.41
30	24	50	3.2	206	363	202	14	9	0.34
31	23	49	3.0	102	139	38	---	---	---
MONTH	1643	---	3756.9	2356	---	3618.92	850	---	100.56
YEAR	66263	---	207405.82						



03340870 Cecil M. Harden Lake at Ferndale, Ind.  
(Formerly published as Mansfield Lake at Ferndale)

LOCATION.--Lat 39°43'02", long 87°04'20", in SE¼NE¼ sec.28, T.15 N., R.6 W., Parke County, in discharge tower of reservoir on Big Raccoon Creek at Ferndale, 4.4 miles (7.1 km) upstream from Rocky Fork Creek, 6.1 miles (9.8 km) northeast of Mansfield, and at mile 33.8 (54.4 km).

DRAINAGE AREA.--216 mi<sup>2</sup> (559 km<sup>2</sup>).

PERIOD OF RECORD.--December 1960 to current year. Published as 'Mansfield Reservoir' prior to October 1970 and as 'Mansfield Lake' October 1970 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 60,300 acre-ft (74.3 hm<sup>3</sup>) Apr. 30, elevation, 666.05 ft (203.012 m); minimum, 16,260 acre-ft (20.0 hm<sup>3</sup>) Jan. 5, elevation, 640.07 ft (195.093 m).  
Period of record: Maximum contents, 87,510 acre-ft (107 hm<sup>3</sup>) May 4, 1964, elevation, 676.52 ft (206.203 m); minimum, 16,080 acre-ft (19.8 hm<sup>3</sup>) many times, elevation, 639.9 ft (195.04 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by three gates, 4 ft (1.22 m) wide and 8 ft (2.44 m) high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 16,180 acre-ft (19.9 hm<sup>3</sup>), elevation, 640 ft (195.1 m). Seasonal pool capacity is 49,300 acre-ft (60.8 hm<sup>3</sup>), elevation, 661 ft (201.5 m). Capacity at uncontrolled spillway elevation, 690 ft (210.3 m) is 133,000 acre-ft (164 hm<sup>3</sup>). Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	660.53	48,290	-
Oct. 31.....	653.98	35,980	-12,310
Nov. 30.....	640.52	16,760	-19,223
Dec. 31.....	640.35	16,570	-190
Calendar year 1974.....	-	-	-24,150
Jan. 31.....	647.94	26,330	+9,760
Feb. 28.....	653.33	34,860	+8,530
Mar. 31.....	652.45	33,370	-1,490
Apr. 30.....	665.84	59,820	+26,450
May 31.....	664.88	57,610	-2,210
June 30.....	661.47	50,230	-7,380
July 31.....	661.10	49,460	-770
Aug. 31.....	661.35	49,980	+520
Sept. 30.....	659.51	46,250	-3,730
Water year 1975.....	-	-	-2,040

75mg

03341300 Big Raccoon Creek at Coxville, Ind.

LOCATION.--Lat 39°39'09", long 87°17'37", in SW1SW4 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 (1.3 km) upstream from Rock Run, 1.5 miles (2.4 km) downstream from Little Raccoon Creek, 2.1 miles (3.4 km) northwest of Rosedale, and at mile 13.1 (21.1 km).

DRAINAGE AREA.--448 mi<sup>2</sup> (1,160 km<sup>2</sup>).

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 (150.51 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--19 years, 491 ft<sup>3</sup>/s (13.91 m<sup>3</sup>/s), 14.88 in./yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,910 ft<sup>3</sup>/s (196 m<sup>3</sup>/s) Jan. 10, gage height, 12.97 ft (3.953 m); minimum daily, 74 ft<sup>3</sup>/s (2.1 m<sup>3</sup>/s) Aug. 24.

Period of record: Maximum discharge, 108,000 ft<sup>3</sup>/s (3,060 m<sup>3</sup>/s) June 28, 1957, gage height, 21.23 ft (6.471 m), from rating curve extended above 35,000 ft<sup>3</sup>/s (991 m<sup>3</sup>/s) on basis of an estimate made by slope-area study; minimum daily, 6.5 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Oct. 10, 1956.

REMARKS.--Records good. Flow regulated by Cecil M. Harden Lake (revised) (See sta 03340870).

REVISIONS (WATER YEARS).--WSP 2109: Drainage area. WRD Ind. 1974: 1973.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	584	480	1,080	1,260	643	701	1,250	501	200	95	280
2	191	562	443	1,040	923	574	618	1,230	464	232	94	286
3	186	538	323	1,050	834	531	591	1,220	467	218	339	275
4	184	302	286	920	1,350	562	524	1,230	443	159	659	150
5	184	454	282	757	1,390	1,190	486	1,170	535	148	274	129
6	183	350	299	638	1,440	1,240	453	625	426	152	234	123
7	181	280	351	608	1,350	1,520	427	541	353	153	209	114
8	179	226	640	992	1,500	1,220	404	521	319	139	184	105
9	152	370	746	1,600	1,450	1,570	344	489	249	132	164	101
10	141	645	709	3,170	1,420	1,580	322	431	225	126	147	99
11	141	722	695	4,070	1,420	1,560	305	368	314	120	130	120
12	137	750	795	1,380	1,410	2,530	289	588	288	129	118	154
13	136	741	772	960	1,230	1,020	275	391	234	123	145	158
14	147	1,080	734	760	606	771	255	345	392	119	145	164
15	186	1,040	795	640	585	754	245	322	512	110	147	163
16	359	976	913	569	720	1,360	233	353	363	102	125	164
17	375	935	907	531	763	1,420	227	813	282	98	106	166
18	381	913	855	983	1,030	1,380	232	868	253	107	95	164
19	381	901	729	1,030	1,100	1,670	528	877	232	265	92	138
20	386	889	627	1,070	861	1,530	336	957	218	142	89	137
21	381	849	593	1,210	726	1,410	279	353	399	184	83	132
22	400	846	562	1,200	834	1,340	251	507	235	209	79	130
23	437	840	544	1,190	4,680	1,140	742	969	195	224	76	129
24	448	889	684	1,190	2,310	817	2,550	983	384	217	74	127
25	479	864	752	1,420	1,320	682	2,260	1,260	263	186	81	127
26	477	837	852	1,450	1,080	613	1,490	1,530	280	169	111	127
27	477	781	840	1,300	843	643	1,020	1,120	326	150	110	126
28	474	616	864	1,270	732	1,430	929	832	241	140	269	125
29	524	554	574	1,990	-----	2,440	765	550	218	125	286	124
30	685	475	539	1,070	-----	1,180	771	500	202	110	178	124
31	610	-----	673	1,930	-----	866	-----	518	-----	103	174	-----
TOTAL	9,802	20,809	19,858	39,068	35,167	37,186	18,852	23,711	9,813	4,791	5,112	4,461
MEAN	316	694	641	1,260	1,256	1,200	628	765	327	155	165	149
MAX	685	1,080	913	4,070	4,680	2,530	2,550	1,530	535	265	659	286
MIN	136	226	282	531	585	531	227	322	195	98	74	99
CFSM	.71	1.55	1.43	2.81	2.80	2.68	1.40	1.71	.73	.35	.37	.33
IN.	.81	1.73	1.65	3.24	2.92	3.09	1.57	1.97	.81	.40	.42	.37
CAL YR 1974	TOTAL 312,175	MEAN 855	MAX 3,360	MIN 89	CFSM 1.91	IN 25.92						
WTR YR 1975	TOTAL 228,630	MEAN 626	MAX 4,680	MIN 74	CFSM 1.40	IN 18.98						

03341470 North Coal Creek near Terre Haute, Ind.

LOCATION.--Lat 39°32'52", long 87°25'40", in NE¼NE¼ sec.29, T.13 N., R.9 W., Vigo County, on right bank 0.2 mile (0.3 km) upstream from County Road 56 West, 0.4 mile (0.6 km) upstream from mouth, 0.5 mile (0.8 km) east of State Highway 63, and 4.0 miles (6.4 km) northwest of the junction of State Highway 63 and U.S. Highway 41 in Terre Haute.

DRAINAGE AREA.--1.91 mi<sup>2</sup> (4.95 km<sup>2</sup>).

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 478.92 ft (145.975 m) above mean sea level (levels by Peabody Coal Company).

EXTREMES.--Maximum discharge during period: 193 ft<sup>3</sup>/s (5.47 m<sup>3</sup>/s) Jan. 10 gage height, 2.59 ft (0.789 m); minimum daily, 0.01 ft<sup>3</sup>/s (0.000 m<sup>3</sup>/s) Sept. 6, 23, 24, 26-30.

Period of record: Maximum discharge, 288 ft<sup>3</sup>/s (8.16 m<sup>3</sup>/s) June 22, 1974, gage height, 2.75 ft (0.838 m); minimum daily, 0.01 ft<sup>3</sup>/s (0.000 m<sup>3</sup>/s) Sept. 6, 23, 24, 26-30, 1975.

REMARKS.--Records poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.29	2.6	6.0	5.0	1.5	2.5	2.4	1.4	.04	.02	.09
2	.08	.23	6.7	2.3	2.5	1.2	2.0	1.7	2.0	.02	.02	.06
3	.06	.23	6.3	5.3	2.3	1.2	1.5	1.9	1.1	.02	.05	.03
4	.05	4.9	3.4	3.1	2.2	.97	1.2	1.8	.84	.05	.30	.02
5	.05	6.8	2.4	1.9	4.2	.98	1.1	1.4	9.9	.07	8.0	.02
6	.04	2.4	2.0	1.9	4.5	.97	1.1	1.2	2.0	.05	10	.01
7	.04	1.5	5.5	1.7	2.4	2.6	1.0	1.0	1.7	.09	1.5	.02
8	.04	1.2	6.6	16	1.6	1.2	.92	2.3	1.1	.05	.40	.02
9	.04	1.1	3.4	8.6	1.3	1.1	.92	1.7	.95	.03	.20	.02
10	.03	.98	2.3	54	1.2	1.3	.92	1.3	.85	.02	.09	.02
11	.03	1.3	2.5	46	1.7	3.9	.85	1.8	23	.02	.05	1.6
12	.03	1.4	3.7	10	9.0	23	.78	3.8	6.0	3.4	.07	.11
13	.03	1.4	2.2	4.0	2.4	5.1	.78	1.7	2.0	.21	.09	.05
14	.10	1.5	1.6	1.8	1.8	3.4	.72	1.6	2.5	.15	.07	.03
15	.70	2.5	5.6	1.4	4.7	3.6	.72	1.3	1.2	.09	.04	.02
16	.10	2.8	3.1	1.3	6.4	4.9	.72	.78	.75	.05	.03	.02
17	.06	2.2	1.8	1.2	6.8	3.6	.70	.54	.46	.04	.02	.02
18	.06	1.9	1.4	1.3	3.6	7.3	2.3	.48	.38	.03	.02	.02
19	.06	1.8	2.6	1.6	2.5	14	3.3	.86	.29	1.0	.02	.04
20	.06	1.7	2.1	1.3	1.9	4.5	1.1	14	.25	30	.02	.02
21	.06	1.3	2.3	1.3	1.7	3.0	.79	1.9	.23	4.0	.02	.02
22	.05	1.1	1.6	1.2	37	2.4	.74	1.6	.20	.70	.02	.02
23	.05	2.3	1.9	1.2	31	1.7	9.4	1.4	.17	.20	.02	.01
24	.06	7.0	6.0	1.2	11	3.0	33	1.2	.25	.07	.03	.01
25	.06	3.4	3.0	2.5	6.6	1.5	7.6	23	.15	.05	.50	.02
26	.06	2.2	3.0	3.3	4.1	1.2	3.9	8.6	.10	.04	.10	.01
27	.06	2.1	1.4	2.1	2.5	9.5	2.9	3.0	.08	.04	.06	.01
28	.06	1.8	1.3	1.8	2.1	19	2.6	1.0	.06	.03	.04	.01
29	1.1	1.4	1.1	1.6	-----	21	2.1	1.0	.05	.03	.30	.01
30	.82	1.5	1.1	1.5	-----	6.2	2.4	1.2	.04	.02	.15	.01
31	.34	-----	6.2	25	-----	4.1	-----	2.2	-----	.02	.11	-----
TOTAL	4.50	62.23	96.7	213.4	164.0	158.92	90.56	89.66	60.00	40.63	22.36	2.37
MEAN	.15	2.07	3.12	6.88	5.86	5.13	3.02	2.89	2.00	1.31	.72	.079
MAX	1.1	7.0	6.7	54	37	23	33	23	23	30	10	1.6
MIN	.03	.23	1.1	1.2	1.2	.97	.70	.48	.04	.02	.02	.01
CFSM	.08	1.08	1.63	3.60	3.07	2.69	1.58	1.51	1.05	.69	.38	.04
IN.	.09	1.21	1.88	4.16	3.19	3.10	1.76	1.75	1.17	.79	.44	.05

WTR YR 1975 TOTAL 1,005.33 MEAN 2.75 MAX 54 MIN .01 CFSM 1.44 IN 19.58

PEAK DISCHARGE (BASE, 100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1445	2.59	193	08-05	1915	2.43	125
02-22	1930	2.47	140				

## 03341500 Wabash River at Terre Haute, Ind.

LOCATION (revised).--Lat 39°28'00", long 87°25'08", in NE¼SW¼ sec.21, T.12 N., R.9 W., Vigo County, on left bank at upstream side of Wabash Avenue bridge at Terre Haute, 2.4 miles (3.9 km) upstream from Sugar Creek, 4.2 miles (6.8 km) downstream from Lost Creek, and at mile 214.4 (345.0 km).

DRAINAGE AREA.--12,265 mi<sup>2</sup> (31,766 km<sup>2</sup>).

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 (1,010 m) upstream June 1891 to June 1897 and since December 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 442.90 ft (134.996 m) above mean sea level. See WSP 1725 for history of changes prior to Oct. 27, 1928.

AVERAGE DISCHARGE.--48 years, 10,660 ft<sup>3</sup>/s (301.9 m<sup>3</sup>/s), 11.80 in/yr (300 mm/yr).

EXTREMES.--Current year: Maximum discharge, 50,000 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s) Feb. 27, gage height, 21.52 ft (6.559 m); minimum daily, 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/s) Oct. 12.  
Period of record: Maximum discharge, 189,000 ft<sup>3</sup>/s (5,350 m<sup>3</sup>/s) May 20, 1943, gage height, 30.50 ft (9.296 m); minimum daily, 701 ft<sup>3</sup>/s (19.9 m<sup>3</sup>/s) Aug. 3, 1934.  
Flood of Mar. 27, 1913, reached a stage of 31.1 ft (9.48 m), present site and datum, discharge, 245,000 ft<sup>3</sup>/s (6,940 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 205: 1905. WSP 1335: 1944. WRD Ind. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND \* WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3110	4540	5190	14500	33400	43200	21300	23400	15200	15300	3510	22400
2	3080	4390	5180	15500	32800	37700	19000	24100	15600	13200	3390	20300
3	3010	4300	5290	15800	29500	33200	17900	24000	14800	11300	4270	16000
4	2980	4380	5090	16300	25000	27600	17600	19100	13800	9710	8800	12900
5	2980	4920	4630	15900	23800	23700	17500	17300	13800	8520	7240	10900
6	2970	5990	4390	14200	24100	23600	16600	15700	14300	7880	6470	9170
7	2870	6280	4260	12700	24100	23400	15300	14400	14100	7440	7740	8200
8	2780	6170	4600	12600	22600	22400	13900	12900	13500	7280	6990	8690
9	2740	6440	5940	18000	19600	22700	12700	11800	12700	7590	5480	9090
10	2730	6530	6990	24300	16400	23700	11700	10600	11200	7090	4660	8370
11	2740	6380	7380	34300	14300	24000	10800	9870	11100	6340	4400	7390
12	2700	6530	9400	39400	13600	26600	10100	9670	13000	5770	4320	7660
13	2720	6920	11200	40500	12800	25900	9460	9220	14100	5600	4990	9820
14	2780	7170	10700	40900	11500	23000	8940	8560	16200	5380	5070	11000
15	3040	7330	10100	38400	10900	18700	8580	8140	19200	5040	4790	11400
16	3170	7370	11600	34000	11700	16500	8310	8470	23200	4950	7990	9840
17	3350	7040	13700	27700	11900	16300	7920	9070	26600	4750	10200	8460
18	3280	7200	14900	23100	14600	15700	7680	8450	29000	4490	8960	7260
19	3500	7880	15500	21300	17900	16900	9020	7640	30700	5870	7750	6850
20	3680	7940	14600	20400	21600	17600	9750	10900	31500	10300	6520	7170
21	3680	7620	13000	18400	22300	17800	9880	10500	30000	8860	5480	7170
22	3660	7100	12000	15600	22400	18800	8240	8990	24900	7530	4520	7240
23	3660	6670	10700	12800	32400	18600	8330	15400	21100	6370	4320	6920
24	3700	6310	10100	11500	38800	18100	18600	19600	22600	5700	4200	6760
25	3750	6240	12000	12100	44800	16900	24200	21000	23200	5190	4550	6360
26	3810	5880	15300	15800	49300	15600	25200	23000	23000	4800	5220	5870
27	3840	5690	18100	18000	49800	14000	24200	24400	26500	4540	8110	5610
28	3820	5470	18800	16500	47800	16400	21700	22600	26700	4310	7340	5530
29	3890	5350	17200	18000	---	23100	21000	17800	23100	4090	7010	5460
30	4200	5260	15100	27200	---	27200	22500	14300	18500	3840	8840	5270
31	4420	---	13600	32100	---	24600	---	14600	---	3620	18300	---
TOTAL	102640	187290	326540	677800	699700	693500	437910	455480	593200	212650	201430	275060
MEAN	3311	6243	10530	21860	24990	22370	14600	14690	19770	6860	6498	9169
MAX	4420	7940	18800	40900	49800	43200	25200	24400	31500	15300	18300	22400
MIN	2700	4300	4260	11500	10900	14000	7680	7640	11100	3620	3390	5270
CFSM	.27	.51	.86	1.78	2.04	1.82	1.19	1.20	1.61	.56	.53	.75
IN.	.31	.57	.99	2.06	2.12	2.10	1.33	1.38	1.80	.64	.61	.83

CAL YR 1974 TOTAL 6389940 MEAN 17510 MAX 82800 MIN 2700 CFSM 1.43 IN 19.38  
WTR YR 1975 TOTAL 4863200 MEAN 13320 MAX 49800 MIN 2760 CFSM 1.09 IN 14.75

## WABASH RIVER BASIN

03342000 Wabash River at Riverton, Ind.

LOCATION.--Lat 39°01'13", long 87°34'07", in NE¼SW¼ sec.30, T.7 N., R.10 W., Sullivan County, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.5 mile (0.8 km) (revised) downstream from Turtle Creek, and at mile 162.0 (260.7 km).

DRAINAGE AREA.--13,161 mi<sup>2</sup> (34,087 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: 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.

WATER TEMPERATURE: July 1954 to September 1961, October 1962 to September 1965, October 1967 to current year.

GAGE.--Water-stage recorder and temperature recorder. Datum of gage is 414.65 ft (126.385 m) above mean sea level. Prior to July 17, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 11,600 ft<sup>3</sup>/s (328.5 m<sup>3</sup>/s), 11.97 in/yr (304 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,320	4,800	5,700	16,400	30,700	54,400	25,400	21,900	15,100	18,200	4,450	16,500
2	3,960	4,800	5,710	15,500	32,600	54,000	22,400	23,200	15,300	15,300	4,340	18,300
3	3,760	4,670	6,100	15,600	33,700	51,400	19,600	22,800	15,400	13,000	4,280	16,500
4	3,580	4,910	6,010	16,200	33,000	46,900	18,200	20,900	14,500	11,300	5,410	13,200
5	3,490	6,670	5,620	15,900	29,700	40,300	17,700	18,800	14,000	9,990	7,490	10,700
6	3,420	6,500	5,230	15,100	27,400	32,700	17,300	16,900	14,600	9,070	6,840	9,050
7	3,360	6,510	5,060	13,600	25,600	27,800	16,300	16,000	14,100	8,470	6,430	7,700
8	3,300	6,520	6,500	12,600	24,100	25,200	15,000	14,700	13,600	8,060	7,000	7,140
9	3,240	6,450	6,570	16,500	22,200	23,300	13,700	13,600	13,100	7,920	6,540	7,440
10	3,330	6,660	6,710	20,700	19,100	22,900	12,600	12,100	12,200	7,960	5,560	7,650
11	3,180	7,600	7,340	31,000	16,100	23,200	11,700	11,000	11,500	7,490	4,970	7,210
12	3,160	7,910	8,240	34,800	15,200	28,400	10,900	11,700	12,300	6,890	4,690	6,800
13	3,140	7,340	10,100	37,000	14,800	30,700	10,300	11,100	12,600	6,470	4,610	7,090
14	3,180	8,180	10,800	39,600	13,200	28,900	9,800	9,950	13,400	6,270	5,030	8,490
15	3,370	8,110	10,400	42,300	11,800	25,300	9,380	9,270	15,000	6,040	5,540	9,470
16	3,510	7,760	10,700	44,100	12,500	21,200	9,090	8,840	17,300	5,760	5,200	9,430
17	3,560	7,610	11,700	43,300	13,400	19,000	8,810	9,120	20,300	5,640	7,370	8,190
18	3,640	7,310	13,200	39,300	13,600	17,600	8,540	9,330	22,700	5,670	8,670	7,070
19	3,590	7,520	14,200	32,100	15,300	20,100	9,320	8,770	24,500	6,080	7,980	6,390
20	3,720	7,960	14,700	25,500	18,200	20,000	10,000	8,910	26,100	10,900	7,290	6,210
21	3,890	7,940	14,000	22,000	20,400	18,700	9,960	11,500	28,000	15,000	6,190	6,350
22	3,900	7,650	12,700	19,000	21,600	18,500	9,380	10,100	27,900	10,300	5,410	6,320
23	3,850	7,230	11,500	15,500	33,000	18,700	9,440	10,500	24,700	8,310	4,730	6,250
24	3,860	7,090	10,800	13,000	38,300	18,500	14,800	15,200	21,700	7,170	4,540	6,070
25	3,890	7,110	11,100	12,200	40,200	17,900	24,500	18,100	21,600	6,530	4,450	5,920
26	3,950	6,730	12,300	13,700	43,000	16,500	24,700	21,600	21,300	6,020	5,300	5,590
27	3,990	6,350	14,800	16,300	47,600	15,300	24,600	22,300	21,500	5,620	5,980	5,270
28	3,990	6,080	16,900	17,300	52,000	18,100	23,500	22,700	23,200	5,360	7,080	5,110
29	4,070	5,850	17,200	16,700	-----	25,300	21,700	20,800	23,600	5,190	6,670	5,070
30	4,630	5,740	15,900	20,400	-----	27,900	20,800	17,200	21,600	4,930	6,710	5,000
31	4,830	-----	14,700	26,600	-----	27,700	-----	14,600	-----	4,680	9,670	-----
TOTAL	114,660	203,560	322,490	719,800	718,300	836,400	459,420	463,490	552,700	255,590	186,420	247,480
MEAN	3,699	6,785	10,400	23,220	25,650	26,980	15,310	14,950	18,420	8,245	6,014	8,249
MAX	4,830	8,180	17,200	44,100	52,000	54,400	25,400	23,200	28,000	18,200	9,670	18,300
MIN	3,140	4,670	5,060	12,200	11,800	15,300	8,540	8,770	11,500	4,680	4,280	5,000
CFSM	.28	.52	.79	1.76	1.95	2.05	1.16	1.14	1.40	.63	.46	.63
IN.	.32	.58	.91	2.03	2.03	2.36	1.30	1.31	1.56	.72	.53	.70
CAL YR 1974	TOTAL 7,093,060		MEAN 19,430		MAX 82,900		MIN 3,140		CFSM 1.48		IN 20.05	
WTR YR 1975	TOTAL 5,080,310		MEAN 13,920		MAX 54,400		MIN 3,140		CFSM 1.06		IN 14.36	



## 03342000 Kabash River at Riverton, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 55,000 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/s) Mar. 1, gage height, 19.55 ft (5.959 m); minimum daily, 3,140 ft<sup>3</sup>/s (88.9 m<sup>3</sup>/s) Oct. 13.

Period of record: Maximum discharge, 201,000 ft<sup>3</sup>/s (5,690 m<sup>3</sup>/s) May 21, 1943, gage height, 29.36 ft (8.949 m); minimum daily, 858 ft<sup>3</sup>/s (24.3 m<sup>3</sup>/s) Sept. 27-30, 1941.

Flood of Mar. 28, 1913, reached a stage of 26.4 ft (8.05 m), from graph based on once-daily readings by Illinois Central Railroad Co., discharge, 250,000 ft<sup>3</sup>/s (7,080 m<sup>3</sup>/s).

WATER TEMPERATURE, Current year: Maximum temperature, 32.0°C Aug. 24; minimum, freezing point during winter months.

Period of record: Maximum temperature, 33.0°C July 20, Aug. 29, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 1355: 1939, 1950. WRU Ind. 1973: Drainage area.

## TEMPERATURE (DFG. C) OF WATER • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.5	20.5	19.5	6.0	5.0	---	---	2.5	1.5	2.0	0.0
2	18.5	18.5	21.0	20.5	5.5	5.0	---	---	1.5	1.0	0.5	0.0
3	19.0	18.0	21.5	21.0	5.5	4.5	---	---	1.5	1.0	0.0	0.0
4	19.0	18.0	21.5	19.5	5.5	4.5	---	---	1.0	0.5	0.5	0.0
5	19.0	18.0	19.5	17.0	5.0	4.5	---	---	2.0	1.0	1.5	0.5
6	20.0	19.0	17.0	16.5	6.0	4.5	---	---	2.5	2.0	3.0	1.5
7	20.0	19.5	16.5	15.5	7.0	6.0	---	---	2.5	2.0	3.5	3.0
8	20.0	19.0	15.5	15.0	7.0	6.0	---	---	2.0	0.5	4.0	3.5
9	19.5	18.5	15.0	14.5	6.0	5.5	---	---	0.5	0.0	4.5	4.0
10	19.5	19.0	14.5	14.0	5.0	4.5	---	---	0.0	0.0	4.0	4.0
11	20.0	19.0	14.0	13.0	5.0	4.0	---	---	0.0	0.0	4.0	3.5
12	20.5	19.5	13.0	12.0	4.0	3.5	---	---	0.0	0.0	4.0	3.5
13	20.5	19.5	11.5	10.0	3.5	3.0	---	---	0.0	0.0	3.5	3.0
14	19.5	19.0	10.0	9.0	3.5	2.5	---	---	0.5	0.0	3.5	3.0
15	19.5	18.0	9.0	7.5	4.0	3.0	---	---	1.5	0.5	4.0	3.0
16	18.0	17.5	8.5	7.0	4.5	4.0	---	---	2.5	1.5	4.5	4.0
17	17.5	17.0	8.5	7.5	4.5	4.0	---	---	3.0	2.5	6.0	4.5
18	17.5	17.0	9.0	8.0	4.0	3.0	---	---	3.0	2.5	7.0	6.0
19	17.5	17.0	9.5	8.5	3.0	2.5	---	---	3.0	2.5	8.0	6.5
20	17.0	16.0	10.0	9.0	3.0	2.0	---	---	2.5	2.0	9.0	7.5
21	16.0	15.5	10.0	9.0	2.0	1.5	---	---	2.5	2.0	10.5	8.5
22	16.0	15.0	9.5	9.0	1.5	1.0	---	---	4.0	2.5	11.0	10.0
23	16.5	15.5	9.5	9.0	1.5	1.0	---	---	4.5	4.0	12.0	11.0
24	17.5	16.5	10.0	9.5	2.0	1.0	---	---	4.0	2.5	12.0	10.5
25	18.5	17.5	10.0	9.0	1.5	0.0	---	---	3.0	2.0	10.5	9.5
26	18.5	18.0	9.0	7.5	1.0	0.0	---	---	2.5	1.5	10.0	9.0
27	18.0	17.0	8.0	7.0	1.0	0.5	---	---	2.5	1.5	9.0	7.5
28	18.0	17.0	8.0	7.5	0.5	0.0	---	---	2.5	1.5	7.5	6.5
29	18.0	17.5	7.5	7.0	1.5	0.0	---	---	---	---	7.0	6.0
30	19.0	17.5	7.0	6.0	3.0	1.5	---	---	---	---	7.0	5.0
31	19.5	19.0	---	---	4.0	2.5	---	---	---	---	6.0	5.0
MONTH	20.5	15.0	21.5	6.0	7.0	0.0	---	---	4.5	0.0	12.0	0.0



## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.0	14.5	14.0	---	---	29.0	28.0	30.0	29.0	27.0	24.0
2	8.5	6.5	15.0	14.5	---	---	29.5	27.5	29.0	28.5	24.5	23.5
3	9.0	8.0	15.5	14.5	---	---	29.5	28.0	29.5	28.0	25.5	24.0
4	9.5	8.5	15.5	15.0	---	---	30.0	29.0	28.0	27.0	26.5	25.0
5	9.5	9.0	16.5	15.5	---	---	30.0	28.5	28.0	27.0	27.0	26.0
6	9.0	8.5	17.0	15.5	---	---	29.5	29.0	28.0	27.5	26.5	26.0
7	9.0	8.0	17.5	16.5	---	---	29.0	28.5	28.0	27.0	26.5	25.5
8	9.5	9.0	17.5	17.0	---	---	28.5	28.0	28.0	27.0	26.5	26.0
9	10.5	9.5	19.0	17.0	---	---	29.0	28.0	29.0	28.0	26.5	25.5
10	11.0	10.0	20.0	19.0	---	---	28.5	27.5	30.0	28.0	26.5	25.0
11	11.0	10.0	20.5	19.5	---	---	27.5	26.5	30.0	29.5	26.5	25.5
12	10.5	10.0	20.5	19.0	---	---	27.0	26.0	30.0	29.5	25.5	24.0
13	11.0	10.0	21.0	20.0	---	---	26.0	25.0	29.5	29.0	24.0	23.0
14	11.5	11.0	21.0	20.5	---	---	25.5	24.5	29.0	28.5	23.0	21.5
15	11.0	10.0	20.5	20.0	---	---	26.0	24.5	28.5	27.5	22.0	21.0
16	10.5	9.5	21.0	19.5	---	---	27.0	25.5	28.5	28.0	21.0	20.0
17	11.0	10.0	21.5	21.0	---	---	28.0	27.5	28.0	27.0	21.0	20.0
18	11.5	11.0	22.5	21.0	---	---	28.5	27.5	28.0	26.5	21.5	20.5
19	12.0	11.5	23.0	22.5	---	---	28.5	27.5	28.0	26.5	21.5	21.0
20	13.5	11.5	24.0	23.0	---	---	27.5	26.0	28.5	26.5	22.0	21.0
21	16.0	13.5	24.5	23.5	---	---	27.0	25.0	30.0	28.5	21.5	20.5
22	16.5	15.5	---	---	---	---	28.5	27.0	30.5	30.0	20.5	20.0
23	16.5	16.0	---	---	---	---	29.0	28.0	31.5	30.5	20.0	19.0
24	16.5	16.0	---	---	---	---	30.0	28.5	32.0	31.0	19.0	18.0
25	17.0	16.5	---	---	---	---	30.5	30.0	31.5	30.5	18.0	16.5
26	16.5	16.5	---	---	---	---	30.0	28.5	31.0	30.0	16.5	16.0
27	17.0	16.5	---	---	---	---	30.0	28.5	30.0	29.0	17.0	16.0
28	16.5	15.5	---	---	---	---	30.0	29.5	29.5	28.0	17.5	16.5
29	16.5	15.0	---	---	---	---	31.0	30.0	29.0	28.0	18.0	17.0
30	16.0	14.5	---	---	---	---	31.0	29.5	28.5	27.5	18.0	17.5
31	---	---	---	---	---	---	30.0	29.0	27.5	27.0	---	---
MONTH	17.0	5.0	---	---	---	---	31.0	24.5	32.0	26.5	27.0	16.0

03342100 Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°12'54", long 87°18'41", in 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, 1.3 miles (2.1 km) upstream from East Fork Busseron Creek, 1.9 miles (3.1 km) northwest of Hymera, 4.1 miles (6.6 km) (revised) upstream from West Fork Busseron Creek, and at mile 30.3 (48.8 km).

DRAINAGE AREA.--16.7 mi<sup>2</sup> (43.3 km<sup>2</sup>).

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 (146.304 m) above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--9 years, 20.6 ft<sup>3</sup>/s (0.583 m<sup>3</sup>/s), 16.75 in/yr (425 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft<sup>3</sup>/s (28.6 m<sup>3</sup>/s) Feb. 23, gage height, 17.36 ft (5.291 m); no flow Aug. 23, 24. Period of record: Maximum discharge, 1,890 ft<sup>3</sup>/s (53.5 m<sup>3</sup>/s) Sept. 12, 1974, gage height, 18.58 ft (5.663 m); no flow at times most years.

REMARKS.--Records good. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures.

REVISIONS (WATER YEARS).--WRD Ind. 1972: 1971.

## DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	3.8	11	63	66	37	50	14	15	.18	.35	3.0
2	26	2.4	27	45	51	27	42	9.5	30	.14	.35	2.4
3	17	2.3	32	56	39	19	32	7.4	18	.11	.24	1.4
4	11	61	22	40	34	14	24	5.9	12	.09	.37	1.4
5	7.4	70	15	32	40	11	19	4.9	13	.07	.47	1.4
6	4.4	49	12	26	45	9.7	16	8.8	10	.04	.30	1.1
7	2.5	36	44	20	29	12	14	14	7.4	.03	7.0	.86
8	1.8	25	68	59	20	8.7	12	21	5.5	.03	2.4	.60
9	1.1	18	42	50	15	7.4	10	14	4.4	.03	1.2	.53
10	.54	14	32	333	20	9.1	8.7	8.9	4.0	.03	.43	.43
11	.28	50	26	175	18	18	7.4	11	4.0	.03	.35	28
12	.21	33	35	73	86	154	6.5	32	3.5	.03	.28	21
13	.17	28	26	59	46	60	6.0	12	3.0	.03	.60	10
14	.28	36	18	48	34	51	6.7	7.8	2.8	.03	.60	6.2
15	3.2	23	38	39	37	45	6.8	6.1	2.6	.03	.28	4.2
16	2.5	15	34	29	55	68	5.9	4.7	2.2	.03	.31	3.3
17	2.0	11	24	20	46	69	5.6	4.0	1.4	.03	.24	2.8
18	1.4	9.1	17	22	34	61	11	3.5	.82	.03	.17	2.3
19	1.1	8.0	26	19	24	80	20	2.9	.74	.03	.17	2.3
20	.82	7.0	23	14	16	48	10	2.6	.66	.26	.10	2.1
21	.54	4.9	20	12	13	39	8.3	2.4	.61	13	.07	1.5
22	.43	4.2	16	10	192	34	7.3	2.1	.60	4.6	.03	1.4
23	.35	5.9	14	9.7	502	28	59	2.0	.54	2.4	0	1.2
24	.35	33	65	9.7	141	26	123	1.7	.48	1.3	0	1.0
25	.35	25	41	18	87	22	79	18	.44	.90	14	.90
26	.31	16	29	16	71	18	56	26	.39	.60	22	.74
27	.28	12	21	12	58	41	42	19	.35	.43	11	.74
28	.24	9.6	16	11	48	123	32	13	.28	1.3	6.5	.66
29	8.7	7.8	13	49	-----	345	25	14	.25	1.0	11	.35
30	14	7.4	12	35	-----	78	19	11	.21	.54	8.0	.24
31	7.0	-----	97	120	-----	59	-----	17	-----	.43	4.4	-----
TOTAL	153.25	627.4	916	1,524.4	1,867	1,621.9	764.2	321.2	145.17	53.52	229.83	104.05
MEAN	4.94	20.9	29.5	49.2	66.7	52.3	25.5	10.4	4.84	1.73	7.41	3.47
MAX	37	70	97	333	502	345	123	32	30	26	47	28
MIN	.17	2.3	11	9.7	13	7.4	5.6	1.7	.21	.03	0	.24
CFSM	.30	1.25	1.77	2.95	3.99	3.13	1.53	.62	.29	.10	.44	.21
IN.	.34	1.40	2.04	3.40	4.16	3.61	1.70	.72	.32	.12	.51	.23
CAL YR 1974	TOTAL	11,194.02	MEAN	30.7	MAX	683	MIN	.05	CFSM	1.84	IN	24.94
WTR YR 1975	TOTAL	8,327.92	MEAN	22.8	MAX	502	MIN	0	CFSM	1.37	IN	18.55

## WABASH RIVER BASIN

03342150 West Fork Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°11'10", long 87°19'44", in NW¼NW¼ 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 (2.3 km) upstream from mouth, 1.5 miles (2.4 km) west of Hymera, and 3.7 miles (6.0 km) east of U.S. Highway 41.

DRAINAGE AREA.--14.4 mi<sup>2</sup> (37.3 km<sup>2</sup>).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 476.00 ft (145.085 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--9 years, 14.6 ft<sup>3</sup>/s (0.413 m<sup>3</sup>/s), 13.77 in/yr (350 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft<sup>3</sup>/s (29.2 m<sup>3</sup>/s) Feb. 23, gage height, 11.93 ft (3.636 m); no flow Sept. 8-10.  
Period of record: Maximum discharge, 1,930 ft<sup>3</sup>/s (54.7 m<sup>3</sup>/s) July 26, 1973, gage height, 13.23 ft (4.033 m); no flow at times most years.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.3	10	38	57	13	14	7.4	9.7	.36	.08	.63
2	4.7	6.0	32	19	23	11	12	6.3	20	.32	.08	.40
3	3.2	6.5	27	41	16	10	10	6.1	6.8	.32	.16	.20
4	2.5	84	11	23	16	9.8	8.3	6.1	4.5	.44	1.0	.16
5	1.9	73	9.2	14	30	9.4	8.0	5.3	13	.44	27	.18
6	1.5	14	8.5	13	33	9.8	8.5	7.1	6.5	.53	36	.20
7	1.2	9.0	56	12	13	15	7.1	22	3.7	.44	1.8	.14
8	1.1	7.1	89	72	12	11	6.3	24	3.2	.36	.80	0
9	.86	6.3	22	38	9.4	9.4	6.0	12	2.8	.26	.58	0
10	.53	5.8	14	400	8.5	11	5.8	7.6	2.3	.20	.48	0
11	.36	77	14	104	12	21	5.3	11	2.4	.18	.36	27
12	.40	19	33	25	120	256	4.8	51	2.1	.18	.36	8.6
13	.40	18	16	16	24	32	4.5	13	1.6	.18	.40	1.0
14	1.4	41	13	12	16	22	5.3	9.0	1.5	.18	3.0	.48
15	5.3	12	59	11	27	22	5.8	6.9	1.6	.18	6.3	.29
16	1.6	8.7	26	11	75	93	5.0	5.8	1.3	.18	1.4	.23
17	.92	7.6	15	9.6	29	56	5.1	4.8	1.0	.16	.92	.23
18	.63	6.9	11	17	14	39	12	4.4	.92	.20	.68	.26
19	.58	6.8	27	17	10	84	28	3.8	.86	.36	.74	.63
20	.53	6.8	20	12	8.5	24	8.3	3.8	.80	35	.48	2.0
21	.63	5.5	17	11	8.0	17	6.5	3.7	.80	21	.16	.80
22	.68	4.5	12	11	162	14	5.8	3.3	.99	1.4	.06	.40
23	.74	4.7	11	11	521	11	74	3.2	.86	.68	.04	.20
24	.80	48	57	11	71	29	162	3.0	.74	.58	.02	.16
25	.86	17	26	26	47	12	56	4.7	.68	.48	4.4	.12
26	.86	10	13	20	29	9.8	20	12	.63	.40	21	.08
27	.74	8.9	11	13	19	58	13	10	.58	.29	1.2	.06
28	.74	8.0	11	13	16	210	11	3.0	.48	2.3	.26	.02
29	34	6.9	11	69	-----	336	9.6	5.4	.44	.80	1.9	.02
30	29	7.1	11	23	-----	30	8.3	5.4	.40	.23	4.0	.02
31	10	-----	34	240	-----	18	-----	12	-----	.10	1.5	-----
TOTAL	116.46	543.4	726.7	1,352.6	1,426.4	1,503.2	536.3	283.1	93.18	68.73	117.16	44.51
MEAN	3.76	18.1	23.4	43.6	50.9	48.5	17.9	9.13	3.11	2.22	3.78	1.48
MAX	34	84	89	400	521	336	162	51	20	35	36	27
MIN	.36	4.5	8.5	9.6	8.0	9.4	4.5	3.0	.40	.10	.02	0
CFSM	.26	1.26	1.63	3.03	3.53	3.37	1.24	.63	.22	.15	.26	.10
IN.	.30	1.40	1.88	3.49	3.68	3.88	1.39	.73	.24	.18	.30	.11

CAL YR 1974 TOTAL 9,324.88 MEAN 25.5 MAX 550 MIN 0 CFSM 1.77 IN 24.09  
WTR YR 1975 TOTAL 6,811.74 MEAN 18.7 MAX 521 MIN 0 CFSM 1.30 IN 17.60

PEAK DISCHARGE (BASE, 500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1930	11.40	802	03-12	0615	10.90	637
02-23	0315	11.93	1,030	03-29	0500	11.63	894

## 03342250 Mud Creek near Dugger, Ind.

LOCATION.--Lat 39°06'28", long 87°16'42", in SE¼NE¼ 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 (1.0 km) north of County Road 100 North, 1.7 miles (2.7 km) upstream from mouth, and 2.5 miles (4.0 km) northwest of Dugger.

DRAINAGE AREA.--11.9 mi<sup>2</sup> (30.8 km<sup>2</sup>).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 466.41 ft (142.162 m) above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--9 years, 14.7 ft<sup>3</sup>/s (0.416 m<sup>3</sup>/s), 16.78 in/yr (426 mm/yr).

EXTREMES.--Current year: Maximum discharge, 574 ft<sup>3</sup>/s (16.3 m<sup>3</sup>/s) Feb. 23, gage height, 11.59 ft (3.533 m); minimum daily, 1.7 ft<sup>3</sup>/s (0.048 m<sup>3</sup>/s) Aug. 18.

Period of record: Maximum discharge, 919 ft<sup>3</sup>/s (26.0 m<sup>3</sup>/s) May 30, 1974, gage height, 13.70 ft (4.176 m); minimum daily, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Nov. 22, 1968.

REMARKS.--Records good. Flow affected by surface-mined areas.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	7.7	15	34	27	22	22	17	11	4.3	3.5	5.3
2	8.0	7.2	19	21	21	21	20	14	18	4.0	3.9	4.7
3	7.2	9.0	15	29	17	20	18	15	11	3.9	6.1	4.3
4	6.9	42	12	20	17	19	16	14	9.9	3.8	4.7	4.1
5	6.4	32	10	15	20	19	15	13	20	4.1	3.7	7.9
6	6.2	18	9.6	15	20	19	15	15	11	3.8	3.8	15
7	6.2	13	34	13	16	21	14	20	9.1	3.6	3.1	7.2
8	5.9	11	44	39	14	17	14	28	8.6	3.5	3.0	6.1
9	5.9	9.9	25	31	14	17	14	17	8.2	3.3	2.7	5.4
10	5.7	9.9	19	182	18	19	14	14	8.2	3.2	2.5	5.0
11	5.4	25	19	85	17	20	13	27	9.2	3.1	2.5	12
12	5.4	15	22	28	45	186	13	117	8.5	3.1	2.3	6.7
13	5.4	15	16	21	20	39	13	23	7.9	3.1	2.1	4.1
14	14	22	14	18	17	36	12	17	8.0	3.1	2.2	3.5
15	22	13	24	17	19	32	13	14	8.8	2.9	2.3	3.3
16	10	11	19	16	24	57	12	13	7.9	2.9	2.1	3.6
17	8.0	10	15	15	22	56	13	12	7.8	2.9	1.8	3.3
18	7.2	9.6	13	21	17	39	24	12	7.3	28	1.7	3.2
19	6.7	11	19	18	15	53	32	11	6.8	22	12	5.7
20	6.2	11	15	15	14	30	15	11	6.4	30	3.1	4.5
21	5.7	9.3	13	15	13	25	13	11	9.9	14	2.6	3.2
22	5.7	8.8	12	14	122	22	13	10	6.7	7.6	2.4	3.1
23	5.7	9.0	12	14	251	21	118	10	6.1	6.8	2.4	2.8
24	6.2	46	28	14	68	21	102	10	5.5	5.3	2.4	3.0
25	11	23	18	18	44	18	85	18	5.4	4.5	10	3.2
26	9.6	15	14	14	33	17	31	19	5.1	4.0	8.3	3.6
27	7.7	13	13	13	27	36	22	11	5.1	3.8	3.8	3.6
28	6.9	11	12	13	24	81	20	9.5	4.8	3.5	3.5	3.4
29	11	10	12	21	-----	113	17	10	4.6	3.4	4.0	3.2
30	13	10	11	16	-----	38	17	12	4.3	3.3	6.6	2.7
31	8.8	-----	39	53	-----	26	-----	13	-----	3.3	5.9	-----
TOTAL	249.9	457.4	562.6	858	976	1,160	760	557.5	251.1	198.1	121.0	146.7
MEAN	8.06	15.2	18.1	27.7	34.9	37.4	25.3	18.0	8.37	6.39	3.90	4.89
MAX	22	46	44	182	251	186	118	117	20	30	12	15
MIN	5.4	7.2	9.6	13	13	17	12	9.5	4.3	2.9	1.7	2.7
CFSM	.68	1.28	1.52	2.33	2.93	3.14	2.13	1.51	.70	.54	.33	.41
IN.	.78	1.43	1.76	2.68	3.05	3.63	2.38	1.74	.78	.62	.38	.46

CAL YR 1974 TOTAL 6,745.2 MEAN 18.5 MAX 260 MIN 2.6 CFSM 1.55 IN 21.09  
WTR YR 1975 TOTAL 6,298.3 MEAN 17.3 MAX 251 MIN 1.7 CFSM 1.45 IN 19.69



03342360 Buttermilk Creek near Sullivan, Ind.

LOCATION.--Lat 39°03'58", long 87°21'32", in NW¼NE¼ sec.12, T.7 N., R.9 W., Sullivan County, on right bank at downstream side of bridge on County Road 275 East, 3.8 miles (6.1 km) east of Sullivan, and 2.0 miles (3.2 km) upstream from mouth.

DRAINAGE AREA.--17.6 mi<sup>2</sup> (45.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.35 ft (136.047 m) above mean sea level (U.S. Soil Conservation Service bench mark).

EXTREMES.--Current year: Maximum discharge, 556 ft<sup>3</sup>/s (15.7 m<sup>3</sup>/s) Feb. 23, gage height, 9.75 ft (2.972 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 28.

Period of record: Maximum discharge, 556 ft<sup>3</sup>/s (15.7 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 9.75 ft (2.972 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 28, 1975.

REMARKS.--Records fair. Flow affected by surface-mined areas.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.4	23	69	53	31	41	26	19	2.8	5.0	4.0
2	14	7.8	43	31	37	27	34	19	39	2.4	5.4	4.6
3	11	8.4	32	71	27	21	29	17	20	2.6	4.8	5.2
4	9.5	120	18	37	30	18	25	17	16	2.5	5.0	4.0
5	8.0	47	14	26	36	15	23	14	38	2.8	4.8	7.7
6	7.4	32	14	25	33	14	22	14	18	2.5	5.8	5.8
7	6.8	20	65	21	27	19	19	12	13	2.3	3.9	2.0
8	6.3	14	108	79	16	16	14	24	9.2	2.2	1.9	2.2
9	6.0	9.0	32	63	16	13	14	19	11	2.2	2.8	3.2
10	5.8	8.2	24	295	11	19	14	14	11	2.1	4.2	3.9
11	5.5	60	22	150	22	24	11	18	12	2.0	3.0	22
12	5.3	23	37	65	106	330	12	229	8.7	2.0	4.0	8.5
13	5.1	33	25	50	30	121	10	73	7.3	1.9	4.2	6.4
14	16	56	18	37	20	84	9.0	38	6.2	1.9	5.0	3.0
15	51	18	48	30	29	58	10	28	5.0	1.9	4.6	4.6
16	10	12	31	26	55	140	10	23	6.6	1.9	4.6	5.2
17	8.1	11	21	32	36	108	11	16	7.5	1.9	2.2	4.8
18	7.2	7.7	18	31	24	76	14	14	6.2	15	3.4	4.4
19	6.6	10	38	24	20	121	55	12	5.4	11	3.0	9.0
20	6.0	18	23	23	15	52	18	8.5	5.8	39	5.0	6.2
21	5.6	12	16	14	12	37	14	7.3	5.4	42	4.4	2.8
22	5.5	9.0	14	14	187	29	12	6.4	4.2	13	4.2	4.8
23	5.5	8.2	15	11	389	24	162	5.8	5.6	10	4.4	4.4
24	5.8	107	61	12	130	23	173	7.7	5.0	7.7	4.0	4.4
25	10	35	37	23	90	18	170	6.0	3.4	7.7	11	5.2
26	9.4	18	20	14	65	15	81	14	4.6	7.5	20	3.5
27	7.6	17	16	9.8	50	36	50	11	5.0	4.8	5.8	2.0
28	6.8	14	14	9.8	39	143	40	8.2	3.9	5.6	4.4	1.8
29	10	13	15	39	-----	205	31	17	2.5	5.4	4.2	4.2
30	40	12	14	21	-----	119	26	20	2.2	5.2	5.6	2.6
31	30	-----	94	140	-----	81	-----	25	-----	4.2	4.4	-----
TOTAL	351.8	767.7	970	1,492.6	1,605	2,037	1,154.0	763.9	306.7	216.0	155.0	152.4
MEAN	11.3	25.6	31.3	48.1	57.3	65.7	38.5	24.6	10.2	6.97	5.00	5.08
MAX	51	120	108	295	389	330	173	229	39	42	20	22
MIN	5.1	7.4	14	9.8	11	13	9.0	5.8	2.2	1.9	1.9	1.8
CFSM	.64	1.45	1.78	2.73	3.26	3.73	2.19	1.40	.58	.40	.28	.29
IN.	.74	1.62	2.05	3.15	3.39	4.31	2.44	1.61	.65	.46	.33	.32

WTR YR 1975 TOTAL 9,972.1 MEAN 27.3 MAX 389 MIN 1.8 CFSM 1.55 IN 21.08



## 03342500 Busseron Creek near Carlisle, Ind.

LOCATION.--Lat 38°58'26", long 87°25'33", in NW¼ survey 17, Vincennes Tract, Sullivan County, on left bank 10 ft (3 m) downstream from bridge on State Highway 58, 1.5 miles (2.4 km) northwest of Carlisle, and 7.2 miles (11.6 km) (revised) upstream from mouth.

DRAINAGE AREA.--228 mi<sup>2</sup> (591 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 425.36 ft (129.650 m) above mean sea level (Indiana State Highway Commission 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 (61 m) upstream at same datum.

AVERAGE DISCHARGE.--32 years, 220 ft<sup>3</sup>/s (6.230 m<sup>3</sup>/s), 13.10 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,910 ft<sup>3</sup>/s (82.4 m<sup>3</sup>/s) Feb. 23, gage height, 15.03 ft (4.581 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) July 3, Aug. 25.

Period of record: Maximum discharge, 8,800 ft<sup>3</sup>/s (249 m<sup>3</sup>/s) Jan. 5, 1950, gage height, 20.05 ft (6.111 m); maximum gage height, 20.30 ft (6.187 m) May 9, 1961; no flow many days in 1954.

REMARKS.--Records good. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures and surface-mined areas.

REVISIONS.--WSP 1335: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	653	168	205	1,130	1,130	603	1,390	214	235	15	21	32
2	254	186	367	864	853	440	674	173	261	11	21	24
3	175	194	551	631	432	356	431	149	253	10	21	20
4	137	667	380	601	374	320	323	145	127	11	53	16
5	110	1,040	282	384	425	269	269	128	323	31	68	14
6	91	825	238	312	529	242	242	111	193	19	101	63
7	76	483	321	302	360	252	220	209	105	22	66	25
8	69	352	1,020	452	246	209	191	252	76	20	30	16
9	64	225	827	951	195	161	142	318	63	17	21	14
10	61	180	430	1,380	171	167	135	187	57	16	18	12
11	58	553	386	2,120	185	215	124	143	58	15	16	101
12	56	612	508	1,850	782	1,790	114	1,070	61	14	16	252
13	51	448	469	1,790	764	1,860	106	1,020	48	14	16	87
14	61	676	304	1,340	403	1,770	102	386	43	14	16	43
15	389	474	407	600	341	1,400	106	225	39	13	24	29
16	241	269	615	399	655	1,150	103	168	39	13	23	23
17	147	209	431	302	672	1,250	104	136	37	14	17	21
18	110	188	324	284	446	1,200	107	116	34	130	12	19
19	88	226	410	367	338	1,300	527	100	29	100	18	26
20	74	243	412	277	248	1,140	332	82	26	320	19	43
21	62	212	279	261	206	678	176	73	32	350	16	30
22	58	180	226	238	558	463	145	65	33	120	13	19
23	57	169	207	219	2,630	378	562	58	26	85	12	18
24	56	484	423	212	2,750	345	1,340	57	25	72	11	16
25	56	774	562	236	2,810	317	1,590	56	25	63	10	15
26	70	442	363	315	2,660	247	1,570	174	28	53	139	16
27	59	315	268	220	1,930	253	1,040	126	23	40	83	14
28	56	216	201	215	1,160	1,020	436	88	21	34	33	11
29	84	174	180	330	-----	1,680	309	95	18	31	32	11
30	375	156	180	519	-----	1,630	239	130	16	29	75	13
31	256	-----	510	902	-----	1,690	-----	140	-----	25	61	-----
TOTAL	4,154	11,340	12,286	20,003	24,253	24,795	13,149	6,394	2,354	1,721	1,082	1,043
MEAN	134	378	396	645	866	800	438	206	78.5	55.5	34.9	34.8
MAX	653	1,040	1,020	2,120	2,810	1,860	1,590	1,070	323	350	139	252
MIN	51	156	180	212	171	161	102	56	16	10	10	11
CFSM	.59	1.66	1.74	2.83	3.80	3.51	1.92	.90	.34	.24	.15	.15
IN.	.68	1.85	2.00	3.26	3.96	4.05	2.15	1.04	.38	.28	.18	.17

CAL YR 1974 TOTAL 151,360 MEAN 415 MAX 2,740 MIN 12 CFSM 1.82 IN 24.70  
WTR YR 1975 TOTAL 122,574 MEAN 336 MAX 2,810 MIN 10 CFSM 1.47 IN 20.00

PEAK DISCHARGE (BASE, 2,200 FT<sup>3</sup>/S).--Jan. 11 (0500) 2,220 ft<sup>3</sup>/s (13.62 ft); Feb. 23 (2300) 2,910 ft<sup>3</sup>/s (15.03 ft).

03342800 South Fork Smalls Creek at Bruceville, Ind.

LOCATION.--Lat 38°44'49", long 87°25'44", in the south corner of donation 183, T.4 N., R.9 W., Knox County, on right bank at downstream side of bridge on State Highway 67, 1.0 mile (1.6 km) southwest of Bruceville, 1.6 miles (2.6 km) upstream from mouth, and 6.0 miles (9.7 km) northeast of Vincennes.

DRAINAGE AREA.--4.94 mi<sup>2</sup> (12.79 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: May 1972 to September 1973 (fragmentary). October 1973 to June 1975 (discontinued).  
CHEMICAL ANALYSES: October 1973 to June 1975 (discontinued).

GAGE.--Water-stage recorder and multi-parameter monitors. Datum of gage is 440.00 ft (134.112 m) above mean sea level.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.3	5.2	27	22	6.4	11	5.8	3.4			
2	3.3	1.1	10	13	13	5.5	6.1	5.2	3.3			
3	2.4	6.7	7.6	24	10	5.0	5.5	4.6	2.9			
4	1.7	154	5.4	13	9.7	4.7	4.9	4.0	2.9			
5	1.4	44	4.3	8.0	10	4.4	4.2	3.3	104			
6	1.1	17	4.3	6.8	8.6	4.3	3.7	3.1	14			
7	1.0	9.3	34	5.6	7.0	7.5	3.7	2.6	5.8			
8	.90	5.8	39	47	5.8	5.7	3.5	13	3.1			
9	.98	4.3	17	26	4.5	5.5	3.1	2.7	2.0			
10	1.4	4.4	8.2	125	4.0	6.7	3.1	1.8	1.5			
11	1.3	27	9.4	49	6.8	40	3.1	2.2	3.1			
12	1.5	12	16	22	13	260	2.9	1.7	1.1			
13	1.7	9.7	7.2	13	9.0	36	2.6	1.4	.50			
14	4.9	8.3	5.8	8.2	8.2	20	2.2	1.5	.37			
15	7.0	5.8	16	6.3	8.2	15	2.2	1.1	.30			
16	3.8	4.4	11	5.2	12	27	2.0	1.0	.25			
17	2.7	3.7	7.4	6.4	12	15	2.0	.82	6.8			
18	1.4	3.1	6.3	6.8	8.0	26	2.4	.70	6.4			
19	1.1	4.4	9.9	4.9	6.0	33	5.8	.62	1.5			
20	.85	4.4	6.0	4.3	4.5	15	3.1	.56	.87			
21	.71	3.1	5.7	3.1	3.6	10	2.7	.52	.59			
22	.69	2.4	4.5	2.9	108	8.0	2.2	.48	.45			
23	.61	2.2	5.4	2.9	175	7.0	18	.46	.34			
24	.62	14	20	3.1	35	10	51	.60	.26			
25	1.5	7.4	11	4.9	25	7.0	70	1.4	.21			
26	1.4	4.9	6.0	3.8	15	5.0	20	1.2	.22			
27	1.0	4.3	4.9	3.3	9.0	64	15	1.0	.32			
28	.80	4.1	4.2	4.0	7.4	101	10	.92	.22			
29	3.5	3.3	4.2	16	-----	94	6.8	2.4	.19			
30	2.6	3.4	3.6	9.0	-----	24	5.8	2.4	.17			
31	1.9	-----	57	42	-----	16	-----	5.2	-----			
TOTAL	59.76	379.8	356.5	516.5	560.3	888.7	278.6	74.28	167.06			
MEAN	1.93	12.7	11.5	16.7	20.0	28.7	9.29	2.40	5.57			
MAX	7.0	154	57	125	175	260	70	13	104			
MIN	.61	1.1	3.6	2.9	3.6	4.3	2.0	.46	.17			
CFSM	.39	2.57	2.33	3.38	4.05	5.81	1.88	.49	1.13			
IN.	.45	2.86	2.68	3.89	4.22	6.69	2.10	.56	1.26			

CAL YR 1974 TOTAL 3,313.06 MEAN 9.08 MAX 154 MIN 0 CFSM 1.84 IN 24.95

PEAK DISCHARGE (BASE, 250 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	0815	9.97	473	03-12	0100	10.86	732
01-08	1415	8.95	278	03-28	2400	9.91	450
02-22	1415	9.38	348	04-25	0115	8.78	253
02-23	0115	10.04	490	06-05	1230	10.42	594

## 03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 732 ft<sup>3</sup>/s (20.7 m<sup>3</sup>/s) Mar. 12, gage height, 10.86 ft (3.310 m); minimum daily, 0.17 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) June 30.  
 Period of record: Maximum discharge, 732 ft<sup>3</sup>/s (20.7 m<sup>3</sup>/s) Mar. 12, 1975, gage height, 10.86 ft (3.310 m); maximum gage height, 11.34 ft (3.456 m) Sept. 10, 1974; no flow at times in 1974.

SPECIFIC CONDUCTANCE, Current year: Maximum, 7,100 micromhos (observed) May 21; minimum, 210 micromhos Mar. 12.  
 Period of record: Maximum, 15,700 micromhos Nov. 24, 1973; minimum, 204 micromhos Mar. 12, 1975.

pH, Current year: Maximum, 6.4 units (observed) May 21; minimum, 3.0 units (observed) June 5.  
 Period of record: Maximum, 6.4 units (observed) May 21, 1975; minimum, 1.6 units Aug. 2, 1974.

REMARKS.--Discharge records good above 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) and poor below. Chemical records poor.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	PH (UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
01...	1000	4.0	12.5	300	4.8	900	6.1	303	0	0	68	0
10...	1045	.98	13.0	300	3.2	2280	23	1140	0	0	98	0
18...	1330	1.4	17.0	500	3.8	1400	13	646	0	0	100	0
26...	1345	1.2	15.0	500	3.6	1640	14	695	0	0	100	0
30...	1200	2.3	16.0	400	3.8	1650	15	745	0	0	110	0
NOV.												
06...	1815	13	12.0	300	4.6	970	9.0	447	0	0	76	0
14...	1000	--	6.0	--	5.2	500	7.4	367	--	--	--	--
20...	1315	4.8	11.0	400	4.8	1060	8.9	442	0	0	89	0
27...	0910	--	5.0	--	5.7	600	8.2	407	--	--	--	--
DEC.												
06...	1020	--	4.0	--	5.7	500	12	596	--	--	--	--
23...	1415	4.0	9.5	500	2.5	2230	10	497	0	0	85	0
JAN.												
02...	1010	--	2.0	--	5.9	500	9.8	487	--	--	--	--
08...	1130	5.9	8.5	300	4.2	2610	16	794	0	0	95	0
16...	1330	4.5	4.5	200	3.7	3250	27	1340	0	0	300	0
30...	1515	8.1	6.0	200	4.7	1140	9.8	487	0	0	81	0
FEB.												
02...	0915	--	13.0	190	2.9	1900	29	1440	0	0	110	0
20...	1030	4.7	3.0	400	4.8	1510	19	943	0	0	92	0
28...	1345	7.5	10.0	100	3.2	1750	21	1040	0	0	90	0
MAR.												
12...	1130	96	5.5	400	3.5	780	4.6	228	0	0	38	0
18...	1615	10	10.0	100	3.2	1650	18	894	0	0	75	0
APR.												
02...	1045	6.1	12.0	180	3.5	1760	23	1140	0	0	90	0
17...	1200	2.1	19.5	180	3.6	1750	17	844	0	0	76	0
22...	1530	2.0	23.0	210	4.4	1060	7.5	372	0	0	70	0
MAY												
08...	1315	8.1	16.0	1	3.5	1130	10	497	0	0	72	0
14...	1215	1.4	22.0	--	3.8	1960	14	695	0	0	81	0
21...	1745	4.8	26.0	82	6.4	660	.4	20	4	5	64	0
30...	0910	--	22.0	--	2.8	2800	42	2090	0	0	140	0
JUNE												
05...	1345	442	21.0	90	5.8	240	.0	.0	6	7	25	0
13...	0950	--	20.0	130	2.3	1900	19	943	0	0	92	0
19...	0915	2.0	23.5	120	4.1	1300	13	646	0	0	75	0
24...	1530	.34	27.5	13	5.1	1600	15	745	0	0	89	0
JULY												
03...	0940	--	22.0	5	2.3	1800	16	794	0	0	110	0

03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL RESI- DUE (MG/L)	SUS- PENDE D SOLIDS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.											
01...	12	270	270	450	13000	140000	25	3600	1020	326	.0
10...	14	430	430	1700	40000	460000	46	90	2700	300	.0
18...	17	410	410	860	28000	320000	40	6500	--	440	.0
26...	19	420	420	970	27000	300000	42	6800	1810	402	.0
30...	20	470	470	1100	26000	320000	48	7000	1990	454	.0
NOV.											
06...	13	280	280	520	17000	180000	23	3500	1180	428	.0
14...	--	--	--	500	--	160000	--	--	--	325	--
20...	17	360	360	660	18000	180000	34	4500	1280	390	.0
27...	--	--	--	560	--	160000	--	--	--	315	--
DEC.											
06...	--	--	--	640	--	190000	--	--	--	320	--
23...	16	380	380	860	22000	260000	40	5600	1480	349	.0
JAN.											
02...	--	--	--	580	--	65000	--	--	--	357	--
08...	15	390	390	940	29000	300000	37	5600	1700	354	.0
16...	14	1200	1200	1800	55000	560000	100	7000	2910	248	.0
30...	16	310	310	830	23000	200000	26	4800	1600	586	.0
FEB.											
02...	19	450	450	1300	40000	260000	42	40	2560	376	.0
20...	15	410	410	1100	31000	330000	43	6600	1860	463	.0
28...	13	360	360	1400	40000	380000	33	5200	2160	340	.0
MAR.											
12...	6.4	140	140	310	24000	110000	11	1800	1800	1490	.0
18...	12	300	300	990	38000	330000	28	4000	1900	420	.0
APR.											
02...	13	360	360	1300	46000	410000	34	5200	2290	459	.0
17...	16	320	320	950	40000	340000	32	6000	1800	274	.0
22...	14	280	280	640	19000	160000	26	2000	1050	264	.0
MAY											
08...	14	280	280	650	220000	2400000	24	3000	1680	568	.0
14...	16	350	350	930	38000	270000	37	5000	1650	278	.0
21...	14	260	260	250	3500	23000	25	3000	455	56	3.2
30...	22	570	570	2100	50000	690000	53	12000	2150	285	.0
JUNE											
05...	4.1	80	74	82	56000	84000	4.3	5500	6010	5370	18
13...	16	330	330	1100	31000	380000	25	8600	1090	310	.0
19...	13	310	310	760	21000	240000	30	5600	1220	236	.0
24...	15	330	330	850	1800	250000	25	7000	1600	48	.0
JULY											
03...	17	430	430	890	28000	250000	38	7600	918	2	.0

03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	CAR- BONATE (CO3) (MG/L)
JULY 10...	0935	21.0	9	3.3	2220	19	943	0	0	110	0

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL RESI- DUE (MG/L)	SUS- PENDE D SOLIDS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 10...	18	440	440	1200	29000	300000	40	10000	2040	37	.0

03343000 Wabash River at Vincennes, Ind.

LOCATION.--Lat 38°42'26", long 87°31'10", in NW¼SW¼ 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 (7.9 km) downstream from Maria Creek, 7.7 miles (12.4 km) upstream from Embarras River, and at mile 129.8 (208.8 km).

DRAINAGE AREA.--13,706 mi<sup>2</sup> (35,498 km<sup>2</sup>).

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 (3.4 km) downstream, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 394.43 ft (120.222 m) above mean sea level. Oct. 1, 1960, to September 30, 1968, nonrecording gage at site 2.1 miles (3.4 km) downstream at same datum. Oct. 1, 1960, to Sept. 30, 1968, auxiliary water-stage recorder at site 2.6 miles (4.2 km) upstream from base gage at datum 0.80 ft (0.244 m) lower. See WSP 1725 for history of changes prior to Oct. 1, 1960.

AVERAGE DISCHARGE.--46 years, 11,780 ft<sup>3</sup>/s (334.2 m<sup>3</sup>/s), 11.67 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 49,600 ft<sup>3</sup>/s (1,400 m<sup>3</sup>/s) Mar. 2, gage height, 20.64 ft (6.291 m); minimum daily, 3,260 ft<sup>3</sup>/s (92.3 m<sup>3</sup>/s) Oct. 13.

Period of record: Maximum discharge, 189,000 ft<sup>3</sup>/s (5,350 m<sup>3</sup>/s) May 22, 23, 1943, gage height, 29.33 ft (8.940 m), present datum; minimum daily, 770 ft<sup>3</sup>/s (21.8 m<sup>3</sup>/s) Aug. 4, 5, 1934.

Flood of Mar. 29, 1913, reached a stage of 26.3 ft (8.02 m), present datum, from floodmarks, determined by Corps of Engineers, discharge, 255,000 ft<sup>3</sup>/s (7,220 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955. WRD Ind. 1973: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,990	5,280	6,300	19,600	29,600	49,000	31,000	23,600	16,600	20,400	4,510	14,900
2	5,150	5,240	6,510	19,600	31,600	49,200	29,600	25,700	17,200	17,200	4,330	18,300
3	4,420	5,240	7,040	19,100	32,600	48,300	26,800	24,700	17,600	14,800	4,380	17,900
4	4,070	6,670	7,110	19,400	33,400	46,300	23,200	23,300	16,700	12,900	4,750	15,000
5	3,830	9,600	6,650	18,900	33,300	42,700	20,600	21,000	16,100	11,400	7,080	12,300
6	3,720	9,430	6,030	17,900	32,100	37,800	19,500	19,200	17,300	10,300	7,660	10,500
7	3,620	8,520	5,900	16,200	30,200	33,500	18,500	17,600	16,400	9,600	6,970	8,860
8	3,540	7,820	8,060	14,900	28,200	29,800	17,200	16,900	15,700	9,020	7,150	7,800
9	3,450	7,440	8,950	17,600	26,000	26,900	15,800	16,100	14,700	8,660	7,220	7,800
10	3,390	7,320	8,110	22,600	22,900	25,000	14,500	14,800	13,700	8,640	6,230	8,180
11	3,350	8,450	8,160	29,900	19,500	24,600	13,400	13,400	12,800	8,350	5,350	8,350
12	3,300	10,000	8,930	32,800	17,900	30,300	12,600	13,500	13,000	7,700	4,880	8,020
13	3,260	9,140	11,000	34,600	17,700	33,900	11,800	14,200	14,100	7,040	4,620	7,460
14	3,280	9,290	12,300	36,800	16,000	34,100	11,100	12,600	14,900	6,690	4,880	8,690
15	3,770	9,860	12,300	38,900	14,200	33,000	10,600	11,100	15,800	6,440	5,540	9,910
16	4,070	9,140	12,300	41,200	14,100	30,800	10,200	10,200	17,800	6,100	5,500	10,300
17	3,940	8,660	12,800	41,900	15,800	27,800	9,860	9,860	20,400	5,830	6,280	9,260
18	3,870	8,260	13,900	41,200	16,000	24,000	9,530	10,300	22,400	5,760	8,980	7,990
19	3,830	8,140	15,100	37,900	16,700	23,500	10,200	10,000	24,200	6,280	8,780	7,110
20	3,810	8,660	15,900	32,900	18,800	24,600	11,100	9,430	25,600	10,100	8,230	6,720
21	3,960	8,780	15,700	27,500	20,700	23,200	11,200	11,500	26,600	18,100	7,020	6,740
22	4,070	8,540	14,600	23,200	22,700	21,600	10,800	12,500	27,000	14,700	6,050	6,740
23	4,050	8,090	13,400	19,500	30,900	20,800	10,600	10,600	26,400	11,000	5,190	6,690
24	4,030	8,260	12,800	16,100	36,600	20,500	15,200	14,200	23,800	9,310	4,600	6,510
25	4,070	8,980	12,900	14,400	39,400	19,800	24,400	17,900	22,600	7,920	4,490	6,300
26	4,090	8,180	13,400	14,800	42,500	18,700	28,200	20,500	22,900	6,790	4,880	6,120
27	4,180	7,440	15,100	16,800	45,600	17,700	28,500	22,700	22,500	6,140	4,980	5,920
28	4,200	6,920	17,100	18,600	47,900	19,900	28,000	20,400	23,500	5,740	7,040	5,720
29	4,250	6,530	18,000	18,700	-----	27,100	26,600	23,200	24,500	5,480	7,300	5,540
30	4,750	6,300	17,600	20,000	-----	30,400	24,800	20,300	23,700	5,170	7,060	5,350
31	5,350	-----	16,700	25,000	-----	31,100	-----	17,100	-----	4,880	8,380	-----
TOTAL	125,660	240,180	360,650	768,500	752,900	925,900	535,390	508,390	586,500	288,440	190,310	266,980
MEAN	4,054	8,006	11,630	24,790	26,890	29,870	17,850	16,400	19,550	9,305	6,139	8,899
MAX	6,990	10,000	18,000	41,900	47,900	49,200	31,000	25,700	27,000	20,400	8,980	18,300
MIN	3,260	5,240	5,900	14,400	14,100	17,700	9,530	9,430	12,800	4,880	4,330	5,350
CFSM	.30	.58	.85	1.81	1.96	2.18	1.30	1.20	1.43	.68	.45	.65
IN.	.34	.65	.98	2.09	2.04	2.51	1.45	1.38	1.59	.78	.52	.72
CAL YR 1974	TOTAL 7,306,610	MEAN 20,020	MAX 73,500	MIN 3,260	CFSM 1.46	IN 19.83						
WTR YR 1975	TOTAL 5,549,800	MEAN 15,200	MAX 49,200	MIN 3,260	CFSM 1.11	IN 15.06						



03346000 North Fork Embarras River near Oblong, Ill.

LOCATION.--Lat 39°00'01", long 87°56'42", in NE¼SW¼ sec.35, T.7 N., R.14 W., Crawford County, at upstream side of pier of bridge on county highway, 200 ft (61 m) downstream from Illinois Central Gulf Railroad bridge, 2 miles (3 km) west of Oblong, and 7.8 miles (12.6 km) upstream from mouth.

DRAINAGE AREA.--319 mi<sup>2</sup> (826 km<sup>2</sup>).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft (139.047 m) 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 (1.3 km) upstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1964, to Oct. 8, 1971, water-stage recorder at site 0.8 mile (1.3 km) upstream at present datum.

AVERAGE DISCHARGE.--35 years, 257 ft<sup>3</sup>/s (7.278 m<sup>3</sup>/s), 10.94 in/yr (278 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,440 ft<sup>3</sup>/s (267 m<sup>3</sup>/s) Feb. 23, gage height, 18.34 ft (5.590 m); minimum, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Sept. 30.

Period of record: Maximum discharge, 27,100 ft<sup>3</sup>/s (767 m<sup>3</sup>/s) Jan. 4, 1950, gage height, 24.38 ft (7.431 m), present datum, from rating curve extended above 16,000 ft<sup>3</sup>/s (453 m<sup>3</sup>/s); no flow for many days in 1953-54, 1964.

REMARKS.--Records good except those for winter periods, which are poor.

REVISIONS.--WRD Ill. 1974: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	115	70	1860	3000	245	353	716	344	53	34	129
2	143	75	143	1490	1500	188	248	613	232	45	31	74
3	95	59	359	688	900	151	201	297	261	40	38	52
4	73	346	251	1010	600	134	170	236	174	38	191	42
5	60	1530	135	489	800	127	136	227	326	48	145	42
6	52	1400	104	283	500	124	120	187	997	293	55	65
7	44	385	263	254	400	145	109	525	300	76	34	28
8	40	180	1290	506	300	176	101	1070	151	49	25	23
9	38	124	1060	1770	250	143	96	1050	113	39	21	21
10	33	100	277	2650	200	124	91	488	97	33	19	19
11	30	840	200	6000	173	174	89	254	426	30	17	146
12	28	1360	584	6000	303	2070	84	571	1150	35	16	148
13	27	504	915	3000	380	3610	76	1030	496	115	15	70
14	35	967	385	1500	253	2030	71	362	191	51	25	39
15	78	796	273	900	226	469	70	235	183	35	371	24
16	91	272	392	700	767	335	74	195	144	30	247	20
17	77	164	313	500	1210	289	72	162	113	25	77	17
18	52	130	207	400	1290	277	97	142	95	317	39	17
19	40	112	279	800	613	1480	336	129	83	597	26	18
20	33	106	397	600	372	1640	355	453	74	1760	47	18
21	29	94	504	500	281	433	135	582	66	2170	171	46
22	26	79	417	400	831	273	95	203	60	1880	51	31
23	25	69	234	350	6840	210	324	140	55	358	28	21
24	24	128	534	300	6550	177	1450	121	66	156	20	17
25	23	322	942	1000	3360	170	2480	115	292	109	16	15
26	24	192	362	600	1150	137	2590	137	116	85	288	14
27	23	115	203	500	497	154	669	274	163	69	377	14
28	22	89	174	400	306	1380	324	298	220	57	120	13
29	25	75	163	1500	---	3380	260	150	92	49	73	13
30	122	64	171	1200	---	3330	231	115	66	45	455	12
31	198	---	623	2500	---	1400	---	168	---	40	454	---
TOTAL	2173	10792	12224	40650	33852	24975	11507	11245	7146	8727	3526	1208
MEAN	70.1	360	394	1311	1209	806	384	363	238	282	114	40.3
MAX	563	1530	1290	6000	6840	3610	2590	1070	1150	2170	455	148
MIN	22	59	70	254	173	124	70	115	55	25	15	12
CFSM	.22	1.13	1.24	4.11	3.79	2.53	1.20	1.14	.75	.88	.36	.13
IN.	.25	1.26	1.43	4.74	3.95	2.91	1.34	1.31	.83	1.02	.41	.14

CAL YR 1974 TOTAL 198850.2 MEAN 545 MAX 5580 MIN 6.3 CFSM 1.71 IN 23.19  
WTR YR 1975 TOTAL 168025.0 MEAN 460 MAX 6840 MIN 12 CFSM 1.44 IN 19.59

PEAK DISCHARGE (BASE, 4,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1245	17.60	7,050	03-29	2300	16.30	4,090
02-23	1445	18.34	9,440				

## 03346900 Prairie Creek Reservoir near Muncie, Ind.

LOCATION.--Lat 40°08'46", long 85°17'35", in NE¼NE¼ sec.32, T.20 N., R.11 E., Delaware County, at intake tower of reservoir on Prairie Creek, 0.3 mile (0.5 km) above mouth, and 5.8 miles (9.3 km) southeast of Muncie.

DRAINAGE AREA.--16.8 mi<sup>2</sup> (43.5 km<sup>2</sup>).

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 (610 mm) valves. Capacity at uncontrolled spillway elevation, 990 ft (301.8 m) is 22,100 acre-ft (27.2 hm<sup>3</sup>). Reservoir is used for low-flow augmentation of the water supply for Muncie 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 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
Sept. 30.....	990.0	21,850	-
Oct. 31.....	989.2	20,860	-990
Nov. 30.....	989.6	21,350	+490
Dec. 31.....	990.1	21,980	+630
Calendar year 1974.....	-	-	+130
Jan. 31.....	990.3	22,230	+250
Feb. 28.....	990.5	22,480	+250
Mar. 31.....	990.7	22,740	+260
Apr. 30.....	990.3	22,230	-510
May 31.....	990.2	22,100	-130
June 30.....	990.0	21,850	-250
July 31.....	989.8	21,600	-250
Aug. 31.....	989.4	21,100	-500
Sept. 30.....	989.0	20,610	-490
Water year 1975.....	-	-	-1,240

## 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 (4.8 km) upstream from White River at Muncie (03347000) and returned at sewage disposal plant 3.9 miles (6.3 km) downstream from station.

Diversion, monthly and yearly means in ft<sup>3</sup>/s

1974													1975
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
19.5	16.7	16.9	19.3	17.9	14.5	16.9	16.6	18.5	17.3	19.2	19.1	18.2	17.6

03347000 White River at Muncie, Ind.

LOCATION.--Lat 40°12'15", long 85°23'14", in SE¼NW¼ Hackley Reserve, Delaware County, on right bank 200 ft (61 m) downstream from Walnut Street bridge in Muncie, 6 miles (10 km) upstream from Bell Creek, and at mile 315.8 (508.1 km).

DRAINAGE AREA.--241 mi<sup>2</sup> (624 km<sup>2</sup>).

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 (279.532 m) 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 (0.914 m) higher.

AVERAGE DISCHARGE.--44 years (1931 to current year), 208 ft<sup>3</sup>/s (5.891 m<sup>3</sup>/s), 11.71 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,420 ft<sup>3</sup>/s (182 m<sup>3</sup>/s) Feb. 24, gage height, 10.65 ft (3.246 m); minimum daily, 6.3 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Aug. 23.

Period of record: Maximum discharge, 14,300 ft<sup>3</sup>/s (405 m<sup>3</sup>/s) Apr. 21, 1964; maximum gage height, 21.07 ft (6.422 m) Jan. 15, 1937, present datum; minimum daily discharge, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Sept. 16, 17, 23-25, 1954, and Oct. 10, 1956. Maximum stage known, 22.6 ft (6.69 m) in March 1913, present datum, discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	21	36	711	523	392	403	531	145	41	17	28
2	13	20	40	470	422	330	327	426	125	39	20	20
3	11	24	31	326	352	279	295	341	121	30	45	17
4	12	35	29	312	309	241	244	299	109	37	49	12
5	16	82	19	258	316	221	215	250	112	40	34	8.7
6	15	84	25	219	631	207	199	221	212	37	58	7.5
7	12	52	50	197	473	388	183	201	209	48	27	10
8	13	37	312	381	345	418	173	180	138	41	19	11
9	15	31	414	1,130	300	309	162	162	99	36	17	8.3
10	16	30	244	1,020	370	266	153	153	80	27	17	7.5
11	14	28	173	1,720	363	238	145	143	94	22	36	13
12	14	22	191	947	223	627	143	156	105	20	32	19
13	19	25	299	475	170	768	135	148	92	23	28	30
14	24	41	309	340	153	469	125	130	99	22	27	19
15	21	48	330	360	156	345	118	121	103	17	33	12
16	11	44	680	241	226	295	116	116	88	14	28	12
17	23	40	449	170	736	309	116	112	84	11	25	14
18	24	31	285	186	1,600	700	133	99	68	14	19	15
19	25	29	223	196	961	1,870	188	88	53	19	12	16
20	17	29	180	171	571	1,320	170	80	48	22	12	23
21	16	42	164	139	429	665	138	72	44	16	10	23
22	18	40	152	141	485	473	118	86	44	10	7.9	19
23	23	37	156	124	3,560	367	148	84	37	14	6.3	16
24	25	40	413	124	5,580	352	736	128	33	29	6.9	13
25	28	36	545	301	2,510	327	908	135	50	29	7.9	10
26	33	41	348	591	955	275	1,060	109	199	22	10	11
27	31	40	238	335	627	235	617	99	167	19	12	13
28	29	41	196	239	489	256	949	80	114	17	15	17
29	27	37	171	997	-----	1,510	816	72	74	17	55	16
30	28	34	163	1,200	-----	1,140	506	84	53	16	31	12
31	28	-----	216	668	-----	576	-----	116	-----	15	32	-----
TOTAL	614	1,141	7,081	14,689	23,835	16,168	9,739	5,022	2,999	764	749.0	453.0
MEAN	19.8	38.0	228	474	851	522	325	162	100	24.6	24.2	15.1
MAX	33	84	680	1,720	5,580	1,870	1,060	531	212	48	58	30
MIN	11	20	19	124	153	207	116	72	33	10	6.3	7.5
CFSM	.08	.16	.95	1.97	3.53	2.17	1.35	.67	.41	.10	.10	.06
IN.	.09	.18	1.09	2.27	3.68	2.50	1.50	.78	.46	.12	.12	.07

CAL YR 1974 TOTAL 75,360.4 MEAN 206 MAX 2,930 MIN 7.3 CFSM .85 IN 11.63  
WTR YR 1975 TOTAL 83,254.0 MEAN 228 MAX 5,580 MIN 6.3 CFSM .95 IN 12.85

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S).--Feb. 24 (0400) 6,420 ft<sup>3</sup>/s (10.65 ft).

## WABASH RIVER BASIN

145

03347500 Buck Creek near Muncie, Ind.

LOCATION.--Lat 40°08'05", long 85°22'25", in SW¼SE¼ sec.34, T.20 N., R.10 E., Delaware County, on left bank at downstream side of highway bridge, 1.0 mile (1.6 km) upstream from Muncie Water Works Co. pumping station, 4.2 miles (6.8 km) southeast of courthouse in Muncie, and at mile 10.6 (17.0 km).

DRAINAGE AREA.--35.5 mi<sup>2</sup> (91.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 944.67 ft (287.935 m) above mean sea level. Prior to May 5, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 34.9 ft<sup>3</sup>/s (0.988 m<sup>3</sup>/s), 13.35 in/yr (339 mm/yr).

EXTREMES.--Current year: Maximum discharge, 958 ft<sup>3</sup>/s (27.1 m<sup>3</sup>/s) Feb. 23, gage height, 10.88 ft (3.316 m); minimum daily, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Aug. 9, 10, 24, 25, 27-29, Sept. 8-10, 15, 23.  
Period of record: Maximum discharge, 1,780 ft<sup>3</sup>/s (50.4 m<sup>3</sup>/s) Apr. 21, 1964, gage height, 13.96 ft (4.255 m); minimum daily, 5.6 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Dec. 20, 1964.  
Maximum stage known, about 15 ft (4.6 m), 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	15	19	73	68	61	67	87	48	20	14	13
2	20	15	18	40	57	56	62	64	50	20	15	13
3	20	15	18	38	52	51	59	56	52	20	25	13
4	20	22	18	37	49	48	53	52	39	21	23	14
5	19	47	18	30	61	46	52	48	50	20	16	13
6	19	32	18	28	87	46	50	44	70	20	18	14
7	20	25	31	27	53	84	49	41	66	20	13	13
8	19	22	127	98	43	65	49	39	44	19	13	12
9	18	20	74	154	34	54	48	37	35	18	12	12
10	18	19	47	117	35	53	47	37	32	18	12	12
11	18	19	38	170	35	50	46	36	50	18	14	16
12	18	18	51	65	34	137	44	41	47	18	15	17
13	19	18	57	45	31	84	43	36	36	18	14	14
14	20	28	51	36	30	66	43	35	38	18	15	13
15	23	23	86	32	31	57	43	34	42	17	17	12
16	21	21	97	29	53	55	42	33	36	17	15	13
17	20	19	59	26	191	79	42	32	35	17	15	13
18	19	18	44	28	149	127	44	31	30	18	14	13
19	19	18	39	29	84	163	49	30	27	18	14	13
20	18	19	33	25	62	84	42	30	25	17	13	15
21	18	18	32	24	54	65	39	29	23	16	13	13
22	18	17	29	22	117	58	40	37	22	16	13	13
23	17	17	36	22	832	52	49	31	22	16	13	12
24	17	19	69	24	317	61	168	36	22	16	12	13
25	17	20	60	75	143	53	113	48	29	16	12	14
26	16	19	41	55	101	47	84	43	29	15	13	14
27	16	19	35	35	81	46	69	32	24	15	12	13
28	15	18	31	33	71	67	289	30	23	15	12	13
29	15	17	29	241	-----	296	107	29	22	14	12	13
30	16	18	27	102	-----	113	74	35	21	14	14	13
31	15	-----	55	71	-----	79	-----	54	-----	14	13	-----
TOTAL	568	615	1,387	1,831	2,955	2,403	2,006	1,247	1,089	539	446	399
MEAN	18.3	20.5	44.7	59.1	106	77.5	66.9	40.2	36.3	17.4	14.4	13.3
MAX	23	47	127	241	832	296	289	87	70	21	25	17
MIN	15	15	18	22	30	46	39	29	21	14	12	12
CFSM	.52	.58	1.26	1.66	2.99	2.18	1.88	1.13	1.02	.49	.41	.37
IN.	.60	.64	1.45	1.92	3.10	2.52	2.18	1.31	1.14	.56	.47	.42

CAL YR 1974 TOTAL 15,236 MEAN 41.7 MAX 275 MIN 15 CFSM 1.17 IN 15.97  
WTR YR 1975 TOTAL 15,485 MEAN 42.4 MAX 832 MIN 12 CFSM 1.19 IN 16.23

PEAK DISCHARGE (BASE, 400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	1045	10.88	958	04-28	0800	7.21	458
03-29	0600	7.08	444				

## 03348000 White River at Anderson, Ind.

LOCATION.--Lat 40°06'20", long 85°40'16", in NW¼NW¼ sec.18, T.19 N., R.8 E., Madison County, on downstream side of Twelfth Street bridge, 250 ft (76 m) upstream from municipal water-supply plant in Anderson, 1 mile (2 km) upstream from Killbuck Creek, and at mile 293.3 (471.9 km).

DRAINAGE AREA.--406 mi<sup>2</sup> (1,052 km<sup>2</sup>).

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 950 ft (290 m) downstream December 1910 to February 1918, 250 ft (76 m) downstream from February 1918 to Sept. 14, 1973, and at present site since Sept. 15, 1973, are contained in reports of National Weather Service. 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 (251.466 m) above mean sea level. May 12, 1934, to Sept. 14, 1973, nonrecording gage at site 250 ft (76 m) downstream at same datum.

AVERAGE DISCHARGE.--45 years, 376 ft<sup>3</sup>/s (10.65 m<sup>3</sup>/s), 12.58 in/yr (320 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) Feb. 24, gage height, 14.55 ft (4.435 m); minimum daily, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) Oct. 28.

Period of record: Maximum discharge, 18,700 ft<sup>3</sup>/s (530 m<sup>3</sup>/s) Apr. 21, 1964, gage height, 19.41 ft (5.916 m); maximum gage height, 19.96 ft (6.084 m) June 14, 1958; minimum daily discharge, 9.1 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Sept. 24, 1940.

Maximum stage known, 23.6 ft (7.19 m) Mar. 25, 1913, at site 250 ft (76 m) downstream and at present datum, based on determination of National Weather Service at site then in use, discharge, 28,000 ft<sup>3</sup>/s (793 m<sup>3</sup>/s).

REMARKS.--Records fair. The city of Anderson diverts part of its water for municipal supply above control for 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	84	105	963	767	809	1,250	1,040	408	158	92	119
2	94	90	115	798	711	624	803	935	319	150	98	110
3	92	84	110	588	682	526	530	757	322	145	181	102
4	88	88	108	475	682	447	459	643	280	145	256	98
5	82	176	102	411	583	411	459	570	283	142	184	100
6	80	235	94	375	957	396	504	487	378	140	155	94
7	78	176	108	333	846	447	382	431	385	140	138	92
8	78	104	544	439	629	873	309	400	293	202	119	92
9	77	104	819	1,660	430	579	299	378	280	168	117	94
10	75	112	504	1,730	380	479	296	357	277	145	115	106
11	68	115	287	2,530	404	479	277	343	303	140	121	145
12	66	77	303	3,240	360	643	250	357	313	126	145	133
13	68	90	400	2,370	326	1,770	250	339	280	128	135	98
14	90	119	459	1,220	299	1,320	247	316	256	140	207	92
15	126	147	701	423	293	610	241	303	259	126	147	92
16	117	121	1,230	408	378	539	238	287	274	112	115	96
17	90	104	825	346	943	610	235	277	253	102	104	88
18	86	108	459	326	2,390	1,230	336	274	223	145	102	90
19	77	115	346	360	1,680	1,930	375	262	219	121	100	88
20	77	108	293	357	1,090	1,710	296	259	202	112	96	73
21	75	80	241	339	798	1,310	274	306	184	106	92	77
22	78	117	229	262	1,290	1,150	241	296	176	104	92	84
23	88	98	238	232	4,500	879	256	268	168	102	92	88
24	80	126	483	247	9,160	639	639	253	165	126	92	94
25	90	124	1,020	736	5,980	588	1,840	277	163	110	94	86
26	92	115	667	1,050	2,020	479	1,600	274	265	94	104	86
27	84	117	396	615	1,310	393	1,130	313	296	119	98	86
28	65	117	316	447	1,050	543	1,920	277	241	98	115	86
29	68	104	277	823	-----	1,610	1,730	268	193	94	108	86
30	104	98	265	2,230	-----	2,080	1,140	274	171	92	215	90
31	98	-----	312	1,220	-----	1,250	-----	290	-----	90	121	-----
TOTAL	2,623	3,453	12,356	27,553	40,938	27,353	18,806	12,111	7,829	3,922	3,950	2,865
MEAN	84.6	115	399	889	1,462	882	627	391	261	127	127	95.5
MAX	126	235	1,230	3,240	9,160	2,080	1,920	1,040	408	202	256	145
MIN	65	77	94	232	293	393	235	253	163	90	92	73
CFSM	.21	.28	.98	2.19	3.60	2.17	1.54	.96	.64	.31	.31	.24
IN.	.24	.32	1.13	2.52	3.75	2.51	1.72	1.11	.72	.36	.36	.26
CAL YR 1974	TOTAL 151,012 MEAN 414 MAX 3,920 MIN 65 CFSM 1.02 IN 13.84											
WTR YR 1975	TOTAL 163,759 MEAN 449 MAX 9,160 MIN 65 CFSM 1.11 IN 15.00											

PEAK DISCHARGE (BASE, 2,700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	1000	10.10	3,380	02-24	1500	14.55	11,000
02-18	1400	9.50	2,750				



03348020 Killbuck Creek near Gaston, Ind.

LOCATION.--Lat 40°15'45", long 85°30'53", in SE¼SW¼ sec.16, T.21 N., R.9 E., Delaware County, on right bank 30 ft (9 m) upstream from bridge on County Road 500 North, 15 ft (5 m) east of County Road 675 West, 3.6 miles (5.8 km) southwest of Gaston, and at mile 15.6 (25.1 km).

DRAINAGE AREA.--25.5 mi<sup>2</sup> (66.0 km<sup>2</sup>).

PERIOD OF RECORD.--June 1968 to current year.

AVERAGE DISCHARGE.--7 years, 26.4 ft<sup>3</sup>/s (0.748 m<sup>3</sup>/s), 14.06 in/yr (357 mm/yr).

GAGE.--Water-stage recorder. Datum of gage 873.00 ft (266.090 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 357 ft<sup>3</sup>/s (10.1 m<sup>3</sup>/s) Feb. 24, gage height, 11.02 ft (3.359 m); minimum daily, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s) Sept. 10, 16-18, 23, 24, 29, 30.

Period of record: Maximum discharge, 378 ft<sup>3</sup>/s (10.7 m<sup>3</sup>/s) Jan. 18, 1969; maximum gage height, 11.14 ft (3.395 m) Apr. 20, 1972; minimum daily discharge, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s) Sept. 10, 16-18, 23, 24, 29, 30, 1975.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.7	4.7	85	51	48	48	74	25	9.7	3.5	3.4
2	5.4	2.8	5.1	51	42	39	43	60	29	8.4	3.6	3.3
3	5.1	2.8	5.1	39	36	32	39	42	29	7.9	4.3	3.3
4	5.0	2.9	4.9	43	31	28	33	34	21	8.0	3.9	3.1
5	4.7	12	4.5	28	42	27	30	28	18	7.7	3.6	3.1
6	4.4	11	4.7	24	80	26	28	25	18	7.1	3.3	2.8
7	4.3	7.2	6.6	23	49	43	27	22	15	7.2	3.2	2.6
8	4.4	5.0	61	63	31	52	25	20	12	9.8	3.1	2.4
9	4.5	5.3	57	126	19	35	24	19	11	7.3	3.0	2.2
10	4.3	5.1	27	121	20	31	24	18	11	6.9	2.9	2.1
11	4.6	5.0	20	169	21	28	23	17	12	7.1	3.1	2.3
12	4.5	5.0	56	110	19	63	22	18	18	6.7	3.2	2.8
13	4.4	4.9	63	80	18	60	21	15	14	6.5	3.2	2.9
14	4.8	10	49	60	17	42	21	14	43	6.6	3.1	2.3
15	5.3	9.4	57	45	17	30	20	14	247	6.1	4.4	2.2
16	5.3	7.0	90	38	22	31	20	13	209	5.7	4.7	2.1
17	4.6	5.6	58	35	70	42	20	12	80	5.4	3.5	2.1
18	4.0	5.6	38	34	125	68	21	12	51	5.4	3.2	2.1
19	3.9	5.5	28	39	76	114	50	12	36	5.4	3.1	2.2
20	3.8	5.4	22	28	53	74	36	12	28	5.3	3.0	2.4
21	3.7	5.2	21	26	44	52	28	11	24	5.1	2.9	2.5
22	3.6	5.1	19	24	67	41	25	13	21	4.9	2.9	2.2
23	3.1	4.8	24	24	304	31	28	12	19	4.7	2.7	2.1
24	3.1	4.8	124	30	332	39	144	12	18	4.8	2.5	2.1
25	2.9	4.9	106	52	182	34	106	11	16	4.6	2.5	2.2
26	2.8	4.8	60	70	85	24	95	11	19	4.3	2.9	2.3
27	2.7	4.6	40	50	72	22	58	11	16	4.2	3.3	2.2
28	2.7	4.7	30	40	59	25	146	11	14	4.1	3.0	2.2
29	2.7	4.4	25	120	-----	174	93	11	12	3.9	2.8	2.1
30	2.8	4.4	27	88	-----	104	58	11	11	3.8	4.1	2.1
31	2.9	-----	44	60	-----	55	-----	12	-----	3.6	4.1	-----
TOTAL	126.0	167.9	1,181.6	1,825	1,984	1,514	1,356	607	1,097	188.2	102.6	73.7
MEAN	4.06	5.60	38.1	58.9	70.9	48.8	45.2	19.6	36.6	6.07	3.31	2.46
MAX	5.7	12	124	169	332	174	146	74	247	9.8	4.7	3.4
MIN	2.7	2.7	4.5	23	17	22	20	11	11	3.6	2.5	2.1
CFSM	.16	.22	1.49	2.31	2.78	1.91	1.77	.77	1.44	.24	.13	.10
IN.	.18	.24	1.72	2.66	2.89	2.21	1.98	.89	1.60	.27	.15	.11

CAL YR 1974 TOTAL 10,612.8 MEAN 29.1 MAX 293 MIN 2.7 CFSM 1.14 IN 15.48

WTR YR 1975 TOTAL 10,223.0 MEAN 28.0 MAX 332 MIN 2.1 CFSM 1.10 IN 14.91

PEAK DISCHARGE (BASE, 250 FT<sup>3</sup>/S).--Feb. 24 (0500) 357 ft<sup>3</sup>/s (11.02 ft); June 15 (2000) 257 ft<sup>3</sup>/s (9.83 ft).



## 03348350 Pipe Creek at Frankton, Ind.

LOCATION.--Lat 40°13'38", long 85°45'58", in SE¼NE¼ sec.31, T.21 N., R.7 E., Madison County, on right bank 20 ft (6 m) downstream from bridge on County Road 500 West, at northeast edge of Frankton.

DRAINAGE AREA.--113 mi<sup>2</sup> (293 km<sup>2</sup>).

PERIOD OF RECORD.--May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft (246.888 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 114 ft<sup>3</sup>/s (3.228 m<sup>3</sup>/s), 13.70 in/yr (348 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft<sup>3</sup>/s (51.3 m<sup>3</sup>/s) Feb. 23, gage height, 11.02 ft (3.559 m); minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Oct. 7, 8.

Period of record: Maximum discharge, 1,980 ft<sup>3</sup>/s (56.1 m<sup>3</sup>/s) Apr. 21, 1972, gage height, 11.10 ft (3.383 m); minimum daily, 4.2 ft<sup>3</sup>/s (0.119 m<sup>3</sup>/s) Oct. 6, 7, 1970.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	20	405	185	196	217	217	240	34	12	30
2	9.6	17	21	229	164	160	170	171	255	30	14	22
3	9.6	12	20	172	143	135	150	140	323	28	16	18
4	9.0	15	19	165	129	117	119	121	188	26	18	18
5	9.0	93	18	135	147	108	103	101	138	25	14	17
6	8.5	70	19	121	297	105	94	89	120	23	13	15
7	7.5	40	27	112	191	131	87	76	87	25	12	12
8	7.5	29	233	242	129	152	81	67	65	51	11	11
9	8.5	24	251	638	94	121	76	62	54	47	10	9.7
10	8.5	21	136	614	80	116	73	57	47	31	10	9.1
11	8.5	21	96	827	85	104	69	55	76	25	14	15
12	8.0	20	169	522	74	205	66	58	125	22	16	19
13	8.0	19	273	240	64	223	63	53	76	22	13	15
14	14	55	248	161	59	160	60	49	108	34	13	11
15	17	58	259	126	59	128	60	48	621	26	24	9.8
16	13	40	444	104	71	137	58	45	755	22	28	12
17	12	32	274	84	179	145	57	42	431	20	18	12
18	8.5	28	170	86	411	161	66	41	238	22	14	11
19	8.5	26	130	91	288	214	398	37	158	25	12	11
20	8.5	25	100	75	187	208	290	33	115	22	11	14
21	8.5	23	88	67	164	154	163	30	91	20	10	13
22	8.0	20	77	61	217	141	129	118	75	18	9.5	12
23	9.0	19	100	60	1,350	119	152	92	63	17	9.1	11
24	10	21	453	65	1,300	113	628	318	54	17	8.6	9.5
25	10	20	542	129	750	101	658	255	56	16	8.3	9.6
26	9.5	19	273	175	479	84	481	144	92	14	51	11
27	9.3	19	168	113	333	75	286	124	82	13	32	11
28	8.7	19	131	93	254	86	796	73	62	13	16	10
29	9.2	18	114	280	-----	676	575	55	48	12	26	9.5
30	11	18	119	349	-----	655	293	72	39	11	119	9.8
31	11	-----	167	211	-----	326	-----	87	-----	11	49	-----
TOTAL	297.9	852	5,159	6,752	7,883	5,556	6,518	2,930	4,882	722	631.5	398.0
MEAN	9.61	28.4	166	218	282	179	217	94.5	163	23.3	20.4	13.3
MAX	17	93	542	827	1,350	676	796	318	755	51	119	30
MIN	7.5	11	18	60	59	75	57	30	39	11	8.3	9.1
CFSM	.09	.25	1.47	1.93	2.50	1.58	1.92	.84	1.44	.21	.18	.12
IN.	.10	.28	1.70	2.22	2.60	1.83	2.15	.96	1.61	.24	.21	.13

CAL YR 1974 TOTAL 46,677.5 MEAN 128 MAX 1,650 MIN 7.5 CFSM 1.13 IN 15.37  
WTR YR 1975 TOTAL 42,581.4 MEAN 117 MAX 1,350 MIN 7.5 CFSM 1.04 IN 14.02

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1300	8.39	870	04-24	2000	8.26	829
02-23	1900	11.02	1,810	04-28	1600	8.74	984
03-29	2000	8.72	977	06-15	2300	8.73	981

## 03349000 White River at Noblesville, Ind.

LOCATION (revised).--Lat 40°02'50", long 86°01'00", in SE¼SE¼ 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 (2.4 km) upstream from Cicero Creek, 5.1 miles (8.2 km) downstream from dam at Clare, and at mile 263.5 (424.0 km).

DRAINAGE AREA.--858 mi<sup>2</sup> (2,222 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and after June 1951, and at site 400 ft (122 m) downstream January 1936 to May 1951, are contained in reports of National Weather Service. Prior to October 1948, published as West Fork White River at Noblesville.  
WATER TEMPERATURE: November 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 738.16 ft (224.991 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 834 ft<sup>3</sup>/s (23.62 m<sup>3</sup>/s), 13.20 in/yr (335 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	192	221	1,900	2,180	2,100	2,130	2,650	1,190	399	159	385
2	159	194	227	2,070	1,830	1,690	1,650	2,550	1,370	324	135	298
3	162	189	245	1,470	1,560	1,420	1,450	1,900	1,330	281	152	245
4	159	207	239	1,270	1,400	1,230	1,220	1,590	1,120	257	210	230
5	150	519	221	1,160	1,400	1,120	1,050	1,370	875	264	309	230
6	152	623	210	1,010	2,010	1,050	928	1,220	949	257	224	199
7	144	456	221	949	2,290	1,190	862	1,060	956	227	216	174
8	148	320	760	1,170	1,580	1,720	817	928	780	377	194	159
9	155	267	1,630	3,100	1,170	1,460	773	849	589	394	169	155
10	152	236	1,380	4,370	786	1,230	727	767	508	274	157	159
11	150	227	908	5,520	1,560	1,140	689	701	618	213	189	179
12	155	227	888	5,360	700	1,430	647	723	908	197	210	245
13	152	221	1,250	2,900	640	2,550	612	725	740	186	236	233
14	169	355	1,430	1,760	600	2,070	583	636	641	218	251	189
15	213	451	1,440	1,320	580	1,540	565	587	1,210	197	343	171
16	216	372	2,120	1,090	721	1,370	553	552	2,060	179	301	166
17	189	312	2,280	888	1,380	1,330	547	519	1,720	164	236	171
18	181	270	1,550	805	3,510	1,620	589	493	1,100	164	199	169
19	174	261	1,150	862	3,830	2,620	1,690	465	767	213	181	171
20	230	251	915	798	2,520	3,830	1,690	457	559	197	176	181
21	166	242	773	708	1,830	2,610	1,130	439	920	162	169	179
22	164	230	683	623	1,740	1,840	875	1,010	559	159	157	169
23	174	236	671	601	7,000	1,480	875	1,480	422	150	155	166
24	176	230	1,480	577	10,800	1,340	2,710	1,110	335	171	152	159
25	184	230	2,670	817	12,500	1,330	4,470	1,440	324	157	141	162
26	192	227	2,240	1,580	7,720	1,140	4,170	1,330	1,220	150	333	159
27	181	227	1,430	1,590	3,520	969	3,190	1,160	1,350	155	368	157
28	179	224	1,080	1,090	2,660	974	4,830	830	862	181	233	148
29	181	216	862	1,700	-----	3,140	6,090	616	606	141	237	144
30	199	205	780	3,800	-----	5,800	3,700	623	466	129	1,160	152
31	207	-----	1,230	2,990	-----	3,500	-----	696	-----	127	734	-----
TOTAL	5,384	8,417	33,184	55,848	80,017	57,833	51,812	31,476	27,054	6,664	8,086	5,704
MEAN	174	281	1,070	1,802	2,858	1,866	1,727	1,015	902	215	261	190
MAX	230	623	2,670	5,520	12,500	5,800	6,090	2,650	2,060	399	1,160	385
MIN	144	189	210	577	580	969	547	439	324	127	135	144
CFSM	.20	.33	1.25	2.10	3.33	2.17	2.01	1.18	1.05	.25	.30	.22
IN.	.23	.36	1.44	2.42	3.47	2.51	2.25	1.36	1.17	.29	.35	.25

CAL YR 1974 TOTAL 394,588 MEAN 1,081 MAX 9,750 MIN 144 CFSM 1.26 IN 17.11  
WTR YR 1975 TOTAL 371,479 MEAN 1,018 MAX 12,500 MIN 127 CFSM 1.19 IN 16.11

PEAK DISCHARGE (BASE, 6,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-25	0700	16.29	13,100	04-29	0730	11.97	6,510
03-30	1015	11.59	6,110				

## 03349000 White River at Noblesville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) Feb. 25, gage height, 16.29 ft (4.965 m); minimum daily, 127 ft<sup>3</sup>/s (3.60 m<sup>3</sup>/s) July 31.  
 Period of record: Maximum discharge, 26,800 ft<sup>3</sup>/s (759 m<sup>3</sup>/s) Apr. 22, 1964, gage height, 21.31 ft (6.495 m); minimum daily, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Sept. 28, 1954.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C July 30, 31, Aug. 23; minimum, freezing point Feb. 8-13, Mar. 3, 4.

Period of record: Maximum temperature, 34.0°C Aug. 1, 1953; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Flow slightly regulated by powerplant above station.

REVISIONS (WATER YEARS).--WSP 1335: 1949. WSP 2109: Drainage area.

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	19.0	18.0	1.5	1.0	4.5	4.0	4.0	3.5	3.0	3.0
2	16.0	12.5	19.0	17.0	5.5	1.5	4.0	3.0	4.0	3.5	3.0	2.0
3	15.5	13.5	17.0	16.0	7.0	5.5	3.5	3.0	3.5	3.0	2.0	0.0
4	16.5	15.5	16.0	15.0	6.5	3.5	4.0	3.0	3.0	2.0	2.0	0.0
5	16.5	15.5	17.0	13.5	6.0	3.0	3.5	2.5	3.5	2.5	3.0	1.0
6	17.5	16.5	13.5	12.0	6.0	3.0	4.5	3.5	3.5	2.5	4.0	3.0
7	17.0	14.0	12.0	9.5	6.0	3.5	4.5	3.0	2.5	0.5	4.5	4.0
8	17.0	16.0	12.5	9.5	3.5	3.5	5.0	3.0	0.5	0.0	4.5	3.5
9	17.0	16.5	12.5	9.5	3.5	3.0	5.5	5.0	0.0	0.0	3.5	2.0
10	17.5	16.5	10.0	9.0	3.0	2.0	7.0	5.5	0.5	0.0	3.0	2.0
11	18.0	17.0	10.0	10.0	3.0	1.5	7.0	6.0	0.0	0.0	3.5	2.5
12	19.5	18.0	10.0	9.0	3.5	2.5	6.5	3.5	0.0	0.0	4.0	3.5
13	19.5	19.0	9.0	7.5	5.0	3.5	3.5	1.5	2.0	0.0	4.0	3.0
14	19.0	17.0	8.5	6.5	5.0	5.0	1.5	0.5	2.5	0.5	3.5	2.0
15	18.0	15.5	7.0	5.0	5.0	5.0	1.0	0.5	4.0	2.5	2.5	1.0
16	16.5	14.5	7.5	6.5	5.0	5.0	2.0	1.0	4.0	3.5	2.5	2.0
17	16.0	15.0	7.5	5.5	5.0	4.5	2.0	0.5	4.5	3.5	5.5	2.5
18	16.0	14.0	8.0	5.0	4.5	3.0	2.0	1.5	4.5	3.5	6.5	5.0
19	15.0	12.5	10.5	8.0	3.5	3.0	1.5	1.5	3.5	2.5	7.0	6.5
20	13.5	9.5	11.5	8.5	3.5	3.0	2.5	1.5	3.0	2.0	6.5	5.5
21	12.0	8.0	10.5	8.0	4.0	3.0	2.5	1.0	4.5	3.0	7.5	6.0
22	13.5	11.5	9.5	7.0	3.0	3.0	4.0	2.5	5.0	4.5	8.0	7.5
23	13.5	12.0	11.5	7.0	5.0	3.0	5.5	4.0	5.5	5.0	9.0	7.5
24	14.0	11.5	11.5	8.0	5.0	4.5	5.5	4.0	5.5	4.5	10.5	9.0
25	14.0	14.0	9.5	7.0	5.0	3.5	5.5	4.5	5.0	3.5	10.5	8.0
26	14.0	12.5	9.5	7.0	3.5	2.5	5.0	3.0	3.5	2.0	8.0	5.5
27	13.0	11.5	8.5	5.0	2.5	2.0	3.0	2.0	3.0	2.5	7.5	5.5
28	15.0	12.0	7.5	3.5	2.5	2.5	3.5	2.5	3.0	3.0	6.0	5.0
29	16.0	14.5	3.5	3.0	3.5	2.5	5.0	3.5	---	---	6.5	5.0
30	17.0	16.0	3.5	1.5	4.5	3.5	5.0	4.5	---	---	6.5	6.0
31	18.0	16.0	---	---	4.5	4.5	4.5	3.5	---	---	7.0	5.5
MONTH	19.5	8.0	19.0	1.5	7.0	1.0	7.0	0.5	5.5	0.0	10.5	0.0

03349000 White River at Noblesville, Ind.--Continued

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

03349500 Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'34", long 85°59'43", in NW¼NW¼ sec.20, T.20 N., R.5 E., Hamilton County, on left bank at downstream side of bridge, 1.5 miles (2.4 km) east of Arcadia, 12.5 miles (20.1 km) (revised) upstream from Morse Dam, and at mile 17.2 (27.7 km).

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.12 ft (248.449 m) above mean sea level. Prior to Dec. 7, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 123 ft<sup>3</sup>/s (3.483 m<sup>3</sup>/s), 12.75 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Feb. 24, gage height, 8.95 ft (2.728 m); minimum daily, 2.0 ft<sup>3</sup>/s (0.06 m<sup>3</sup>/s) Aug. 25.

Period of record: Maximum discharge, 6,720 ft<sup>3</sup>/s (190 m<sup>3</sup>/s) June 29, 1957, gage height, 11.86 ft (3.615 m); minimum daily, 0.5 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Oct. 10, 1956.

Maximum stage known, 15.6 ft (4.75 m) (probably the flood in January 1937), from information by local residents.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	5.1	11	350	214	257	291	444	121	65	4.0	205
2	6.4	4.6	12	280	189	186	218	316	112	50	4.0	109
3	6.6	3.9	13	220	162	142	187	238	104	41	15	57
4	6.4	7.2	11	180	147	117	139	190	84	36	8.6	33
5	6.6	38	11	150	178	104	116	145	80	30	6.1	23
6	6.0	22	11	132	328	96	103	121	84	28	5.4	17
7	5.8	14	23	120	220	102	95	99	64	27	4.3	13
8	7.3	10	24	200	156	96	88	87	52	40	3.7	10
9	8.4	8.6	22	400	105	80	82	77	44	30	3.3	8.2
10	9.1	6.9	133	550	100	86	79	69	41	23	3.0	6.7
11	9.3	7.3	99	900	110	80	72	65	124	19	3.1	8.9
12	10	7.7	129	470	90	198	65	68	135	16	3.3	15
13	11	7.7	209	270	62	230	59	62	79	15	3.0	9.9
14	15	31	218	185	60	169	56	52	70	16	4.8	7.7
15	18	30	264	138	59	135	56	51	207	13	11	7.5
16	9.2	22	360	107	65	164	52	45	214	11	5.2	9.9
17	7.9	20	270	82	127	200	53	40	116	10	3.6	9.4
18	9.7	19	200	90	243	289	66	39	80	11	3.1	8.2
19	11	18	155	90	198	350	264	37	60	23	3.0	8.2
20	10	17	125	70	146	308	168	35	73	18	3.1	10
21	9.9	15	105	63	127	220	105	32	595	13	2.8	8.4
22	10	13	88	59	164	192	90	1,020	327	10	2.6	6.8
23	9.7	12	96	52	1,410	146	139	1,280	173	9.0	2.5	6.8
24	9.6	14	330	58	1,610	146	568	887	107	8.6	2.1	6.0
25	9.6	13	430	143	926	123	703	530	77	7.3	2.0	5.7
26	9.8	13	330	209	579	92	680	393	232	6.1	188	6.9
27	8.3	13	200	124	435	84	425	420	446	5.0	70	6.9
28	6.4	12	150	100	341	112	1,160	288	243	4.3	21	5.4
29	6.3	9.5	120	350	-----	1,070	773	201	138	4.7	137	4.7
30	10	9.0	110	433	-----	743	471	161	90	4.3	689	5.7
31	6.8	-----	140	264	-----	419	-----	130	-----	4.3	355	-----
TOTAL	276.9	423.5	4,822	6,839	8,551	6,736	7,423	7,622	4,372	598.6	1,572.6	639.9
MEAN	8.93	14.1	156	221	305	217	247	246	146	19.3	50.7	21.3
MAX	18	38	430	900	1,610	1,070	1,160	1,280	595	65	689	205
MIN	5.8	3.9	11	52	59	80	52	32	41	4.3	2.0	4.7
CFSM	.07	.11	1.19	1.69	2.33	1.66	1.89	1.88	1.11	.15	.39	.16
IN.	.08	.12	1.37	1.94	2.43	1.91	2.11	2.16	1.24	.17	.45	.18

CAL YR 1974 TOTAL 66,461.8 MEAN 182 MAX 1,760 MIN 2.4 CFSM 1.39 IN 18.87  
WTR YR 1975 TOTAL 49,876.5 MEAN 137 MAX 1,610 MIN 2.0 CFSM 1.05 IN 14.16

PEAK DISCHARGE (BASE, 1,100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0400	8.95	1,700	04-28	1400	8.19	1,340
03-29	1400	8.03	1,280	05-23	0300	8.80	1,620

03349700 Little Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'32", long 86°02'45", in NE¼ sec.23, T.20 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 0.5 mile (0.8 km) downstream from Taylor Creek, 1.3 miles (2.1 km) west of Arcadia, 3.9 miles (6.3 km) upstream from mouth, and 9.3 miles (15.0 km) northwest of Noblesville.

DRAINAGE AREA.--40.4 mi<sup>2</sup> (104.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 831.36 ft (253.399 m). Prior to Nov. 29, 1974, at same site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--20 years, 40.0 ft<sup>3</sup>/s (1.133 m<sup>3</sup>/s), 13.45 in/yr (342 mm/yr).

EXTREMES.--Current year: Maximum discharge, 850 ft<sup>3</sup>/s (24.1 m<sup>3</sup>/s) Feb. 23, gage height, 7.90 ft (2.408 m); minimum daily, 0.33 ft<sup>3</sup>/s (0.009 m<sup>3</sup>/s) Aug. 24, 25.

Period of record: Maximum discharge, 3,980 ft<sup>3</sup>/s (113 m<sup>3</sup>/s) June 28, 1957, gage height, 10.69 ft (3.258 m) present datum; no flow at times during 1957, 1963, 1964, 1966-68.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.9	4.6	139	62	63	101	114	12	4.0	.93	5.6
2	1.6	1.7	4.4	70	53	46	74	72	15	3.6	1.3	4.3
3	1.4	1.6	4.2	53	47	35	62	56	19	3.1	3.0	2.6
4	1.3	2.4	4.2	44	43	29	45	47	13	2.7	1.8	1.7
5	1.3	13	4.2	35	63	26	37	38	9.4	2.4	1.5	1.3
6	1.2	9.1	4.3	31	107	24	33	32	8.6	2.8	1.4	1.1
7	1.1	5.9	11	28	57	32	28	23	6.7	2.7	1.2	.91
8	1.1	4.3	100	82	37	32	25	20	5.9	3.8	.95	.83
9	1.1	3.1	67	169	28	27	22	17	5.6	2.3	.83	.63
10	1.2	2.8	37	249	24	28	20	14	5.3	1.7	.75	.56
11	1.4	2.7	26	391	21	26	18	14	27	1.4	.83	.70
12	1.6	2.4	47	151	17	99	16	15	23	1.1	1.0	2.3
13	1.7	2.7	81	74	14	92	14	12	11	1.2	1.9	3.0
14	3.0	13	69	46	13	62	14	11	9.2	1.2	1.8	1.8
15	3.3	13	85	31	13	45	13	10	12	1.1	2.1	1.1
16	4.2	9.9	124	23	16	55	13	9.2	25	.91	1.3	1.1
17	3.1	8.6	71	21	50	78	13	8.0	12	1.3	1.1	1.1
18	2.4	7.8	46	19	95	103	20	7.8	8.8	2.0	1.1	1.1
19	2.0	7.1	37	20	65	176	201	7.3	6.9	7.4	.94	1.1
20	1.9	6.4	27	15	43	122	105	7.0	32	5.0	.78	1.2
21	1.7	5.5	24	14	39	77	62	6.5	235	3.3	.66	1.1
22	1.7	4.7	21	12	90	65	45	210	74	2.3	.45	1.2
23	1.5	4.1	32	11	771	50	96	102	33	1.9	.37	1.1
24	1.7	4.7	137	14	514	51	297	48	16	1.8	.33	1.1
25	1.7	4.7	124	37	266	40	295	28	11	1.5	.33	1.0
26	2.0	4.5	65	61	166	28	246	28	10	1.3	153	1.1
27	1.9	4.3	42	32	114	26	147	51	9.6	1.2	29	.98
28	1.7	4.1	31	25	86	50	427	26	7.2	1.0	6.7	1.0
29	1.6	3.9	25	136	-----	682	197	16	5.0	.95	7.5	.88
30	1.8	3.9	26	106	-----	312	120	14	4.4	1.1	12	.79
31	1.7	-----	68	68	-----	161	-----	12	-----	1.0	7.8	-----
TOTAL	56.9	163.8	1,448.9	2,207	2,914	2,742	2,806	1,075.8	672.6	69.06	244.65	44.28
MEAN	1.84	5.46	46.7	71.2	104	88.5	93.5	34.7	22.4	2.23	7.89	1.48
MAX	4.2	13	137	391	771	682	427	210	235	7.4	153	5.6
MIN	1.1	1.6	4.2	11	13	24	13	6.5	4.4	.91	.33	.56
CFSM	.05	.14	1.16	1.76	2.57	2.19	2.31	.86	.55	.06	.20	.04
IN.	.05	.15	1.33	2.03	2.68	2.52	2.58	.99	.62	.06	.23	.04
CAL YR 1974	TOTAL 21,099.45	MEAN 57.8	MAX 871	MIN .54	CFSM 1.43	IN 19.43						
WTR YR 1975	TOTAL 14,444.99	MEAN 39.6	MAX 771	MIN .33	CFSM .98	IN 13.30						

PEAK DISCHARGE (BASE, 500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	2000	7.90	850	04-28	0500	7.32	562
03-29	0900	7.61	768				



03350100 Hinkle Creek near Cicero, Ind.

LOCATION.--Lat 40°06'05", long 86°05'10", in NW¼ sec.16, T.19 N., R.4 E., Hamilton County, on left bank on downstream side of bridge on county road, 3.7 miles (6.0 km) above mouth, 4.0 miles (6.4 km) upstream from Morse Reservoir Dam, 4.2 miles (6.8 km) southwest of Cicero, and 5.7 miles (9.2 km) northwest of Noblesville.

DRAINAGE AREA.--18.5 mi<sup>2</sup> (47.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 820 ft (250 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 19.7 ft<sup>3</sup>/s (0.558 m<sup>3</sup>/s), 14.46 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft<sup>3</sup>/s (29.2 m<sup>3</sup>/s) Feb. 23, gage height, 4.83 ft (1.472 m); minimum daily, 0.59 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 4,920 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) June 28, 1957, gage height, 8.45 ft (2.576 m); minimum daily, 0.07 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Sept. 8, 1967.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.5	4.7	48	26	24	36	103	11	2.5	1.1	1.2
2	2.0	1.6	4.4	25	22	20	30	44	16	2.4	1.1	.95
3	1.7	1.5	4.2	22	20	17	27	33	13	2.2	4.8	.89
4	1.7	2.4	4.3	19	19	14	23	28	9.6	2.1	1.8	.83
5	1.7	19	4.6	15	28	14	20	23	9.7	2.0	1.1	.82
6	1.6	8.3	4.8	14	36	13	19	21	7.8	2.0	.96	.78
7	1.9	5.0	15	14	21	21	18	17	6.1	1.9	.86	.71
8	1.7	3.8	66	50	14	20	17	16	5.3	2.1	.80	.66
9	1.5	3.0	31	63	13	17	16	15	4.6	1.7	.78	.59
10	1.3	2.5	19	156	12	18	15	13	4.4	1.4	.75	.59
11	1.5	3.0	14	143	11	17	14	12	18	1.4	1.2	.99
12	2.0	2.7	36	41	10	49	12	14	13	1.4	.94	1.2
13	2.4	2.7	38	23	7.5	33	11	12	7.8	1.4	.83	.87
14	6.2	24	28	16	6.6	25	11	11	7.7	1.5	.85	.76
15	3.5	14	41	11	6.6	21	11	11	8.2	1.2	2.3	.71
16	2.0	9.8	43	9.3	10	26	11	9.7	8.4	1.1	1.2	.81
17	1.9	7.9	26	8.0	42	33	12	9.3	5.6	1.1	.91	.83
18	2.1	6.6	19	8.8	43	31	16	8.3	4.8	1.5	.81	.82
19	2.1	6.6	16	9.8	27	65	68	7.9	3.7	1.7	.73	.87
20	1.7	6.2	13	7.5	19	38	32	7.5	9.3	1.3	.69	.99
21	1.5	5.4	12	6.5	18	28	23	6.7	72	1.3	.65	.94
22	1.5	4.7	11	5.8	70	26	21	20	19	1.3	.65	.91
23	1.5	4.4	19	5.8	546	21	39	12	10	1.1	.65	.86
24	1.9	5.4	50	7.9	166	22	179	8.8	7.5	1.1	.61	.86
25	1.9	4.7	40	31	73	19	103	7.8	5.8	1.0	.60	1.0
26	1.5	4.0	22	23	49	16	73	13	5.0	1.0	35	.99
27	1.4	4.0	16	14	36	16	50	21	4.7	1.0	4.9	.89
28	1.4	4.0	13	13	30	42	108	10	4.0	1.4	1.6	.77
29	1.5	3.5	12	76	-----	341	54	8.5	3.2	1.0	1.3	.72
30	1.7	3.8	12	37	-----	81	47	8.0	2.7	.88	1.7	.85
31	1.6	-----	38	27	-----	48	-----	8.4	-----	.92	1.3	-----
TOTAL	60.3	176.0	677.0	950.4	1,381.7	1,176	1,116	539.9	307.9	45.90	73.47	25.66
MEAN	1.95	5.87	21.8	30.7	49.3	37.9	37.2	17.4	10.3	1.48	2.37	.86
MAX	6.2	24	66	156	546	341	179	103	72	2.5	35	1.2
MIN	1.3	1.5	4.2	5.8	6.6	13	11	6.7	2.7	.88	.60	.59
CFSM	.11	.32	1.18	1.66	2.66	2.05	2.01	.94	.56	.08	.13	.05
IN.	.12	.35	1.36	1.91	2.78	2.36	2.24	1.09	.62	.09	.15	.05

CAL YR 1974 TOTAL 10,691.60 MEAN 29.3 MAX 517 MIN 1.2 CFSM 1.58 IN 21.50  
WTR YR 1975 TOTAL 6,530.23 MEAN 17.9 MAX 546 MIN .59 CFSM .97 IN 13.13

PEAK DISCHARGE (BASE, 400 FT<sup>3</sup>/S).--Feb. 23 (0600) 1,030 ft<sup>3</sup>/s (4.83 ft); Mar. 29 (0700) 731 ft<sup>3</sup>/s (4.06 ft).

## 03350300 Morse Reservoir near Noblesville, Ind.

LOCATION.--Lat 40°04'21", long 86°02'47", in SE¼SW¼ sec.23, T.19 N., R.4 E., Hamilton County, in intake structure of reservoir on Cicero Creek, 2.5 miles (4.0 km) northwest of courthouse in Noblesville, and 4.8 miles (7.7 km) (revised) above mouth.

DRAINAGE AREA.--214 mi<sup>2</sup> (554 km<sup>2</sup>).

PERIOD OF RECORD.--December 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 760.00 ft (231.648 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 23,080 acre-ft (28.5 hm<sup>3</sup>) Feb. 24, elevation, 811.38 ft (247.309 m); minimum, 21,170 acre-ft (26.1 hm<sup>3</sup>) Oct. 11, elevation, 809.90 ft (246.858 m).

Period of record: Maximum contents, 25,310 acre-ft (31.2 hm<sup>3</sup>) June 28, 1957, elevation, 812.95 ft (247.787 m); minimum, 14,120 acre-ft (17.4 hm<sup>3</sup>) Jan. 5, 1964, elevation, 804.26 ft (245.138 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by two 36-inch (914 mm) valves or one 16-inch (406 mm) valve. Minimum design capacity is essentially empty at invert of outlet conduit at elevation of 763.50 ft (232.715 m). Capacity at uncontrolled spillway elevation, 810 ft (246.9 m) is 21,180 acre-ft (26.1 hm<sup>3</sup>). Reservoir is used for low-flow augmentation of the water supply for Indianapolis and recreation. Reservoir put in operation on Dec. 9, 1955, and was filled for the first time on Feb. 3, 1957.

COOPERATION.--Records furnished by Indianapolis Water Company.

## Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	809.99	21,170	-
Oct. 31.....	810.02	21,210	+40
Nov. 30.....	810.06	21,260	+50
Dec. 31.....	810.26	21,520	+260
Calendar year 1974.....	-	-	-450
Jan. 31.....	810.50	21,870	+350
Feb. 28.....	810.49	21,860	-10
Mar. 31.....	810.67	22,090	+230
Apr. 30.....	810.67	22,090	0
May 31.....	810.26	21,530	-560
June 30.....	810.20	21,450	-80
July 31.....	809.98	21,150	-300
Aug. 31.....	810.48	21,840	+690
Sept. 30.....	809.93	21,090	+750
Water year 1975.....	-	-	-80

## 03350500 Cicero Creek at Noblesville, Ind.

LOCATION (revised).--Lat 40°03'20", long 86°02'30", in NW¼ sec.35, T.19 N., R.4 E., Hamilton County, on right bank 150 ft (46 m) downstream from bridge on State Highway 38, 1.0 mile (1.6 km) northwest of Noblesville, 1.9 miles (3.1 km) downstream from Hinkle Creek, and 3.2 miles (5.1 km) upstream from mouth.

DRAINAGE AREA.--216 mi<sup>2</sup> (559 km<sup>2</sup>).

PERIOD OF RECORD.--July 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 750.00 ft (228.600 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--25 years, 196 ft<sup>3</sup>/s (5.551 m<sup>3</sup>/s), 12.32 in/yr (313 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,040 ft<sup>3</sup>/s (86.1 m<sup>3</sup>/s) Feb. 24, gage height, 12.09 ft (3.685 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Sept. 26, 29.

Period of record: Maximum discharge, 9,800 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) June 28, 1957, gage height, 15.26 ft (4.651 m); minimum daily, 0.6 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	40	567	408	450	534	762	187	85	6.8	263
2	5.4	30	64	468	351	320	388	555	180	64	9.2	164
3	3.0	26	22	356	309	250	346	410	161	53	20	102
4	4.0	46	12	301	281	200	242	343	132	52	55	67
5	5.7	80	13	246	306	185	205	265	134	37	29	46
6	10	74	21	215	487	170	181	232	130	51	33	35
7	7.4	51	42	200	427	180	162	186	103	48	10	21
8	3.1	36	271	297	321	170	152	161	77	48	6.1	13
9	3.0	27	383	762	229	140	139	145	57	42	8.3	11
10	5.0	22	270	946	172	154	133	132	55	35	9.9	4.6
11	5.0	26	200	1,730	177	146	132	122	123	17	8.9	16
12	9.3	25	229	1,130	177	264	107	141	189	17	6.5	43
13	20	27	321	582	135	390	104	118	141	16	6.1	18
14	33	80	354	365	118	327	96	99	123	16	7.2	10
15	32	84	385	263	116	240	98	104	134	15	26	3.5
16	13	69	585	208	125	246	86	85	225	13	22	5.6
17	24	58	469	157	226	286	101	73	178	10	20	8.8
18	19	54	322	154	451	382	124	71	134	15	7.9	11
19	6.4	51	263	185	424	539	489	54	99	26	8.0	9.2
20	36	73	205	147	321	537	454	57	90	32	6.5	16
21	3.9	48	171	120	268	393	274	56	543	25	5.2	14
22	6.2	12	150	120	316	335	205	649	545	20	11	4.6
23	9.8	18	162	108	2,500	263	231	1,540	287	12	23	8.2
24	11	44	459	111	2,800	234	999	1,070	176	16	23	46
25	18	46	718	195	1,600	219	1,170	759	130	12	20	13
26	12	23	505	356	1,000	178	1,240	515	130	13	142	2.5
27	8.4	24	337	270	780	157	793	520	277	16	205	3.5
28	4.9	29	254	208	600	188	1,540	397	307	14	98	5.9
29	7.3	22	203	473	-----	1,450	1,370	280	190	9.5	94	2.5
30	18	25	188	729	-----	1,520	824	224	121	8.1	557	2.7
31	22	-----	240	532	-----	813	-----	207	-----	7.3	446	-----
TOTAL	378.8	1,253	7,858	12,501	15,425	11,326	12,919	10,332	5,458	844.9	1,930.6	970.6
MEAN	12.2	41.8	253	403	551	365	431	333	182	27.3	62.3	32.4
MAX	36	84	718	1,730	2,800	1,520	1,540	1,540	545	85	557	263
MIN	3.0	12	12	108	116	140	86	54	55	7.3	5.2	2.5
CFSM	.06	.19	1.17	1.87	2.55	1.69	2.00	1.54	.84	.13	.29	.15
IN.	.07	.22	1.35	2.15	2.66	1.95	2.22	1.78	.94	.15	.33	.17
CAL YR 1974	TOTAL	111,820.5	MEAN	306	MAX	3,100	MIN	2.7	CFSM	1.42	IN	19.26
WTR YR 1975	TOTAL	81,196.9	MEAN	222	MAX	2,800	MIN	2.5	CFSM	1.03	IN	13.98

05350700 Stony Creek near Noblesville, Ind.

LOCATION.--Lat 40°01'44", long 85°59'42", in NE1/4 sec. 7, T.18 N., R.5 E., Hamilton County, on left bank at downstream side of county road bridge, 1.4 miles (2.3 km) upstream from mouth, and 1.4 miles (2.3 km) southeast of Noblesville.

DRAINAGE AREA.--53.8 mi<sup>2</sup> (131.6 km<sup>2</sup>).

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 749.00 ft (228.295 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--8 years, 49.0 ft<sup>3</sup>/s (1.388 m<sup>3</sup>/s), 13.10 in/yr (335 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s) Feb. 23, gage height, 7.08 ft (2.158 m); minimum daily, 4.6 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Sept. 8.

Period of record: Maximum discharge, 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 7.08 ft (2.158 m); minimum daily, 3.8 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Sept. 1, 1967.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.9	11	98	112	90	75	116	69	10	7.6	7.4
2	6.8	12	10	72	95	76	68	95	52	9.7	8.0	6.3
3	6.8	11	11	66	86	67	63	83	43	9.4	28	5.6
4	6.4	16	9.9	64	78	61	52	73	33	9.2	47	5.8
5	6.8	64	9.9	55	92	58	50	62	32	13	12	5.8
6	6.8	39	9.9	51	126	55	47	55	29	23	9.6	5.6
7	6.4	24	18	48	88	92	45	49	23	17	8.6	5.6
8	6.8	18	85	91	67	93	43	44	19	18	7.3	4.6
9	6.4	15	61	195	58	75	41	41	16	10	7.0	5.6
10	6.8	13	40	220	53	70	39	37	14	9.1	7.0	4.9
11	6.8	13	29	342	49	64	37	35	33	8.7	14	11
12	6.4	13	53	150	44	118	35	34	39	8.4	8.5	15
13	6.4	13	59	101	38	104	32	31	26	9.2	7.8	6.9
14	7.6	32	51	76	35	82	31	29	23	9.0	15	5.9
15	9.9	27	62	63	36	69	30	28	22	8.7	21	5.6
16	8.9	20	102	54	50	73	29	26	18	8.0	11	4.9
17	7.6	16	75	45	117	80	31	25	16	8.0	7.6	6.2
18	6.8	14	57	48	154	82	33	24	16	9.5	6.6	6.0
19	6.8	13	51	51	114	106	88	22	14	9.0	6.4	6.7
20	6.8	13	41	42	88	87	62	21	27	8.9	6.2	7.1
21	6.4	17	42	37	77	74	50	19	24	8.5	6.1	6.4
22	6.4	10	43	35	149	69	44	51	18	8.4	4.9	6.2
23	6.8	11	52	34	1,120	61	57	49	13	9.1	5.9	5.8
24	8.4	11	104	37	607	61	336	34	12	9.8	6.2	5.1
25	7.6	11	112	83	227	57	264	46	13	9.5	6.6	6.1
26	7.2	9.4	76	94	149	50	199	52	27	9.4	6.5	5.8
27	7.2	9.4	59	64	121	49	149	42	20	20	7.0	6.3
28	7.2	9.9	48	55	106	62	318	31	14	19	6.6	6.4
29	7.2	8.9	41	177	-----	207	236	26	12	9.4	7.1	6.4
30	8.9	9.4	37	148	-----	136	147	25	11	8.1	26	6.7
31	9.9	-----	51	115	-----	94	-----	29	-----	7.5	11	-----
TOTAL	224.4	501.9	1,510.7	2,811	4,136	2,522	2,731	1,334	728	334.5	340.1	193.7
MEAN	7.24	16.7	48.7	90.7	148	81.4	91.0	43.0	24.3	10.8	11.0	6.46
MAX	9.9	64	112	342	1,120	207	336	116	69	23	47	15
MIN	6.4	8.9	9.9	34	35	49	29	19	11	7.5	4.9	4.6
CFSM	.14	.33	.96	1.79	2.91	1.60	1.79	.85	.48	.21	.22	.13
IN.	.16	.37	1.11	2.06	3.03	1.85	2.00	.98	.53	.24	.25	.14

CAL YR 1974 TOTAL 23,407.2 MEAN 64.1 MAX 112 MIN 6.4 CFSM 1.26 IN 17.14  
WTR YR 1975 TOTAL 17,367.3 MEAN 47.6 MAX 1,120 MIN 4.6 CFSM .94 IN 12.72

PEAK DISCHARGE (BASE, 300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0600	4.56	418	04-24	1000	4.57	434
02-23	0900	7.08	1,400	04-28	1700	4.25	383

## WABASH RIVER BASIN

03351000 White River near Nora, Ind.

LOCATION.--Lat 39°54'35", long 86°06'20", in NW¼NW¼ sec.20, T.17 N., R.4 E., Marion County, on downstream side of center pier of bridge on State Highway 100, 2 miles (3 km) east of Nora, 14 miles (23 km) upstream from Fall Creek, and at mile 247.9 (398.9 km) (revised).

DRAINAGE AREA.--1,219 mi<sup>2</sup> (3,157 km<sup>2</sup>).

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 (216.695 m) above mean sea level (levels by Corps of Engineers). Oct. 26, 1929, to July 29, 1942, at site 200 ft (61 m) downstream at same datum. Supplemental water-stage recorder 4.5 miles (7.2 km) downstream.

AVERAGE DISCHARGE.--46 years, 1,089 ft<sup>3</sup>/s (30.84 m<sup>3</sup>/s), 12.13 in/yr (308 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,700 ft<sup>3</sup>/s (416 m<sup>3</sup>/s) Feb. 25, gage height, 14.03 ft (4.276 m); minimum daily, 192 ft<sup>3</sup>/s (5.44 m<sup>3</sup>/s) Aug. 25.

Period of record: Maximum discharge, 32,400 ft<sup>3</sup>/s (918 m<sup>3</sup>/s) May 19, 1943; maximum gage height, 18.65 ft (5.685 m) Apr. 23, 1964; minimum daily discharge, 49 ft<sup>3</sup>/s (1.39 m<sup>3</sup>/s) Sept. 17, 1941.

Flood of Mar. 26, 1913, reached a stage of 22.4 ft (6.83 m), from floodmark, determined by State Highway Department of Indiana, discharge, 58,500 ft<sup>3</sup>/s (1,660 m<sup>3</sup>/s).

REMARKS.--Records good. 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 CURIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	254	333	2,190	2,980	2,760	2,950	3,600	1,290	545	198	814
2	230	277	363	2,780	2,530	2,230	2,230	3,360	1,590	475	208	575
3	220	265	337	2,160	2,110	1,850	1,960	2,680	1,510	415	234	450
4	217	305	329	1,830	1,870	1,610	1,630	2,250	1,360	381	317	368
5	208	580	301	1,700	1,850	1,460	1,400	1,930	1,100	368	372	350
6	204	766	297	1,410	2,780	1,350	1,230	1,700	1,080	381	345	309
7	204	652	350	1,280	2,790	1,530	1,140	1,470	1,090	415	297	265
8	201	485	932	1,510	2,150	1,990	1,080	1,300	953	405	258	234
9	198	400	1,840	3,260	1,580	1,850	1,020	1,170	760	540	230	211
10	198	350	1,820	4,900	1,050	1,560	967	1,060	646	430	230	211
11	198	337	1,280	6,780	1,120	1,450	925	967	712	363	244	265
12	198	333	1,240	6,700	1,000	1,790	869	967	1,110	313	248	341
13	201	329	1,560	3,990	900	2,750	808	960	988	305	293	325
14	214	490	1,810	2,460	800	2,670	772	904	796	313	305	269
15	265	600	1,870	1,820	870	2,030	748	772	974	301	345	240
16	285	545	2,500	1,490	981	1,780	724	742	1,950	289	415	227
17	258	475	2,790	1,190	1,550	1,780	718	688	1,980	269	333	227
18	248	410	2,090	1,070	3,340	1,950	760	652	1,380	321	265	227
19	237	381	1,590	1,120	4,400	2,860	2,040	610	967	325	230	237
20	258	381	1,280	1,080	3,150	4,020	2,330	595	754	313	230	237
21	254	376	1,090	939	2,410	3,280	1,630	580	1,080	289	220	251
22	211	329	981	848	2,270	2,370	1,240	1,030	1,390	265	198	244
23	214	313	939	802	8,270	1,950	1,230	2,600	932	262	198	220
24	227	337	1,680	784	11,900	1,710	3,810	2,140	694	258	195	234
25	224	337	3,070	1,060	14,200	1,650	5,560	2,150	605	251	192	258
26	237	321	2,880	1,810	12,000	1,470	5,690	1,950	911	237	282	220
27	234	309	2,000	2,050	4,690	1,270	4,150	1,680	1,600	234	625	211
28	227	309	1,510	1,520	3,400	1,350	5,630	1,390	1,310	277	445	204
29	227	301	1,220	2,170	-----	3,550	7,840	1,050	904	251	297	201
30	244	285	1,090	4,110	-----	6,980	5,170	918	662	217	1,120	198
31	262	-----	1,170	4,040	-----	4,760	-----	981	-----	195	1,440	-----
TOTAL	7,054	11,832	42,542	70,853	98,941	71,610	68,251	44,846	33,078	10,203	10,809	8,623
MEAN	228	394	1,372	2,286	3,534	2,310	2,275	1,447	1,103	329	349	287
MAX	285	766	3,070	6,780	14,200	6,980	7,840	3,600	1,980	545	1,440	814
MIN	198	254	297	784	800	1,270	718	580	605	195	192	198
CFSM	.19	.32	1.13	1.88	2.90	1.90	1.87	1.19	.90	.27	.29	.24
IN.	.22	.36	1.30	2.16	3.02	2.19	2.08	1.37	1.01	.31	.33	.26

CAL YR 1974 TOTAL 565,423 MEAN 1,549 MAX 12,600 MIN 195 CFSM 1.27 IN 17.25  
WTR YR 1975 TOTAL 478,642 MEAN 1,311 MAX 14,200 MIN 192 CFSM 1.08 IN 14.61

PEAK DISCHARGE (BASE, 7,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	0100	9.56	7,140	03-30	1430	9.71	7,350
02-25	1700	14.03	14,700	04-29	1000	10.09	7,890

## 03351310 Crooked Creek at Indianapolis, Ind.

LOCATION.--Lat 39°49'47", long 86°12'22", in NW¼SE¼ sec.16, T.16 N., R.3 E., Marion County, on left bank 150 ft (46 m) downstream from 42nd Street bridge in Indianapolis, and at mile 1.6 (2.6 km).

DRAINAGE AREA.--17.9 mi<sup>2</sup> (46.4 km<sup>2</sup>).

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 711.00 ft (216.713 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--6 years, 20.2 ft<sup>3</sup>/s (0.572 m<sup>3</sup>/s), 15.32 in/yr (389 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,580 ft<sup>3</sup>/s (73.1 m<sup>3</sup>/s) Feb. 23, gage height, 7.85 ft (2.393 m); minimum daily, 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) Aug. 24, 25.

Period of record: Maximum discharge, 2,580 ft<sup>3</sup>/s (73.1 m<sup>3</sup>/s) Feb. 23, 1975, gage height, 7.85 ft (2.393 m); minimum daily, 0.47 ft<sup>3</sup>/s (0.013 m<sup>3</sup>/s) Dec. 2, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	6.5	5.9	46	72	20	26	23	29	3.3	3.2	2.8
2	3.5	12	10	26	40	16	22	18	42	3.1	3.2	2.7
3	3.5	5.3	9.6	34	30	13	21	16	18	3.0	31	4.7
4	3.3	21	8.7	28	27	12	16	15	11	3.0	23	4.2
5	3.3	43	7.7	21	32	11	14	12	13	2.9	6.3	4.0
6	3.2	11	7.3	21	39	11	13	11	9.7	3.1	7.4	3.3
7	3.2	7.0	65	21	24	33	12	8.7	6.7	5.6	3.6	3.5
8	3.2	5.7	102	97	18	23	11	8.0	5.5	9.1	3.3	3.1
9	3.2	5.4	40	83	16	17	11	7.5	5.2	3.7	2.8	4.2
10	3.2	5.1	26	173	14	20	11	7.0	4.8	2.9	2.7	3.2
11	3.2	7.4	24	210	13	19	9.8	7.1	22	2.6	3.7	37
12	3.2	6.1	58	55	16	90	9.1	22	9.9	2.6	3.0	19
13	4.0	13	35	34	13	39	8.6	8.5	5.9	3.2	4.9	5.0
14	6.0	36	26	24	11	28	8.3	6.7	12	3.3	5.4	3.4
15	8.6	15	51	20	16	26	8.3	6.0	6.8	2.2	3.6	3.0
16	5.9	9.3	53	18	39	30	7.9	5.6	5.3	2.1	3.1	2.6
17	5.0	7.3	32	15	83	32	8.1	5.1	8.4	2.1	2.6	3.2
18	4.0	6.3	23	17	55	28	12	4.9	5.4	59	2.5	3.0
19	3.6	6.1	24	19	36	60	77	4.7	4.4	23	2.4	3.5
20	3.3	5.9	20	15	27	34	21	4.8	4.0	10	2.3	4.2
21	3.2	5.6	25	13	21	25	14	4.5	4.8	5.4	2.2	3.7
22	3.2	4.7	21	12	197	22	12	76	3.9	3.8	2.2	3.4
23	5.8	4.9	29	12	1,110	17	43	14	3.6	4.4	2.1	3.0
24	7.8	12	56	13	131	20	495	7.4	3.5	12	2.0	2.7
25	6.0	6.4	42	39	53	15	237	6.3	17	4.5	2.0	3.4
26	5.2	5.0	25	36	37	11	83	15	14	3.3	5.5	3.2
27	4.5	4.8	20	23	28	22	74	13	5.8	6.6	3.4	3.3
28	4.0	4.9	18	26	25	64	78	5.9	4.6	43	2.4	3.4
29	6.0	4.6	16	155	-----	206	41	5.2	3.9	5.9	7.1	3.5
30	11	4.6	15	51	-----	52	29	5.9	3.7	4.0	7.4	3.5
31	7.3	-----	47	89	-----	33	-----	27	-----	3.5	3.4	-----
TOTAL	144.1	291.9	942.2	1,446	2,223	1,049	1,433.1	381.8	293.8	246.2	159.7	152.7
MEAN	4.65	9.73	30.4	46.6	79.4	33.8	47.8	12.3	9.79	7.94	5.15	5.09
MAX	11	43	102	210	1,110	206	495	76	42	59	31	37
MIN	3.2	4.6	5.9	12	11	11	7.9	4.5	3.5	2.1	2.0	2.6
CFSM	.26	.54	1.70	2.60	4.44	1.89	2.67	.69	.55	.44	.29	.28
IN.	.30	.61	1.96	3.01	4.62	2.18	2.98	.79	.61	.51	.33	.32

CAL YR 1974 TOTAL 10,188.9 MEAN 27.9 MAX 847 MIN 2.0 CFSM 1.56 IN 21.17  
WTR YR 1975 TOTAL 8,763.5 MEAN 24.0 MAX 1,110 MIN 2.0 CFSM 1.34 IN 18.21

PEAK DISCHARGE (BASE, 400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0430	7.85	2,580	04-25	1400	4.84	495
04-24	0430	6.27	1,230				



## WABASH RIVER BASIN

03351400 Sugar Creek near Middletown, Ind.

LOCATION.--Lat 40°02'27", long 85°31'30", in NW¼SE¼ sec.5, T.18 N., R.9 E., Henry County, on right bank 90 ft (27 m) upstream from bridge on County Road 750 North, 1 mile (2 km) southeast of Middletown.

DRAINAGE AREA.--5.80 mi<sup>2</sup> (15.02 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 6.84 ft<sup>3</sup>/s (0.194 m<sup>3</sup>/s), 16.02 in/yr (407 mm/yr). Figures published in WRD Ind. 1973, 1974, in error.

DISCHARGE, IN CUBIC FEET PER SECOND • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.25	.62	23	19	8.0	8.3	76	2.4	.30	.70	.25
2	.30	.25	.55	7.7	11	7.1	7.4	22	2.4	.25	.70	.25
3	.30	.25	.55	7.7	8.6	4.9	5.8	15	2.4	.25	.70	.17
4	.25	.62	.55	6.8	6.8	4.3	4.6	10	1.9	.25	1.5	.21
5	.21	1.2	.55	4.3	12	4.0	4.0	8.0	12	.25	.47	.21
6	.21	.62	.55	3.8	18	3.8	3.8	6.1	10	.30	.35	.14
7	.30	.47	3.0	3.0	9.0	7.1	3.5	4.9	4.0	.30	.30	.03
8	.30	.41	28	79	4.0	5.8	3.3	4.0	2.4	.30	.25	.14
9	.30	.41	9.6	75	1.8	4.9	3.3	3.5	1.7	.25	.30	.11
10	.30	.35	4.3	78	1.9	4.9	3.0	3.0	1.5	.21	.30	.09
11	.30	.41	2.8	100	2.0	4.0	2.8	2.8	2.6	.21	.35	.25
12	.30	.41	7.1	17	1.7	4.0	2.6	3.8	1.9	.21	.35	.14
13	.30	.41	7.1	7.1	1.5	14	2.4	2.4	1.2	.21	.30	.09
14	.47	1.1	4.9	3.8	1.4	9.3	2.4	2.2	1.2	.21	.35	.09
15	.70	.70	18	2.6	1.5	6.4	2.4	2.2	1.5	.21	.35	.09
16	.30	.55	18	1.9	11	6.8	2.2	1.9	1.1	.17	.30	.09
17	.25	.47	8.6	2.0	81	22	2.2	1.5	1.0	.17	.30	.08
18	.21	.47	5.1	2.4	44	37	2.6	1.5	.89	.25	.25	.08
19	.21	.47	4.3	2.2	15	51	3.0	1.4	.70	.25	.21	.08
20	.21	.47	3.0	1.7	8.0	14	2.0	1.2	.70	.25	.21	.09
21	.21	.41	3.0	1.4	5.5	9.6	1.9	1.1	.62	.17	.21	.07
22	.21	.41	2.6	1.0	76	7.7	1.9	9.6	.62	.17	.21	.07
23	.21	.41	6.8	1.0	410	6.1	3.3	3.8	.55	.14	.21	.07
24	.30	.62	17	2.4	109	11	69	2.4	.55	.14	.21	.07
25	.30	.70	10	27	44	7.4	69	1.9	2.9	.17	.21	.11
26	.25	.62	5.1	11	23	5.1	38	1.9	1.0	.17	.25	.14
27	.25	.62	3.5	4.3	15	5.1	28	1.5	.70	.21	.25	.14
28	.25	.55	2.4	7.1	11	26	443	1.2	.55	.30	.25	.14
29	.25	.47	2.2	138	---	122	63	2.8	.41	.25	.25	.11
30	.25	.47	2.0	38	---	29	32	1.7	.35	.21	.25	.11
31	.25	---	18	23	---	12	---	2.2	---	.25	.30	---
TOTAL	8.86	15.57	199.77	683.2	952.7	500.3	820.7	203.5	61.74	6.98	11.14	3.71
MEAN	.29	.52	6.44	22.0	34.0	16.1	27.4	6.56	2.06	.23	.36	.12
MAX	.70	1.2	28	138	410	122	443	76	12	.30	1.5	.25
MIN	.21	.25	.55	1.0	1.4	3.8	1.9	1.1	.35	.14	.21	.03
CFSM	.05	.09	1.11	3.79	5.86	2.78	4.72	1.13	.36	.04	.06	.02
IN.	.06	.10	1.28	4.38	6.11	3.21	5.26	1.31	.40	.04	.07	.02

CAL YR 1974 TOTAL 2986.45 MEAN 8.18 MAX 135 MIN .17 CFSM 1.41 IN 19.15  
WTR YR 1975 TOTAL 3468.17 MEAN 9.50 MAX 443 MIN .03 CFSM 1.64 IN 22.24

PEAK DISCHARGE (BASE, 120 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-08	2100	4.53	171	02-23	0300	6.45	724
01-11	0200	4.50	165	03-29	0400	4.76	225
01-29	0600	4.68	205	04-28	0200	7.72	1,100
02-17	1400	4.33	128	05-01	0400	4.77	227

## 03351400 Sugar Creek near Middletown, Ind.--Continued

EXTREMES.--Current year: Maximum discharge, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) Apr. 28, gage height, 7.72 ft (2.353 m); minimum daily, 0.03 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 7.

Period of record: Maximum discharge, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) April 28, 1975, gage height, 7.72 ft (2.353 m); minimum daily, 0.03 daily discharge, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 30 to Sept. 2, 1972.

The figures of maximum discharge for all water years of record have been revised, as shown in the following table. They supersede figures published in WSP 2109 and WRD Ind. 1971-74.

Water year	Date	Discharge (ft <sup>3</sup> /s)	Gage height (feet)
1969	June 13, 1969 <sup>a</sup>	352	5.22
1970	Mar. 4, 1970	191	4.62
1971	Feb. 19, 1971	468	5.60
1972	Dec. 14, 1971	512	5.75
1973	Nov. 13, 1972	454	5.55
1974	June 30, 1974	1,100	7.72

a corrected

REMARKS.--Records good.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water years 1969-74, superseding those published in WSP 2109 and WRD Ind. 1971-74, are given in the following tables:

Date	Discharge	Date	Discharge	Date	Discharge
1969		1972		1974	
Jan. 18	87	Nov. 2	156	Mar. 29	76
29	114	14	176	30	189
30	176			31	64
		1973		June 22	96
1971		Dec. 25	147	23	105
Dec. 14	134	26	149	30	200
15	151	27	92	July 1	112

Month	Ft <sup>3</sup> /s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
January 1969.....	652.19	176	0.72	21.0	3.62	4.17
Water year 1969.....	2,463.44	176	.07	6.75	1.16	15.75
December 1971.....	610.57	151	.63	19.7	3.40	3.92
Calendar year 1971...	1,898.61	151	.08	5.20	.90	12.21
Water year 1972.....	2,008.67	151	.02	5.49	.95	12.94
November 1972.....	786.0	176	5.7	26.2	4.52	5.04
Calendar year 1972...	2,617.16	176	.02	7.15	1.23	16.75
Water year 1973.....	3,295.84	176	.10	9.03	1.56	21.18
December 1973.....	543.2	149	1.2	17.5	3.02	3.48
March 1974.....	542.4	189	3.2	17.7	3.05	3.52
June 1974.....	494.4	200	1.1	16.5	2.84	3.17
July 1974.....	200.4	112	.44	6.46	1.11	1.28
Calendar year 1973...	2,687.60	149	.10	7.36	1.27	17.24
Water year 1974.....	3,480.46	200	.10	9.54	1.64	22.26

REVISED PEAK DISCHARGE.--1969: Jan. 29 (2330) 348 ft<sup>3</sup>/s (5.21 ft); Apr. 18 (0600) 331 ft<sup>3</sup>/s (5.15 ft); June 13 (0230) 351 ft<sup>3</sup>/s (5.22 ft); June 15 (1130) 342 ft<sup>3</sup>/s (5.19 ft); June 24 (1930) 328 ft<sup>3</sup>/s (5.14 ft); Aug. 9 (2000) 298 ft<sup>3</sup>/s (5.03 ft).

1970: Nov. 19 (unknown) 187 ft<sup>3</sup>/s (4.60 ft); Mar. 4 (1900) 191 ft<sup>3</sup>/s (4.62 ft).

1971: Feb. 19 (1900) 468 ft<sup>3</sup>/s (5.60 ft); Feb. 22 (0700) 352 ft<sup>3</sup>/s (5.22 ft); June 19 (1100) 440 ft<sup>3</sup>/s (5.50 ft).

1972: Dec. 14 (1900) 512 ft<sup>3</sup>/s (5.75 ft); Dec. 30 (1000) 171 ft<sup>3</sup>/s (4.53 ft); Apr. 12 (1930) 220 ft<sup>3</sup>/s (4.74 ft).

1973: Nov. 2 (0700) 358 ft<sup>3</sup>/s (5.24 ft); Nov. 13 (2345) 454 ft<sup>3</sup>/s (5.55 ft); Mar. 11 (0645) 176 ft<sup>3</sup>/s (4.55 ft); June 12 (1100) 180 ft<sup>3</sup>/s (4.57 ft).

1974: Dec. 26 (1900) 328 ft<sup>3</sup>/s (5.14 ft); Jan. 18 (1400) 184 ft<sup>3</sup>/s (4.59 ft); Jan. 26 (2000) 240 ft<sup>3</sup>/s (4.82 ft); Mar. 30<sup>a</sup> (1600) 189 ft<sup>3</sup>/s (4.61 ft); Apr. 3 (1900) 205 ft<sup>3</sup>/s (4.68 ft); June 30 (0200) 1,100 ft<sup>3</sup>/s (7.72 ft).

a corrected

03351500 Fall Creek near Fortville, Ind.

LOCATION.--Lat 39°57'15", long 85°52'05", in NW¼NE¼ sec.5, T.17 N., R.6 E., Hamilton County, on right bank 100 ft (30 m) downstream from bridge on State Highway 238, 0.2 mile (0.3 km) (revised) downstream from Lick Creek, 2 miles (3 km) northwest of Fortville, and at mile 26.1 (42.0 km).

DRAINAGE AREA.--169 mi<sup>2</sup> (437 km<sup>2</sup>).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 787.43 ft (240.009 m) above mean sea level (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 165 ft<sup>3</sup>/s (4.673 m<sup>3</sup>/s), 13.27 in/yr (337 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,370 ft<sup>3</sup>/s (124 m<sup>3</sup>/s) Feb. 24, gage height, 8.51 ft (2.594 m); minimum daily, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 8,750 ft<sup>3</sup>/s (248 m<sup>3</sup>/s) Apr. 21, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Sept. 23, 24, 1941.

Maximum stage known, about 12 ft (3.7 m) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	51	74	388	586	415	438	695	221	70	47	36
2	48	49	74	287	443	349	359	563	176	67	50	35
3	48	49	71	240	362	294	327	387	163	64	71	32
4	48	74	68	240	315	264	269	325	142	62	85	31
5	47	164	68	209	319	249	236	280	143	62	64	31
6	47	142	67	187	438	234	215	250	186	64	56	42
7	47	98	95	179	359	298	203	221	142	67	49	34
8	47	80	346	303	271	331	195	202	120	97	45	31
9	47	68	331	799	220	271	185	188	109	78	44	29
10	47	63	221	769	180	251	179	176	103	65	42	29
11	47	61	177	1,100	195	236	173	170	137	59	58	40
12	47	61	213	701	170	460	162	184	167	57	47	52
13	47	59	234	388	155	535	157	169	127	55	43	42
14	49	122	211	280	140	383	149	156	117	65	50	35
15	57	124	228	236	155	305	147	150	114	57	56	33
16	59	97	394	203	205	284	146	143	114	53	49	34
17	53	83	294	175	402	331	147	136	104	51	45	35
18	52	75	224	173	784	544	149	132	101	54	43	35
19	51	71	197	191	547	606	199	126	91	61	40	35
20	51	74	172	172	378	495	168	121	87	55	38	37
21	49	67	164	155	310	367	146	116	93	52	37	36
22	49	61	158	149	354	319	140	211	88	49	35	33
23	49	61	164	144	2,480	269	153	212	81	46	33	33
24	52	73	243	146	3,720	310	694	163	77	47	32	31
25	52	86	303	251	1,500	308	940	148	79	46	32	33
26	52	83	236	399	777	247	930	150	146	43	32	34
27	51	78	193	260	589	224	538	155	107	42	33	34
28	51	73	168	213	492	287	971	132	91	45	31	36
29	49	68	153	773	-----	1,260	1,920	121	82	43	32	32
30	51	64	146	1,030	-----	1,140	678	146	75	39	38	31
31	51	-----	172	599	-----	567	-----	148	-----	38	38	-----
TOTAL	1,544	2,379	5,859	11,339	16,846	12,433	11,313	6,476	3,583	1,753	1,395	1,041
MEAN	49.8	79.3	189	366	602	401	377	209	119	56.5	45.0	34.7
MAX	59	164	394	1,100	3,720	1,260	1,920	695	221	97	85	52
MIN	47	49	67	144	140	224	140	116	75	38	31	29
CFSM	.29	.47	1.12	2.17	3.56	2.37	2.23	1.24	.70	.33	.27	.21
IN.	.34	.52	1.29	2.50	3.71	2.74	2.49	1.43	.79	.39	.31	.23

CAL YR 1974 TOTAL 76,597 MEAN 210 MAX 2,010 MIN 46 CFSM 1.24 IN 16.86  
WTR YR 1975 TOTAL 75,961 MEAN 208 MAX 3,720 MIN 29 CFSM 1.23 IN 16.72

PEAK DISCHARGE (BASE, 1,300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	0700	8.51	4,370	04-29	0800	7.38	2,520
03-29	2300	6.29	1,610				

03351500 Fall Creek near Fortville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT CHARGE (MG/L)	SUS- PENDE SEDIMENT 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
FEB. 25...	1500	1200	163	528	72	78	85

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
FEB. 25...	92	96	98	98	99	100

## WABASH RIVER BASIN

## 03351700 Geist Reservoir near Oaklandon, Ind.

LOCATION.--Lat 39°54'26", long 85°59'07", in SW 1/4 sec.20, T.17 N., R.5 E., Marion County, in intake structure of reservoir on Fall Creek, 2.6 miles (4.2 km) northwest of Oaklandon, 17.6 miles (28.3 km) (revised) above mouth.

DRAINAGE AREA.--215 mi<sup>2</sup> (556 km<sup>2</sup>).

PERIOD OF RECORD.--January 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 755.00 ft (230.124 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 25,020 acre-ft (30.8 hm<sup>3</sup>) Feb. 24, elevation, 786.90 ft (239.847 m); minimum, 19,400 acre-ft (23.9 hm<sup>3</sup>) Sept. 30, elevation, 784.00 ft (238.963 m).

Period of record: Maximum contents, 27,360 acre-ft (33.7 hm<sup>3</sup>) May 18, 1943, elevation, 788.02 ft (240.188 m); minimum, 11,230 acre-ft (13.8 hm<sup>3</sup>) Jan. 5, 1964, elevation, 778.42 ft (237.262 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by a 36-inch (914 mm) valve. Minimum design capacity is essentially empty at invert on outlet conduit at elevation of 756.75 ft (230.657 m). Capacity at uncontrolled spillway elevation, 785 ft (239.3 m) is 21,180 acre-ft (26.1 hm<sup>3</sup>). Reservoir is used for low-flow augmentation of the water supply for Indianapolis and recreation. Reservoir filled for first time on Mar. 17, 1943.

COOPERATION.--Records furnished by Indianapolis Water Company.

## Month-end elevation and contents, water year October 1974 to September 1975

Date		Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.	30.....	785.16	21,480	-
Oct.	31.....	784.86	20,930	-550
Nov.	30.....	785.19	21,540	+610
Dec.	31.....	785.29	21,730	+190
Calendar year 1974.....		-	-	-580
Jan.	31.....	785.83	22,800	+1,070
Feb.	28.....	785.68	22,490	-310
Mar.	31.....	785.90	22,940	+450
Apr.	30.....	785.93	23,000	+60
May	31.....	785.27	21,690	-1,310
June	30.....	785.17	21,500	-190
July	31.....	784.91	21,020	-480
Aug.	31.....	784.62	20,500	-520
Sept.	30.....	784.00	19,400	-1,100
Water year 1975.....		-	-	-2,080

## 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 ft<sup>3</sup>/s

1974				1975									
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
147	139	133	149	135	134	132	137	150	158	168	178	153	147

03352200 Mud Creek at Indianapolis, Ind.

LOCATION.--Lat 39°53'30", long 86°00'57", in SE¼NE¼ 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 (0.3 km) northeast of intersection of 75th Street and Sargent Road, 1.5 miles (2.4 km) upstream from mouth, and 2.0 miles (3.2 km) southeast of Castleton.

DRAINAGE AREA.--42.4 mi<sup>2</sup> (109.8 km<sup>2</sup>).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 752.99 ft (229.511 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--17 years, 37.4 ft<sup>3</sup>/s (1.059 m<sup>3</sup>/s), 11.97 in/yr (304 mm/yr).

EXTREMES.--Current year: Maximum discharge, 934 ft<sup>3</sup>/s (26.4 m<sup>3</sup>/s) Feb. 23, gage height, 7.11 ft (2.167 m); minimum daily, 1.4 ft<sup>3</sup>/s (0.04 m<sup>3</sup>/s) Aug. 25.

Period of record: Maximum discharge, 2,010 ft<sup>3</sup>/s (56.9 m<sup>3</sup>/s) Apr. 21, 1964, gage height, 8.37 ft (2.551 m); minimum daily, 0.2 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) several days in September 1963, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.7	12	119	153	87	79	88	29	7.0	3.0	1.9
2	6.2	6.7	12	82	113	74	64	71	28	6.7	3.1	1.8
3	5.5	6.6	12	75	92	62	58	62	23	6.6	4.3	1.8
4	5.5	16	12	73	80	54	47	56	20	6.4	4.0	1.8
5	5.3	91	12	60	88	50	41	47	19	6.3	3.4	1.7
6	5.1	77	12	54	125	47	38	43	17	7.5	3.1	2.4
7	5.1	53	37	52	94	67	35	38	16	7.4	3.0	1.6
8	5.3	39	165	118	69	92	33	34	14	9.5	2.9	1.6
9	5.6	33	128	228	54	71	30	32	14	7.2	2.6	1.5
10	5.5	28	88	265	47	64	29	29	13	6.1	2.5	1.5
11	5.3	28	71	335	44	56	27	27	21	5.7	2.4	3.2
12	5.2	25	104	184	38	115	25	28	21	5.4	4.3	2.8
13	5.0	27	101	106	34	118	23	25	17	5.5	3.0	2.2
14	5.3	69	88	77	31	87	22	24	16	5.6	2.7	1.9
15	6.3	62	112	61	31	69	21	23	15	5.1	3.1	1.9
16	5.9	41	147	51	49	69	20	22	14	4.8	5.2	1.9
17	5.8	29	105	41	120	87	22	20	13	4.6	3.5	2.2
18	5.3	23	80	42	165	92	23	20	12	5.8	2.7	2.3
19	5.3	23	70	47	122	125	48	19	11	5.5	2.5	2.3
20	5.6	19	59	40	91	99	38	18	10	5.0	2.1	2.6
21	5.0	17	57	36	76	76	28	17	13	4.6	1.9	2.3
22	5.0	14	58	32	116	67	25	24	11	4.1	1.7	2.2
23	5.9	13	67	29	782	56	43	26	9.9	4.2	1.6	2.3
24	6.5	16	106	32	690	54	317	21	9.4	3.9	1.5	2.2
25	6.8	16	112	83	279	49	348	21	10	3.8	1.4	2.8
26	6.4	14	80	105	160	39	294	26	9.5	3.5	1.6	2.5
27	6.3	13	62	67	124	38	154	20	9.2	3.4	1.6	2.5
28	6.4	12	52	61	104	60	164	17	8.8	6.4	1.6	2.5
29	6.8	10	44	225	-----	248	146	16	8.2	4.1	1.6	2.5
30	7.4	9.5	41	178	-----	162	107	16	7.7	3.3	2.9	2.5
31	7.4	-----	61	150	-----	104	-----	19	-----	3.0	2.0	-----
TOTAL	180.6	837.5	2,167	3,108	3,971	2,538	2,349	949	439.7	168.0	82.8	65.2
MEAN	5.83	27.9	69.9	100	142	81.9	78.3	30.6	14.7	5.42	2.67	2.17
MAX	7.4	91	165	335	782	248	348	88	29	9.5	5.2	3.2
MIN	5.0	6.6	12	29	31	38	20	16	7.7	3.0	1.4	1.5
CFSM	.14	.66	1.65	2.36	3.35	1.93	1.85	.72	.35	.13	.06	.05
IN.	.16	.73	1.90	2.73	3.48	2.23	2.06	.83	.39	.15	.07	.06

CAL YR 1974 TOTAL 19,952.4 MEAN 54.7 MAX 934 MIN 5.0 CFSM 1.29 IN 17.51  
 WTR YR 1975 TOTAL 16,855.8 MEAN 46.2 MAX 782 MIN 1.4 CFSM 1.09 IN 14.79

PEAK DISCHARGE (BASE, 450 FT<sup>3</sup>/S) Feb. 23 (2400) 934 ft<sup>3</sup>/s (7.11 ft).



03352500 Fall Creek at Millersville, Ind.

LOCATION.--Lat 39°51'07", long 86°05'15", in NE¼NE¼ sec.9, T.16 N., R.4 E., Marion County, on right bank at downstream side of Emerson Way bridge at Millersville, and 9.2 miles (14.8 km) (revised) upstream from mouth.

DRAINAGE AREA.--298 mi<sup>2</sup> (772 km<sup>2</sup>).

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 (220.114 m) above mean sea level. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--46 years, 280 ft<sup>3</sup>/s (7.930 m<sup>3</sup>/s), 12.77 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft<sup>3</sup>/s (163 m<sup>3</sup>/s) Feb. 24, gage height, 10.87 ft (3.313 m); minimum daily, 57 ft<sup>3</sup>/s (1.61 m<sup>3</sup>/s) Sept. 13, 14, 22, 23, 30.  
 Period of record: Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) May 28, 1956, gage height, 13.53 ft (4.124 m); minimum daily, 7.8 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Sept. 28, 1941.  
 Maximum stage known, 16.3 ft (4.97 m) Mar. 26, 1913, from floodmarks, discharge, 22,000 ft<sup>3</sup>/s (623 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	70	196	660	1,260	753	877	965	433	91	66	63
2	79	68	141	645	957	616	709	915	419	80	66	63
3	69	68	129	547	739	519	623	701	340	77	92	65
4	62	112	134	516	645	457	540	581	275	91	74	67
5	63	198	129	450	616	416	478	496	263	80	70	71
6	75	272	129	394	755	392	421	445	262	105	83	74
7	79	221	247	367	715	430	391	382	244	110	75	64
8	128	174	792	593	559	516	373	328	199	106	65	64
9	101	140	788	1,300	460	463	356	303	158	108	64	77
10	93	119	590	1,650	300	441	339	277	140	92	64	64
11	74	122	453	2,150	330	399	325	261	232	78	65	61
12	74	119	540	1,600	290	717	298	309	285	69	66	59
13	75	116	557	921	265	922	293	276	234	71	64	57
14	82	277	502	630	245	761	282	243	204	75	64	57
15	96	290	561	489	240	577	270	229	181	71	69	65
16	76	240	783	406	398	522	262	227	165	73	70	66
17	73	185	687	344	687	575	280	199	156	70	66	65
18	82	161	533	330	1,140	771	280	186	156	105	65	65
19	74	151	456	362	1,060	1,040	412	180	138	117	65	64
20	82	143	394	339	779	931	376	168	122	96	63	64
21	75	127	350	285	609	707	317	162	141	86	64	58
22	69	118	333	262	700	585	282	334	128	77	63	57
23	70	112	342	247	4,080	508	353	357	109	75	62	57
24	76	163	489	252	5,630	498	1,510	288	98	71	62	59
25	74	187	593	425	4,060	508	2,120	256	150	69	62	59
26	74	165	529	679	1,870	460	2,070	303	275	67	72	77
27	74	147	428	579	1,200	426	1,280	278	173	67	63	64
28	71	138	359	486	894	556	1,190	230	146	73	63	61
29	70	127	311	1,320	-----	1,950	1,940	191	127	70	75	59
30	76	134	288	1,660	-----	2,020	1,480	182	107	66	82	57
31	70	-----	359	1,420	-----	1,280	-----	251	-----	65	66	-----
TOTAL	2,421	4,664	13,122	22,308	31,483	21,716	20,727	10,503	6,060	2,551	2,110	1,903
MEAN	78.1	155	423	720	1,124	701	691	339	202	82.3	68.1	63.4
MAX	128	290	792	2,150	5,630	2,020	2,120	965	433	117	92	77
MIN	62	68	129	247	240	392	262	162	98	65	62	57
CFSM	.26	.52	1.42	2.42	3.77	2.35	2.32	1.14	.68	.28	.23	.21
IN.	.30	.58	1.64	2.78	3.93	2.71	2.59	1.31	.76	.32	.26	.24
CAL YR 1974	TOTAL 145,195	MEAN 398	MAX 3,720	MIN 48	CFSM 1.34	IN 18.13						
WTR YR 1975	TOTAL 139,568	MEAN 382	MAX 5,630	MIN 57	CFSM 1.28	IN 17.42						

## 03353000 White River at Indianapolis, Ind.

LOCATION (revised).--Lat 39°45'05", long 86°10'30", in NW¼NW¼ 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, 2.6 miles (4.2 km) downstream from Fall Creek, and at mile 230.3 (370.6 km).

DRAINAGE AREA.--1,635 mi<sup>2</sup> (4,235 km<sup>2</sup>).

PERIOD OF RECORD.--March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of National Weather Service for site 1.1 miles (1.8 km) upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 miles (3.7 km) 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 (201.857 m) above mean sea level. March 1904 to July 1906, nonrecording gage at railroad bridge 0.8 mile (1.3 km) upstream at datum approximately 2.9 ft (0.88 m) higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant, 2.5 miles (4.0 km) downstream at datum 660.00 ft (201.168 m) lower. July 21, 1931, to Mar. 2, 1932, nonrecording gage at present site at datum 660.00 ft (201.168 m) lower.

AVERAGE DISCHARGE.--46 years (1904-5, 1930 to current year), 1,388 ft<sup>3</sup>/s (39.31 m<sup>3</sup>/s), 11.53 in/yr (293 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,000 ft<sup>3</sup>/s (538 m<sup>3</sup>/s) Feb. 25, gage height, 14.60 ft (4.450 m); minimum daily, 158 ft<sup>3</sup>/s (4.47 m<sup>3</sup>/s) Aug. 1, Sept. 29.

Period of record: Maximum discharge, 37,200 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) May 18, 1943; maximum gage height, 21.57 ft (6.575 m)

Jan. 16, 1937; minimum daily discharge, 8.0 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Sept. 29, 1941.

Flood of Mar. 26, 1913, reached a stage of 30.0 ft (9.14 m), from floodmarks determined by Indianapolis Water Co., discharge, 70,000 ft<sup>3</sup>/s (1,980 m<sup>3</sup>/s).

REMARKS.--Records fair. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	350	415	2540	4660	3720	4230	4610	1640	590	158	887
2	266	325	493	3330	3640	3100	3130	4160	2130	507	166	566
3	252	334	427	2870	2980	2620	2670	3420	1930	446	351	446
4	233	570	395	2380	2560	2150	2250	2800	1670	398	373	424
5	227	834	394	2070	2420	1980	1890	2380	1500	416	388	453
6	222	735	372	1830	2900	1820	1650	2040	1300	471	397	392
7	226	638	723	1640	3470	2030	1490	1780	1250	503	272	276
8	264	479	1850	2260	2930	2450	1390	1550	1130	483	229	236
9	369	371	2490	4140	2500	2490	1320	1360	916	501	206	199
10	323	327	2520	6340	2510	2150	1240	1250	764	469	189	183
11	316	351	1900	8860	2380	1970	1180	1140	1200	382	358	747
12	301	315	1920	8430	1790	2880	1110	1350	1270	316	217	569
13	296	355	2100	5680	1790	3660	1030	1180	1210	321	419	343
14	296	650	2310	3340	1740	3670	972	1060	1060	327	504	286
15	350	699	2490	2380	1190	2830	943	964	970	318	312	244
16	305	632	3140	1880	1570	2410	915	900	1720	286	333	226
17	300	541	3440	1550	1930	2420	914	843	2180	254	465	216
18	267	471	2770	1430	3720	2640	980	796	1620	853	363	207
19	261	449	2200	1420	5460	3810	2370	750	1110	801	292	223
20	245	459	1760	1410	4240	4820	2910	796	860	512	252	294
21	287	423	1510	1230	3090	4380	2190	691	844	414	255	215
22	253	393	1350	1090	3390	3150	1580	1970	1450	342	219	207
23	224	355	1290	1010	12700	2560	1820	2530	1060	255	219	192
24	263	533	1910	979	17500	2360	6040	2640	777	256	199	163
25	250	445	3330	1270	18600	2160	8010	2230	1230	240	198	318
26	330	406	3510	2200	15300	1950	8690	2310	1110	212	355	233
27	310	371	2580	2600	7570	1890	6320	1950	1510	227	430	187
28	293	353	1930	2110	4500	2270	5970	1750	1500	489	500	164
29	266	344	1570	3500	---	5640	8990	1270	1060	299	505	158
30	424	326	1360	5050	---	8560	7310	1050	774	208	733	163
31	423	---	1710	6030	---	7060	---	1550	---	171	1380	---
TOTAL	8939	13834	56159	92849	139030	97600	91504	55070	38745	12267	11237	9417
MEAN	288	461	1812	2995	4965	3148	3050	1776	1292	396	362	314
MAX	424	834	3510	8860	18600	8560	8990	4610	2180	853	1380	887
MIN	222	315	372	979	1190	1820	914	691	764	171	158	158
CFSM	.18	.28	1.11	1.83	3.04	1.93	1.87	1.09	.79	.24	.22	.19
IN.	.20	.31	1.28	2.11	3.16	2.22	2.08	1.25	.88	.28	.26	.21

CAL YR 1974 TOTAL 727977 MEAN 1994 MAX 14400 MIN 127 CFSM 1.22 IN 16.56  
WTR YR 1975 TOTAL 626651 MEAN 1717 MAX 18600 MIN 158 CFSM 1.05 IN 14.26

PEAK DISCHARGE (BASE, 8,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0400	10.32	9,000	04-25	2300	10.90	10,100
02-25	1200	14.60	19,000	04-29	2000	10.54	9,430
03-30	1700	10.39	9,140				

03353120 Pleasant Run at Arlington Avenue at Indianapolis, Ind.

LOCATION.--Lat 39°46'33", long 86°03'50", in SW¼NW¼ sec.2, T.15 N., R.4 E., Marion County, on right bank 46 ft (14 m) upstream from Arlington Avenue bridge in Indianapolis, 0.5 mile (0.8 km) downstream from small left-bank tributary, and at mile 7.9 (12.7 km).

DRAINAGE AREA.--7.58 mi<sup>2</sup> (19.63 km<sup>2</sup>).

PERIOD OF RECORD.--December 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--15 years (1960 to current year), 7.38 ft<sup>3</sup>/s (0.209 m<sup>3</sup>/s), 13.22 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 942 ft<sup>3</sup>/s (26.7 m<sup>3</sup>/s) Feb. 23, gage height, 7.77 ft (2.368 m); minimum daily, 0.48 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Aug. 7, 10.

Period of record: Maximum discharge, 1,610 ft<sup>3</sup>/s (45.6 m<sup>3</sup>/s) Mar. 4, 1963, gage height, 10.32 ft (3.146 m); no flow at times some years.

Flood in May 1956 reached a stage of 16.0 ft (4.88 m), from information by local resident.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	1.9	6.2	13	12	2.3	5.5	11	13	3.2	1.1	1.1
2	.74	1.7	15	5.7	5.2	1.9	4.6	4.8	18	2.6	1.1	2.0
3	.69	3.2	9.0	15	3.3	1.5	4.8	4.5	5.8	2.0	6.3	14
4	.67	34	6.5	6.0	5.3	1.3	3.0	3.5	3.1	1.0	1.1	5.0
5	.65	41	4.6	4.1	7.5	1.3	2.5	2.9	7.4	14	.83	28
6	.66	5.2	4.8	5.7	10	1.3	2.3	2.6	2.6	3.6	.72	5.2
7	.92	3.1	53	4.6	3.6	15	2.2	2.1	1.3	29	.48	1.5
8	.86	2.3	35	71	2.1	2.9	2.0	1.9	1.2	5.8	.50	1.1
9	.75	1.9	8.2	21	1.7	1.9	2.1	1.8	1.0	2.1	.49	.89
10	.80	1.7	5.6	101	1.9	4.8	1.9	1.7	1.1	1.3	.48	.86
11	.90	8.9	6.1	44	3.4	4.5	1.6	4.4	34	1.1	.65	51
12	1.0	2.6	22	10	18	59	1.4	16	5.2	1.1	.54	12
13	1.0	18	8.2	6.6	5.1	9.6	1.3	2.8	3.2	5.2	11	2.5
14	10	21	5.4	4.4	2.9	6.0	1.4	2.2	6.9	2.3	3.9	1.5
15	11	4.6	32	3.5	11	14	1.3	1.8	2.6	1.3	2.1	1.2
16	4.7	3.0	12	3.2	13	15	1.2	1.4	1.7	1.2	.91	2.1
17	2.7	2.4	6.6	2.7	13	21	1.2	1.2	4.6	1.1	8.4	2.4
18	2.2	2.1	4.5	10	5.8	18	11	1.1	1.8	41	1.5	2.1
19	.90	3.3	11	6.5	3.7	28	16	1.2	1.4	7.5	.89	3.1
20	1.0	3.3	5.6	5.6	2.7	8.2	2.9	1.7	1.1	2.8	.93	5.7
21	.90	2.0	6.7	4.9	2.1	5.0	2.2	1.7	1.1	1.9	.88	2.4
22	1.5	1.8	4.9	4.5	146	4.9	2.1	56	.91	1.6	.89	2.4
23	2.4	4.4	5.9	5.1	220	6.0	47	4.0	1.0	1.4	.77	2.3
24	7.1	18	20	7.0	27	32	130	2.4	2.4	1.5	.79	2.4
25	2.8	4.8	8.5	23	12	7.0	54	13	94	1.3	.80	22
26	2.4	3.2	4.6	10	6.3	3.8	15	10	13	1.1	5.4	3.0
27	1.6	3.0	3.7	6.5	4.0	32	27	4.9	4.0	5.8	.81	1.8
28	1.4	2.5	3.4	42	3.2	80	16	2.3	2.4	6.1	.84	1.5
29	4.4	2.0	3.2	47	-----	119	8.4	4.0	2.1	1.3	6.9	1.2
30	5.5	2.8	2.9	10	-----	15	5.7	4.0	2.5	1.1	8.6	1.3
31	2.5	-----	45	50	-----	7.5	-----	44	-----	1.2	2.0	-----
TOTAL	75.59	209.7	370.1	553.6	551.8	529.7	377.6	216.9	240.41	153.5	72.60	183.55
MEAN	2.44	6.99	11.9	17.9	19.7	17.1	12.6	7.00	8.01	4.95	2.34	6.12
MAX	11	41	53	101	220	119	130	56	94	41	11	51
MIN	.65	1.7	2.9	2.7	1.7	1.3	1.2	1.1	.91	1.0	.48	.86
CFSM	.32	.92	1.57	2.36	2.60	2.26	1.66	.92	1.06	.65	.31	.81
IN.	.37	1.03	1.82	2.72	2.71	2.60	1.85	1.06	1.18	.75	.36	.90

CAL YR 1974 TOTAL 3,848.95 MEAN 10.5 MAX 264 MIN .44 CFSM 1.39 IN 18.89  
WTR YR 1975 TOTAL 3,535.05 MEAN 9.69 MAX 220 MIN .48 CFSM 1.28 IN 17.35

PEAK DISCHARGE (BASE, 450 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-22	2400	7.49	872	04-24	0145	6.55	632
02-23	0045	7.77	942	05-22	0415	5.97	487
03-29	0100	5.95	482	06-25	1500	6.83	704

03353160 Pleasant Run at Brookville Road at Indianapolis, Ind.

LOCATION.--Lat 39°45'52", long 86°05'43", in NE¼NW¼ sec.9, T.15 N., R.4 E., Marion County, on right bank at downstream side of Brookville Road bridge in Indianapolis, 2.2 miles (3.5 km) downstream from Arlington Avenue, and at mile 5.7 (9.2 km).

DRAINAGE AREA.--10.1 mi<sup>2</sup> (26.2 km<sup>2</sup>).

PERIOD OF RECORD.--November 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 752.00 ft (229.210 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--15 years (1960 to current year), 9.87 ft<sup>3</sup>/s (0.280 m<sup>3</sup>/s), 13.27 in/yr (337 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) Feb. 23, gage height, 7.27 ft (2.216 m); minimum daily, 0.32 ft<sup>3</sup>/s (0.009 m<sup>3</sup>/s) Aug. 28.

Period of record: Maximum discharge, 2,010 ft<sup>3</sup>/s (56.9 m<sup>3</sup>/s) Mar. 4, 1963, gage height, 9.22 ft (2.810 m); no flow at times during most years.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1909: 1960. WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.2	7.3	14	17	2.7	10	17	18	3.9	1.1	1.2
2	1.2	2.0	17	6.7	8.5	2.1	8.4	6.0	23	3.3	1.7	2.0
3	.64	3.0	10	16	6.0	1.7	9.2	5.0	6.8	2.7	8.1	13
4	.55	42	7.7	7.2	8.5	1.6	5.2	4.1	11	2.0	3.1	8.6
5	.53	52	5.5	5.3	11	1.3	4.2	2.9	6.7	20	4.5	35
6	.57	7.3	5.4	6.8	15	1.3	3.7	2.3	3.1	7.1	3.2	9.0
7	.69	4.5	70	6.4	7.5	18	3.3	2.0	1.8	32	1.0	2.5
8	.75	3.2	42	87	4.2	6.4	3.2	1.8	1.8	10	.46	1.4
9	.86	2.7	9.6	21	3.0	2.5	3.5	1.6	1.0	4.0	.61	.99
10	.67	2.6	5.8	123	4.0	5.3	2.9	2.0	1.4	2.4	.77	.73
11	.79	10	6.6	52	5.6	5.0	2.5	5.6	50	1.4	3.0	59
12	1.0	3.5	25	11	46	74	2.2	28	8.7	1.2	.78	18
13	.73	20	9.1	7.6	12	12	2.0	4.7	5.3	6.1	23	4.4
14	9.3	24	6.0	6.0	8.2	6.8	1.8	3.3	12	3.4	7.4	2.8
15	10	5.0	37	5.7	14	17	2.1	2.7	5.4	1.3	2.7	2.0
16	3.8	3.1	13	5.0	20	17	2.0	2.0	3.3	1.1	1.5	2.8
17	1.9	2.4	7.1	4.4	20	21	1.9	1.8	9.2	1.2	13	3.2
18	1.9	1.9	4.9	12	11	21	10	1.6	3.0	54	3.4	2.7
19	.98	2.7	12	7.8	7.8	33	31	1.6	2.1	13	2.1	4.3
20	.65	3.5	6.8	6.1	6.0	9.0	6.8	2.2	1.6	5.2	1.5	8.9
21	.83	1.7	8.0	5.3	5.1	5.7	5.1	2.0	1.1	3.3	1.0	3.7
22	.80	1.5	5.7	5.0	210	5.7	4.0	96	1.2	2.3	1.2	3.7
23	1.2	3.6	6.8	5.1	341	7.2	67	7.6	1.5	1.3	1.6	3.2
24	6.9	24	21	6.0	34	40	178	4.1	1.6	1.9	1.5	2.8
25	2.1	6.0	9.5	17	13	8.0	76	18	120	1.4	1.7	28
26	1.9	3.8	5.0	8.8	6.8	4.7	24	19	20	.77	6.8	5.0
27	1.1	3.4	4.1	5.6	4.5	34	39	9.5	6.5	4.6	.36	3.1
28	.95	3.0	3.8	58	3.7	98	23	4.1	3.2	11	.32	2.4
29	3.4	2.4	3.6	61	-----	184	11	6.4	2.9	1.3	8.4	2.0
30	6.6	3.1	3.3	15	-----	24	10	7.2	3.0	1.3	12	1.5
31	2.6	-----	44	63	-----	14	-----	64	-----	1.0	2.3	-----
TOTAL	68.09	250.1	422.6	660.8	853.4	684.0	553.0	336.1	336.2	205.47	120.10	237.92
MEAN	2.20	8.34	13.6	21.3	30.5	22.1	18.4	10.8	11.2	6.63	3.87	7.93
MAX	10	52	70	123	341	184	178	96	120	54	23	59
MIN	.53	1.5	3.3	4.4	3.0	1.3	1.8	1.6	1.0	.77	.32	.73
CFSM	.22	.83	1.35	2.11	3.02	2.19	1.82	1.07	1.11	.66	.38	.79
IN.	.25	.92	1.56	2.43	3.14	2.52	2.04	1.24	1.24	.76	.44	.88

CAL YR 1974 TOTAL 4,724.86 MEAN 12.9 MAX 337 MIN .23 CFSM 1.28 IN 17.40  
WTR YR 1975 TOTAL 4,727.78 MEAN 13.0 MAX 341 MIN .32 CFSM 1.29 IN 17.41

PEAK DISCHARGE (BASE, 520 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0115	7.27	1,240	05-22	0330	5.87	761
03-29	0045	5.59	680	06-25	1530	6.54	979
04-24	0215	5.87	761				

## WABASH RIVER BASIN

03353180 Bean Creek at Indianapolis, Ind.

LOCATION.--Lat 39°43'45", long 86°07'14", in NW¼SW¼ sec.20, T.15 N., R.4 E., Marion County, on left bank 80 ft (24 m) upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis, and at mile 1.8 (2.9 km).

DRAINAGE AREA.--4.40 mi<sup>2</sup> (11.40 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 735.00 ft (224.028 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 5.86 ft<sup>3</sup>/s (0.166 m<sup>3</sup>/s), 18.09 in/yr (459 mm/yr).

EXTREMES.--Current year: Maximum discharge, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s) Feb. 23, gage height, 5.08 ft (1.548 m); minimum daily, 0.98 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Sept. 27.

Period of record: Maximum discharge, 556 ft<sup>3</sup>/s (15.7 m<sup>3</sup>/s) May 17, 1974, gage height, 6.57 ft (2.003 m); minimum daily, 0.75 ft<sup>3</sup>/s (0.021 m<sup>3</sup>/s) Feb. 2, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.2	3.5	9.2	9.9	8.5	7.5	6.0	4.3	2.4	2.0	1.6
2	2.1	1.8	6.5	6.6	6.4	7.4	7.0	4.2	7.5	2.7	1.7	1.9
3	2.4	2.3	3.6	8.4	5.4	7.4	7.0	4.2	4.3	2.7	2.3	1.8
4	2.8	2.2	2.8	6.5	6.5	7.2	5.5	3.7	3.8	2.0	1.9	1.9
5	2.8	5.2	2.7	4.5	6.8	6.6	5.1	3.5	6.2	7.2	3.0	2.0
6	2.7	2.9	2.7	4.6	8.7	6.8	4.8	3.2	3.5	6.0	3.5	1.4
7	3.3	2.5	18	5.0	4.7	10	4.6	3.0	2.8	3.5	1.9	1.4
8	3.6	2.4	13	23	4.1	6.0	4.8	3.0	2.7	2.7	1.9	1.5
9	3.7	2.3	5.8	11	3.8	4.9	3.7	3.1	2.8	2.0	2.0	1.6
10	3.4	2.3	4.3	48	2.8	7.2	3.7	2.6	2.9	2.0	2.6	1.4
11	3.1	3.2	4.8	17	4.0	7.1	3.7	5.0	13	2.0	4.4	10
12	3.0	2.4	8.5	7.0	10	26	3.2	4.9	3.5	1.8	1.9	2.9
13	2.5	7.2	4.1	5.8	4.9	8.6	2.9	2.0	3.1	2.0	20	1.1
14	6.9	4.2	3.1	5.0	4.1	7.5	3.2	1.8	4.1	2.2	5.3	1.1
15	2.8	2.9	12	4.6	6.2	9.6	3.5	1.7	2.7	2.0	3.5	1.2
16	1.8	2.7	5.4	4.2	8.1	11	3.7	1.6	2.5	1.8	2.2	1.4
17	2.0	2.7	3.7	3.8	8.3	13	3.5	1.6	4.3	2.0	15	1.1
18	2.9	2.6	3.0	8.2	5.5	9.9	3.8	1.5	2.6	11	4.3	1.1
19	1.8	2.9	5.5	6.0	4.5	12	10	2.1	2.3	4.1	3.1	1.5
20	1.5	3.1	3.3	4.8	4.0	7.3	4.6	2.3	2.3	2.6	2.8	2.1
21	1.9	3.1	3.3	4.7	3.6	6.2	5.4	2.0	2.2	2.4	2.7	1.2
22	2.2	3.1	2.9	4.7	45	5.5	6.9	29	2.1	2.6	2.7	1.3
23	2.9	3.5	3.4	4.7	76	6.1	21	5.0	2.1	2.7	2.2	1.1
24	2.4	6.3	7.0	5.6	19	13	36	4.1	2.1	2.5	2.1	1.5
25	2.3	2.8	4.9	11	14	5.3	27	7.9	21	2.3	2.4	8.3
26	1.9	2.6	3.5	6.5	11	4.3	19	5.7	6.0	2.1	3.8	1.0
27	1.6	2.5	2.9	5.3	10	14	16	4.1	3.5	3.7	2.0	.98
28	2.0	2.3	2.7	16	9.7	22	12	3.7	2.7	3.4	1.9	1.1
29	4.0	2.1	2.7	22	-----	38	6.1	3.7	2.3	2.2	2.8	1.8
30	3.5	2.3	2.6	10	-----	22	5.1	4.4	2.3	2.0	2.7	2.3
31	2.1	-----	19	27	-----	18	-----	12	-----	2.0	1.8	-----
TOTAL	84.1	110.4	171.2	310.7	307.0	338.4	250.3	142.6	127.5	92.6	112.4	60.58
MEAN	2.71	3.68	5.52	10.0	11.0	10.9	8.34	4.60	4.25	2.99	3.63	2.02
MAX	6.9	22	19	48	76	38	36	29	21	11	20	10
MIN	1.5	1.8	2.6	3.8	2.8	4.3	2.9	1.5	2.1	1.8	1.7	.98
CFSM	.62	.84	1.25	2.27	2.50	2.48	1.90	1.05	.97	.68	.83	.46
IN.	.71	.93	1.45	2.63	2.60	2.86	2.12	1.21	1.08	.78	.95	.51

CAL YR 1974 TOTAL 2,121.60 MEAN 5.81 MAX 92 MIN 1.4 CFSM 1.32 IN 17.94  
WTR YR 1975 TOTAL 2,107.78 MEAN 5.77 MAX 76 MIN .98 CFSM 1.31 IN 17.82

PEAK DISCHARGE (BASE, 80 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-28	2230	3.63	97	05-22	0115	4.20	153
02-23	0030	5.08	262	06-25	1715	4.46	182
03-29	0115	4.02	134	08-13	1945	4.24	157
04-24	0300	3.72	105	08-17	1230	3.75	102



03353200 Eagle Creek at Zionsville, Ind.

LOCATION.--Lat 39°56'56", long 86°15'22", in SW¼NW¼ 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, 200 ft (61 m) upstream from Long Branch, and at mile 24.7 (39.7 km).

DRAINAGE AREA.--103 mi<sup>2</sup> (267 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1957 to current year.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 816.85 ft (248.976 m) above mean sea level. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 99.4 ft<sup>3</sup>/s (2.815 m<sup>3</sup>/s), 13.11 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,840 ft<sup>3</sup>/s (109 m<sup>3</sup>/s) Feb. 23, gage height, 10.03 ft (3.057 m); minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Aug. 25.

Period of record: Maximum discharge, 12,400 ft<sup>3</sup>/s (351 m<sup>3</sup>/s) Apr. 20, 1964, gage height, 14.64 ft (4.462 m); no flow at times during 1959, 1963-68, 1970, 1971.

Flood of June 28, 1957, reached a stage of 19.20 ft (5.852 m), from floodmark.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	18	22	300	262	137	164	201	61	7.5	2.8	12
2	6.4	22	23	190	193	111	130	139	90	6.7	2.7	8.7
3	6.1	18	21	150	173	89	116	114	80	6.1	3.4	6.8
4	5.7	60	20	140	150	78	89	98	56	5.6	4.2	5.8
5	5.7	120	21	130	208	74	75	81	52	5.5	4.3	4.7
6	5.4	80	22	120	286	72	68	69	43	6.7	5.0	4.0
7	5.1	50	61	110	152	117	63	59	31	6.6	4.2	3.5
8	5.4	35	441	250	111	124	60	53	25	6.0	3.5	3.3
9	5.7	25	250	500	98	98	56	47	21	5.5	3.0	2.9
10	6.1	21	152	700	102	96	53	40	19	4.7	2.7	2.4
11	6.4	27	122	1,200	66	94	48	38	47	4.2	2.5	4.3
12	6.4	27	312	350	62	319	44	51	53	4.0	2.4	14
13	6.7	27	302	180	58	225	40	39	30	4.2	3.1	14
14	10	120	210	110	48	157	37	32	27	4.5	2.9	7.1
15	16	98	190	96	48	117	37	31	43	4.1	14	4.9
16	11	64	400	78	72	139	36	28	72	3.7	10	3.9
17	10	52	220	67	241	198	48	25	39	3.3	5.3	3.6
18	11	43	150	66	357	198	65	23	29	231	4.0	3.7
19	13	40	130	78	216	496	497	22	21	193	3.1	3.9
20	12	37	110	61	148	256	199	21	16	93	2.6	3.7
21	11	30	100	56	137	178	128	20	61	37	2.2	3.2
22	10	26	90	50	339	148	103	61	61	17	1.9	2.7
23	11	23	130	48	2,810	117	186	64	29	12	1.9	2.5
24	21	26	450	56	1,130	115	1,830	42	19	8.9	1.8	2.4
25	19	24	350	214	449	98	1,560	33	33	6.4	1.6	2.2
26	17	22	180	201	293	78	690	78	19	5.3	229	2.0
27	18	21	125	117	206	74	345	92	15	4.7	131	2.0
28	20	20	105	109	159	152	419	59	13	5.2	43	2.1
29	23	20	90	762	-----	1,390	251	41	10	3.9	20	1.8
30	30	17	80	360	-----	469	186	36	8.2	3.3	17	1.7
31	21	-----	100	265	-----	237	-----	36	-----	3.0	15	-----
TOTAL	361.8	1,213	4,979	7,114	8,574	6,251	7,623	1,773	1,123.2	712.6	550.1	139.8
MEAN	11.7	40.4	161	229	306	202	254	57.2	37.4	23.0	17.7	4.66
MAX	30	120	450	1,200	2,810	1,390	1,830	201	90	231	229	14
MIN	5.1	17	20	48	48	72	36	20	8.2	3.0	1.6	1.7
CFSM	.11	.39	1.56	2.22	2.97	1.96	2.47	.56	.36	.22	.17	.05
IN.	.13	.44	1.80	2.57	3.10	2.26	2.75	.64	.41	.26	.20	.05

CAL YR 1974 TOTAL 59,495.8 MEAN 163 MAX 3,390 MIN 3.7 CFSM 1.58 IN 21.49  
WTR YR 1975 TOTAL 40,414.5 MEAN 111 MAX 2,810 MIN 1.6 CFSM 1.08 IN 14.60

PEAK DISCHARGE (BASE, 1,500 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Dec. 14 to Jan. 14.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	unknown	unknown	a1,800	04-24	0600	9.23	3,040
02-23	0900	10.03	3,840	04-25	1500	9.11	2,940
03-29	1000	8.10	2,140				

a about



## WABASH RIVER BASIN

03353200 Eagle Creek at Zionsville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
11...	1450	--	27	37	2.7	--	--
DEC.							
03...	0910	1.0	20	16	.90	--	--
JAN.							
14...	0940	.0	111	90	27	--	--
FEB.							
28...	1045	4.0	177	28	12	--	--
APR.							
10...	1605	8.5	53	12	1.7	--	--
24...	1515	--	1620	401	1750	68	78
MAY							
19...	1535	22.0	21	32	1.8	--	--
AUG.							
07...	1635	21.0	4.2	25	.28	--	--
SEP.							
10...	1510	23.5	2.2	49	.30	--	--

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
NOV.							
11...	--	--	--	--	--	--	--
DEC.							
03...	--	--	--	--	--	--	--
JAN.							
14...	--	--	--	--	--	--	--
FEB.							
28...	--	--	--	--	--	--	--
APR.							
10...	--	--	--	--	--	--	--
24...	85	91	96	97	98	99	100
MAY							
19...	--	--	--	--	--	--	--
AUG.							
07...	--	--	--	--	--	--	--
SEP.							
10...	--	--	--	--	--	--	--

## 03353450 Eagle Creek Reservoir near Indianapolis, Ind.

LOCATION.--Lat 39°49'20", long 86°18'11", in NW 1/4 sec.22, T.16 N., R.2 E., Marion County, in outlet structure of reservoir on Eagle Creek, 800 ft (240 m) upstream from Interstate Highway 74, 0.5 mile (0.8 km) downstream from School Branch, 1.0 mile (1.6 km) northeast of Clermont, and 2 miles (3.2 km) west of Indianapolis.

DRAINAGE AREA.--162 mi<sup>2</sup> (419 km<sup>2</sup>).

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 24,410 acre-ft (30.1 hm<sup>3</sup>) Apr. 25, elevation, 790.29 ft (240.880 m); minimum, 15,560 acre-ft (19.2 hm<sup>3</sup>) Nov. 26-30, Dec. 2-6, elevation, 783.05 ft (238.674 m).

Period of record: Maximum contents, 24,840 acre-ft (30.6 hm<sup>3</sup>) May 18, 1974, elevation, 790.60 ft (240.975 m); minimum, 13,750 acre-ft (17.0 hm<sup>3</sup>) Nov. 28, 1971, elevation, 781.25 ft (238.125 m).

REMARKS.--Reservoir is formed by earth-fill dam. Low flow is controlled through a 48-inch (1,219 mm) diameter conduit. Spillway elevation, 783 ft (238.7 m) is an ogee section with 6 taintor gates, each 40 ft (12.2 m) wide and 25 ft (7.6 m) high. Permanent pool capacity is 24,000 acre-ft (29.6 hm<sup>3</sup>), elevation, 790.00 ft (240.792 m). Reservoir is used for flood control, pollution abatement, and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Indianapolis Flood Control District.

## Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	787.78	20,110	-
Oct. 31.....	784.21	16,830	-3,280
Nov. 30.....	783.08	15,590	-1,240
Dec. 31.....	783.57	17,030	+1,440
Calendar year 1974.....	-	-	+1,020
Jan. 31.....	783.86	16,450	-580
Feb. 28.....	783.55	17,000	+550
Mar. 31.....	783.74	16,310	-690
Apr. 30.....	789.96	23,950	+7,640
May 31.....	789.99	23,990	+40
June 30.....	789.95	23,940	-50
July 31.....	789.97	23,960	+20
Aug. 31.....	789.87	23,830	-130
Sept. 30.....	788.93	22,610	-1,220
Water year 1975.....	-	-	+2,500

03353500 Eagle Creek at Indianapolis, Ind.

LOCATION (revised).--Lat 39°46'33", long 86°15'01", in NW¼NW¼ sec.6, T.15 N., R.3 E., Marion County, on right bank at downstream side of bridge on Lynhurst Drive, approximately 600 ft (183 m) south of intersection of West 10th Street and Lynhurst Drive, 0.5 mile (0.8 km) downstream from West 10th Street bridge, 1.0 mile (1.6 km) upstream from Vermont Street bridge, 3.0 miles (4.8 km) upstream from Little Eagle Creek, and 7.1 miles (11.4 km) from mouth.

DRAINAGE AREA.--174 mi<sup>2</sup> (451 km<sup>2</sup>).

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 699.00 ft (213.055 m) 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 (2.198 m) higher.

AVERAGE DISCHARGE.--36 years (1939 to current year), 154 ft<sup>3</sup>/s (4.361 m<sup>3</sup>/s), 12.02 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,900 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) Apr. 25, gage height, 7.64 ft (2.329 m); minimum daily, 7.4 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Aug. 20.

Period of record: Maximum discharge, 28,800 ft<sup>3</sup>/s (816 m<sup>3</sup>/s) June 28, 1957, gage height, 23.59 ft (7.190 m), from rating curve extended above 9,000 ft<sup>3</sup>/s (255 m<sup>3</sup>/s) 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 (7.07 m), from information by local residents.

REMARKS.--Records fair. Flow regulated since November 1969 by Eagle Creek Reservoir, 4.7 miles (7.6 km) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	172	54	516	619	291	403	355	66	38	32	20
2	19	132	60	466	491	229	312	148	268	37	32	20
3	18	123	34	379	391	189	272	207	124	36	68	19
4	16	201	33	336	339	170	218	154	59	36	105	18
5	20	185	34	289	335	156	185	187	74	36	49	20
6	19	132	35	260	454	148	161	122	118	42	44	19
7	18	95	69	251	386	203	136	55	53	56	28	18
8	117	71	348	386	264	233	133	145	53	43	30	17
9	232	57	497	1,010	214	200	125	87	54	35	29	17
10	150	46	353	1,180	185	198	117	50	50	32	29	18
11	176	47	294	1,750	164	186	117	50	65	31	42	49
12	170	42	386	1,550	174	390	107	163	51	31	29	28
13	120	48	536	583	142	503	95	44	41	33	49	20
14	21	86	459	343	130	369	93	119	45	34	35	18
15	20	123	417	253	136	270	88	46	40	31	31	19
16	17	104	571	206	161	253	93	46	94	31	29	20
17	18	86	502	163	290	302	93	91	42	29	26	20
18	19	70	372	162	559	346	112	58	118	97	25	21
19	21	66	317	176	502	565	481	63	40	566	24	24
20	25	61	256	161	372	593	475	156	38	258	7.4	22
21	23	53	233	142	294	403	303	56	38	234	8.3	21
22	20	40	211	142	452	313	133	362	38	52	19	21
23	20	41	229	125	2,430	247	102	144	39	35	20	23
24	19	54	428	125	2,800	219	690	154	37	34	20	22
25	88	48	599	218	2,080	191	1,690	61	45	33	21	23
26	224	38	465	406	904	165	1,680	109	43	33	25	23
27	117	36	338	312	492	171	685	186	42	42	21	23
28	41	34	270	277	367	276	785	101	42	39	23	25
29	98	30	230	720	-----	999	482	51	39	69	56	25
30	220	31	211	877	-----	1,030	418	55	39	33	29	24
31	254	-----	265	657	-----	583	-----	187	-----	34	20	-----
TOTAL	2,358	2,352	9,106	14,421	16,127	10,391	10,784	3,812	1,895	2,170	1,005.7	657
MEAN	76.1	78.4	294	465	576	335	359	123	63.2	70.0	32.4	21.9
MAX	254	201	599	1,750	2,800	1,030	1,690	362	266	566	105	49
MIN	16	30	33	125	130	148	88	44	37	29	7.4	17

CAL YR 1974 TOTAL 104,428.0 MEAN 286 MAX 5,420 MIN 10  
WTR YR 1975 TOTAL 75,078.7 MEAN 206 MAX 2,800 MIN 7.4

03353600 Little Eagle Creek at Speedway, Ind.

LOCATION.--Lat 39°47'15", long 86°13'41", in NE¼SW¼ 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 (1.0 km) upstream from Dry Run, and 2.3 miles (3.7 km) (revised) upstream from mouth.

DRAINAGE AREA.--23.9 mi<sup>2</sup> (61.9 km<sup>2</sup>) including 5.57 mi<sup>2</sup> (14.43 km<sup>2</sup>) from Dry Run basin. Since June 1964 part of the flow from the 5.57 mi<sup>2</sup> (14.43 km<sup>2</sup>) 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 707.82 ft (215.744 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to June 13, 1975, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--16 years, 18.4 ft<sup>3</sup>/s (0.521 m<sup>3</sup>/s).

EXTREMES.--Current year: Maximum discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Feb. 23, gage height, 6.12 ft (1.865 m); minimum daily, 1.0 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Aug. 24, 25.

Period of record: Maximum discharge, 1,940 ft<sup>3</sup>/s (54.9 m<sup>3</sup>/s) Apr. 25, 1961, gage height, 10.44 ft (3.182 m), present datum; no flow at times in 1960-64, 1966.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	6.8	7.0	49	70	26	30	26	30	1.7	1.7	3.0
2	3.9	13	12	30	39	21	26	22	27	1.6	1.5	2.4
3	3.8	5.6	11	42	30	18	23	20	11	1.5	41	5.0
4	3.8	33	9.6	33	29	15	16	18	5.0	1.4	20	4.2
5	3.8	61	8.7	24	37	13	14	15	8.1	1.4	12	3.9
6	3.7	17	8.0	25	40	13	17	13	4.9	1.7	13	3.7
7	3.7	8.4	66	25	22	35	11	9.9	4.2	10	6.2	3.3
8	3.6	6.8	98	109	19	24	11	9.1	4.2	2.7	3.3	2.8
9	3.6	6.2	43	82	17	17	9.9	7.5	4.1	2.0	2.3	4.5
10	3.6	5.8	32	205	16	22	9.9	6.7	4.2	1.4	1.8	3.0
11	3.6	8.2	28	170	15	21	9.9	14	28	1.2	20	40
12	3.6	7.0	53	42	20	126	9.1	30	7.2	1.2	4.1	13
13	3.6	15	41	26	16	47	9.1	14	5.3	3.8	27	5.8
14	6.5	39	30	23	13	35	8.3	10	14	4.2	23	2.7
15	9.0	14	48	16	21	30	8.3	6.1	7.6	1.3	7.3	1.8
16	7.4	9.0	49	15	42	37	8.3	5.2	5.8	1.1	4.0	2.2
17	6.2	8.0	36	16	94	43	8.3	4.3	12	1.1	2.7	1.8
18	5.4	7.2	26	19	53	36	26	4.1	6.4	64	1.9	1.5
19	4.7	7.0	29	18	36	65	90	4.5	3.9	23	1.6	7.3
20	4.3	6.6	23	14	26	37	25	4.8	3.2	13	1.4	9.1
21	3.9	6.4	28	13	21	28	16	3.9	2.7	4.1	1.3	3.7
22	3.9	5.6	26	13	184	27	14	184	2.7	2.0	1.2	1.8
23	6.6	6.0	36	13	621	21	84	17	2.2	1.7	1.1	1.5
24	8.8	15	53	17	118	25	426	5.7	2.2	13	1.0	1.2
25	7.3	7.0	42	55	69	18	309	6.5	66	3.0	1.0	4.7
26	6.0	5.8	28	36	54	13	91	20	26	1.8	5.8	1.8
27	4.7	5.6	23	23	38	34	100	15	9.1	23	2.8	1.5
28	4.2	5.6	20	44	33	105	84	4.6	5.1	110	2.0	1.2
29	7.0	5.2	19	196	---	239	45	4.0	2.8	10	7.2	1.5
30	12	5.2	20	52	---	63	33	4.3	1.9	4.7	8.0	1.8
31	8.0	---	55	112	---	38	---	30	---	2.2	4.0	---
TOTAL	164.1	352.0	1008.3	1557	1793	1292	1567.1	539.2	316.8	314.8	231.2	141.7
MEAN	5.29	11.7	32.5	50.2	64.0	41.7	52.2	17.4	10.6	10.2	7.46	4.72
MAX	12	61	98	205	621	239	426	184	66	110	41	40
MIN	3.6	5.2	7.0	13	13	13	8.3	3.9	1.9	1.1	1.0	1.2

CAL YR 1974 TOTAL 9810.9 MEAN 26.9 MAX 350 MIN 3.0  
WTR YR 1975 TOTAL 9277.2 MEAN 25.4 MAX 621 MIN 1.0

PEAK DISCHARGE (BASE, 450 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0230	6.12	1,290	04-25	0945	3.69	641
04-24	0215	4.31	820	05-22	0545	4.12	712

03353620 Lick Creek at Indianapolis, Ind.

LOCATION.--Lat 39°42'21", long 86°06'13", in NE¼NE¼ sec.32, T.15 N., R.4 E., Marion County, on left bank at upstream side of Sherman Drive bridge in Indianapolis, and at mile 6.2 (10.0 km).

DRAINAGE AREA.--15.6 mi<sup>2</sup> (40.4 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 742.00 ft (226.162 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--5 years, 20.2 ft<sup>3</sup>/s (0.572 m<sup>3</sup>/s), 17.58 in/yr (447 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,070 ft<sup>3</sup>/s (30.3 m<sup>3</sup>/s) Feb. 23, Aug. 17; maximum gage height, 6.09 ft (1.856 m) Aug. 17; minimum daily discharge, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Aug. 10.

Period of record: Maximum discharge, 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) May 17, 1974, gage height, 7.37 ft (2.246 m); minimum daily, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) May 4, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	2.9	10	65	73	24	22	20	23	5.1	3.0	4.2
2	3.9	2.6	19	31	45	21	21	15	25	4.9	2.5	3.8
3	3.4	3.5	17	41	33	20	19	15	17	4.8	4.3	3.5
4	3.2	33	15	32	32	18	15	14	11	4.5	7.4	5.7
5	3.3	75	13	22	29	17	13	12	17	35	4.2	4.6
6	3.3	16	12	22	39	17	12	11	12	24	8.4	8.3
7	3.4	8.9	99	20	22	32	11	9.8	8.1	31	2.6	4.3
8	3.1	7.0	104	86	17	22	11	9.1	6.7	29	2.6	3.2
9	3.4	6.1	41	78	14	20	9.9	8.7	6.3	8.9	4.8	2.9
10	2.9	5.7	24	202	13	22	9.7	8.2	5.9	6.2	2.5	2.9
11	2.7	8.4	20	132	16	24	9.1	9.1	54	5.1	9.3	30
12	3.0	6.6	49	49	46	142	8.8	30	19	4.7	2.7	19
13	3.0	11	28	29	27	45	8.0	11	10	5.0	38	6.2
14	7.6	40	21	20	19	29	8.0	9.3	10	7.6	39	4.3
15	12	13	57	17	25	31	8.0	8.4	8.4	4.9	11	4.5
16	4.1	9.1	46	15	52	41	7.7	7.8	6.9	4.0	6.0	5.4
17	3.1	7.7	26	13	55	80	7.4	7.4	7.2	3.6	99	5.3
18	3.1	7.0	19	24	35	58	12	6.9	6.1	39	28	4.7
19	3.1	8.1	23	24	25	79	27	9.0	4.5	19	10	5.8
20	3.0	11	20	19	19	36	11	6.9	3.9	11	6.8	9.0
21	3.5	8.1	20	16	16	26	9.6	6.2	3.9	6.7	6.2	5.1
22	3.8	6.8	17	16	144	23	9.1	94	3.9	5.5	4.9	4.5
23	4.4	7.1	19	17	516	22	56	25	4.4	4.9	4.2	4.2
24	6.1	24	42	22	123	67	160	13	4.5	4.6	3.8	4.4
25	4.2	16	33	54	61	29	94	15	64	4.1	3.9	30
26	3.6	10	21	38	41	20	41	19	25	3.8	7.3	8.8
27	3.2	9.1	17	24	33	44	42	14	12	4.6	4.7	6.7
28	3.3	8.0	15	51	29	137	43	8.7	7.8	11	3.8	5.8
29	5.1	6.8	15	151	-----	210	27	7.5	6.3	5.3	4.6	5.8
30	6.9	6.9	14	53	-----	31	21	7.9	5.6	6.0	7.7	6.6
31	3.7	-----	95	151	-----	28	-----	31	-----	3.1	5.0	-----
TOTAL	128.7	385.4	971	1,534	1,599	1,415	753.3	469.9	399.4	316.9	348.2	219.5
MEAN	4.15	12.8	31.3	49.5	57.1	45.6	25.1	15.2	13.3	10.2	11.2	7.32
MAX	12	75	104	202	516	210	160	94	64	39	99	30
MIN	2.7	2.6	10	13	13	17	7.4	6.2	3.9	3.1	2.5	2.9
CFSM	.27	.82	2.01	3.17	3.66	2.92	1.61	.97	.85	.65	.72	.47
IN.	.31	.92	2.32	3.66	3.81	3.37	1.80	1.12	.95	.76	.83	.52

CAL YR 1974 TOTAL 9,226.3 MEAN 25.3 MAX 459 MIN 2.6 CFSM 1.62 IN 22.00  
WTR YR 1975 TOTAL 8,540.3 MEAN 23.4 MAX 516 MIN 2.5 CFSM 1.50 IN 20.37

PEAK DISCHARGE (BASE, 200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-31	1530	3.90	228	02-23	0115	6.01	1,070	05-22	0415	4.40	358
01-10	1715	3.96	276	03-12	0445	4.08	271	06-25	1545	4.13	284
01-29	0015	4.15	289	03-29	0215	4.88	514	07-05	1745	4.01	254
01-31	0600	3.88	224	04-24	0430	4.22	308	08-17	1345	6.09	1,070

03353700 West Fork White Lick Creek at Danville, Ind.

LOCATION.--Lat 39°45'36", long 86°30'47", in NW¼NE¼ sec.10, T.15 N., R.1 W., Hendricks County, on downstream side of bridge on U.S. Highway 36, 0.1 mile (0.2 km) east of city limits of Danville, 0.5 mile (0.8 km) upstream from small left-bank tributary and 7 miles (11.3 km) west of Avon.

DRAINAGE AREA.--28.8 mi<sup>2</sup> (74.6 km<sup>2</sup>).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.83 ft (252.627 m) above mean sea level. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage on upstream side of bridge at same datum. Oct. 23, 1968, to Aug. 6, 1970 water-stage recorder on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--17 years, 29.2 ft<sup>3</sup>/s (0.827 m<sup>3</sup>/s), 13.77 in/yr (350 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,140 ft<sup>3</sup>/s (60.6 m<sup>3</sup>/s) Feb. 23, gage height, 8.87 ft (2.704 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 3,330 ft<sup>3</sup>/s (94.3 m<sup>3</sup>/s) July 14, 1962, gage height, 11.32 ft (3.450 m); no flow at times some years.

Flood of June 28, 1957, reached a stage of 16.0 ft (4.88 m), from floodmarks, discharge, 6,660 ft<sup>3</sup>/s (189 m<sup>3</sup>/s), from contracted-opening measurement.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.62	3.9	81	147	48	51	50	27	1.7	.71	.44
2	.34	.49	4.2	45	78	39	44	39	26	1.3	.71	.35
3	.24	.42	3.9	43	60	31	36	34	31	1.2	.23	.21
4	.22	3.0	3.6	41	51	27	28	29	26	1.2	.14	.22
5	.22	.24	5.2	31	59	25	25	24	25	1.3	4.0	.52
6	.17	15	5.6	29	63	24	23	21	18	6.6	7.5	1.5
7	.17	4.8	55	27	44	50	21	17	14	7.8	1.9	.28
8	.19	3.3	100	189	30	45	18	15	11	6.9	1.2	.10
9	.17	2.1	51	182	26	35	19	14	9.8	1.9	.82	.25
10	.17	1.6	31	326	26	34	18	11	9.8	1.1	.88	.04
11	.20	3.9	24	334	23	32	16	12	15	.94	3.2	4.8
12	.17	4.2	62	101	19	183	14	19	9.3	.71	1.2	13
13	.17	16	50	60	16	90	12	11	6.9	.78	1.2	3.1
14	.82	44	37	38	14	61	12	9.8	10	.94	1.0	1.0
15	1.8	19	67	28	26	46	11	9.3	11	.78	1.1	.64
16	.72	11	75	22	58	52	11	7.8	8.8	.58	.68	.58
17	.53	8.6	47	20	99	85	11	6.9	17	.46	.52	.60
18	.45	5.9	32	23	86	79	24	6.9	13	36	.39	.48
19	.36	5.6	29	25	58	135	116	6.0	9.3	165	.38	.76
20	.29	4.8	22	19	43	76	50	8.4	5.6	97	.27	.89
21	.24	4.5	24	20	37	56	33	8.8	4.9	38	.23	.49
22	.26	3.6	23	14	340	46	27	130	4.2	17	.24	.36
23	.26	3.3	58	13	992	37	76	67	3.6	7.8	.16	.36
24	.36	7.2	114	26	276	35	597	37	3.9	4.9	.18	.23
25	.42	5.9	70	98	129	27	570	44	3.6	3.0	.19	.29
26	.31	4.2	41	65	94	22	204	95	3.3	1.9	.55	.36
27	.26	4.2	30	38	72	29	134	81	3.3	1.5	.43	.30
28	.24	3.3	24	65	61	108	133	38	3.9	1.9	.27	.30
29	.39	2.3	22	338	-----	308	79	28	2.1	1.1	1.2	.26
30	.72	2.3	23	122	-----	102	60	23	1.6	.86	3.6	.31
31	.62	-----	70	206	-----	66	-----	26	-----	.71	.79	-----
TOTAL	11.93	219.13	1,207.4	2,669	3,027	2,033	2,473	928.9	337.9	412.86	72.50	33.02
MEAN	.38	7.30	38.9	86.1	108	65.6	82.4	30.0	11.3	13.3	2.34	1.10
MAX	1.8	44	114	338	992	308	597	130	31	165	23	13
MIN	.17	.42	3.6	13	14	22	11	6.0	1.6	.46	.16	.04
CFSM	.01	.25	1.35	2.99	3.75	2.28	2.86	1.04	.39	.46	.08	.04
IN.	.02	.28	1.56	3.45	3.91	2.63	3.19	1.20	.44	.53	.09	.04

CAL YR 1974 TOTAL 16,515.87 MEAN 45.2 MAX 506 MIN .10 CFSM 1.57 IN 21.33  
WTR YR 1975 TOTAL 13,425.64 MEAN 36.8 MAX 992 MIN .04 CFSM 1.28 IN 17.34

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0245	8.87	2,140	04-25	1115	6.60	1,130
04-24	0145	7.35	1,450	07-19	1600	5.20	709



## 03353800 White Lick Creek at Mooresville, Ind.

LOCATION.--Lat 39°36'28", long 86°22'56", in NE¼SE¼ sec.35, T.14 N., R.1 E., Morgan County, on right bank at downstream side of bridge on State Highway 42 at Mooresville, 0.9 mile (1.4 km) (revised) downstream from McCracken Creek, 2.0 miles (3.2 km) upstream from East Fork White Lick Creek, and at mile 11.4 (18.3 km).

DRAINAGE AREA.--212 mi<sup>2</sup> (549 km<sup>2</sup>).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 644.64 ft (196.486 m) above mean sea level. Dec. 10, 1963, to Sept. 30, 1964, non-recording gage at bridge 1,950 ft (594 m) upstream at datum 1.39 ft (0.424 m) higher.

AVERAGE DISCHARGE.--18 years, 220 ft<sup>3</sup>/s (6.230 m<sup>3</sup>/s), 14.09 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,440 ft<sup>3</sup>/s (239 m<sup>3</sup>/s) Feb. 23, gage height, 21.31 ft (6.495 m); minimum daily, 9.8 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) Mar. 4, 1963, gage height, 22.95 ft (6.995 m); minimum daily, 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) Dec. 24, 25, 1960, Sept. 2, 1966.

Flood of June 28, 1957, reached a stage of 22.5 ft (6.86 m), from levels to high-water mark by State of Indiana, Department of Natural Resources.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	36	101	807	1,150	414	527	513	234	31	28	34
2	41	37	106	435	742	337	447	399	233	29	26	25
3	38	39	117	401	564	283	400	344	304	27	124	20
4	37	69	113	380	490	254	328	314	200	25	226	16
5	35	317	110	296	519	236	296	268	172	24	100	14
6	34	226	112	271	629	224	277	241	152	25	99	14
7	33	141	327	263	431	300	263	216	119	42	65	16
8	33	108	897	844	351	351	250	197	98	76	43	12
9	33	89	542	1,360	297	265	241	185	86	59	33	11
10	32	79	332	2,140	269	266	235	168	80	37	27	9.8
11	32	89	259	2,850	276	247	224	159	103	29	34	26
12	31	96	468	892	359	1,120	212	189	99	25	66	93
13	31	96	483	525	296	762	202	172	77	26	59	63
14	33	391	365	361	262	502	196	147	83	29	205	33
15	48	270	412	291	269	380	192	138	88	24	79	23
16	45	177	651	242	519	408	186	127	89	21	47	19
17	41	144	428	199	849	656	185	116	91	20	34	18
18	37	125	304	225	842	631	186	109	95	131	28	17
19	36	117	280	256	596	1,050	648	102	71	898	24	18
20	34	111	245	213	450	678	423	100	58	876	20	24
21	33	96	260	188	388	473	293	93	51	333	18	20
22	29	86	246	177	773	395	250	576	47	200	16	17
23	29	80	302	168	6,830	321	406	483	43	143	14	16
24	33	154	742	187	2,270	329	3,230	260	40	112	13	14
25	33	152	649	554	1,080	266	2,430	180	78	88	12	14
26	32	118	390	577	840	225	1,810	256	84	68	22	14
27	32	106	284	342	614	271	922	449	49	54	31	14
28	31	99	238	318	511	881	1,070	231	42	51	36	13
29	31	86	214	1,750	-----	3,230	722	163	38	42	29	13
30	37	82	215	971	-----	1,030	565	140	34	37	106	13
31	37	-----	540	1,560	-----	666	-----	150	-----	31	60	-----
TOTAL	1,088	3,816	10,732	20,043	23,466	17,451	17,616	7,185	3,038	3,613	1,724	653.8
MEAN	35.1	127	346	647	838	563	587	232	101	117	55.6	21.8
MAX	48	391	897	2,850	6,830	3,230	3,230	576	304	898	226	93
MIN	29	36	101	168	262	224	185	93	34	20	12	9.8
CFSM	.17	.60	1.63	3.05	3.95	2.66	2.77	1.09	.48	.55	.26	.10
IN.	.19	.67	1.88	3.52	4.12	3.06	3.09	1.26	.53	.63	.30	.11

CAL YR 1974 TOTAL 124,842.0 MEAN 342 MAX 4,370 MIN 29 CFSM 1.61 IN 21.91  
WTR YR 1975 TOTAL 110,425.8 MEAN 303 MAX 6,830 MIN 9.8 CFSM 1.43 IN 19.38

PEAK DISCHARGE (BASE, 3,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2300	18.46	4,470	04-24	1000	19.11	5,110
02-23	1100	21.31	8,440	04-25	1900	18.01	4,060
03-29	0600	19.28	5,290				

03354000 White River near Centerton, Ind.

LOCATION (revised).--Lat 39°29'51", long 86°24'02", in NE¼ sec.10, T.12 N., R.1 E., Morgan County, on right bank at upstream side of bridge on Blue Bluff Road, 1 mile (1.6 km) south of Centerton, 0.8 mile (1.3 km) downstream from White Lick Creek, and at mile 199.3 (321.0 km).

DRAINAGE AREA.--2,444 mi<sup>2</sup> (6,330 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: 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.

WATER TEMPERATURE: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1972.

SEDIMENT DISCHARGE: March 1965 to July 1968 (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 595.44 ft (181.490 m) 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. July 1953 to Aug. 7, 1975, water-stage recorder at site 0.4 mile (0.6 km) downstream at same datum.

AVERAGE DISCHARGE.--30 years (1930-31, 1946 to current year), 2,395 ft<sup>3</sup>/s (67.83 m<sup>3</sup>/s), 13.31 in/yr (338 mm/yr).

EXTREMES.--Current year: Maximum discharge, 27,500 ft<sup>3</sup>/s (779 m<sup>3</sup>/s) Feb. 24, gage height, 15.06 ft (4.590 m); minimum daily, 423 ft<sup>3</sup>/s (12.0 m<sup>3</sup>/s) Sept. 30.

Period of record: Maximum discharge, 50,500 ft<sup>3</sup>/s (1,430 m<sup>3</sup>/s) Apr. 22, 1964, gage height, 17.57 ft (5.355 m) at site 0.4 mile (0.6 km) downstream; minimum daily, 131 ft<sup>3</sup>/s (371 m<sup>3</sup>/s) Nov. 15, 1930.

Flood in March 1913 reached a stage of 22.8 ft (6.95 m) at Martinsville site (from information by Indiana State Highway Commission) and 21.9 ft (6.68 m) at site 0.4 mile (0.6 km) downstream (from information by Corps of Engineers), discharge, 90,000 ft<sup>3</sup>/s (2,550 m<sup>3</sup>/s).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	706	820	936	5,150	10,300	6,950	8,230	8,760	2,880	1,130	574	1,370
2	646	778	1,150	5,060	7,180	5,740	5,990	6,500	2,920	978	556	1,020
3	610	772	1,240	5,150	5,560	4,830	4,630	5,810	3,420	894	598	841
4	592	894	1,080	4,410	4,670	4,140	3,850	4,870	2,760	826	1,060	776
5	574	2,300	1,040	3,750	4,310	3,660	3,340	4,110	2,230	790	880	686
6	568	1,940	999	3,320	4,770	3,390	2,920	3,700	2,200	950	1,010	727
7	562	1,740	1,440	3,080	5,090	3,470	2,610	3,240	1,990	1,140	808	639
8	562	1,460	3,710	3,760	4,730	3,890	2,440	2,860	1,840	1,220	682	561
9	670	1,190	3,950	7,300	3,700	4,080	2,260	2,570	1,640	915	634	530
10	742	999	4,010	9,740	2,840	3,750	2,140	2,420	1,450	936	616	499
11	712	971	3,400	15,500	2,580	3,520	2,070	2,250	1,800	826	766	652
12	718	992	3,260	14,000	3,500	7,270	1,940	2,490	2,010	766	718	1,380
13	688	908	3,590	11,700	3,070	6,670	1,830	2,280	1,960	718	646	834
14	652	1,640	3,650	6,860	2,500	6,500	1,710	2,150	1,790	736	1,470	672
15	766	1,740	3,740	4,760	2,270	5,720	1,650	2,010	1,630	718	943	593
16	718	1,630	4,850	3,800	2,930	4,860	1,610	1,830	1,780	694	856	561
17	682	1,440	5,150	3,190	3,780	5,720	1,590	1,760	2,630	670	826	530
18	640	1,230	4,720	3,010	5,190	6,290	1,660	1,710	1,570	706	978	518
19	622	1,110	3,810	3,090	6,800	7,620	2,820	1,590	1,960	2,180	772	518
20	610	1,150	3,300	2,950	6,780	7,710	4,370	1,610	1,540	2,440	706	606
21	592	1,060	2,850	2,660	5,120	7,670	3,930	1,580	1,430	1,270	682	580
22	628	964	2,610	2,460	4,480	6,130	3,080	2,590	1,660	978	658	530
23	592	894	2,440	2,310	17,300	4,840	3,040	3,500	1,750	802	640	536
24	610	1,310	3,300	2,230	25,200	4,650	10,500	3,940	1,400	730	628	518
25	634	1,420	4,670	2,670	22,600	4,110	13,300	3,280	1,230	694	616	561
26	664	1,150	5,390	3,960	22,600	3,700	15,300	3,500	2,600	652	706	632
27	748	1,030	4,590	4,250	18,800	3,590	12,900	3,470	1,890	616	754	493
28	700	964	3,510	3,980	10,500	6,390	9,900	2,970	2,130	820	901	452
29	664	901	2,900	6,820	-----	12,100	10,300	2,400	1,740	814	856	434
30	766	880	2,580	8,360	-----	12,100	11,900	2,020	1,340	676	1,230	423
31	838	-----	3,070	11,200	-----	12,000	-----	2,000	-----	616	1,390	-----
TOTAL	20,476	36,277	96,935	170,480	219,150	183,060	153,810	95,770	59,170	28,901	25,160	19,672
MEAN	661	1,209	3,127	5,499	7,827	5,905	5,127	3,089	1,972	932	812	656
MAX	838	2,300	5,390	15,500	25,200	12,100	15,300	8,760	3,420	2,440	1,470	1,380
MIN	562	772	936	2,230	2,270	3,390	1,590	1,580	1,230	616	556	423
CFSM	.27	.49	1.28	2.25	3.20	2.42	2.10	1.26	.81	.38	.33	.27
IN.	.31	.55	1.48	2.59	3.34	2.79	2.34	1.46	.90	.44	.38	.30

CAL YR 1974 TOTAL 1,242,247 MEAN 3,403 MAX 22,000 MIN 530 CFSM 1.39 IN 18.91  
WTR YR 1975 TOTAL 1,108,861 MEAN 3,038 MAX 25,200 MIN 423 CFSM 1.24 IN 16.88

PEAK DISCHARGE (BASE, 9,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1500	12.34	16,200	03-29	1800	11.43	14,700
01-31	1700	10.37	13,000	04-25	1400	11.65	15,700
02-24	0400	15.06	27,500	04-30	1215	9.76	12,200

03354500 Beanblossom Creek at Beanblossom, Ind.

LOCATION.--Lat 39°15'45", long 86°14'55", in SW 1/4 sec.31, T.10 N., R.3 E., Brown County, on right bank 15 ft (5 m) downstream from bridge on State Highway 135, 0.3 mile (0.5 km) south of Beanblossom, 2.7 miles (4.3 km) (revised) upstream from North Fork Beanblossom Creek, and at mile 42.1 (67.7 km).

DRAINAGE AREA.--14.6 mi<sup>2</sup> (37.8 km<sup>2</sup>).

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 (205.329 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 16.1 ft<sup>3</sup>/s (0.456 m<sup>3</sup>/s), 14.98 in/yr (380 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft<sup>3</sup>/s (51.3 m<sup>3</sup>/s) Feb. 23, gage height, 9.01 ft (2.746 m); no flow for many days in August and September.

Period of record: Maximum discharge, 8,140 ft<sup>3</sup>/s (231 m<sup>3</sup>/s) June 23, 1960, gage height, 11.78 ft (3.591 m), from curve extended above 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) on basis of contracted-opening measurement; no flow for many days in most years.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1555: 1952, 1953(M), 1956-57. WSP 1705: 1952(P).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	3.3	13	52	54	20	27	13	2.7	.55	.13	.15
2	8.1	3.8	15	30	35	16	23	11	3.8	.50	.16	.02
3	6.4	5.1	17	38	26	14	20	9.5	3.3	.40	.19	0
4	5.4	143	16	31	25	12	15	8.5	2.3	.38	.15	0
5	4.5	96	14	23	28	10	13	7.7	9.5	.37	.24	0
6	3.9	34	13	20	31	9.9	11	9.0	5.0	.45	.30	0
7	3.5	21	104	17	23	20	9.9	10	2.4	.76	.14	0
8	3.2	14	95	67	19	15	8.8	9.3	2.9	.55	.04	0
9	3.1	11	43	64	14	13	7.8	8.0	4.0	.45	0	0
10	2.9	8.7	28	143	14	16	7.3	7.0	12	.37	0	0
11	2.9	12	24	160	16	15	6.4	5.3	120	.30	0	.39
12	3.1	11	28	47	111	454	5.8	6.4	32	.26	0	.52
13	3.0	10	23	30	43	75	5.1	3.8	10	.25	.10	.09
14	3.2	26	18	26	29	48	4.5	3.4	9.0	.21	.38	0
15	7.5	17	46	17	27	41	3.8	3.0	7.7	.20	.40	0
16	5.4	13	42	14	38	77	3.3	2.7	5.8	.19	.39	0
17	4.3	10	28	12	43	78	2.9	2.6	12	.18	.22	.01
18	3.8	8.7	21	28	34	53	5.0	2.5	11	.17	.05	0
19	3.5	9.5	26	26	26	111	45	2.2	6.9	.19	0	.03
20	3.3	20	26	20	20	51	17	2.2	4.1	.24	0	.14
21	2.9	13	24	18	16	34	14	2.0	2.6	.25	0	.01
22	2.9	10	19	14	77	31	12	1.9	2.0	.22	0	0
23	2.9	9.0	17	14	743	28	110	1.7	1.8	.20	0	0
24	3.0	32	34	13	138	155	290	1.6	1.9	.18	0	.01
25	3.0	28	36	20	61	53	130	4.1	1.7	.17	0	.16
26	2.8	19	25	19	44	33	50	7.4	1.5	.16	0	.07
27	2.8	15	21	14	32	61	30	4.7	1.2	.15	0	.01
28	2.7	12	17	14	27	245	20	3.0	1.0	.15	0	0
29	2.9	9.8	15	25	-----	119	17	2.0	.80	.14	.07	.01
30	3.8	9.0	13	22	-----	55	15	2.6	.64	.14	.94	.07
31	3.3	-----	49	84	-----	35	-----	5.8	-----	.14	.38	-----
TOTAL	127.0	633.9	910	1,122	1,794	1,997.9	929.6	163.9	281.54	8.87	4.28	1.69
MEAN	4.10	21.1	29.4	36.2	64.1	64.4	31.0	5.29	9.38	.29	.14	.056
MAX	13	143	104	160	743	454	290	13	120	.76	.94	.52
MIN	2.7	3.3	13	12	14	9.9	2.9	1.6	.64	.14	0	0
CFSM	.28	1.45	2.01	2.48	4.39	4.41	2.12	.36	.64	.02	.010	.004
IN.	.32	1.62	2.32	2.86	4.57	5.09	2.37	.42	.72	.02	.01	.004

CAL YR 1974 TOTAL 7,920.91 MEAN 21.7 MAX 301 MIN 0 CFSM 1.49 IN 20.18  
WTR YR 1975 TOTAL 7,974.68 MEAN 21.8 MAX 743 MIN 0 CFSM 1.49 IN 20.32

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Apr. 12 to May 13, and  
June 25 to Aug. 6.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0345	9.01	1,810	04-24	unknown	6.44	775
03-12	0730	8.55	1,510				

03355400 Lake Lemon near Bloomington, Ind.

LOCATION.--Lat 39°16'20", long 86°25'37", in NW¼SE¼ sec.28, T.10 N., R.1 E., Monroe County, on left side of dam on Beanblossom Creek, 5 miles (8 km) downstream from Bear Creek, 5.5 miles (8.8 km) west of Trevlac, 9.2 miles (14.8 km) northeast of Bloomington, and at mile 29.7 (47.8 km).

DRAINAGE AREA.--70.9 mi<sup>2</sup> (184 km<sup>2</sup>).

PERIOD OF RECORD.--April 1953 to March 1958, October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.10 ft (189.006 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 17,380 acre-ft (21.4 hm<sup>3</sup>) Feb. 23, 24, gage height, 11.74 ft (3.578 m); minimum, 12,440 acre-ft (15.3 hm<sup>3</sup>) Sept. 30, gage height, 8.60 ft (2.621 m).

Period of record: Maximum contents, 20,470 acre-ft (25.2 hm<sup>3</sup>) May 24, 1968, gage height, 13.32 ft (4.060 m); minimum, 5,390 acre-ft (6.65 hm<sup>3</sup>) Mar. 3, 1964, gage height, 2.50 ft (0.762 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by 42-inch (1,067 mm) diameter gate in 42-inch (1,067 mm) conduit. Capacity at uncontrolled spillway elevation, 9.87 ft (3.008 m) is 14,420 acre-ft (17.8 hm<sup>3</sup>). Reservoir is used for low-flow augmentation of the water supply for Bloomington 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 1974 to September 1975

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	9.56	13,900	-
Oct. 31.....	9.75	14,200	+300
Nov. 30.....	9.86	14,380	+180
Dec. 31.....	10.02	14,630	+250
Calendar year 1974.....	-	-	-480
Jan. 31.....	10.30	15,080	+450
Feb. 28.....	10.47	15,350	+270
Mar. 31.....	10.48	15,370	+20
Apr. 30.....	10.36	15,180	-190
May 31.....	9.88	14,410	-770
June 30.....	9.56	13,900	-510
July 31.....	9.56	13,900	0
Aug. 31.....	8.87	12,820	-1,080
Sept. 30.....	8.60	12,440	-380
Water year 1975.....	-	-	-1,460

## WABASH RIVER BASIN

03356000 Beanblossom Creek at Dolan, Ind.

LOCATION.--Lat 39°14'30", long 86°29'57", in NW¼SW¼ sec.2, T.9 N., R.1 W., Monroe County, on downstream side of pier of highway bridge at Dolan, 5.8 miles (9.3 km) northeast of Bloomington, and 21.5 miles (34.6 km) (revised) upstream from mouth.

DRAINAGE AREA.--100 mi<sup>2</sup> (259 km<sup>2</sup>).

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 (175.690 m) above mean sea level (unadjusted). Prior to Sept. 28, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 114 ft<sup>3</sup>/s (3.228 m<sup>3</sup>/s), 15.48 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,420 ft<sup>3</sup>/s (96.9 m<sup>3</sup>/s) Feb. 24, gage height, 15.14 ft (4.615 m); minimum daily, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Sept. 29, 30.

Period of record: Maximum discharge, 9,420 ft<sup>3</sup>/s (267 m<sup>3</sup>/s) June 2, 1947; maximum gage height, 17.9 ft (5.46 m) Jan. 5, 1949; no flow at times during 1946-49, 1953.

REMARKS.--Records good. Flow regulated by Lake Lemon 8.2 miles (13.2 km) (revised) upstream (See sta 03355400).

REVISIONS (WATER YEARS).--WSP 1113: 1947. WSP 1275: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	15	77	373	498	193	267	102	24	17	16	14
2	73	15	87	303	347	152	206	87	27	17	16	14
3	49	15	102	267	246	123	146	76	26	17	17	14
4	39	30	98	260	200	117	133	66	23	17	16	14
5	31	329	91	212	195	115	111	60	26	17	15	15
6	24	321	83	173	207	99	93	53	27	20	15	15
7	21	192	149	142	182	127	83	66	25	17	15	14
8	19	123	466	221	152	132	80	56	24	17	15	14
9	17	83	402	479	125	121	73	48	23	17	15	14
10	16	65	262	565	104	125	56	43	21	16	15	14
11	16	63	188	1,150	101	125	52	40	133	16	15	29
12	15	61	183	712	497	1,410	46	79	435	16	15	22
13	15	60	170	349	455	1,540	44	60	244	17	16	15
14	16	84	140	214	295	666	46	49	142	16	16	14
15	22	90	159	158	225	392	40	40	95	16	15	14
16	23	82	245	121	234	410	37	34	64	16	15	14
17	21	69	221	96	259	618	47	32	91	16	15	14
18	20	60	176	114	243	510	45	30	155	16	15	14
19	19	57	162	168	198	668	230	28	111	19	16	14
20	18	93	163	154	165	544	213	26	73	18	15	14
21	17	103	149	132	138	339	160	24	64	16	15	13
22	18	97	143	106	303	237	118	22	53	16	15	13
23	16	81	124	97	2,370	202	386	21	38	16	15	13
24	16	134	201	91	3,110	422	1,320	20	29	16	15	13
25	18	199	243	104	1,300	475	1,320	21	25	16	15	13
26	15	170	211	118	505	295	612	22	23	16	15	13
27	14	126	169	122	327	264	328	26	21	16	14	13
28	14	94	139	105	242	1,140	220	21	20	16	14	13
29	15	79	119	137	-----	1,210	162	20	19	16	21	12
30	17	71	99	178	-----	718	129	19	19	16	27	12
31	15	-----	141	398	-----	406	-----	21	-----	16	15	-----
TOTAL	776	3,061	5,362	7,839	13,223	13,895	6,803	1,312	2,100	514	489	434
MEAN	25.0	102	173	253	472	448	227	42.3	70.0	16.6	15.8	14.5
MAX	127	329	466	1,150	3,110	1,540	1,320	102	435	20	27	29
MIN	14	15	77	91	101	99	37	19	19	16	14	12
CFSM	.25	1.02	1.73	2.53	4.72	4.48	2.27	.42	.70	.17	.16	.15
IN.	.29	1.14	1.99	2.92	4.92	5.17	2.53	.49	.78	.19	.18	.16
CAL YR 1974	TOTAL 51,131	MEAN 140	MAX 1,260	MIN 13	CFSM 1.40	IN 19.02						
WTR YR 1975	TOTAL 55,808	MEAN 153	MAX 3,110	MIN 12	CFSM 1.53	IN 20.76						



03357350 Plum Creek near Bainbridge, Ind.

LOCATION.--Lat 39°45'42", long 86°43'46", in SW¼SE¼ sec.3, T.15 N., R.3 W., Putnam County, on right upstream wingwall of bridge on U.S. Highway 36, 0.5 mile (0.8 km) west of Groveland, and 4.5 miles (7.2 km) east of Bainbridge.

DRAINAGE AREA.--3.00 mi<sup>2</sup> (7.77 km<sup>2</sup>).

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.44 ft (252.509 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--6 years, 4.12 ft<sup>3</sup>/s (0.117 m<sup>3</sup>/s), 18.65 in/yr (474 mm/yr).

EXTREMES.--Current year: Maximum discharge, 272 ft<sup>3</sup>/s (7.70 m<sup>3</sup>/s) Apr. 24, gage height, 3.61 ft (1.100 m); no flow Aug. 18-25.  
Period of record: Maximum discharge, 632 ft<sup>3</sup>/s (17.9 m<sup>3</sup>/s) July 24, 1971, gage height, 5.29 ft (1.612 m); no flow at times during 1970, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.33	.99	9.8	16	3.9	4.9	3.6	2.6	.04	.01	.02
2	.11	.28	1.1	6.1	8.8	3.2	4.4	3.0	5.8	.04	.02	.02
3	.12	.26	1.3	7.2	6.4	3.0	3.6	3.1	6.1	.04	.04	.02
4	.09	1.2	1.1	6.1	6.1	2.6	2.8	3.1	2.5	.04	.04	.01
5	.08	5.1	1.1	4.6	7.2	2.5	2.5	2.3	3.7	.04	.02	.01
6	.09	1.6	1.2	4.9	7.2	2.5	2.3	1.9	2.0	.04	.01	.01
7	.09	1.0	7.2	4.9	4.6	6.8	2.1	1.6	1.1	.03	.01	.01
8	.09	.82	11	41	3.7	4.4	1.9	1.5	.86	.03	.01	.01
9	.09	.69	6.4	16	2.9	3.4	1.8	1.3	.70	.03	.01	.01
10	.08	.65	4.6	64	2.9	3.7	1.6	1.2	.62	.03	.01	.01
11	.08	1.2	4.1	27	3.1	3.7	1.6	2.6	1.2	.03	.01	.05
12	.09	1.1	8.8	7.9	3.2	26	1.4	6.1	.70	.03	.01	.03
13	.09	2.5	7.2	4.9	2.6	8.8	1.3	1.9	.45	.03	.01	.01
14	.26	7.0	5.2	3.6	2.1	6.1	1.3	1.5	.80	.03	.01	.01
15	.36	2.8	11	3.2	4.1	5.5	1.3	1.3	.70	.02	.01	.01
16	.20	1.8	9.3	2.7	8.4	6.8	1.2	1.1	.55	.02	.01	.01
17	.16	1.5	6.4	2.2	13	10	1.3	.95	1.1	.02	.01	.02
18	.11	1.3	4.9	3.3	9.3	10	5.8	.89	.60	.04	0	.01
19	.11	1.3	4.6	2.9	6.4	26	9.3	.82	.40	.26	0	.02
20	.10	1.1	3.6	2.2	5.2	8.8	2.9	.95	.25	.06	0	.02
21	.09	.86	4.1	2.1	4.4	6.4	3.0	.70	.23	.03	0	.01
22	.09	.76	3.7	1.8	57	5.5	1.8	2.4	.20	.02	0	.01
23	.09	.86	7.2	1.8	82	4.4	11	.99	.18	.03	0	.01
24	.15	1.7	14	3.7	17	4.6	73	.73	.20	.02	0	.01
25	.14	1.3	8.4	11	9.3	3.2	30	.82	.17	.02	0	.02
26	.10	1.1	5.2	6.1	6.8	2.6	12	1.5	.15	.02	.11	.01
27	.11	1.1	4.6	4.1	5.5	5.8	10	3.2	.15	.02	.01	.01
28	.11	.92	3.7	15	4.6	19	8.8	1.3	.20	.03	.01	.01
29	.30	.76	3.4	36	-----	39	6.1	.95	.08	.01	.68	.01
30	.68	.79	3.6	11	-----	9.8	4.6	.92	.05	.01	.66	.01
31	.40	-----	11	35	-----	6.4	-----	2.4	-----	.01	.03	-----
TOTAL	4.82	43.68	169.99	352.1	309.8	254.4	215.6	56.62	34.34	1.12	1.75	.43
MEAN	.16	1.46	5.48	11.4	11.1	8.21	7.19	1.83	1.14	.036	.057	.014
MAX	.68	7.0	14	64	82	39	73	6.1	6.1	.26	.68	.05
MIN	.08	.26	.99	1.8	2.1	2.5	1.2	.70	.05	.01	0	.01
CFSM	.05	.49	1.83	3.80	3.70	2.74	2.40	.61	.38	.01	.02	.005
IN.	.06	.54	2.11	4.37	3.84	3.15	2.67	.70	.43	.01	.02	.005
CAL YR 1974	TOTAL 1.665.03		MEAN 4.56		MAX 50	MIN .02	CFSM 1.52	IN 20.65				
WTR YR 1975	TOTAL 1.444.65		MEAN 3.96		MAX 82	MIN 0	CFSM 1.32	IN 17.91				

PEAK DISCHARGE (BASE, 150 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1745	3.19	151	04-24	0200	3.61	272
02-23	0030	3.54	251				



03357420 Big Walnut Creek at Greencastle, Ind.

LOCATION.--Lat 39°40'01", long 86°51'57", in NW¼SW¼ sec.9, T.14 N., R.4 W., Putnam County, on left bank, 30 ft (9.1 m) upstream from concrete dam at the Greencastle Waterworks, 0.3 mile (0.5 km) upstream from bridge on U.S. Highway 231, 1,200 ft (366 m) downstream from Snyder Branch, 1.1 miles (1.8 km) north of Greencastle, and at mile 21.1 (33.9 km).

DRAINAGE AREA.--216 mi<sup>2</sup> (559 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1974 to current year.

CHEMICAL ANALYSIS: December 1973 to current year.

WATER TEMPERATURE: December 1973 to current year.

GAGE.--Water-stage recorder and multi-parameter monitor. Datum of the gage is 665.00 ft (202.692 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

DISCHARGE, IN CUBIC FEET PER SECOND \* WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	64	88	700	1000	352	411	385	193	37	18	59
2	35	56	91	420	650	292	343	312	174	34	17	52
3	29	50	96	360	500	246	316	271	261	31	92	39
4	27	100	90	340	420	224	261	262	185	28	400	31
5	26	220	87	290	410	211	233	222	250	26	100	25
6	24	190	90	260	480	203	213	197	155	25	170	22
7	23	142	178	250	330	284	199	175	115	34	40	19
8	22	109	620	700	270	303	184	157	97	64	25	17
9	22	91	500	1400	230	241	167	145	84	43	20	15
10	22	81	380	2100	190	241	159	133	77	28	17	14
11	22	92	300	2700	220	228	149	130	91	24	40	20
12	21	98	400	1000	270	967	139	293	93	20	32	45
13	20	111	530	600	210	675	131	194	75	18	27	50
14	48	320	370	420	180	443	130	145	150	20	25	30
15	71	276	500	330	270	348	128	130	170	16	23	16
16	58	189	676	270	360	359	122	115	110	13	21	14
17	50	148	487	230	450	498	120	104	90	12	19	17
18	43	127	372	260	520	521	146	97	75	20	18	17
19	37	119	337	230	350	977	493	93	65	380	16	16
20	33	112	294	200	290	666	296	94	60	220	15	16
21	31	99	299	180	260	439	210	88	80	130	14	14
22	29	89	271	170	1200	357	180	624	56	80	13	13
23	28	87	302	160	4960	281	382	461	45	50	12	13
24	30	121	647	150	2800	274	2620	253	43	39	11	13
25	36	111	700	380	1170	236	1970	360	40	32	11	13
26	33	97	520	480	802	201	2080	400	110	30	150	13
27	31	91	370	330	609	228	840	450	80	28	110	13
28	30	88	300	290	437	604	882	208	55	34	87	13
29	54	82	270	1200	---	1820	611	146	46	30	100	12
30	94	78	260	1000	---	938	452	128	40	24	130	12
31	76	---	450	1500	---	565	---	153	---	20	105	---
TOTAL	1147	3638	10875	18900	19838	14222	14567	6925	3165	1590	1878	663
MEAN	37.0	121	351	610	709	459	486	223	106	51.3	60.6	22.1
MAX	94	320	700	2700	4960	1820	2620	624	261	380	400	59
MIN	20	50	87	150	180	201	120	88	40	12	11	12
CFSM	.17	.56	1.63	2.82	3.28	2.13	2.25	1.03	.49	.24	.28	.10
IN.	.20	.63	1.87	3.26	3.42	2.45	2.51	1.19	.55	.27	.32	.11

WTR YR 1975 TOTAL 97408.0 MEAN 267 MAX 4960 MIN 11 CFSM 1.24 IN 16.78

PEAK DISCHARGE (BASE, 1,800 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Dec. 25 to Feb. 22.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	unknown	unknown	a3,200	03-29	0600	10.38	2,170
01-31	unknown	unknown	a2,000	04-24	1500	11.08	3,360
02-23	0900	12.58	6,580	04-26	0400	11.24	3,650

a about

## 03357420 Big Walnut Creek at Greencastle, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,580 ft<sup>3</sup>/s (186 m<sup>3</sup>/s), Feb. 23, gage height, 12.58 ft (3.834 m); minimum daily, 11 ft<sup>3</sup>/s (0.312 m<sup>3</sup>/s) Aug. 24, 25.  
 Period of record: Maximum discharge, 6,580 ft<sup>3</sup>/s (186 m<sup>3</sup>/s), Feb. 23, 1975, gage height, 12.58 ft (3.834 m); minimum daily, 11 ft<sup>3</sup>/s (0.312 m<sup>3</sup>/s) Aug. 24, 25, 1975.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 658 micromhos, Sept. 22, 23; minimum, 203 micromhos, Sept. 12.  
 Period of record: Maximum conductance, 658 micromhos, Sept. 22, 23, 1975; minimum, 117 micromhos, Jan. 19, 1974.

WATER TEMPERATURE, Current year: Maximum temperature, 30.5°C Aug. 23, 24; minimum, freezing point on many days during the winter period.  
 Period of record: Maximum temperature, 30.5°C Aug. 23, 24, 1975; minimum, freezing point on many days during the winter period.

REMARKS.--Water discharge records fair, chemical records good.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	517	506	434	391	439	380	555	540
2	---	---	---	---	517	508	473	436	479	445	570	561
3	---	---	---	---	520	508	483	473	492	481	583	573
4	---	---	---	---	526	520	494	483	496	491	589	580
5	---	---	---	---	526	511	493	485	495	490	592	586
6	---	---	---	---	529	514	496	487	497	484	589	583
7	---	---	604	593	529	492	492	484	505	494	586	540
8	---	---	615	594	487	471	486	274	520	506	565	546
9	---	---	617	599	506	476	392	291	548	516	578	569
10	---	---	614	607	535	508	401	245	578	535	578	569
11	---	---	605	591	544	495	337	235	546	515	581	569
12	---	---	596	592	506	489	427	343	519	509	559	372
13	---	---	594	548	498	474	473	429	516	487	516	446
14	---	---	530	481	498	484	495	476	529	515	552	524
15	---	---	534	513	500	458	500	494	525	504	563	555
16	---	---	567	532	476	455	533	494	501	481	569	558
17	---	---	577	567	505	473	555	535	480	465	559	515
18	---	---	577	567	510	499	538	525	466	439	520	511
19	---	---	570	557	512	496	525	516	471	445	517	430
20	---	---	573	560	509	503	531	515	491	472	507	458
21	---	---	573	567	511	500	537	521	502	493	535	515
22	---	---	563	554	517	511	542	532	507	224	549	536
23	---	---	554	535	513	505	547	537	270	210	597	553
24	---	---	541	523	501	452	546	518	381	279	585	566
25	---	---	554	541	456	433	517	417	431	388	582	569
26	---	---	551	535	487	456	446	403	463	431	588	577
27	---	---	541	535	508	489	497	450	488	468	585	494
28	---	---	538	535	520	511	519	422	536	499	494	443
29	---	---	541	532	523	511	409	270	---	---	432	354
30	---	---	535	517	525	513	405	317	---	---	479	393
31	---	---	---	---	522	396	391	311	---	---	516	481
MONTH	---	---	617	481	544	396	555	235	578	210	597	354

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	2.5	2.0	5.5	4.5	4.5	4.0	4.0	2.5
2	---	---	---	---	3.5	2.5	4.0	2.5	4.5	3.5	2.5	0.5
3	---	---	---	---	3.5	2.0	4.0	3.0	4.5	3.0	3.0	0.0
4	---	---	---	---	3.5	2.5	4.0	3.0	4.5	3.5	4.0	0.5
5	---	---	---	---	2.5	1.0	3.5	1.5	5.0	4.5	4.5	1.5
6	---	---	---	---	3.5	1.5	3.5	2.5	4.5	2.0	6.5	4.0
7	---	---	9.0	9.0	5.0	3.5	5.5	3.0	2.0	0.0	7.0	5.5
8	---	---	9.5	8.0	5.0	4.0	8.0	5.5	0.5	0.0	5.5	4.0
9	---	---	9.0	7.5	4.0	1.0	7.5	6.5	0.0	0.0	5.0	2.0
10	---	---	10.0	8.5	2.0	0.0	10.5	6.5	0.0	0.0	4.5	2.0
11	---	---	10.5	10.0	3.0	1.0	10.5	5.5	0.5	0.0	5.0	3.0
12	---	---	10.0	8.0	4.5	3.0	5.0	2.0	2.0	0.5	5.0	3.5
13	---	---	7.5	7.0	6.0	4.5	2.0	0.5	1.5	0.0	5.0	3.5
14	---	---	7.0	5.0	6.5	5.5	1.0	0.5	2.0	0.5	3.5	2.0
15	---	---	5.5	4.0	6.0	5.5	2.5	1.0	3.5	2.0	5.0	0.5
16	---	---	5.5	3.5	5.5	4.5	3.0	1.5	3.5	2.5	6.5	3.5
17	---	---	6.5	4.5	4.5	3.5	2.0	0.5	4.0	3.5	8.5	5.0
18	---	---	7.0	6.0	3.5	2.5	4.0	1.5	4.0	3.0	9.0	7.5
19	---	---	9.5	7.0	3.5	2.5	3.5	2.5	3.5	2.5	10.0	8.0
20	---	---	10.0	8.0	3.5	2.0	3.0	1.0	4.5	1.5	10.5	7.5
21	---	---	8.0	6.0	3.5	3.0	3.0	1.0	6.0	2.0	12.5	9.0
22	---	---	6.5	5.0	3.5	2.5	3.5	2.5	6.0	4.5	12.5	11.5
23	---	---	9.0	5.5	6.0	3.5	4.0	2.5	6.5	5.0	12.0	9.0
24	---	---	9.5	8.0	6.5	6.0	5.0	2.5	5.0	3.0	13.0	11.0
25	---	---	8.0	6.0	6.0	3.0	5.0	4.0	3.5	2.5	10.5	6.0
26	---	---	5.5	3.5	3.0	1.0	3.5	2.0	4.5	2.0	6.0	4.0
27	---	---	4.0	3.5	3.5	2.5	3.0	1.0	4.5	2.5	5.0	3.0
28	---	---	3.5	2.0	4.5	3.5	5.0	3.0	5.5	3.5	6.0	3.0
29	---	---	4.0	3.0	5.5	4.0	7.5	5.0	---	---	6.5	5.5
30	---	---	4.0	2.5	6.0	5.5	6.5	4.0	---	---	6.0	4.5
31	---	---	---	---	5.5	5.0	4.0	3.0	---	---	8.5	4.0
MONTH	---	---	10.5	2.0	6.5	0.0	10.5	0.5	6.5	0.0	13.0	0.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	7.0	18.0	14.5	19.5	17.0	27.0	24.0	26.5	24.5	23.5	20.5
2	12.5	8.5	18.0	14.0	19.5	17.5	27.5	23.5	25.0	24.0	24.5	21.5
3	11.0	8.0	16.5	14.5	20.0	17.0	27.5	24.5	24.0	21.5	25.5	22.5
4	9.5	5.5	17.0	13.0	21.5	18.0	28.5	25.5	23.5	21.0	25.5	23.5
5	10.0	6.0	19.0	14.0	22.5	19.5	27.0	25.0	25.5	22.5	24.5	23.0
6	11.0	7.0	20.0	16.0	24.0	19.5	26.0	23.0	25.0	22.0	23.5	21.5
7	11.5	7.5	19.0	17.0	22.5	19.0	26.5	24.0	23.0	20.5	21.5	19.5
8	11.5	8.5	17.5	15.0	21.5	18.0	27.0	24.0	24.5	20.0	21.5	20.0
9	10.5	8.5	19.0	15.0	20.0	18.0	26.5	24.0	26.5	21.5	21.5	20.0
10	11.0	9.0	20.0	16.0	21.5	18.5	25.5	23.0	26.5	22.5	22.0	20.5
11	12.0	9.5	19.5	16.5	22.5	20.5	24.0	21.5	28.0	23.5	22.0	21.5
12	11.0	8.0	18.0	16.0	23.5	20.0	24.0	20.5	26.0	23.5	21.5	18.5
13	13.5	8.5	19.0	14.5	24.0	20.0	21.5	18.0	26.0	24.5	18.5	15.5
14	12.0	9.5	19.0	15.0	25.0	20.5	22.5	17.0	26.5	24.0	17.0	15.0
15	11.0	9.0	20.0	17.0	24.0	21.0	25.0	20.0	25.5	23.5	18.5	16.0
16	10.5	9.0	20.0	16.0	23.5	19.5	26.5	22.0	26.0	23.0	18.5	18.0
17	17.0	10.5	21.0	17.0	24.0	21.5	28.0	23.0	28.0	23.0	19.5	18.0
18	18.5	17.0	22.5	18.0	26.5	22.0	25.5	23.5	29.0	23.5	19.0	18.5
19	18.0	14.5	23.5	19.0	29.0	24.0	23.5	21.0	27.0	24.0	19.0	17.5
20	14.5	11.5	25.0	21.0	29.5	24.5	23.0	21.0	29.5	23.5	18.0	16.5
21	13.5	9.5	26.5	23.0	29.0	24.5	25.5	21.5	29.5	24.0	17.0	15.5
22	17.5	11.5	25.0	21.0	29.0	25.0	26.0	22.0	30.0	24.0	16.0	15.5
23	16.5	14.0	23.0	20.0	28.0	25.5	24.5	23.0	30.5	24.0	15.5	14.5
24	14.5	13.5	24.5	21.0	27.5	24.5	26.0	23.0	30.5	24.5	15.0	14.0
25	14.5	13.0	23.5	22.0	27.0	24.5	25.5	23.0	28.0	23.5	14.5	13.0
26	14.0	12.0	24.0	20.5	25.5	23.5	25.0	21.5	25.0	23.0	14.0	13.5
27	13.0	10.5	23.0	20.0	27.0	23.5	26.5	22.0	24.5	21.5	15.0	13.5
28	13.5	10.0	22.5	18.5	28.0	24.5	27.0	24.0	25.5	22.0	15.5	14.5
29	17.0	13.0	21.0	19.0	27.5	25.0	26.5	24.0	25.0	23.0	15.5	15.0
30	16.5	15.0	22.0	19.0	27.0	24.0	28.0	24.0	23.0	22.0	16.5	15.0
31	---	---	21.0	18.5	---	---	28.5	24.5	22.5	21.5	---	---
MONTH	18.5	5.5	26.5	13.0	29.5	17.0	28.5	17.0	30.5	20.0	25.5	13.0
YEAR	30.5	0.0										

03357500 Big Walnut Creek near Reelsville, Ind.

LOCATION.--Lat 39°32'11", long 86°58'35", in NW¼SW¼ sec.28, T.13 N., R.5 W., Putnam County, on left bank at highway bridge, 1.5 miles (2.4 km) southwest of Reelsville, and 4.1 miles (6.6 km) upstream from mouth.

DRAINAGE AREA.--326 mi<sup>2</sup> (844 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: July 1949 to current year. Published as Eel River near Reelsville, October 1952 to September 1956.

SEDIMENT DISCHARGE: September 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 588.24 ft (179.296 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 345 ft<sup>3</sup>/s (9.770 m<sup>3</sup>/s), 14.37 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,360 ft<sup>3</sup>/s (208 m<sup>3</sup>/s) Feb. 23, gage height, 14.26 ft (4.346 m); minimum daily, 22 ft<sup>3</sup>/s (0.62 m<sup>3</sup>/s) July 17.

Period of record: Maximum discharge, 27,400 ft<sup>3</sup>/s (776 m<sup>3</sup>/s) June 28, 1957, gage height, 18.63 ft (5.678 m), from rating curve extended above 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) on basis of slope-conveyance method; minimum daily, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	94	180	942	1,610	637	786	649	358	63	26	102
2	68	83	198	626	1,030	541	654	545	310	58	24	77
3	58	82	222	555	768	472	595	482	360	53	92	61
4	51	155	293	532	661	429	502	460	316	49	722	51
5	50	332	189	452	642	403	445	399	386	45	138	47
6	47	308	190	417	724	388	409	370	323	45	247	44
7	44	219	314	419	559	473	385	337	222	48	77	37
8	43	167	881	974	465	509	366	305	176	62	54	34
9	43	138	672	2,040	403	424	348	282	149	67	37	31
10	41	121	458	2,610	348	418	334	251	133	51	32	29
11	41	164	393	4,090	372	406	318	231	142	41	29	50
12	39	172	524	1,580	439	1,700	300	505	158	36	57	70
13	38	162	624	890	371	1,120	285	361	123	36	57	76
14	58	475	531	628	338	719	276	272	246	40	47	55
15	97	430	640	532	365	578	274	237	270	32	44	44
16	83	319	898	465	539	613	263	210	220	26	39	39
17	69	266	659	377	625	740	259	188	170	22	36	37
18	59	237	515	390	794	806	292	173	140	24	34	39
19	54	221	471	415	638	1,340	903	158	120	389	32	39
20	50	210	436	374	503	1,070	554	161	110	624	30	41
21	46	191	461	340	440	720	398	144	169	314	28	38
22	44	174	420	328	1,010	600	338	452	117	190	27	34
23	42	166	410	306	6,560	505	771	716	98	126	26	32
24	45	270	766	309	4,130	576	4,290	394	91	98	23	35
25	54	250	876	600	1,900	467	2,690	536	86	76	23	34
26	51	212	617	739	1,380	393	2,800	578	108	58	73	32
27	47	195	456	497	1,020	481	1,410	677	220	48	281	29
28	45	182	396	436	787	1,390	1,280	405	104	51	144	28
29	61	169	359	1,900	-----	3,020	1,000	277	82	38	144	27
30	143	161	351	1,570	-----	1,720	762	236	70	34	196	26
31	114	-----	570	2,370	-----	1,030	-----	261	-----	29	157	-----
TOTAL	1,815	6,325	14,880	28,703	29,421	24,688	24,287	11,252	5,577	2,873	2,976	1,318
MEAN	58.5	211	477	926	1,051	796	810	363	186	92.7	96.0	43.9
MAX	143	475	898	4,090	6,560	3,020	4,290	716	386	624	722	102
MIN	38	82	180	306	338	388	259	144	70	22	23	26
CFSM	.18	.65	1.46	2.84	3.22	2.44	2.48	1.11	.57	.28	.29	.13
IN.	.21	.72	1.69	3.28	3.36	2.82	2.77	1.28	.64	.33	.34	.15

CAL YR 1974 TOTAL 189,976 MEAN 520 MAX 4,390 MIN 22 CFSM 1.60 IN 21.68  
WTR YR 1975 TOTAL 154,035 MEAN 422 MAX 6,560 MIN 22 CFSM 1.29 IN 17.58

PEAK DISCHARGE (BASE, 2,800 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0200	12.09	4,980	03-29	0900	10.25	3,610
01-31	1000	9.48	3,090	04-24	0900	12.78	5,630
02-23	1000	14.26	7,360				

03357500 Big Walnut Creek near Reelsville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
11...	1700	16.0	41	12	1.3
JAN.					
21...	1125	1.5	317	88	75
MAR.					
31...	1130	5.0	1050	132	374
MAY					
08...	1100	16.0	300	59	48
JUNE					
18...	1045	22.0	142	352	135
AUG.					
12...	1100	26.0	71	98	19



03358000 Mill Creek near Cataract, Ind.

LOCATION.--Lat 39°26'00", long 86°45'48", in NE¼SE¼ sec.32, T.12 N., R.3 W., Owen County, on right bank at downstream side of bridge on State Highway 43, 3 miles (5 km) east of Cataract, and at mile 17.5 (28.2 km).

DRAINAGE AREA.--245 mi<sup>2</sup> (635 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: July 1949 to current year.

SEDIMENT DISCHARGE: September 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft (215.311 m) 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 (30 m) upstream at same datum.

AVERAGE DISCHARGE.--26 years, 255 ft<sup>3</sup>/s (7.222 m<sup>3</sup>/s), 14.13 in/yr (359 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,160 ft<sup>3</sup>/s (146 m<sup>3</sup>/s) Feb. 24, gage height, 16.83 ft (5.130 m); minimum daily, 5.6 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Sept. 29.

Period of record: Maximum discharge, 11,400 ft<sup>3</sup>/s (323 m<sup>3</sup>/s) June 24, 1960, gage height, 22.58 ft (6.882 m); minimum daily, 0.1 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	48	112	1,480	1,770	331	476	215	106	15	8.8	17
2	62	44	130	532	669	274	369	175	278	14	8.6	12
3	48	43	224	503	435	231	318	162	209	13	26	9.8
4	43	121	192	496	364	211	241	163	116	12	89	9.0
5	38	601	168	341	414	200	211	141	121	12	27	9.3
6	35	345	157	305	568	194	192	137	119	11	16	9.3
7	32	193	303	336	357	223	179	138	67	14	11	9.3
8	31	138	970	900	279	227	166	116	51	23	10	9.2
9	31	111	519	1,860	226	181	162	109	44	16	12	8.5
10	30	97	312	1,760	349	194	152	97	41	14	12	8.2
11	28	126	263	3,270	303	195	138	91	41	13	12	22
12	28	171	412	2,500	663	1,670	126	102	47	13	11	30
13	29	140	389	615	490	1,290	119	100	37	12	11	19
14	33	588	385	348	311	506	113	85	72	12	16	12
15	74	344	489	275	288	373	116	79	68	11	15	9.0
16	74	213	661	234	684	426	188	72	49	11	11	8.0
17	53	165	388	191	958	980	189	66	54	11	9.7	7.5
18	43	137	293	240	687	1,170	115	64	83	16	8.7	7.5
19	37	127	280	337	423	1,530	526	60	42	40	8.5	7.5
20	35	126	323	258	325	925	237	59	33	141	8.2	8.5
21	32	106	357	228	275	501	159	57	81	40	7.6	8.2
22	30	89	327	197	508	406	139	52	37	21	7.6	7.5
23	31	82	286	189	3,830	315	445	70	27	16	7.5	6.2
24	33	278	743	208	4,960	401	2,210	51	23	14	7.7	6.0
25	36	307	610	592	3,430	291	2,320	47	22	13	8.8	5.8
26	36	187	358	666	1,240	217	936	140	26	12	82	6.2
27	33	150	282	335	552	256	473	120	43	11	27	5.8
28	33	129	245	327	414	1,550	394	80	26	10	12	6.0
29	33	104	225	1,600	-----	3,110	308	56	20	9.8	26	5.6
30	47	94	223	934	-----	3,310	242	53	17	9.4	128	5.8
31	54	-----	669	1,930	-----	1,060	-----	55	-----	9.0	35	-----
TOTAL	1,276	5,404	11,135	23,987	25,772	22,748	11,799	3,012	2,000	589.2	680.7	295.7
MEAN	41.2	180	359	774	920	734	393	97.2	66.7	19.0	22.0	9.86
MAX	94	601	970	3,270	4,960	3,310	2,320	215	278	141	128	30
MIN	28	43	112	189	226	181	108	47	17	9.0	7.5	5.6
CFSM	.17	.73	1.47	3.16	3.76	3.80	1.60	.40	.27	.08	.09	.04
IN.	.19	.82	1.69	3.64	3.91	3.45	1.79	.46	.30	.09	.10	.04

CAL YR 1974 TOTAL 129,056.8 MEAN 354 MAX 2,500 MIN 15 CFSM 1.44 IN 19.60  
WTR YR 1975 TOTAL 108,698.6 MEAN 298 MAX 4,960 MIN 5.6 CFSM 1.22 IN 16.50

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1900	14.06	3,380	03-30	0100	14.71	3,760
02-24	0700	16.83	5,160	04-25	0700	12.79	2,640

03358000 Mill Creek near Cataract, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 11...	1350	14.0	28	28	2.1
DEC. 18...	1215	3.0	299	53	43
JAN. 21...	1520	2.0	216	68	40
MAR. 20...	1515	3.5	776	77	161
MAY 07...	1230	19.0	149	52	21
JUNE 18...	1300	25.0	84	208	47

## WABASH RIVER BASIN

03358900 Cagles Mill Lake near Manhattan, Ind.

LOCATION.--Lat 39°29'14", long 86°55'02", in NE¼NW¼ sec.13, T.12 N., R.5 W., Putnam County, in discharge tower of reservoir on Mill Creek, 1.5 miles (2.4 km) upstream from Deer Creek, 2.7 miles (4.3 km) (revised) above mouth, and 5.8 miles (9.3 km) south of Manhattan.

DRAINAGE AREA.--293 mi<sup>2</sup> (759 km<sup>2</sup>).

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 (177.342 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 80,260 acre-ft (99.0 hm<sup>3</sup>) Apr. 3, elevation, 663.02 ft (202.088 m); minimum, 27,140 acre-ft (33.5 hm<sup>3</sup>) June 10, elevation, 636.02 ft (193.859 m).

Period of record: Maximum contents, 127,760 acre-ft (158 hm<sup>3</sup>) May 15, 1961, elevation, 679.30 ft (207.051 m); minimum, 21,700 acre-ft (26.8 hm<sup>3</sup>) Oct. 21-26, 1964, elevation, 631.89 ft (192.600 m). Pool lowered to elevation, 597.57 ft (182.139 m) Oct. 23, 1971 (contents, dry) due to drainage of lake to kill fish.

REMARKS.--Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 5 ft (1.5 m) wide and 10 ft (3.0 m) high, in 12 ft (3.7 m) by 12 ft (3.7 m) concrete-lined tunnel 496 ft (151.2 m) long through right abutment. Minimum design capacity is 27,110 acre-ft (33.4 hm<sup>3</sup>), elevation, 636 ft (193.9 m). Capacity at uncontrolled spillway elevation, 704 ft (214.6 m) is 228,000 acre-ft (218 hm<sup>3</sup>). Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

## Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	637.07	28,630	-
Oct. 31.....	636.11	27,270	-1,360
Nov. 30.....	636.19	27,380	+110
Dec. 31.....	637.13	28,720	+1,340
Calendar year 1974.....	-	-	-30,950
Jan. 31.....	645.24	41,910	+13,190
Feb. 28.....	655.02	61,580	+19,670
Mar. 31.....	662.30	78,470	+16,890
Apr. 30.....	647.67	46,450	-32,020
May 31.....	636.09	27,240	-19,210
June 30.....	636.13	27,300	+60
July 31.....	636.07	27,210	-90
Aug. 31.....	636.78	28,220	+1,010
Sept. 30.....	636.08	27,230	-990
Water year 1975.....	-	-	-1,400

03360000 Eel River at Bowling Green, Ind.

LOCATION.--Lat 39°23'02", long 87°01'12", in NE¼NE¼ sec.24, T.11 N., R.6 W., Clay County, on left bank 500 ft (152 m) downstream from bridge on State Highway 46 at Bowling Green, 0.5 mile (0.8 km) downstream from Jordan Creek, and at mile 38.4 (61.8 km).

DRAINAGE AREA.--830 mi<sup>2</sup> (2,150 km<sup>2</sup>).

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 (167.036 m) above mean sea level (levels by Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

AVERAGE DISCHARGE.--44 years, 861 ft<sup>3</sup>/s (24.38 m<sup>3</sup>/s), 14.09 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft<sup>3</sup>/s (402 m<sup>3</sup>/s) Feb. 23, gage height, 19.82 ft (6.041 m); minimum daily, 53 ft<sup>3</sup>/s (1.50 m<sup>3</sup>/s) Aug. 2.

Period of record: Maximum discharge, 34,000 ft<sup>3</sup>/s (963 m<sup>3</sup>/s) Jan. 4, 1950, gage height, 23.53 ft (7.172 m); minimum daily, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Oct. 7, 8, 1954.

Maximum stage known, about 30.0 ft (9.14 m) in 1875, present datum, from information by Corps of Engineers.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	569	292	405	2,530	3,680	1,290	1,500	1,220	600	142	54	326
2	478	252	572	1,650	2,090	1,110	1,270	1,080	820	112	53	451
3	206	242	719	1,510	1,590	978	1,210	1,080	980	112	971	190
4	196	583	608	1,500	1,410	1,150	2,100	2,200	870	106	1,580	137
5	184	1,190	554	1,280	1,620	2,290	2,650	2,290	790	95	435	121
6	166	1,090	537	1,330	2,640	2,290	2,950	2,350	890	115	668	115
7	138	1,010	737	1,970	2,650	2,540	3,080	2,380	630	202	295	106
8	130	873	1,950	2,440	2,390	2,680	3,020	2,290	420	164	228	96
9	126	421	1,830	3,860	2,270	2,490	2,940	1,920	350	124	168	90
10	122	351	1,410	3,590	2,100	2,440	2,880	748	300	108	116	86
11	113	523	1,260	7,210	2,160	2,410	2,690	670	250	95	102	103
12	148	733	1,450	4,650	2,800	4,240	2,270	851	250	92	92	177
13	360	488	1,540	1,870	2,080	2,740	2,210	905	260	80	142	153
14	188	1,140	1,440	1,410	2,220	1,530	2,160	645	458	80	231	134
15	242	1,280	1,560	1,220	2,160	1,250	2,130	576	652	80	130	110
16	200	1,080	2,120	1,090	2,350	1,370	2,070	551	649	77	98	99
17	210	670	1,740	1,090	2,410	1,720	2,030	1,070	428	67	86	93
18	224	583	1,540	2,210	2,650	1,600	1,950	1,060	388	67	79	90
19	220	551	1,700	2,350	1,950	2,450	2,310	744	324	140	89	92
20	215	537	1,690	2,360	1,530	2,230	1,340	482	275	562	79	99
21	170	499	1,260	2,550	1,250	1,460	1,350	428	224	583	68	114
22	158	462	1,270	2,480	1,650	1,240	1,160	398	260	379	63	97
23	150	360	1,280	2,420	10,100	1,080	1,420	1,130	206	242	60	86
24	148	680	1,820	2,390	11,200	1,090	5,630	730	190	202	57	83
25	152	954	2,040	2,750	5,100	1,350	6,010	652	190	174	77	83
26	158	897	1,750	2,880	2,680	2,240	3,940	1,270	196	128	275	82
27	152	505	1,690	2,340	1,890	2,600	2,600	1,110	234	113	258	81
28	146	526	1,220	2,160	1,540	4,060	1,890	820	229	108	341	78
29	156	458	1,050	3,180	-----	7,030	1,730	740	196	99	328	77
30	342	366	887	3,080	-----	4,690	1,400	460	166	87	862	75
31	351	-----	1,410	4,170	-----	2,020	-----	400	-----	59	372	-----
TOTAL	6,518	19,596	41,039	77,520	80,160	69,658	71,890	33,250	12,675	4,794	8,457	3,724
MEAN	210	653	1,324	2,501	2,863	2,247	2,396	1,073	423	155	273	124
MAX	569	1,280	2,120	7,210	11,200	7,030	6,010	2,380	980	583	1,580	451
MIN	113	242	405	1,090	1,250	978	1,160	398	166	59	53	75
CFSM	.25	.79	1.60	3.01	3.45	2.71	2.89	1.29	.51	.19	.33	.15
IN.	.29	.88	1.84	3.47	3.59	3.12	3.22	1.49	.57	.21	.38	.17

CAL YR 1974 TOTAL 518,911 MEAN 1.422 MAX 6,250 MIN 71 CFSM 1.71 IN 23.26  
WTR YR 1975 TOTAL 429,281 MEAN 1.176 MAX 11,200 MIN 53 CFSM 1.42 IN 19.24

NOTE.--No gage-height record May 27 to June 13, June 21 to July 29.

## 03360500 White River at Newberry, Ind.

LOCATION.--Lat 38°55'42", long 87°01'00", in NE¼NE¼ sec.25, T.6 N., R.6 W., Greene County, on right bank 500 ft (152 m) upstream from bridge on State Highway 57 at Newberry, 2.3 miles (3.7 km) downstream from Doans Creek, and at mile 112.7 (181.3 km) (revised).

DRAINAGE AREA.--4,688 mi<sup>2</sup> (12,142 km<sup>2</sup>).

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 (141.912 m) above mean sea level. Prior to Oct. 21, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 4,655 ft<sup>3</sup>/s (131.8 m<sup>3</sup>/s), 13.49 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 44,900 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) Feb. 27, gage height, 21.27 ft (6.483 m); minimum daily, 840 ft<sup>3</sup>/s (23.8 m<sup>3</sup>/s) Sept. 26-30.  
Period of record: Maximum discharge, 76,900 ft<sup>3</sup>/s (2,180 m<sup>3</sup>/s) May 21, 1943, gage height, 24.19 ft (7.373 m); minimum daily, 200 ft<sup>3</sup>/s (5.66 m<sup>3</sup>/s) Oct. 1, 1941.  
Maximum stage since at least 1875, 27.5 ft (8.38 m) Mar. 27, 1913, from floodmarks by Indiana State Highway Commission, discharge, 130,000 ft<sup>3</sup>/s (3,680 m<sup>3</sup>/s).

REMARKS.--Records good. Flow slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 873: 1937(M). WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,730	1,350	2,580	9,250	15,600	32,500	23,800	14,400	3,460	2,400	1,150	2,250
2	2,880	1,400	2,920	10,300	17,000	25,700	20,900	13,700	3,740	2,200	1,100	2,090
3	2,440	1,400	3,670	9,750	17,500	15,200	15,800	12,300	4,200	2,000	1,260	2,000
4	1,990	1,500	3,560	9,840	13,500	9,390	10,800	9,680	4,380	1,900	2,370	1,600
5	1,730	5,350	3,140	8,790	10,000	7,900	9,120	8,970	4,540	1,600	3,070	1,400
6	1,590	8,000	2,850	7,470	9,660	7,960	8,700	8,500	4,760	1,700	2,550	1,250
7	1,480	6,000	3,270	6,730	10,000	7,810	8,340	8,920	4,240	1,450	2,170	1,150
8	1,390	4,900	6,920	7,350	9,960	7,820	7,960	8,790	3,730	1,500	1,880	1,100
9	1,350	4,300	8,040	10,600	9,520	7,900	7,600	8,080	3,330	1,650	1,530	1,050
10	1,350	3,600	7,740	14,000	8,480	7,940	7,300	7,070	3,080	1,800	1,360	1,000
11	1,250	3,050	7,040	20,500	7,470	7,880	7,040	5,510	2,890	1,600	1,240	1,270
12	1,250	3,400	6,910	23,100	8,960	14,300	6,750	5,570	2,760	1,500	1,100	2,670
13	1,250	3,600	6,770	24,300	10,700	19,300	6,250	5,820	3,060	1,450	1,050	2,130
14	1,200	3,400	6,560	25,300	9,690	18,800	5,890	5,290	3,350	1,400	1,150	1,910
15	1,250	3,700	6,570	22,200	8,150	16,800	5,670	4,610	3,290	1,300	1,780	1,470
16	1,700	3,800	7,840	14,200	8,030	14,400	5,500	4,200	3,240	1,250	1,930	1,290
17	1,800	3,800	8,250	8,350	8,900	13,600	5,350	3,900	3,450	1,200	1,490	1,180
18	1,650	3,500	8,130	7,170	9,200	13,300	5,220	3,830	3,810	1,200	1,300	1,000
19	1,550	2,800	7,980	7,940	9,530	14,000	6,290	3,890	3,850	1,400	1,730	1,080
20	1,400	2,800	7,740	7,860	9,830	15,300	7,690	3,690	3,710	1,750	1,660	1,000
21	1,300	2,920	7,040	7,410	10,000	15,000	7,440	3,450	3,400	2,840	1,300	940
22	1,250	2,680	6,160	7,130	10,000	13,600	7,100	3,180	2,810	3,020	1,100	940
23	1,250	2,460	5,600	6,740	19,300	11,900	6,920	2,950	2,570	2,160	1,000	920
24	1,250	3,720	6,260	6,440	27,900	11,700	10,000	3,830	2,630	2,000	950	870
25	1,250	6,040	7,530	6,470	32,000	10,300	17,500	4,630	2,570	1,710	920	850
26	1,150	4,770	8,030	7,230	40,000	8,990	20,000	4,810	2,380	1,500	1,360	840
27	1,150	3,900	8,200	7,830	43,700	8,860	21,900	5,110	2,300	1,400	1,670	840
28	1,150	3,250	7,880	7,770	38,300	12,000	22,400	5,160	2,700	1,300	1,340	840
29	1,150	2,840	6,620	8,000	-----	18,100	20,800	4,800	2,450	1,200	1,200	840
30	1,250	2,600	5,660	9,780	-----	20,800	16,700	4,290	2,500	1,150	3,020	840
31	1,250	-----	5,790	13,000	-----	22,700	-----	3,660	-----	1,200	3,120	-----
TOTAL	47,630	106,830	193,250	342,800	432,880	431,750	332,730	192,590	99,180	51,730	49,850	38,610
MEAN	1,536	3,561	6,234	11,060	15,460	13,930	11,090	6,213	3,306	1,669	1,608	1,287
MAX	3,730	8,000	8,250	25,300	43,700	32,500	23,800	14,400	4,760	3,020	3,120	2,670
MIN	1,150	1,350	2,580	6,440	7,470	7,810	5,220	2,950	2,300	1,150	920	840
CFSM	.33	.76	1.33	2.36	3.30	2.97	2.37	1.33	.71	.36	.34	.27
IN.	.38	.85	1.53	2.72	3.43	3.43	2.64	1.53	.79	.41	.40	.31
CAL YR 1974	TOTAL 2,612,930	MEAN 7,159	MAX 26,200	MIN 1,130	CFSM 1.53	IN 20.73						
WTR YR 1975	TOTAL 2,319,830	MEAN 6,356	MAX 43,700	MIN 840	CFSM 1.36	IN 18.41						

03361000 Big Blue River at Carthage, Ind.

LOCATION.--Lat 39°44'38", long 85°34'33", in SW¼SW¼ sec.18, T.15 N., R.9 E., Rush County, on right bank 300 ft (91 m) upstream from highway bridge, 0.5 mile (0.8 km) northwest of Carthage, 2.2 miles (3.5 km) downstream from Three Mile Creek, and at mile 50.7 (81.6 km).

DRAINAGE AREA.--184 mi<sup>2</sup> (477 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1950 to current year. Prior to October 1961, published as Blue River at Carthage, Ind.  
CHEMICAL ANALYSES: July 1973 to current year.

WATER TEMPERATURE: November 1974 to current year.

GAGE.--Water-stage recorder and multi-parameter monitor. Datum of gage is 859.33 ft (261.924 m) above mean sea level. Prior to July 19, 1951, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--25 years, 198 ft<sup>3</sup>/s (5.607 m<sup>3</sup>/s), 14.61 in/yr (371 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	63	104	650	806	420	427	619	177	88	62	56
2	64	62	104	363	546	361	360	493	178	86	71	52
3	63	61	102	304	431	275	334	405	177	84	79	51
4	62	95	98	315	367	256	274	366	153	82	68	48
5	61	200	93	250	352	282	249	311	204	81	63	48
6	60	145	92	221	486	274	233	281	203	81	60	50
7	60	107	146	206	356	237	222	249	160	93	58	48
8	63	92	685	303	277	237	214	228	139	88	55	44
9	62	84	531	719	239	248	203	216	128	80	54	45
10	61	78	312	597	219	257	198	201	122	76	61	43
11	61	81	235	1,020	215	247	192	193	167	75	102	78
12	61	80	229	543	236	796	185	230	220	73	73	95
13	60	78	263	342	210	654	179	196	155	73	68	65
14	63	112	238	256	189	453	178	183	139	75	78	56
15	85	107	310	217	193	358	178	178	132	72	73	54
16	72	93	579	194	318	336	171	171	127	70	69	56
17	67	85	356	172	700	453	181	165	120	69	63	57
18	64	81	256	190	797	847	178	159	116	80	61	58
19	63	83	224	220	509	938	368	152	109	83	59	58
20	62	203	195	181	366	561	226	148	119	73	57	60
21	59	146	183	164	302	492	191	143	430	71	55	54
22	61	115	174	155	407	418	181	277	175	68	53	53
23	62	101	190	153	3,830	330	282	205	140	66	52	55
24	64	181	428	159	3,170	448	1,300	169	122	65	49	52
25	64	227	426	375	1,270	370	1,570	152	112	62	47	56
26	64	159	277	448	706	264	1,570	149	114	58	50	57
27	61	132	221	255	570	266	743	183	107	57	49	55
28	60	116	194	226	503	407	1,610	147	101	60	46	50
29	62	100	177	1,900	-----	1,570	1,240	139	94	55	46	49
30	67	95	173	1,190	-----	848	664	167	90	54	70	51
31	64	-----	277	886	-----	555	-----	162	-----	54	58	-----
TOTAL	1,970	3,362	7,872	13,174	18,570	14,458	14,101	7,037	4,530	2,252	1,909	1,654
MEAN	63.5	112	254	425	663	466	470	227	151	72.6	61.6	55.1
MAX	85	227	685	1,900	3,830	1,570	1,610	619	430	93	102	95
MIN	59	61	92	153	189	237	171	139	90	54	46	43
CFSM	.35	.61	1.38	2.31	3.60	2.53	2.55	1.23	.82	.39	.33	.30
IN.	.40	.68	1.59	2.66	3.75	2.92	2.85	1.42	.92	.46	.39	.33

CAL YR 1974 TOTAL 79,968 MEAN 219 MAX 2,350 MIN 59 CFSM 1.19 IN 16.17  
WTR YR 1975 TOTAL 90,889 MEAN 249 MAX 3,830 MIN 43 CFSM 1.35 IN 18.38

PEAK DISCHARGE (BASE, 2,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-29	1700	7.96	2,490	04-25	2300	8.42	2,890
02-23	1500	10.32	5,110				



## 03361000 Big Blue River at Carthage, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 5,110 ft<sup>3</sup>/s (145 m<sup>3</sup>/s) Feb. 23, gage height, 10.32 ft (3.146 m); minimum daily, 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) Mar. 4, 1963, gage height, 14.62 ft (4.456 m), from floodmarks, from rating curve extended above 6,200 ft<sup>3</sup>/s (176 m<sup>3</sup>/s); minimum daily, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) Sept. 18, 1955.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 893 micromhos Jan. 24; minimum, 139 micromhos Feb. 23. Period of record: Maximum conductance, 893 micromhos Jan. 24, 1975; minimum, 139 micromhos Feb. 23, 1975.

WATER TEMPERATURE, Current year: Maximum temperature, 25.5°C July 31; minimum, 1.0°C Mar. 14. Period of record: Maximum temperature, 25.5°C July 31, 1975; minimum, 1.0°C Mar. 14, 1975.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBONATE (CO <sub>3</sub> ) (MG/L)
OCT.										
04...	1415	11.5	61	2	730	8.0	5.7	290	354	0
NOV.										
17...	1515	8.5	86	3	680	8.1	4.6	294	358	0
DEC.										
16...	1330	5.0	561	40	460	7.8	5.7	184	224	0
JAN.										
20...	1515	3.5	175	4	560	7.7	10	260	317	0
FEB.										
27...	1330	4.0	578	18	470	7.7	7.7	198	242	0
MAR.										
24...	1530	12.0	511	22	550	7.8	6.6	213	260	0
APR.										
27...	1645	11.0	682	34	485	8.2	2.3	186	227	0
MAY										
27...	1515	21.0	172	10	560	7.6	11	218	266	0
JULY										
01...	1630	23.5	86	3	660	8.1	4.4	282	344	0
AUG.										
07...	1430	20.0	58	1	680	7.9	5.6	226	276	0
SEP.										
02...	1415	21.5	51	2	760	8.2	2.5	207	252	0

DATE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (P04) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)
OCT.										
04...	.05	4.4	4.4	.28	.13	.09	350	57	93	28
NOV.										
17...	.04	2.3	2.3	.18	.11	.06	360	71	95	31
DEC.										
16...	.03	4.1	4.1	.18	.36	.06	240	61	65	20
JAN.										
20...	.03	3.5	3.5	.21	.10	.07	340	78	89	28
FEB.										
27...	.03	3.5	3.5	.25	.24	.08	250	49	66	20
MAR.										
24...	.04	3.4	3.4	.12	.18	.04	260	44	70	20
APR.										
27...	.04	4.6	4.6	.21	.21	.07	250	63	67	20
MAY										
27...	.14	2.5	2.6	.15	.16	.05	260	39	70	20
JULY										
01...	.11	2.3	2.4	.25	.11	.08	360	76	94	30
AUG.										
07...	.06	3.1	3.2	.49	.19	.16	370	150	90	36
SEP.										
02...	.05	2.0	2.0	.43	.14	.14	350	140	84	33

03361000 Big Blue River at Carthage, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS- PEN- DED MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	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)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT.									
04...	0	80	80	470	453	77.4	.64	19	.16
NOV.									
17...	50	100	50	--	425	98.7	.58	10	.13
DEC.									
16...	310	350	40	323	289	489	.44	18	.10
JAN.									
20...	10	60	50	405	387	191	.55	15	.10
FEB.									
27...	0	80	80	383	298	598	.52	15	.10
MAR.									
24...	50	80	30	332	312	458	.45	15	.13
APR.									
27...	70	90	20	326	292	600	.44	20	.13
MAY									
27...	40	80	40	327	313	152	.44	11	.46
JULY									
01...	10	50	40	438	416	102	.60	10	.36
AUG.									
07...	10	80	70	458	394	71.7	.62	14	.20
SEP.									
02...	30	80	50	460	355	63.3	.63	8.6	.16

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT.										
04...	26	.6	14	2.0	32	67	3.7	7.1	250	50
NOV.										
17...	19	.4	10	1.7	25	59	.3	7.4	210	30
DEC.										
16...	7.0	.2	6	2.0	18	41	.3	7.1	4400	70
JAN.										
20...	15	.4	9	2.0	25	47	.3	8.6	380	30
FEB.										
27...	7.7	.2	6	2.2	16	43	.2	6.8	3400	570
MAR.										
24...	10	.3	8	1.6	22	38	.3	6.3	2000	10
APR.										
27...	7.7	.2	6	1.8	18	37	.4	7.3	2700	70
MAY										
27...	12	.3	9	2.0	22	38	.1	6.2	940	50
JULY										
01...	20	.5	11	2.1	33	49	.3	7.4	330	70
AUG.										
07...	24	.5	12	2.3	28	54	.5	8.6	230	60
SEP.										
02...	19	.4	11	2.4	27	46	.4	10	350	50

03361000 Big Blue River at Carthage, Ind.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	655	643	510	376	570	450	521	504
2	---	---	---	---	681	643	588	510	643	569	538	527
3	---	---	---	---	709	668	611	580	682	639	552	538
4	---	---	---	---	694	677	595	581	715	674	566	554
5	---	---	---	---	687	677	614	589	731	688	579	561
6	---	---	---	---	691	681	628	602	698	616	579	561
7	---	---	---	---	691	571	654	623	728	641	592	559
8	---	---	---	---	564	452	625	512	750	724	587	557
9	---	---	---	---	545	468	486	370	751	726	581	569
10	---	---	---	---	608	549	473	362	787	747	579	566
11	---	---	---	---	628	605	359	283	788	728	628	574
12	---	---	---	---	637	625	462	362	826	709	571	154
13	---	---	---	---	628	597	513	456	860	758	504	405
14	---	---	---	---	619	600	530	504	870	806	525	506
15	---	---	---	---	625	464	557	521	866	784	561	527
16	---	---	---	---	547	461	562	544	862	688	646	554
17	---	---	---	---	597	549	600	539	674	406	587	429
18	---	---	---	---	620	595	696	567	533	387	414	341
19	---	---	---	---	627	606	647	524	625	536	404	188
20	---	---	---	---	656	621	566	533	694	631	461	410
21	---	---	---	---	650	631	655	565	727	690	498	466
22	---	---	---	---	651	638	711	659	718	239	527	500
23	---	---	---	---	646	614	844	720	223	139	534	517
24	---	---	640	569	615	482	893	818	205	146	554	482
25	---	---	622	554	551	501	859	584	402	200	587	554
26	---	---	649	625	583	551	679	558	458	406	597	584
27	---	---	674	646	621	580	781	683	477	456	611	579
28	---	---	681	661	654	612	831	688	502	480	628	508
29	---	---	665	661	690	652	655	178	---	---	466	157
30	---	---	668	658	685	666	478	294	---	---	475	391
31	---	---	---	---	692	397	551	456	---	---	523	477
MONTH	---	---	---	---	709	397	893	178	870	139	646	154

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	545	525	519	490	611	592	665	658	646	614	379	310
2	557	547	549	510	611	584	661	640	643	540	419	308
3	569	557	564	549	611	591	661	640	628	529	608	337
4	584	569	569	559	645	607	658	646	571	500	644	615
5	594	584	579	569	655	510	649	625	608	571	663	622
6	589	587	592	576	593	504	631	614	634	611	639	625
7	594	587	600	581	607	595	628	608	687	634	661	617
8	608	592	605	557	---	---	640	525	708	680	624	587
9	608	597	603	589	---	---	631	608	690	663	599	590
10	611	592	603	584	---	---	634	622	701	666	648	606
11	605	589	597	579	---	---	643	625	649	405	633	583
12	603	592	587	536	---	---	652	637	575	392	636	404
13	603	587	594	571	---	---	649	628	611	574	540	501
14	600	592	605	584	---	---	634	617	622	587	602	549
15	617	592	611	579	---	---	637	622	575	514	615	596
16	---	---	614	581	---	---	646	625	608	574	618	602
17	---	---	617	589	---	---	649	631	602	584	634	608
18	---	---	603	574	---	---	652	622	595	577	631	618
19	---	---	600	576	---	---	643	584	600	573	651	631
20	---	---	611	579	---	---	625	589	618	599	650	627
21	---	---	637	600	---	---	631	611	617	598	657	630
22	---	---	611	423	---	---	640	619	629	610	634	621
23	---	---	581	523	---	---	646	628	622	606	633	621
24	---	---	605	581	---	---	652	631	625	443	656	637
25	---	---	605	592	---	---	668	646	495	406	666	646
26	---	---	608	589	---	---	665	649	472	421	673	630
27	484	471	614	547	---	---	655	640	450	367	662	640
28	488	266	643	614	---	---	643	631	425	345	683	665
29	458	239	655	631	---	---	646	608	430	375	671	636
30	506	463	643	597	---	---	631	617	410	350	652	640
31	---	---	619	597	---	---	655	625	372	325	---	---
MONTH	---	---	655	423	---	---	668	525	708	325	683	308

03361000 Big Blue River at Carthage, Ind.--Continued

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	4.5	2.5	6.5	5.5	8.0	8.0	4.5	3.0
2	---	---	---	---	5.0	4.0	5.5	4.0	8.5	7.0	3.5	2.0
3	---	---	---	---	5.0	3.0	6.0	5.0	8.0	7.0	4.0	2.0
4	---	---	---	---	5.0	4.0	6.0	5.5	8.0	7.0	5.5	2.5
5	---	---	---	---	4.0	2.0	5.5	4.5	9.0	7.5	6.0	3.5
6	---	---	---	---	4.5	2.5	5.5	5.0	8.5	5.5	7.0	5.0
7	---	---	---	---	5.5	5.0	7.5	5.5	5.0	3.5	7.5	6.0
8	---	---	---	---	5.0	4.5	8.5	7.5	5.0	4.0	6.0	4.5
9	---	---	---	---	4.5	2.5	8.0	7.0	4.0	2.5	5.5	3.0
10	---	---	---	---	4.0	1.5	10.5	7.0	3.5	2.0	5.5	4.0
11	---	---	---	---	5.0	3.5	10.5	6.0	6.5	3.5	6.0	5.0
12	---	---	---	---	6.0	5.0	6.0	4.0	6.5	5.0	6.0	5.0
13	---	---	---	---	6.5	6.0	3.5	2.5	6.0	4.0	5.5	4.5
14	---	---	---	---	7.0	6.0	3.0	1.5	6.5	4.0	4.5	1.0
15	---	---	---	---	6.0	5.5	4.0	2.5	8.5	6.0	5.5	2.0
16	---	---	---	---	5.5	5.0	4.5	3.5	8.0	7.5	7.0	5.0
17	---	---	---	---	5.0	4.5	3.5	1.5	7.5	6.5	9.0	6.0
18	---	---	---	---	4.5	4.0	5.5	3.5	6.5	5.5	8.5	5.5
19	---	---	---	---	4.5	3.5	5.5	4.5	6.0	5.5	8.0	7.0
20	---	---	---	---	4.5	3.5	4.5	3.0	7.0	5.0	10.0	6.5
21	---	---	---	---	5.0	4.5	5.5	2.0	8.0	5.5	11.0	8.5
22	---	---	---	---	5.5	4.5	7.5	5.0	8.0	7.0	11.0	9.5
23	---	---	---	---	7.0	5.0	8.5	7.0	9.0	7.5	12.0	8.0
24	---	---	9.5	9.0	7.0	6.5	10.0	7.5	8.5	5.5	12.5	11.0
25	---	---	9.0	6.5	6.5	4.0	10.0	8.5	5.0	4.5	10.5	5.5
26	---	---	6.5	5.0	4.0	2.5	8.0	6.5	6.0	3.5	7.5	5.0
27	---	---	5.0	4.5	5.0	4.0	8.0	6.0	5.5	4.0	6.0	4.0
28	---	---	5.5	4.0	6.0	5.0	10.5	8.0	5.5	4.5	5.5	4.0
29	---	---	5.5	4.5	8.0	6.0	11.5	8.5	---	---	6.0	5.0
30	---	---	5.0	2.5	8.5	8.0	9.5	8.0	---	---	5.5	4.5
31	---	---	---	---	8.0	6.5	8.5	8.0	---	---	8.0	4.0
MONTH	---	---	---	---	8.5	1.5	11.5	1.5	9.0	2.0	12.5	1.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.5	16.0	12.5	19.0	16.5	23.5	21.0	24.5	20.5	17.0	12.0
2	11.5	8.5	16.5	13.0	17.5	16.5	24.0	20.0	24.5	21.5	19.0	12.0
3	11.0	6.5	15.5	13.5	18.0	16.5	24.0	20.0	24.0	21.0	24.0	14.0
4	8.0	5.0	15.5	12.5	19.5	17.0	24.5	21.0	24.0	21.0	23.5	19.5
5	9.0	5.0	16.5	13.0	19.5	18.5	23.5	20.5	24.0	20.5	22.5	19.5
6	10.0	6.0	18.5	14.5	21.0	18.0	23.5	18.5	23.5	19.5	21.0	18.5
7	10.5	6.5	17.0	15.0	19.0	18.0	22.0	19.5	21.5	18.0	19.5	16.5
8	10.5	7.5	16.0	14.0	---	---	23.0	19.0	22.0	18.0	20.0	16.5
9	9.5	7.5	17.5	14.0	---	---	24.0	21.0	22.5	18.5	20.0	17.0
10	11.5	7.5	18.0	14.5	---	---	22.5	20.0	23.5	19.5	20.0	16.0
11	11.0	9.5	18.0	15.0	---	---	21.0	18.0	24.0	19.5	19.5	18.5
12	9.5	7.0	17.5	15.5	---	---	20.5	17.0	23.5	21.0	19.0	17.0
13	11.5	7.5	17.5	14.0	---	---	19.5	17.0	24.5	22.0	16.5	13.5
14	9.5	8.5	18.0	15.0	---	---	20.0	15.5	24.0	20.0	15.0	12.0
15	10.0	7.5	18.5	15.5	---	---	21.5	16.5	24.0	21.0	16.0	13.0
16	---	---	18.0	15.0	---	---	22.0	17.5	23.5	20.0	16.5	15.0
17	---	---	17.5	15.5	---	---	22.5	18.5	22.5	19.5	18.5	15.5
18	---	---	19.5	16.0	---	---	21.5	19.0	23.5	19.5	18.0	16.5
19	---	---	20.5	17.5	---	---	21.5	18.5	24.0	20.0	17.0	16.0
20	---	---	22.0	18.5	---	---	22.0	19.5	24.5	21.0	17.0	15.0
21	---	---	23.0	20.0	---	---	24.0	20.5	24.5	21.5	16.0	14.0
22	---	---	21.5	19.5	---	---	23.5	20.0	25.0	21.5	14.5	13.0
23	---	---	22.0	18.5	---	---	24.0	20.0	24.5	22.0	14.0	12.0
24	---	---	22.5	19.5	---	---	24.5	21.5	24.5	21.5	13.5	12.5
25	---	---	22.0	20.0	---	---	24.5	21.0	22.5	18.0	13.0	12.0
26	---	---	22.0	19.0	---	---	23.5	20.0	21.5	19.0	13.5	12.0
27	11.0	10.5	22.0	19.5	---	---	24.0	19.5	20.0	16.0	15.5	12.5
28	12.0	9.0	20.5	18.5	---	---	24.5	21.5	19.0	14.5	15.5	12.0
29	15.5	11.5	20.0	18.5	---	---	25.0	21.0	19.5	16.5	15.0	12.0
30	15.0	13.0	20.5	19.0	---	---	25.0	21.5	18.5	15.0	15.5	13.0
31	---	---	20.0	17.5	---	---	25.5	21.5	16.0	13.5	---	---
MONTH	---	---	23.0	12.5	---	---	25.5	15.5	25.0	13.5	24.0	12.0

## 03361500 Big Blue River at Shelbyville, Ind.

LOCATION.--Lat 39°31'45", long 85°46'55", in SE¼SE¼ sec.31, T.13 N., R.7 E., Shelby County, on left bank 0.2 mile (0.3 km) downstream from bridge on U.S. Highway 421 at Shelbyville, 0.6 mile (1.0 km) downstream from Little Blue River, and at mile 23.9 (38.4 km).

DRAINAGE AREA.--421 mi<sup>2</sup> (1,090 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville. SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft (224.842 m) above mean sea level. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mile (0.3 km) upstream at datum 3.5 ft (1.07 m) higher.

AVERAGE DISCHARGE.--32 years, 462 ft<sup>3</sup>/s (13.08 m<sup>3</sup>/s), 14.90 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,220 ft<sup>3</sup>/s (261 m<sup>3</sup>/s) Feb. 24, gage height, 16.33 ft (4.977 m); minimum daily, 58 ft<sup>3</sup>/s (1.64 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 15,800 ft<sup>3</sup>/s (447 m<sup>3</sup>/s) Mar. 5, 1963, gage height, 17.70 ft (5.395 m); minimum daily, 32 ft<sup>3</sup>/s (0.91 m<sup>3</sup>/s) Oct. 2, 1953.

Flood in March 1913 reached a stage of about 20.2 ft (6.16 m), 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	125	315	1,550	2,250	1,000	1,050	1,100	413	176	84	82
2	230	123	347	1,110	1,570	850	869	987	395	168	91	77
3	192	123	381	865	1,130	733	788	821	424	163	99	72
4	175	207	356	894	929	656	654	752	360	156	104	71
5	163	621	333	748	870	610	579	650	487	160	94	67
6	151	625	312	618	1,050	581	536	587	613	154	90	66
7	145	415	402	551	961	584	506	525	428	149	84	65
8	140	327	1,430	665	733	599	483	479	339	158	82	63
9	140	281	1,520	1,430	601	534	458	448	299	146	79	58
10	136	254	1,020	1,370	501	524	443	418	281	136	77	58
11	132	246	748	2,350	525	514	426	396	324	131	85	79
12	127	246	636	1,780	713	1,440	406	432	445	126	111	108
13	125	232	661	1,050	672	1,970	389	415	364	122	93	101
14	127	273	618	748	554	1,260	378	374	307	123	97	80
15	156	342	658	593	502	930	380	361	294	118	100	73
16	184	295	1,270	510	686	815	367	346	287	115	92	72
17	165	262	1,020	473	1,180	1,070	363	330	264	112	92	74
18	151	240	755	460	1,720	472	378	321	254	136	87	75
19	143	232	629	589	1,220	514	567	309	242	134	81	76
20	136	378	565	520	900	117	536	298	231	123	79	79
21	129	437	520	437	734	1,260	423	288	474	116	76	77
22	125	339	493	396	706	1,020	385	343	529	112	73	72
23	125	289	483	381	4,670	844	459	444	371	107	71	71
24	129	418	751	381	8,470	1,300	1,810	340	282	104	69	72
25	129	790	1,030	568	6,400	1,150	2,870	306	245	102	67	73
26	129	593	782	1,020	2,400	850	3,830	295	229	98	65	73
27	127	463	593	710	1,540	718	2,510	381	223	95	66	75
28	123	390	506	550	1,210	636	1,880	324	210	95	64	73
29	123	324	447	1,770	-----	782	2,480	298	196	92	64	70
30	125	295	425	3,260	-----	2,730	1,440	359	186	87	74	69
31	127	-----	561	2,440	-----	1,460	-----	369	-----	84	83	-----
TOTAL	4,607	10,185	20,567	30,787	45,397	28,523	28,643	14,096	9,996	3,898	2,573	2,221
MEAN	149	340	663	993	1,621	920	955	455	333	126	83.0	74.0
MAX	298	790	1,520	3,260	8,470	2,730	3,830	1,100	613	176	111	108
MIN	123	123	312	381	501	117	363	288	186	84	64	58
CFSM	.35	.81	1.57	2.36	3.85	2.19	2.27	1.08	.79	.30	.20	.18
IN.	.41	.90	1.82	2.72	4.01	2.52	2.53	1.25	.88	.34	.23	.20

CAL YR 1974 TOTAL 193,731 MEAN 531 MAX 5,790 MIN 92 CFSM 1.26 IN 17.12  
WTR YR 1975 TOTAL 201,493 MEAN 552 MAX 8,470 MIN 58 CFSM 1.31 IN 17.80

PEAK DISCHARGE (BASE, 3,400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-30	1900	11.00	3,400	04-26	2200	11.79	3,990
02-24	1800	16.33	9,220				

03361500 Big Blue River at Shelbyville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 10...	1450	13.5	136	11	4.0	--	--
DEC. 13...	1105	11.0	657	100	177	--	--
JAN. 27...	1345	6.0	699	91	172	--	--
FEB. 25...	1255	--	5990	249	4030	--	--
26...	1415	--	2080	154	865	--	--
MAR. 18...	1030	9.0	2290	186	1150	45	58

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. 10...	--	--	--	--	--	--	--
DEC. 13...	--	--	--	--	--	--	--
JAN. 27...	--	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
MAR. 18...	70	82	89	94	94	96	100



03361650 Sugar Creek at New Palestine, Ind.

LOCATION.--Lat 39°42'51", long 85°53'08", in SE¼SW¼ sec.29, T.15 N., R.6 E., Hancock County, on left bank 10 ft (3 m) downstream from bridge on County Road 450 West, 0.5 mile (0.8 km) south of New Palestine, 3.1 miles (5.0 km) (revised) upstream from Little Sugar Creek, and 37.3 miles (60.0 km) upstream from mouth.

DRAINAGE AREA.--93.9 mi<sup>2</sup> (243.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 786.00 ft (239.573 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 108 ft<sup>3</sup>/s (3.059 m<sup>3</sup>/s), 15.62 in/yr (397 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,560 ft<sup>3</sup>/s (44.2 m<sup>3</sup>/s) Feb. 24, gage height, 8.85 ft (2.697 m); minimum daily, 3.7 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Sept. 9, 10.

Period of record: Maximum discharge, 1,850 ft<sup>3</sup>/s (52.4 m<sup>3</sup>/s) June 23, 1974, gage height, 9.12 ft (2.780 m); maximum gage height, 9.34 ft (2.847 m) Feb. 2, 1968; minimum daily discharge, 3.2 ft<sup>3</sup>/s (0.091 m<sup>3</sup>/s) Oct. 7, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	22	42	334	584	177	260	197	64	26	8.7	8.7
2	14	21	42	293	451	140	199	202	64	23	8.0	8.0
3	13	22	44	212	295	112	161	148	63	21	8.7	9.4
4	15	31	43	195	229	99	123	120	57	20	11	12
5	17	77	41	164	213	95	101	96	56	21	11	5.5
6	16	79	40	134	246	89	90	82	52	34	8.7	5.5
7	15	58	98	119	232	96	83	72	58	24	6.7	5.5
8	15	42	297	233	166	105	77	64	47	21	6.1	4.9
9	14	34	325	567	129	94	72	58	42	22	6.7	3.7
10	14	30	212	690	118	90	68	53	39	26	8.0	3.7
11	15	30	140	814	110	86	65	50	76	20	6.7	13
12	15	29	165	649	114	346	60	57	84	18	6.1	16
13	16	28	170	366	97	407	56	55	62	17	7.4	11
14	19	58	148	220	83	291	53	48	51	16	11	8.7
15	22	61	181	162	86	195	52	45	47	16	10	12
16	22	51	292	125	157	149	50	42	44	15	9.4	11
17	22	41	259	102	284	241	50	39	43	13	11	11
18	20	36	171	100	411	412	53	36	39	21	12	10
19	20	34	133	116	354	521	68	35	36	22	11	10
20	20	37	112	105	238	393	63	33	46	18	9.4	13
21	20	33	101	87	179	265	53	30	139	16	9.4	12
22	19	33	97	77	214	199	48	68	58	15	8.0	11
23	20	34	104	74	1220	156	70	79	43	13	8.0	12
24	22	56	181	79	1430	162	395	58	36	13	7.4	11
25	22	63	239	187	1050	174	745	43	34	13	6.7	13
26	22	59	185	313	477	133	874	43	39	12	6.7	13
27	21	55	132	228	293	115	657	46	59	11	6.7	14
28	20	47	106	173	227	224	398	36	46	18	5.5	14
29	21	41	91	501	---	765	356	31	36	14	6.1	16
30	22	38	84	750	---	749	245	31	29	10	8.7	15
31	22	---	165	776	---	442	---	32	---	9.4	9.4	---
TOTAL	571	1280	4440	8945	9687	7522	5645	2029	1589	558.4	260.2	313.6
MEAN	18.4	42.7	143	289	346	243	188	65.5	53.0	18.0	8.39	10.5
MAX	22	79	325	814	1430	765	874	202	139	34	12	16
MIN	13	21	40	74	83	86	48	30	29	9.4	5.5	3.7
CFSM	.20	.45	1.52	3.08	3.68	2.59	2.00	.70	.56	.19	.09	.11
IN.	.23	.51	1.76	3.54	3.84	2.98	2.24	.80	.63	.22	.10	.12

CAL YR 1974 TOTAL 41602.0 MEAN 114 MAX 1480 MIN 7.0 CFSM 1.21 IN 16.48  
WTR YR 1975 TOTAL 42840.2 MEAN 117 MAX 1430 MIN 3.7 CFSM 1.25 IN 16.97

PEAK DISCHARGE (BASE, 950 FT<sup>3</sup>/S).--Feb. 24 (1400) 1,560 ft<sup>3</sup>/s (8.85 ft); Apr. 25 (2300) 1,210 ft<sup>3</sup>/s (7.65 ft).

03361850 Buck Creek at Acton, Ind.

LOCATION.--Lat 39°39'25", long 85°57'27", in NW¼SE¼ sec.15, T.14 N., R.5 E., Marion County, on left bank 30 ft (9 m) downstream from McGregor Road bridge, 0.5 mile (0.8 km) east of Acton, and 4.1 miles (6.6 km) (revised) upstream from mouth.

DRAINAGE AREA.--78.8 mi<sup>2</sup> (204.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft (230.734 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 96.9 ft<sup>3</sup>/s (2.744 m<sup>3</sup>/s), 16.70 in/yr (424 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,440 ft<sup>3</sup>/s (69.1 m<sup>3</sup>/s) Feb. 23, gage height, 10.56 ft (3.219 m); minimum daily, 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 5,300 ft<sup>3</sup>/s (150 m<sup>3</sup>/s) July 20, 1969, gage height, 14.99 ft (4.569 m); minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Oct. 1, 4, 1967.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	20	27	438	477	137	177	112	112	11	4.7	10
2	8.4	19	35	208	281	108	137	81	112	17	4.4	8.8
3	9.2	20	50	196	192	84	122	68	94	24	4.7	12
4	8.0	36	49	184	157	68	85	62	57	23	5.6	14
5	8.4	199	45	132	168	62	68	48	60	32	5.0	8.0
6	5.6	118	40	116	226	58	56	40	45	85	3.9	14
7	9.6	64	245	106	156	82	57	34	32	69	3.9	7.0
8	8.8	41	549	336	111	82	51	30	25	117	3.4	4.0
9	8.0	32	301	587	84	64	46	29	19	38	3.2	2.5
10	6.6	27	183	703	76	67	43	26	17	22	3.4	2.0
11	9.6	26	138	809	70	67	39	25	157	16	3.9	10
12	8.8	27	234	329	157	703	35	63	141	15	6.6	30
13	11	24	207	190	127	366	32	35	72	7.6	8.7	10
14	15	133	158	127	93	210	29	26	50	16	35	6.0
15	15	104	235	95	93	143	29	23	43	15	10	8.0
16	15	58	329	74	261	149	27	21	35	7.6	6.4	6.8
17	13	40	196	57	330	392	27	18	29	10	3.2	6.0
18	8.8	32	138	79	285	469	29	17	23	28	27	5.4
19	10	28	120	108	189	518	75	15	22	72	8.4	5.0
20	8.8	48	106	78	137	281	45	14	19	32	3.6	7.0
21	10	38	110	63	106	175	31	13	42	18	2.9	14
22	11	27	101	54	285	138	27	161	33	13	2.5	12
23	9.6	21	120	55	2,210	100	99	87	20	10	2.1	10
24	14	78	244	74	1,470	199	674	40	17	10	2.5	9.0
25	16	95	221	254	612	153	578	29	26	8.8	6.9	14
26	12	55	140	257	336	95	492	43	62	7.6	10	12
27	11	41	105	140	229	107	255	47	27	7.3	13	10
28	12	34	84	140	177	488	299	27	18	14	3.4	9.5
29	17	23	70	948	-----	1,210	183	22	14	11	8.0	8.6
30	20	21	67	455	-----	518	125	20	10	5.3	15	8.0
31	25	-----	310	706	-----	255	-----	30	-----	4.7	17	-----
TOTAL	354.0	1,529	4,957	8,098	9,095	7,548	3,972	1,306	1,433	766.9	238.3	283.6
MEAN	11.4	51.0	160	261	325	243	132	42.1	47.8	24.7	7.69	9.45
MAX	25	199	549	948	2,210	1,210	674	161	157	117	35	30
MIN	5.6	19	27	54	70	58	27	13	10	4.7	2.1	2.0
CFSM	.14	.65	2.03	3.31	4.12	3.08	1.68	.53	.61	.31	.10	.12
IN.	.17	.72	2.34	3.82	4.29	3.56	1.88	.62	.68	.36	.11	.13

CAL YR 1974 TOTAL 40,254.2 MEAN 110 MAX 2,250 MIN 3.2 CFSM 1.40 IN 19.00  
WTR YR 1975 TOTAL 39,580.8 MEAN 108 MAX 2,210 MIN 2.0 CFSM 1.37 IN 18.69

PEAK DISCHARGE (BASE, 1,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2345	7.56	1,050	02-23	1300	10.56	2,440
01-29	0915	7.92	1,170	03-29	1130	8.75	1,480

03362000 Youngs Creek near Edinburg, Ind.

LOCATION.--Lat 39°25'08", long 86°00'18", in SE¼SW¼ sec.5, T.11 N., R.5 E., Johnson County, on left bank on upstream side of highway bridge, 0.5 mile (0.8 km) southwest of Amity, 2.0 miles (3.2 km) upstream from mouth, and 5 miles (8 km) northwest of Edinburg.

DRAINAGE AREA.--107 mi<sup>2</sup> (277 km<sup>2</sup>).

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 (204.277 m) above mean sea level. Prior to June 30, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 107 ft<sup>3</sup>/s (3.030 m<sup>3</sup>/s), 13.58 in/yr (345 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,040 ft<sup>3</sup>/s (114.4 m<sup>3</sup>/s) Feb. 23, gage height, 10.25 ft (3.124 m); minimum daily, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Sept. 8.

Period of record: Maximum discharge, 10,700 ft<sup>3</sup>/s (303 m<sup>3</sup>/s) Jan. 27, 1952, gage height, 13.4 ft (4.08 m); minimum daily, 0.5 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	26	72	592	596	176	202	116	45	17	5.8	4.6
2	76	25	83	307	356	140	166	99	57	16	5.3	4.6
3	57	26	119	281	238	117	145	94	104	15	9.6	4.4
4	49	80	120	267	192	105	114	89	70	14	17	4.1
5	41	398	116	190	204	95	100	78	151	13	8.6	4.0
6	36	225	106	164	277	87	90	71	147	43	17	4.2
7	33	132	286	139	203	101	83	66	78	269	20	3.6
8	30	94	591	265	146	89	78	61	54	146	10	3.0
9	29	72	343	569	116	75	74	59	44	66	7.9	3.5
10	27	62	222	582	94	84	72	55	39	41	7.1	3.6
11	25	60	169	960	102	84	67	52	371	28	6.3	21
12	24	56	187	416	354	1,320	63	59	303	23	5.9	34
13	24	51	193	244	251	741	60	54	147	24	6.9	18
14	26	88	159	165	170	371	59	47	103	21	12	9.3
15	47	88	209	127	142	250	59	45	85	17	10	6.6
16	45	66	322	108	261	251	57	42	70	14	8.3	6.7
17	36	57	215	85	390	575	58	39	80	12	6.0	6.2
18	31	52	154	132	296	780	63	37	87	13	5.3	5.9
19	28	52	146	187	206	816	167	35	55	19	5.5	5.5
20	25	141	150	131	156	446	109	34	46	20	5.5	6.6
21	24	116	140	108	129	290	81	32	40	16	5.1	5.7
22	23	75	126	91	317	251	73	32	36	13	4.8	5.4
23	24	62	117	87	2,900	194	180	34	33	11	4.4	5.5
24	29	142	240	93	2,320	373	993	31	30	10	3.8	4.9
25	30	235	247	137	638	218	657	28	28	8.8	3.2	6.3
26	27	142	170	210	407	146	419	28	26	7.8	3.8	5.5
27	25	114	134	131	289	178	269	39	25	7.2	4.1	8.3
28	24	86	114	115	226	891	204	29	23	7.7	4.0	6.9
29	24	66	101	325	-----	1,030	162	26	21	7.7	4.2	5.6
30	25	61	92	369	-----	470	132	25	19	6.5	6.3	5.3
31	25	-----	238	719	-----	282	-----	29	-----	5.9	6.1	-----
TOTAL	1,090	2,950	5,681	8,296	11,976	11,026	5,056	1,565	2,417	932.6	229.8	218.8
MEAN	35.2	98.3	183	268	428	356	169	50.5	80.6	30.1	7.41	7.29
MAX	121	398	591	960	2,900	1,320	993	116	371	269	20	34
MIN	23	25	72	85	94	75	57	25	19	5.9	3.2	3.0
CFSM	.33	.92	1.71	2.50	4.00	3.33	1.58	.47	.75	.28	.07	.07
IN.	.38	1.03	1.98	2.88	4.16	3.83	1.76	.54	.84	.32	.08	.08

CAL YR 1974 TOTAL 44,003.6 MEAN 121 MAX 1,290 MIN 4.8 CFSM 1.13 IN 15.30  
 WTR YR 1975 TOTAL 51,438.2 MEAN 141 MAX 2,900 MIN 3.0 CFSM 1.32 IN 17.88

PEAK DISCHARGE (BASE, 1,300 FT<sup>3</sup>/S).--Feb. 23 (2015) 4,040 ft<sup>3</sup>/s (10.25 ft); Mar. 12 (1315) 1,750 ft<sup>3</sup>/s (7.60 ft).

03362500 Sugar Creek near Edinburg, Ind.

LOCATION.--Lat 39°21'39", long 85°59'51", in SW¼SE¼ sec.29, T.11 N., R.5 E., Johnson County, on left bank 50 ft (15 m) upstream from highway bridge in Camp Atterbury, 1.2 miles (1.9 km) upstream from confluence with Blue River, 1.5 miles (2.4 km) northwest of Edinburg, and at mile 1.3 (2.1 km).

DRAINAGE AREA.--474 mi<sup>2</sup> (1,228 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 646.23 ft (196.971 m) above mean sea level. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.--33 years, 488 ft<sup>3</sup>/s (13.82 m<sup>3</sup>/s), 13.98 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 ft<sup>3</sup>/s (309 m<sup>3</sup>/s) Feb. 24, gage height, 14.46 ft (4.407 m); minimum daily, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 27,600 ft<sup>3</sup>/s (782 m<sup>3</sup>/s) May 29, 1956, gage height, 18.38 ft (5.602 m); minimum daily, 9.2 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Sept. 19, 1954.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	112	286	2,100	3,360	989	1,310	845	215	122	59	45
2	232	114	312	1,540	2,110	791	971	770	304	113	56	47
3	183	112	412	1,100	1,390	648	849	664	400	105	66	45
4	162	176	435	1,120	1,040	554	674	581	336	99	77	43
5	147	731	415	877	981	501	559	490	379	96	65	41
6	137	873	382	714	1,150	468	492	426	492	112	66	43
7	129	523	523	626	1,080	472	452	378	332	388	78	43
8	122	374	1,930	732	805	496	424	341	271	279	63	42
9	121	295	1,810	2,160	631	450	397	315	229	221	56	41
10	117	250	1,180	2,330	515	443	376	290	206	150	53	39
11	112	233	827	3,720	515	436	355	270	565	123	51	47
12	110	223	763	3,220	933	2,630	333	285	1,010	109	51	88
13	110	213	962	1,630	925	3,420	313	318	553	106	51	77
14	108	243	797	1,010	679	1,800	300	269	375	102	58	69
15	138	425	764	731	570	1,170	297	246	312	94	59	55
16	157	346	1,440	590	834	998	286	231	279	91	64	50
17	152	284	1,190	486	1,430	1,460	280	218	268	86	59	48
18	133	247	855	502	1,610	3,060	286	207	276	82	55	48
19	124	230	691	693	1,290	3,110	487	197	220	110	58	49
20	118	372	639	599	966	2,570	458	189	189	144	60	51
21	114	477	595	490	754	1,520	350	180	190	114	55	47
22	107	336	568	428	796	1,150	307	173	334	94	49	46
23	107	272	535	401	5,130	899	403	421	223	82	47	45
24	115	320	766	414	10,000	1,180	2,390	303	179	77	42	45
25	115	899	1,130	562	7,080	1,070	3,250	232	157	72	41	49
26	115	608	896	1,170	3,830	767	3,170	204	147	66	40	50
27	114	453	670	896	1,800	660	2,650	234	176	63	41	51
28	109	380	553	662	1,270	2,160	1,790	218	167	64	41	56
29	109	311	476	1,470	-----	3,460	1,400	182	151	63	43	52
30	110	270	439	2,800	-----	3,770	1,050	168	134	64	50	48
31	110	-----	562	2,680	-----	2,230	-----	171	-----	62	48	-----
TOTAL	4,174	10,702	23,803	38,453	53,474	45,332	26,659	10,016	9,069	3,553	1,702	1,500
MEAN	135	357	768	1,240	1,910	1,462	889	323	302	115	54.9	50.0
MAX	337	899	1,930	3,720	10,000	3,770	3,250	845	1,010	388	78	88
MIN	107	112	286	401	515	436	280	168	134	62	40	39
CFSM	.28	.75	1.62	2.62	4.03	3.08	1.88	.68	.64	.24	.12	.11
IN.	.33	.84	1.87	3.02	4.20	3.56	2.09	.79	.71	.28	.13	.12

CAL YR 1974 TOTAL 222,718 MEAN 610 MAX 4,850 MIN 55 CFSM 1.29 IN 17.48  
WTR YR 1975 TOTAL 228,437 MEAN 626 MAX 10,000 MIN 39 CFSM 1.32 IN 17.93

PEAK DISCHARGE (BASE, 4,200 FT<sup>3</sup>/S).--Feb. 24 (1500) 10,900 ft<sup>3</sup>/s (14.46 ft).

03362500 Sugar Creek near Edinburg, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 03...	1525	12.0	174	25	12
DEC. 12...	1115	3.0	700	74	140
MAR. 17...	1330	9.0	1410	58	221

03363000 Driftwood River near Edinburg, Ind.

LOCATION.--Lat 39°20'21", long 85°59'11", in NW¼SW¼ sec.4, T.10 N., R.5 E., Bartholomew County, on left bank just downstream from highway bridge, 0.8 mile (1.3 km) downstream from confluence of Blue River and Sugar Creek, 1.5 miles (2.4 km) southwest of Edinburg, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--1,060 mi<sup>2</sup> (2,745 km<sup>2</sup>).

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 (194.155 m) above mean sea level. Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 1,140 ft<sup>3</sup>/s (32.28 m<sup>3</sup>/s), 14.60 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,200 ft<sup>3</sup>/s (487 m<sup>3</sup>/s) Feb. 24, gage height, 14.92 ft (4.548 m); minimum daily, 137 ft<sup>3</sup>/s (3.88 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 40,500 ft<sup>3</sup>/s (1,147 m<sup>3</sup>/s) Mar. 6, 1963, gage height, 16.97 ft (5.172 m); minimum daily, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Sept. 23, 1941.

Flood in March 1913 reached a stage of 20.3 ft (6.19 m).

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	895	283	815	3,630	6,850	3,090	3,490	3,000	819	435	203	177
2	648	287	872	3,700	5,220	2,540	3,000	2,600	977	407	198	172
3	510	283	1,050	2,690	3,650	2,150	2,500	2,200	1,080	389	215	162
4	446	389	1,090	2,580	2,790	1,880	2,100	2,000	1,130	368	246	157
5	402	1,270	1,040	2,210	2,500	1,720	1,800	1,800	1,040	355	233	151
6	372	1,920	962	1,830	2,650	1,620	1,600	1,500	1,430	359	217	149
7	347	1,370	1,090	1,620	2,790	1,590	1,470	1,300	1,240	598	221	145
8	331	1,040	3,160	1,660	2,170	1,620	1,400	1,200	996	515	204	142
9	327	839	4,040	3,580	1,780	1,520	1,300	1,100	848	488	193	140
10	319	722	3,160	4,540	1,650	1,460	1,250	1,000	763	396	185	137
11	306	671	2,240	6,110	1,480	1,430	1,200	980	1,100	353	181	170
12	295	643	1,870	6,550	1,980	4,040	1,150	1,000	1,610	325	186	198
13	291	620	2,060	4,150	2,120	6,600	1,100	1,000	1,260	311	203	210
14	287	653	1,870	2,670	1,700	4,890	1,050	980	967	307	205	218
15	327	955	1,780	1,960	1,460	3,290	1,010	900	845	296	210	190
16	377	888	2,890	1,610	1,710	2,660	990	860	786	282	213	180
17	381	762	3,050	1,370	2,790	3,130	980	830	764	270	208	176
18	347	680	2,280	1,320	3,690	5,280	990	800	739	259	205	175
19	323	633	1,830	1,630	3,560	6,280	1,250	760	657	313	196	176
20	306	788	1,650	1,560	2,640	6,140	1,360	740	604	357	191	180
21	295	1,170	1,520	1,330	2,060	4,440	1,250	720	591	324	180	175
22	283	958	1,440	1,190	1,850	3,370	1,100	760	1,110	286	168	170
23	283	794	1,370	1,110	7,000	2,750	1,200	1,010	904	266	160	168
24	291	799	1,640	1,100	15,200	3,050	2,000	1,080	703	252	156	165
25	291	1,840	2,550	1,270	16,000	3,360	4,500	876	597	242	150	170
26	291	1,660	2,310	2,380	10,900	2,620	5,600	816	545	231	147	171
27	287	1,300	1,770	2,260	5,300	2,110	6,200	802	552	221	141	169
28	283	1,100	1,480	1,680	3,810	3,650	4,900	869	538	222	140	174
29	283	931	1,300	2,470	-----	5,650	4,200	800	507	217	149	174
30	283	812	1,200	5,810	-----	7,190	3,400	720	470	215	160	165
31	283	-----	1,300	6,600	-----	5,970	-----	760	-----	212	175	-----
TOTAL	10,990	27,060	56,679	84,170	117,300	107,090	65,340	35,763	26,172	10,071	5,839	5,106
MEAN	355	902	1,828	2,715	4,189	3,455	2,178	1,154	872	325	188	170
MAX	895	1,920	4,040	6,600	16,000	7,190	6,200	3,000	1,610	598	246	218
MIN	283	283	815	1,100	1,460	1,430	980	720	470	212	140	137
CFSM	.33	.85	1.72	2.56	3.95	3.26	2.05	1.09	.82	.31	.18	.16
IN.	.39	.95	1.99	2.95	4.12	3.76	2.29	1.26	.92	.35	.20	.18

CAL YR 1974 TOTAL 517,184 MEAN 1,417 MAX 11,200 MIN 242 CFSM 1.34 IN 18.15  
WTR YR 1975 TOTAL 551,580 MEAN 1,511 MAX 16,000 MIN 137 CFSM 1.43 IN 19.36

PEAK DISCHARGE (BASE, 7,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-01	0100	10.99	7,040	03-30	1700	11.34	7,430
02-24	2200	14.92	17,200				



## 03363500 Flatrock River at St. Paul, Ind.

LOCATION.--Lat 39°25'03", long 85°38'03", in SE¼NE¼ sec.9, T.11 N., R.8 E., Shelby County, on right bank 500 ft (152 m) downstream from highway bridge, 0.8 mile (1.3 km) southwest of St. Paul, and 1.5 miles (2.4 km) downstream from Mill Creek, and at mile 34.4 (55.3 km).

DRAINAGE AREA.--303 mi<sup>2</sup> (785 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul. SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft (233.123 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft (152 m) upstream at same datum.

AVERAGE DISCHARGE.--45 years, 316 ft<sup>3</sup>/s (8.949 m<sup>3</sup>/s), 14.16 in/yr (360 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,930 ft<sup>3</sup>/s (281 m<sup>3</sup>/s) Feb. 24, gage height, 9.06 ft (2.761 m); minimum daily, 7.8 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 18,500 ft<sup>3</sup>/s (524 m<sup>3</sup>/s) Jan. 5, 1949; maximum recorded gage height, 12.37 ft (3.770 m) May 24, 1968; minimum daily discharge, 0.6 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Aug. 7, 1931.

Flood in March 1913 reached a stage of approximately 20.5 ft (6.25 m), 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	523	92	243	1,020	1,630	631	774	754	164	55	12	26
2	346	89	257	924	1,290	502	597	632	144	50	12	19
3	260	88	263	751	896	412	496	509	150	47	21	17
4	214	480	250	770	723	352	388	430	144	43	62	15
5	185	937	238	646	658	312	324	357	144	41	36	14
6	165	648	229	542	721	291	291	304	265	43	23	12
7	149	438	339	470	719	291	270	264	195	41	17	11
8	135	328	1,100	521	564	286	251	233	140	55	16	9.6
9	131	269	1,230	935	458	251	232	216	113	47	15	9.0
10	124	236	995	1,110	424	246	223	200	100	39	14	7.8
11	114	226	654	1,860	399	241	210	191	110	33	15	15
12	106	221	528	1,610	731	2,330	193	226	145	30	23	36
13	102	197	516	1,050	614	1,630	185	212	134	31	31	34
14	99	220	499	674	468	1,060	177	190	113	30	30	25
15	129	239	643	505	403	681	177	181	102	30	34	19
16	157	223	1,090	417	483	583	169	173	99	27	27	17
17	150	203	992	349	767	1,130	165	159	104	25	27	16
18	130	190	709	420	935	1,850	177	150	92	25	25	18
19	118	185	586	578	922	2,020	219	139	80	29	23	21
20	109	196	527	461	681	1,830	255	129	71	30	19	27
21	101	223	473	358	563	1,140	193	120	434	30	16	26
22	95	215	437	313	550	788	173	117	283	25	15	20
23	93	186	409	286	6,110	604	219	131	149	24	13	17
24	97	240	495	281	8,550	943	1,010	122	113	20	12	16
25	98	433	719	334	5,420	1,230	1,830	110	94	18	11	16
26	94	435	636	635	1,990	725	2,030	129	85	18	9.6	16
27	89	346	499	562	1,000	530	1,690	204	81	17	9.0	16
28	86	292	421	407	795	998	1,030	184	77	16	9.0	16
29	87	246	368	672	-----	2,040	1,330	126	71	17	19	14
30	100	223	339	1,370	-----	2,120	1,520	112	62	15	37	13
31	98	-----	435	2,000	-----	1,350	-----	136	-----	14	37	-----
TOTAL	4,484	8,544	17,119	22,831	39,464	29,397	16,798	7,140	4,058	965	669.6	538.4
MEAN	145	285	552	736	1,409	948	560	230	135	31.1	21.6	17.9
MAX	523	937	1,230	2,000	8,550	2,330	2,030	754	434	55	62	36
MIN	86	88	229	281	399	241	165	110	62	14	9.0	7.8
CFSM	.48	.94	1.82	2.43	4.65	3.13	1.85	.76	.45	.10	.07	.06
IN.	.55	1.05	2.10	2.80	4.85	3.61	2.06	.88	.50	.12	.08	.07

CAL YR 1974 TOTAL 156,443.0 MEAN 429 MAX 4,250 MIN 3.0 CFSM 1.42 IN 19.21  
WTR YR 1975 TOTAL 152,008.0 MEAN 416 MAX 8,550 MIN 7.8 CFSM 1.37 IN 18.66

PEAK DISCHARGE (BASE, 2,500 FT<sup>3</sup>/S).--Feb. 24 (0930) 9,930 ft<sup>3</sup>/s (9.06 ft); Mar. 12 (1100) 3,630 ft<sup>3</sup>/s (5.05 ft).

03363500 Flatrock River at St. Paul, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 11...	1445	14.0	115	17	5.3
APR. 25...	1830	--	2240	262	1580

03363900 Flatrock River at Columbus, Ind.

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¼ sec.12, T.9 N., R.5 E., Bartholomew County, on left bank at downstream side of bridge on U.S. Highway 31 (bypass), 0.2 mile (0.3 km) northwest of Columbus city limits, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--534 mi<sup>2</sup> (1,383 km<sup>2</sup>).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft (185.971 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 622 ft<sup>3</sup>/s (17.62 m<sup>3</sup>/s), 15.82 in/yr (402 mm yr).

EXTREMES.--Current year: Maximum discharge, 13,200 ft<sup>3</sup>/s (374 m<sup>3</sup>/s) Feb. 24, gage height, 14.01 ft (4.270 m); minimum daily, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) May 25, 1968, gage height, 15.87 ft (4.837 m), from inside high-water mark; minimum daily, 22 ft<sup>3</sup>/s (0.62 m<sup>3</sup>/s) Oct. 5, 1967.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	181	427	1,360	3,000	1,780	1,710	1,410	294	140	68	65
2	707	179	494	1,560	2,270	1,490	1,350	1,000	305	134	67	64
3	544	177	594	1,210	1,610	1,290	1,170	906	300	128	69	62
4	453	272	578	1,200	1,200	1,140	1,010	793	300	123	69	58
5	389	1,520	533	1,060	1,050	1,040	888	713	329	119	83	57
6	341	1,300	490	869	1,050	983	813	649	443	122	88	55
7	304	889	484	758	1,110	961	759	598	478	120	78	53
8	277	681	1,280	722	924	946	716	554	365	115	71	52
9	260	565	1,940	1,220	820	887	678	525	304	113	68	52
10	249	492	1,640	1,510	690	856	641	494	271	114	66	51
11	235	454	1,190	2,770	660	843	606	469	278	105	64	56
12	222	441	925	2,910	996	2,510	568	466	404	100	63	68
13	211	413	835	2,070	1,200	5,090	535	478	388	97	62	74
14	202	404	810	1,240	882	2,490	510	445	330	95	67	76
15	209	464	797	911	720	1,770	496	423	293	94	77	70
16	236	447	1,500	741	728	1,490	485	405	271	91	76	66
17	276	398	1,590	632	1,080	1,810	472	387	260	88	76	64
18	258	364	1,230	596	1,340	2,760	471	366	262	86	75	64
19	236	345	947	828	1,330	3,110	506	346	245	88	72	64
20	217	344	856	773	1,080	3,000	538	328	225	89	68	64
21	204	361	783	630	854	2,250	516	309	209	88	66	63
22	194	381	712	549	738	1,650	468	291	507	86	62	62
23	185	343	661	499	3,830	1,370	464	285	343	83	59	62
24	183	340	672	479	12,200	1,640	986	287	256	80	57	60
25	182	685	930	489	11,000	2,170	2,070	274	217	78	55	59
26	181	764	974	702	5,420	1,750	2,630	261	195	76	53	58
27	179	646	798	840	3,000	1,290	2,300	282	183	74	52	55
28	174	558	685	667	2,190	1,860	1,700	340	174	77	52	54
29	172	479	609	634	-----	3,060	1,450	308	167	74	54	53
30	179	419	565	1,400	-----	3,410	1,730	275	150	71	60	52
31	184	-----	550	2,200	-----	2,650	-----	268	-----	69	64	-----
TOTAL	8,853	15,306	27,079	34,029	62,972	59,346	29,236	14,935	8,746	3,017	2,061	1,813
MEAN	286	510	874	1,098	2,249	1,914	975	482	292	97.3	66.5	60.4
MAX	1,010	1,520	1,940	2,910	12,200	5,090	2,630	1,410	507	140	88	76
MIN	172	177	427	479	660	843	464	261	150	69	52	51
CFSM	.54	.96	1.64	2.06	4.21	3.58	1.83	.90	.55	.18	.12	.11
IN.	.62	1.07	1.89	2.37	4.39	4.13	2.04	1.04	.61	.21	.14	.13

CAL YR 1974 TOTAL 269,016 MEAN 737 MAX 5,500 MIN 110 CFSM 1.38 IN 18.74  
WTR YR 1975 TOTAL 267,393 MEAN 733 MAX 12,200 MIN 51 CFSM 1.37 IN 18.63

PEAK DISCHARGE (BASE, 3,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-24	2000	14.01	13,200	03-19	2100	8.91	3,500
03-13	0500	10.93	6,480	03-29	2300	9.13	3,860

03364000 East Fork White River at Columbus, Ind.

LOCATION.--Lat 39°12'00", long 85°55'32", in NE¼NW¼ 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 (1.0 km) downstream from confluence of Driftwood River and Flatrock River, 1.3 miles (2.1 km) upstream from Haw Creek, and at mile 238.7 (384.1 km).

DRAINAGE AREA.--1,707 mi<sup>2</sup> (4,421 km<sup>2</sup>).

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 (183.831 m) above mean sea level. Prior to Oct. 22, 1952, nonrecording gage 600 ft (183 m) upstream at same datum.

AVERAGE DISCHARGE.--28 years, 1,836 ft<sup>3</sup>/s (52.00 m<sup>3</sup>/s), 14.61 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 32,500 ft<sup>3</sup>/s (920 m<sup>3</sup>/s) Feb. 25, gage height, 12.21 ft (3.722 m); minimum daily, 221 ft<sup>3</sup>/s (6.26 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 52,300 ft<sup>3</sup>/s (1,480 m<sup>3</sup>/s) Mar. 6, 1963, gage height, 16.23 ft (4.947 m); minimum daily, 87 ft<sup>3</sup>/s (2.46 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,040	502	1,360	4,540	10,600	4,870	5,600	4,450	1,170	622	314	290
2	1,450	497	1,480	5,650	7,970	4,110	4,430	3,710	1,320	586	307	282
3	1,140	514	1,730	4,530	5,510	3,520	3,820	3,180	1,390	558	330	268
4	961	1,060	1,800	4,200	4,410	3,100	3,310	2,920	1,420	531	365	253
5	857	2,810	1,690	3,790	3,970	2,820	2,860	2,410	1,460	506	374	244
6	782	3,370	1,580	3,150	3,960	2,650	2,580	2,500	1,980	530	362	235
7	720	2,530	1,910	2,750	4,260	2,670	2,390	2,290	1,770	614	351	229
8	680	1,850	4,370	2,680	3,610	2,640	2,250	1,990	1,410	781	329	230
9	647	1,510	5,830	4,660	2,970	2,480	2,130	1,860	1,200	713	314	227
10	621	1,310	5,200	6,160	2,390	2,370	2,030	1,700	1,070	613	303	221
11	598	1,230	3,910	8,620	2,340	2,340	1,930	1,630	1,730	528	293	282
12	569	1,190	3,180	10,000	3,590	7,330	1,840	1,620	2,410	487	291	325
13	551	1,140	3,160	6,740	3,930	12,100	1,750	1,710	1,870	461	310	337
14	534	1,170	3,020	4,330	3,160	8,000	1,680	1,560	1,460	460	319	349
15	568	1,400	2,970	3,280	2,680	5,500	1,640	1,460	1,260	446	347	314
16	646	1,430	4,420	2,730	2,780	4,670	1,610	1,400	1,160	431	344	293
17	703	1,280	4,990	2,340	4,060	5,210	1,570	1,350	1,120	409	333	280
18	658	1,160	4,030	2,250	5,030	7,310	1,590	1,300	1,140	392	333	281
19	605	1,100	3,200	2,770	5,180	9,560	2,050	1,250	1,010	461	319	277
20	567	1,150	2,890	2,730	4,290	9,710	2,250	1,200	911	509	309	294
21	535	1,540	2,650	2,370	3,420	6,410	1,960	1,150	841	481	292	284
22	515	1,440	2,450	2,090	3,070	4,650	1,720	1,080	1,390	432	276	278
23	497	1,250	2,290	1,950	10,700	3,830	2,020	1,320	1,400	404	264	273
24	507	1,230	2,530	1,890	25,300	4,800	4,820	1,410	1,110	384	254	267
25	510	2,450	3,630	1,970	31,000	5,280	7,890	1,230	924	370	245	281
26	509	2,610	3,750	3,060	20,900	4,250	9,240	1,130	822	357	237	273
27	499	2,090	3,020	3,480	10,200	3,320	9,900	1,130	792	348	228	266
28	490	1,770	2,520	2,790	5,800	5,870	7,280	1,280	779	361	227	268
29	494	1,520	2,190	2,800	-----	8,430	5,670	1,170	729	345	232	266
30	521	1,350	1,980	5,930	-----	11,000	5,820	1,060	670	335	263	255
31	512	-----	1,980	8,190	-----	9,720	-----	1,100	-----	326	290	-----
TOTAL	21,486	45,453	91,710	124,420	197,080	170,520	105,630	54,550	37,718	14,781	9,355	8,222
MEAN	693	1,515	2,958	4,014	7,039	5,501	3,521	1,760	1,257	477	302	274
MAX	2,040	3,370	5,830	10,000	31,000	12,100	9,900	4,450	2,410	781	374	349
MIN	490	497	1,360	1,890	2,340	2,340	1,570	1,060	670	326	227	221
CFSM	.41	.89	1.73	2.35	4.12	3.22	2.06	1.03	.74	.28	.18	.16
IN.	.47	.99	2.00	2.71	4.29	3.72	2.30	1.19	.82	.32	.20	.18

CAL YR 1974 TOTAL 823,727 MEAN 2,257 MAX 15,200 MIN 386 CFSM 1.32 IN 17.95  
WTR YR 1975 TOTAL 880,925 MEAN 2,413 MAX 31,000 MIN 221 CFSM 1.41 IN 19.20

PEAK DISCHARGE (BASE, 10,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	0400	4.96	10,300	03-20	0100	4.97	10,300
02-01	0800	5.24	10,900	03-30	2000	5.38	11,200
02-25	0800	12.21	32,500	04-27	1100	4.85	10,000
03-13	0800	6.23	12,800				

03364200 Haw Creek near Clifford, Ind.

LOCATION (revised).--Lat 39°16'04", long 85°51'22", in NW¼SW¼ 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 (1.9 km) southeast of Clifford, 5.8 miles (9.3 km) northeast of Columbus, and 7.6 miles (12.2 km) upstream from mouth.

DRAINAGE AREA.--47.5 mi<sup>2</sup> (123.0 km<sup>2</sup>).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 643.00 ft (195.986 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 50.9 ft<sup>3</sup>/s (1.441 m<sup>3</sup>/s), 14.55 in/yr (370 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,350 ft<sup>3</sup>/s (66.6 m<sup>3</sup>/s) Feb. 23, gage height, 13.50 ft (4.115 m); minimum daily, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) May 24, 1968, gage height, 13.9 ft (4.24 m), 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 good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	36	60	163	155	79	74	36	19	7.1	2.9	2.6
2	59	31	107	87	101	66	62	33	18	6.7	2.6	2.2
3	47	28	112	96	74	60	52	32	32	6.6	3.2	2.1
4	42	400	83	92	67	57	42	32	23	6.3	3.3	2.0
5	37	360	66	69	77	55	38	29	98	6.2	3.1	1.9
6	34	140	55	61	86	55	35	27	101	7.0	3.0	1.8
7	32	99	141	53	64	61	33	26	45	6.9	2.8	1.6
8	30	74	284	68	52	55	31	25	30	6.8	2.6	1.6
9	29	59	132	103	46	47	30	24	24	6.4	2.1	1.5
10	27	52	85	198	44	48	29	23	20	7.0	2.7	1.4
11	25	53	67	465	40	49	27	22	36	6.1	2.7	1.1
12	24	56	64	132	187	1190	25	25	149	5.9	2.4	9.6
13	24	48	62	86	103	318	24	23	46	5.9	2.2	4.3
14	24	57	58	63	71	173	23	22	30	5.9	2.3	2.9
15	26	52	135	52	62	145	22	21	25	5.7	2.3	3.1
16	30	44	158	47	118	269	20	20	20	4.8	2.3	2.9
17	30	40	95	41	133	303	19	19	29	4.0	9.3	2.8
18	26	37	71	66	97	161	20	19	26	4.1	8.6	2.8
19	24	37	68	72	73	276	26	18	17	4.4	3.8	3.2
20	23	41	69	53	60	139	20	17	15	4.2	3.2	3.4
21	21	37	62	46	52	98	18	16	13	4.2	2.9	3.3
22	21	32	55	40	99	82	17	16	12	3.9	2.5	3.1
23	21	31	52	38	1,980	66	28	15	12	3.7	2.5	2.9
24	23	60	95	41	1,190	185	161	15	11	3.6	2.4	2.7
25	22	92	97	53	227	99	126	14	10	3.3	2.3	3.1
26	21	61	71	67	151	64	89	15	9.8	3.2	2.2	3.4
27	21	50	60	48	114	83	64	15	9.4	3.2	1.5	3.4
28	21	42	54	45	95	677	54	15	9.1	4.1	1.9	3.4
29	21	36	51	71	-----	432	46	15	8.6	3.5	2.1	2.9
30	38	36	48	69	-----	159	40	16	8.1	3.3	3.2	2.5
31	38	-----	81	236	-----	99	-----	17	-----	3.1	3.0	-----
TOTAL	944	2,221	2,698	2,821	5,618	5,650	1,295	662	906.0	157.1	93.9	95.4
MEAN	30.5	74.0	87.0	91.0	201	182	43.2	21.4	30.2	5.07	3.03	3.18
MAX	83	400	284	465	1,980	1,190	161	36	149	7.1	9.3	11
MIN	21	28	48	38	40	47	17	14	8.1	3.1	1.5	1.4
CFSM	.64	1.56	1.83	1.92	4.23	3.83	.91	.45	.64	.11	.06	.07
IN.	.74	1.74	2.11	2.21	4.40	4.42	1.01	.52	.71	.12	.07	.07

CAL YR 1974 TOTAL 26,164.3 MEAN 71.7 MAX 1,500 MIN 4.7 CFSM 1.51 IN 20.49  
WTR YR 1975 TOTAL 23,161.4 MEAN 63.5 MAX 1,980 MIN 1.4 CFSM 1.34 IN 18.14

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1800	8.38	927	03-12	1200	12.29	1,930
01-11	0200	7.88	821	03-28	0500	9.85	1,250
02-23	2400	13.50	2,350				

03364500 Clifty Creek at Hartsville, Ind.

LOCATION.--Lat 39°16'25", long 85°42'10", in NW¼NW¼ sec.36, T.10 N., R.7 E., Bartholomew County, at downstream side of left abutment of highway bridge, 0.2 mile (0.3 km) north of Hartsville, 5.9 miles (9.5 km) (revised) upstream from Duck Creek, and at mile 20.0 (32.2 km).

DRAINAGE AREA.--91.4 mi<sup>2</sup> (236.7 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: February 1948 to current year.

CHEMICAL ANALYSIS: December 1970 to September 1975 (discontinued).

WATER TEMPERATURE: December 1970 to September 1975 (discontinued).

GAGE.--Water-stage recorder and multi-parameter monitor. Datum of gage is 677.34 ft (206.453 m) above mean sea level. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 97.3 ft<sup>3</sup>/s (2.756 m<sup>3</sup>/s), 14.46 in/yr (367 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	35	80	325	403	122	128	72	19	4.5	.56	.11
2	99	31	99	195	250	102	102	60	22	3.6	.26	.06
3	74	42	107	189	173	87	89	56	36	2.9	.57	.06
4	66	324	95	222	144	77	68	56	23	2.4	1.3	.02
5	57	531	87	156	152	74	58	51	84	2.0	5.4	0
6	50	248	81	129	185	70	55	51	62	2.9	3.0	0
7	44	159	148	111	150	80	51	48	34	15	1.9	0
8	40	118	558	138	115	79	48	43	21	6.7	.73	0
9	38	95	317	269	94	66	45	40	15	4.8	.50	0
10	36	82	197	311	85	70	45	37	13	4.0	.23	0
11	32	83	149	934	91	68	41	36	36	3.1	.17	4.2
12	30	84	133	328	411	1,740	39	43	154	3.5	.11	1.9
13	29	75	128	195	271	614	36	46	84	3.0	.07	.19
14	30	80	115	140	167	305	36	40	46	3.4	.10	.95
15	48	79	211	109	130	210	36	36	34	2.6	1.6	.55
16	64	69	366	91	230	260	34	33	28	2.1	.36	.75
17	48	62	218	78	356	510	34	30	34	1.6	3.8	1.0
18	39	57	153	126	274	734	37	28	36	2.1	1.8	1.7
19	33	57	135	171	188	530	46	25	22	2.9	.87	1.9
20	30	79	127	100	140	292	40	24	17	2.6	1.9	3.5
21	27	80	116	79	115	204	33	22	14	2.4	1.0	3.2
22	25	62	100	72	198	166	33	21	14	2.3	.63	2.6
23	24	54	92	64	3,560	131	45	19	15	2.1	.40	2.4
24	27	74	128	65	2,480	224	237	19	11	1.9	.23	1.9
25	27	133	161	79	416	170	302	17	9.2	1.6	.15	3.0
26	27	102	130	120	256	117	267	16	8.5	.72	.11	2.6
27	25	86	108	84	185	131	148	16	7.8	.35	.07	2.1
28	24	76	96	75	150	545	115	15	7.2	2.2	.03	1.4
29	25	62	86	165	-----	1,040	95	14	6.7	4.8	.02	.91
30	37	59	82	266	-----	336	80	13	5.7	3.0	.06	.67
31	36	-----	110	497	-----	183	-----	17	-----	.93	.10	-----
TOTAL	1,346	3,177	4,713	5,883	11,369	9,337	2,423	1,044	919.1	98.00	28.03	37.67
MEAN	43.4	106	152	190	406	301	80.8	33.7	30.6	3.16	.90	1.26
MAX	155	531	558	934	3,560	1,740	302	72	154	15	5.4	4.2
MIN	24	31	80	64	85	66	33	13	5.7	.35	.02	0
CFSM	.47	1.16	1.66	2.08	4.44	3.29	.88	.37	.33	.03	.010	.01
IN.	.55	1.29	1.92	2.39	4.63	3.80	.99	.42	.37	.04	.01	.02

CAL YR 1974 TOTAL 51,725.20 MEAN 142 MAX 2,540 MIN 2.3 CFSM 1.55 IN 21.05  
WTR YR 1975 TOTAL 40,374.80 MEAN 111 MAX 3,560 MIN 0 CFSM 1.21 IN 16.43

PEAK DISCHARGE (BASE, 1,300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0800	5.04	1,310	03-12	1900	7.19	2,520
02-23	1900	10.76	5,480				



## WABASH RIVER BASIN

03364500 Clifty Creek at Hartsville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 5,480 ft<sup>3</sup>/s (155 m<sup>3</sup>/s) Feb. 23, gage height, 10.76 ft (3.280 m); no flow Sept. 5-10.

Period of record: Maximum discharge, 11,300 ft<sup>3</sup>/s (320 m<sup>3</sup>/s) Jan. 21, 1959, gage height, 14.29 ft (4.356 m); no flow at times most years.

Flood in 1913 reached a stage of 25.1 ft (7.65 m), from floodmarks.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 611 micromhos Oct. 14, 19; minimum, 170 micromhos Feb. 23.  
Period of record: Maximum conductance, 713 micromhos Jan. 17, 1972; minimum, 184 micromhos May 18, 1974.

WATER TEMPERATURE. Current year: Maximum temperature, 28.5°C June 20, 21, 25, 28, 29; minimum, 0.5°C Dec. 26.

Period of record: Maximum temperature, 30.0°C June 6, 1971; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area. WRD Ind. 1974: 1973.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	555	549	584	581	547	521
2	487	481	589	576	539	499
3	499	493	587	466	542	499
4	511	505	480	277	542	529
5	523	517	456	399	555	534
6	535	529	517	459	561	539
7	547	541	549	519	550	427
8	559	553	564	549	493	392
9	571	565	575	564	452	401
10	583	577	578	572	511	454
11	594	589	578	567	531	507
12	594	584	578	569	542	534
13	600	592	572	561	564	539
14	611	600	561	553	567	544
15	603	584	561	553	553	402
16	600	584	575	553	450	416
17	605	600	561	553	493	430
18	608	603	569	550	511	495
19	611	605	581	564	519	509
20	608	600	581	537	526	514
21	603	597	547	524	524	516
22	600	594	531	524	526	521
23	603	594	553	534	534	521
24	594	581	555	529	539	511
25	589	584	537	526	524	502
26	589	576	544	531	509	502
27	589	576	550	537	524	509
28	584	569	572	550	539	524
29	579	564	558	547	544	529
30	569	552	555	542	544	531
31	581	569	---	---	539	529
MONTH	611	481	589	277	567	392
YEAR	611	170				

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]



03365000 Sand Creek near Brewersville, Ind.

LOCATION.--Lat 39°05'03", long 85°39'32", in NW¼NE¼ sec.5, T.7 N., R.8 E., Jennings County, on left bank at downstream side of county highway bridge, 2.5 miles (4.0 km) west of Brewersville, 5.7 miles (9.2 km) upstream from Wyalosung Creek, and 16.0 miles (25.7 km) (revised) upstream from mouth.

DRAINAGE AREA.--155 mi<sup>2</sup> (401 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: February 1948 to current year.

SEDIMENT DISCHARGE: August 1969 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 629.13 ft (191.759 m) above mean sea level (levels by Indiana Department of Natural Resources). Prior to Oct. 6, 1952, nonrecording gage at site 1.7 miles (2.7 km) upstream at datum approximately 8 ft (2.4 m) higher.

AVERAGE DISCHARGE.--27 years, 170 ft<sup>3</sup>/s (4.814 m<sup>3</sup>/s), 14.89 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) Feb. 24, gage height, 16.58 ft (5.054 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 19,900 ft<sup>3</sup>/s (564 m<sup>3</sup>/s) Jan. 21, 1959, gage height, 21.70 ft (6.614 m) inside, 22.20 ft (6.767 m) outside, from rating curve extended above 6,500 ft<sup>3</sup>/s (184 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	45	184	540	692	214	259	148	94	15	6.4	27
2	124	170	287	264	388	185	215	130	59	12	5.2	12
3	94	94	228	290	272	162	199	115	44	11	5.5	8.6
4	73	1,390	159	342	234	147	160	103	70	10	24	6.4
5	67	877	138	227	296	140	350	97	131	9.3	58	4.7
6	57	300	122	188	357	136	128	107	294	11	23	3.5
7	52	188	282	177	258	167	122	111	119	12	13	2.6
8	48	144	1,160	193	189	210	115	81	66	16	9.3	2.1
9	43	122	465	457	173	152	111	74	43	25	7.6	2.0
10	40	107	269	655	134	146	119	68	32	15	6.1	1.8
11	33	116	218	2,440	152	170	111	65	35	11	4.9	430
12	28	163	210	521	315	5,670	101	91	644	9.0	3.9	488
13	27	126	205	299	328	1,170	93	300	282	8.6	3.5	76
14	25	130	177	206	222	472	85	114	147	11	3.1	28
15	42	124	368	188	186	395	83	77	111	8.0	14	13
16	120	97	615	160	253	787	87	61	87	7.0	54	10
17	79	84	300	138	448	1,160	79	50	74	7.0	21	7.7
18	56	77	228	288	357	706	78	43	85	7.0	53	6.8
19	44	89	206	378	248	871	100	39	68	8.0	17	6.4
20	40	144	204	214	198	424	111	34	50	23	18	8.5
21	35	106	174	165	171	306	79	31	172	16	11	11
22	30	78	156	155	179	478	71	28	124	10	9.0	10
23	28	67	140	144	5,240	317	160	26	61	8.0	7.0	8.3
24	29	94	199	140	5,520	945	1,150	49	41	6.7	5.8	6.3
25	30	223	261	187	643	384	857	25	29	6.1	4.9	5.2
26	30	148	189	279	389	250	474	22	24	5.2	4.2	4.5
27	27	114	151	174	294	290	268	23	22	4.4	3.3	4.1
28	25	103	146	154	245	2,360	213	21	19	4.2	3.7	4.2
29	24	88	136	515	-----	2,100	182	57	22	3.7	12	4.3
30	26	82	131	437	-----	597	155	89	19	5.5	41	3.7
31	45	-----	171	1,030	-----	350	-----	101	-----	9.3	83	-----
TOTAL	1,614	5,690	7,879	11,545	18,381	21,861	6,315	2,380	3,068	315.0	535.4	1,206.7
MEAN	52.1	190	254	372	656	705	211	76.8	102	10.2	17.3	40.2
MAX	193	1,390	1,160	2,440	5,520	5,670	1,150	300	644	25	83	488
MIN	24	45	122	138	134	136	71	21	19	3.7	3.1	1.8
CFSM	.34	1.23	1.64	2.40	4.23	4.55	1.36	.50	.66	.07	.11	.26
IN.	.39	1.37	1.89	2.77	4.41	5.25	1.52	.57	.74	.08	.13	.29

CAL YR 1974 TOTAL 80,912.6 MEAN 222 MAX 2,370 MIN 6.4 CFSM 1.43 IN 19.42  
WTR YR 1975 TOTAL 80,790.1 MEAN 221 MAX 5,670 MIN 1.8 CFSM 1.43 IN 19.39

PEAK DISCHARGE (BASE, 2,900 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0500	10.30	3,780	03-28	0700	10.22	3,730
02-24	0100	16.58	10,400	03-29	1100	9.03	2,910
03-12	1400	16.10	9,890				

03365000 Sand Creek near Brewersville, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 04...	1420	--	74	28	5.6
NOV. 12...	1555	9.5	160	66	29
DEC. 10...	1505	2.0	254	26	18
JAN. 30...	1230	8.0	375	556	259

03365500 East Fork White River at Seymour, Ind.

LOCATION (revised).--Lat 38°58'57", long 85°53'57", in NW¼NE¼ sec.7, T.6 N., R.6 E., Jackson County, on left bank 1,700 ft (518 m) downstream from highway bridge, 1 mile (2 km) north of Seymour, 9.5 miles (15.3 km) downstream from Sand Creek, and at mile 214.6 (345.3 km).

DRAINAGE AREA.--2,341 mi<sup>2</sup> (6,063 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: 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.

WATER TEMPERATURE: October 1954 to current year.

SEDIMENT DISCHARGE: July 1966 to current year.

GAGE.--Water-stage recorder with temperature attachment. Datum of gage is 550.67 ft (167.844 m) above mean sea level. Oct. 1, 1927, to July 2, 1931, nonrecording gage 1,700 ft (518 m) upstream at datum 7.61 ft (2.320 m) higher. July 3, 1931, to July 16, 1934, nonrecording gage at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--48 years, 2,412 ft<sup>3</sup>/s (68.31 m<sup>3</sup>/s), 13.99 in/yr (355 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,690	798	1,800	3,960	11,700	7,500	10,700	6,970	1,460	781	395	370
2	2,660	862	2,430	6,280	12,000	5,930	7,420	5,200	1,500	725	385	362
3	2,030	979	2,650	6,080	9,720	4,880	5,850	4,490	1,570	689	377	343
4	1,660	1,770	2,590	5,510	7,010	4,200	4,980	3,970	1,670	655	410	323
5	1,450	6,410	2,390	5,020	5,690	3,760	4,270	3,550	1,670	625	433	305
6	1,300	5,300	2,190	4,230	5,360	3,480	3,800	3,200	2,380	657	487	295
7	1,180	4,140	2,140	3,630	5,430	3,390	3,490	3,380	2,460	633	459	280
8	1,090	3,060	4,930	3,300	5,010	3,530	3,260	2,820	1,960	839	432	272
9	1,030	2,430	7,210	4,320	4,140	3,300	3,080	2,540	1,620	784	412	267
10	982	2,060	6,990	6,340	3,400	3,110	2,930	2,360	1,420	740	393	262
11	936	1,860	5,660	10,200	3,010	3,080	2,790	2,200	1,400	644	383	291
12	886	1,880	4,340	12,700	3,550	5,510	2,630	2,150	2,500	589	377	1,160
13	843	1,800	3,890	11,200	5,420	22,700	2,490	3,170	3,220	560	373	593
14	820	1,710	3,790	8,090	4,680	14,700	2,370	2,440	2,220	541	376	445
15	848	1,790	3,660	5,150	3,770	10,100	2,280	2,100	1,820	527	410	404
16	1,000	1,910	5,710	3,950	3,500	8,250	2,210	1,930	1,610	507	437	363
17	1,120	1,770	6,320	3,300	4,720	9,260	2,140	1,820	1,480	505	445	339
18	1,050	1,610	5,690	3,050	6,040	9,510	2,090	1,730	1,480	479	441	331
19	956	1,500	4,480	3,870	6,390	11,800	2,270	1,640	1,410	491	443	328
20	886	1,530	3,870	3,840	5,890	12,600	2,630	1,570	1,270	536	443	335
21	828	1,700	3,530	3,280	4,700	11,300	2,550	1,500	1,140	572	408	312
22	786	1,850	3,230	2,860	3,950	8,880	2,240	1,440	1,310	541	381	312
23	753	1,650	2,980	2,600	8,740	7,080	2,190	1,410	1,760	497	359	312
24	740	1,540	2,910	2,450	36,900	7,050	4,430	1,680	1,390	474	342	309
25	743	2,120	3,690	2,460	37,800	8,450	9,220	1,580	1,160	455	329	320
26	737	3,150	4,450	3,090	30,300	7,410	10,900	1,450	1,080	433	315	312
27	727	2,790	3,950	4,040	19,600	5,740	11,000	1,390	937	414	299	301
28	709	2,370	3,320	3,650	10,700	9,790	10,900	1,430	940	408	291	290
29	699	2,060	2,910	3,320	-----	14,400	8,550	1,470	892	415	287	290
30	736	1,820	2,640	5,510	-----	14,400	7,330	1,390	840	397	316	290
31	794	-----	2,480	8,100	-----	12,800	-----	1,390	-----	389	330	-----
TOTAL	34,669	66,219	118,820	155,380	269,120	257,890	142,990	75,360	47,569	17,502	11,968	10,716
MEAN	1,118	2,207	3,833	5,012	9,611	8,319	4,766	2,431	1,586	565	386	357
MAX	3,690	6,410	7,210	12,700	37,800	22,700	11,000	6,970	3,220	839	487	1,160
MIN	699	798	1,800	2,450	3,010	3,080	2,090	1,390	840	389	287	262
CFSM	.48	.94	1.64	2.14	4.11	3.55	2.04	1.04	.68	.24	.16	.15
IN.	.55	1.05	1.89	2.47	4.28	4.10	2.27	1.20	.76	.28	.19	.17

CAL YR 1974 TOTAL 1,196,305 MEAN 3,278 MAX 16,300 MIN 496 CFSM 1.40 IN 19.01  
WTR YR 1975 TOTAL 1,208,203 MEAN 3,310 MAX 37,800 MIN 262 CFSM 1.41 IN 19.20

PEAK DISCHARGE (BASE, 12,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	0200	14.15	13,200	03-13	0800	16.86	25,900
02-02	0200	13.79	12,400	03-19	2400	14.01	12,800
02-24	2000	18.37	46,400	03-29	2400	14.94	15,300



## 03365500 East Fork White River at Seymour, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 46,400 ft<sup>3</sup>/s (1,314 m<sup>3</sup>/s) Feb. 24, gage height, 18.37 ft (5.599 m); minimum daily, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 78,500 ft<sup>3</sup>/s (2,220 m<sup>3</sup>/s) Jan. 5, 1949, gage height, 19.67 ft (5.995 m); minimum daily, 86 ft<sup>3</sup>/s (2.44 m<sup>3</sup>/s) Sept. 28, 30, 1941.

Flood of Mar. 26, 1913, reached a stage of 21.0 ft (6.40 m), from information by Corps of Engineers and Indiana State Highway Commission, discharge, 120,000 ft<sup>3</sup>/s (3,400 m<sup>3</sup>/s).

WATER TEMPERATURE, Current year: Maximum temperature, 30.0°C Aug. 24; minimum, 1.5°C Feb. 10, 11.

Period of record: Maximum temperature, 31.0°C July 13, 14, 1966; minimum, freezing point on many days during most winter periods.

Maximum temperature of 32.0°C was observed on July 19, 1954.

SEDIMENT CONCENTRATIONS, Current year: Maximum daily concentration, 770 mg/l Feb. 23; minimum daily, 15 mg/l Feb. 11.

Period of record: Maximum daily concentration, 1,200 mg/l May 25, June 25, 1968; minimum daily, 4 mg/l Nov. 5, 1966.

SEDIMENT DISCHARGE, Current year: Maximum daily load, 76,400 tons (69,300 tonnes) Feb. 24; minimum daily, 18.0 tons (16.3 tonnes) Sept. 29.

Period of record: Maximum daily load, 179,000 tons (162,000 tonnes) May 25, 1968; minimum daily, 3 tons (2.7 tonnes) Nov. 5, 1966.

REMARKS.--Records good. Some regulation of low flow and temperatures by Seymour Water Co. at dam 500 ft (152 m) upstream. Sediment samples collected at highway bridge 1,700 ft (518 m) upstream.

REVISIONS (WATER YEARS).--WSP 743: 1928-29, 1931-32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1-28(M), 1929-30, 1932-33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WSP 2109: Drainage area.

## TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	16.0	15.5	5.5	5.0	7.0	6.5	6.0	5.5	5.5	5.0
2	13.5	12.0	16.5	16.0	5.0	5.0	6.5	5.5	5.5	5.0	5.0	4.5
3	12.0	11.0	16.5	16.0	5.0	4.5	5.5	5.5	5.5	5.0	4.5	4.0
4	12.0	11.0	16.5	14.5	5.5	5.0	5.5	5.0	5.0	5.0	4.5	4.0
5	13.0	11.5	14.5	13.0	5.5	5.0	5.5	5.0	5.5	5.0	4.5	4.0
6	14.0	12.0	13.0	10.5	5.0	4.5	5.0	5.0	5.5	5.5	6.0	4.5
7	14.0	13.5	10.5	10.0	5.5	5.0	5.5	5.0	5.5	4.5	6.5	6.0
8	14.0	13.0	10.0	9.5	6.0	5.5	6.5	5.5	4.5	3.0	6.5	6.0
9	13.5	13.0	10.0	9.5	6.0	5.5	7.0	6.5	3.0	2.0	6.0	5.5
10	14.0	13.0	10.0	9.5	5.5	4.5	8.5	7.0	2.0	1.5	6.0	5.5
11	14.0	13.5	10.0	10.0	4.5	4.0	9.0	8.5	2.0	1.5	5.5	5.5
12	14.5	14.0	11.0	10.0	5.0	4.0	9.0	6.0	3.5	2.0	5.5	5.0
13	14.5	14.5	10.5	10.0	5.5	5.0	6.0	4.0	3.0	2.0	5.0	4.5
14	15.0	14.5	10.0	8.5	6.5	5.5	4.0	3.0	3.0	3.0	4.5	3.5
15	14.5	13.5	8.5	8.0	6.5	6.5	3.0	3.0	4.0	3.0	3.5	3.0
16	13.5	13.0	8.0	7.0	6.5	6.5	4.0	3.0	5.0	4.0	4.5	3.5
17	13.5	12.0	8.0	7.0	6.5	6.0	4.0	4.0	5.5	5.0	6.5	4.5
18	13.5	11.5	8.5	8.0	6.0	5.5	4.5	4.0	5.5	5.5	8.5	6.5
19	11.5	11.0	9.5	8.5	5.5	5.0	4.5	4.5	5.5	5.0	8.5	8.5
20	11.0	10.0	10.5	9.5	5.0	5.0	4.5	4.0	5.0	4.0	9.5	8.0
21	10.0	9.5	10.0	9.0	5.5	5.0	4.5	4.0	4.5	4.5	10.5	9.0
22	10.0	9.0	9.0	8.5	5.5	5.0	4.5	4.0	5.0	4.5	11.0	10.5
23	10.5	9.5	9.0	8.0	6.0	5.5	5.0	4.5	7.0	5.0	11.5	10.5
24	12.0	10.5	9.5	9.0	7.0	6.0	5.0	4.5	7.0	6.5	13.0	11.5
25	13.5	12.0	9.5	9.0	7.0	6.5	6.0	5.0	6.5	4.5	13.0	10.0
26	13.5	12.0	9.0	8.0	6.5	5.5	6.0	5.5	4.5	4.0	10.0	8.5
27	13.0	12.0	8.0	6.0	5.5	5.0	5.5	4.5	4.5	3.5	8.5	6.5
28	13.0	12.0	6.0	5.5	5.0	5.0	5.0	4.5	5.5	4.5	6.5	5.0
29	13.5	13.0	6.0	5.5	5.5	5.0	7.0	5.0	---	---	7.0	5.0
30	14.5	13.5	6.0	5.5	6.5	5.5	8.0	7.0	---	---	7.0	6.5
31	15.5	14.0	---	---	6.5	6.5	7.0	6.0	---	---	7.0	6.0
MONTH	15.5	9.0	16.5	5.5	7.0	4.0	9.0	3.0	7.0	1.5	13.0	3.0

03365500 East Fork White River at Seymour, Ind.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	6.5	16.5	15.5	21.5	21.0	26.5	26.0	28.5	28.0	24.0	23.0
2	10.5	9.0	17.0	16.5	21.5	20.5	27.0	26.0	28.0	27.0	25.0	23.5
3	10.5	10.0	17.0	16.5	20.5	20.0	27.0	26.5	27.0	26.5	26.0	24.5
4	10.0	9.5	16.5	16.0	21.5	20.0	28.0	26.5	26.5	25.5	26.5	25.5
5	9.5	9.0	17.0	16.0	21.5	21.0	28.0	26.5	25.5	25.0	26.0	25.0
6	9.5	9.0	18.0	17.0	21.5	20.5	26.5	25.5	25.0	24.5	25.0	23.5
7	10.0	9.0	18.5	17.0	21.5	21.0	26.0	25.5	25.0	24.0	24.0	22.0
8	10.5	10.0	18.5	18.0	21.5	20.5	26.5	25.5	25.0	23.5	23.5	22.0
9	10.5	10.0	18.5	17.0	21.0	20.0	27.0	26.0	25.5	25.0	24.0	22.0
10	11.0	10.0	19.5	18.0	20.5	20.0	27.0	26.0	25.5	25.0	23.5	22.0
11	11.0	10.5	19.5	18.0	21.0	20.5	26.0	24.0	27.0	25.5	23.5	22.0
12	11.0	10.0	19.5	18.5	21.5	21.0	24.0	23.0	28.0	26.5	22.0	20.0
13	11.5	10.0	18.5	17.0	22.0	21.5	23.0	21.0	28.5	27.0	20.0	18.5
14	11.5	10.5	19.5	18.0	23.0	22.0	21.5	20.0	28.0	27.0	19.0	17.0
15	11.0	10.0	19.5	19.0	23.0	22.0	23.0	21.0	27.0	27.0	18.0	18.0
16	11.0	10.5	20.0	18.5	23.5	21.5	24.0	22.0	27.0	26.0	18.5	18.0
17	13.0	10.5	19.5	19.0	23.5	23.0	24.0	23.5	26.5	26.0	18.5	18.0
18	14.5	13.0	20.5	19.0	24.5	22.0	24.0	23.5	26.5	25.5	19.0	18.5
19	14.5	14.0	22.0	20.0	26.0	24.0	24.0	23.5	27.0	26.5	19.0	18.5
20	14.5	13.5	23.5	21.5	26.5	25.5	24.0	23.5	27.0	26.5	19.0	18.0
21	14.5	13.5	24.5	23.0	28.0	26.0	25.5	24.0	28.5	27.0	18.5	18.0
22	15.0	13.5	25.5	24.0	28.0	27.0	26.0	25.0	29.0	28.0	18.0	16.5
23	15.5	14.5	25.5	24.5	28.5	27.0	27.0	25.5	29.5	28.5	16.5	15.5
24	15.0	15.0	26.0	25.0	28.5	27.0	27.0	26.5	30.0	29.0	15.5	14.5
25	15.5	15.0	26.0	25.5	28.0	26.5	26.5	25.5	29.5	29.0	14.5	14.0
26	15.5	14.5	25.5	24.5	27.0	26.5	26.5	25.5	29.0	28.0	14.0	14.0
27	15.0	14.0	25.0	24.0	26.5	25.5	26.0	25.5	29.0	27.0	15.0	14.0
28	14.5	13.5	25.0	23.5	27.0	26.0	27.0	26.0	28.5	27.0	16.0	14.5
29	15.5	14.5	24.5	23.5	27.0	26.5	27.0	26.5	28.0	26.5	16.0	15.0
30	15.5	15.5	23.5	23.0	27.0	26.0	28.0	27.0	26.5	25.5	16.5	15.5
31	---	---	23.5	21.5	---	---	28.5	28.0	25.5	24.0	---	---
MONTH	15.5	6.5	26.0	15.5	28.5	20.0	28.5	20.0	30.0	23.5	26.5	14.0
YEAR	30.0	1.5										

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT 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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
JAN. 13...	1000	11400	237	7290	81	85	92	96	98	100	--
MAR. 13...	0705	25800	659	45900	66	82	93	96	98	99	100
MAY 13...	0700	3730	1090	11000	55	71	86	95	98	99	100

03365500 East Fork White River at Seymour, Ind.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3690	65	648	798	30	65	1800	43	209
2	2660	52	373	862	42	98	2430	55	361
3	2030	43	236	979	44	116	2650	56	401
4	1660	35	157	1770	86	411	2590	47	329
5	1450	28	110	6410	197	3410	2390	40	258
6	1300	27	95	5300	67	959	2190	35	207
7	1180	26	83	4140	51	570	2140	32	185
8	1090	28	82	3060	48	397	4930	116	1540
9	1030	31	86	2430	44	289	7210	130	2530
10	982	33	88	2060	41	228	6990	140	2640
11	936	32	81	1860	38	191	5660	112	1710
12	886	32	77	1880	50	254	4340	78	914
13	843	31	71	1800	51	248	3890	66	693
14	820	30	66	1710	45	208	3790	59	604
15	848	32	73	1790	51	246	3660	53	524
16	1000	52	140	1910	50	258	5710	161	2480
17	1120	45	136	1770	46	220	6320	164	2800
18	1050	38	108	1610	43	187	5690	133	2040
19	956	36	93	1500	39	158	4480	103	1250
20	886	35	84	1530	40	165	3870	83	867
21	828	34	76	1700	50	230	3530	68	648
22	786	33	70	1850	58	290	3230	56	488
23	753	33	67	1650	45	200	2980	47	378
24	740	32	64	1540	42	175	2910	54	424
25	743	30	60	2120	74	424	3690	97	966
26	737	28	56	3150	98	833	4450	79	949
27	727	24	47	2790	62	467	3950	44	469
28	709	23	44	2370	48	307	3320	40	359
29	699	22	42	2060	43	239	2910	36	283
30	736	22	44	1820	41	201	2640	32	228
31	794	23	49	---	---	---	2480	28	187
MONTH	34669	---	3506	66219	---	12044	118820	---	27921
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3960	104	1110	11700	246	7770	7500	140	2840
2	6280	129	2190	12000	113	3660	5930	104	1670
3	6080	76	1250	9720	76	1990	4880	92	1210
4	5510	77	1150	7010	55	1040	4200	76	862
5	5020	61	827	5690	43	661	3760	63	640
6	4230	53	605	5360	39	564	3480	56	526
7	3630	50	490	5430	38	557	3390	57	522
8	3300	49	437	5010	29	392	3530	78	743
9	4320	116	1350	4140	24	268	3300	61	544
10	6340	252	4310	3400	18	165	3110	42	353
11	10200	394	10900	3010	15	122	3080	38	316
12	12700	283	9700	3550	31	297	5510	594	8840
13	11200	228	6890	5420	96	1400	22700	561	34000
14	8090	170	3710	4680	28	354	14700	195	9060
15	5150	147	2040	3770	23	234	10100	98	2670
16	3950	123	1310	3500	28	265	8250	74	1650
17	3300	103	918	4720	55	701	9260	117	2930
18	3050	93	766	6040	70	1140	9510	102	2620
19	3870	117	1220	6390	88	1520	11800	148	4720
20	3840	80	829	5890	107	1700	12600	117	3980
21	3280	63	558	4700	82	1040	11300	102	3110
22	2860	55	425	3950	71	757	8880	92	2210
23	2600	52	365	8740	770	18200	7080	106	2030
24	2450	50	331	36900	767	76400	7050	133	2530
25	2460	64	425	37800	722	73700	8450	157	3580
26	3090	95	793	30300	531	43400	7410	108	2160
27	4040	177	1930	19600	281	14900	5740	92	1430
28	3650	127	1250	10700	194	5600	9790	329	8700
29	3320	129	1160	---	---	---	14400	191	7430
30	5510	199	2960	---	---	---	14400	138	5370
31	8100	300	6560	---	---	---	12800	143	4940
MONTH	155380	---	68759	269120	---	258797	257890	---	124186

03365500 East Fork White River at Seymour, Ind.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10700	87	2510	6970	121	2280	1460	61	240
2	7420	93	1860	5200	92	1290	1500	66	267
3	5850	92	1450	4490	67	812	1570	64	271
4	4980	68	914	3970	53	568	1670	68	307
5	4270	59	680	3550	45	431	1670	73	329
6	3800	54	554	3200	43	372	2380	264	1700
7	3490	51	481	3380	119	1090	2460	206	1370
8	3260	45	396	2820	67	510	1960	94	497
9	3080	40	333	2540	68	466	1620	71	311
10	2930	38	301	2360	64	408	1420	66	253
11	2790	37	279	2200	59	350	1400	77	291
12	2630	41	291	2150	58	337	2500	516	3480
13	2490	44	296	3170	189	1620	3220	510	4430
14	2370	44	282	2440	115	758	2220	171	1030
15	2280	46	283	2100	85	482	1820	81	398
16	2210	46	274	1930	74	386	1610	44	191
17	2140	45	260	1820	69	339	1480	35	140
18	2090	44	248	1730	64	299	1480	42	168
19	2270	73	447	1640	58	257	1410	62	236
20	2630	84	596	1570	54	229	1270	38	130
21	2550	70	482	1500	49	198	1140	32	99
22	2240	66	399	1440	43	167	1310	86	304
23	2190	90	532	1410	42	160	1760	136	646
24	4430	131	1570	1680	68	308	1390	88	330
25	9220	198	4930	1580	58	247	1160	85	266
26	10900	120	3530	1450	50	196	1080	81	236
27	11000	120	3560	1390	44	165	937	78	197
28	10900	81	2380	1430	42	162	940	76	193
29	8550	88	2030	1470	45	179	892	73	176
30	7330	160	3170	1390	42	158	840	70	159
31	---	---	---	1390	48	180	---	---	---
MONTH	142990	---	35318	75360	---	15404	47569	---	18645
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	781	66	139	395	37	39	370	47	47
2	725	61	119	385	36	37	362	48	47
3	689	57	106	377	36	37	343	48	44
4	655	54	96	410	48	53	323	47	41
5	625	52	88	433	57	67	305	46	38
6	657	60	106	487	71	93	295	45	36
7	633	56	96	459	64	79	280	45	34
8	839	113	256	432	57	66	272	44	32
9	784	93	197	412	50	56	267	43	31
10	740	87	174	393	43	46	262	43	30
11	644	84	146	383	37	38	291	57	45
12	589	82	130	377	31	32	1160	170	532
13	560	80	121	373	24	24	593	78	125
14	541	78	114	376	25	25	445	43	52
15	527	74	105	410	28	31	404	32	35
16	507	70	96	437	28	33	363	29	28
17	505	67	91	445	26	31	339	27	25
18	479	62	80	441	26	31	331	26	23
19	491	58	77	443	26	31	328	26	23
20	536	54	78	443	26	31	335	26	24
21	572	50	77	408	26	29	312	25	21
22	541	45	66	381	26	27	312	25	21
23	497	40	54	359	27	26	312	25	21
24	474	37	47	342	27	25	309	24	20
25	455	36	44	329	27	24	320	30	26
26	433	36	42	315	26	22	312	30	25
27	414	36	40	299	26	21	301	27	22
28	408	37	41	291	25	20	290	25	20
29	415	39	44	287	24	19	290	23	18
30	397	38	41	316	32	27	290	24	19
31	389	38	40	330	35	31	---	---	---
MONTH	17502	---	2951	11968	---	1151	10716	---	1505
YEAR	1208203		570187						

03366200 Harberts Creek near Madison, Ind.

LOCATION.--Lat 38°46'55", long 85°29'08", in SW¼SE¼ 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 (0.3 km) west of Smyrna, 3.7 miles (6.0 km) upstream from Big Creek, and 4 miles (6 km) northwest of Madison.

DRAINAGE AREA.--9.31 mi<sup>2</sup> (24.11 km<sup>2</sup>).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 725.75 ft (221.209 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 12.2 ft<sup>3</sup>/s (0.346 m<sup>3</sup>/s), 17.80 in/yr (452 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,320 ft<sup>3</sup>/s (37.4 m<sup>3</sup>/s) Apr. 24, gage height, 7.41 ft (2.259 m); minimum daily, no flow Aug. 12-15, 21-28, Sept. 2-10.

Period of record: Maximum discharge, 1,540 ft<sup>3</sup>/s (43.6 m<sup>3</sup>/s) Apr. 2, 1970, gage height, 7.89 ft (2.405 m); no flow at times most years.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.0	29	44	28	6.7	12	7.8	4.3	.92	.11	.10
2	1.4	2.0	33	15	20	4.9	9.5	5.2	1.3	.82	.13	0
3	1.0	3.1	22	27	13	3.8	8.2	3.9	1.1	.72	.13	0
4	1.0	85	17	18	19	3.3	5.8	3.7	.80	.63	.15	0
5	.98	24	10	11	28	2.7	4.6	2.9	8.6	1.2	.15	0
6	.92	9.9	7.6	9.0	25	2.6	3.8	3.9	8.1	2.9	.15	0
7	.86	5.6	59	7.5	12	14	3.2	11	1.7	.84	.13	0
8	.92	3.6	74	22	7.7	11	2.9	4.5	.85	.65	.10	0
9	.86	2.9	24	34	6.1	5.6	2.6	3.2	.61	.52	.08	0
10	.81	2.2	14	216	6.5	6.3	2.8	2.4	.55	.45	.08	0
11	.86	26	13	107	4.3	17	2.3	2.0	16	.40	.08	10
12	.98	20	16	22	21	189	2.0	1.7	71	.40	0	3.1
13	1.0	11	12	13	12	47	1.8	1.4	7.3	.50	0	.39
14	1.4	11	8.9	8.2	7.5	25	1.7	1.2	9.0	.53	0	.18
15	33	6.4	27	6.1	7.2	41	1.9	1.2	5.7	.42	0	.12
16	12	3.6	26	5.1	7.9	92	1.7	1.1	2.6	.35	.14	.11
17	5.2	2.9	16	4.6	12	62	2.1	1.0	11	.37	.11	.11
18	3.1	2.4	12	63	10	35	2.1	1.0	30	4.0	.41	.13
19	2.2	22	16	28	7.0	101	27	.92	6.3	3.5	.13	.13
20	1.8	49	13	17	5.2	25	9.3	.90	3.0	5.1	.09	.13
21	1.4	14	8.9	10	4.3	16	4.9	.88	103	.98	0	.10
22	1.2	7.2	6.0	8.1	12	40	3.7	.84	11	.48	0	.09
23	1.1	4.8	4.8	7.7	476	51	28	.85	4.5	.35	0	.09
24	1.1	31	74	7.3	122	196	441	.92	3.2	.28	0	.60
25	1.0	31	44	13	29	25	161	.80	2.4	.32	0	.53
26	1.0	13	18	12	18	14	32	.89	4.9	.20	0	.61
27	.98	8.0	13	5.8	12	25	15	3.3	5.3	.15	0	.34
28	.92	5.6	12	4.6	9.0	305	11	.97	2.3	.13	0	.19
29	.92	3.9	8.9	14	---	195	8.0	.83	1.5	.13	.92	.13
30	.98	4.2	8.0	13	---	32	6.7	.85	1.1	.13	.18	.10
31	.92	---	28	59	---	17	---	3.3	---	.13	.13	---
TOTAL	84.71	416.3	675.1	832.0	941.7	1610.9	818.6	75.35	329.01	28.50	3.40	17.28
MEAN	2.73	13.9	21.8	26.8	33.6	52.0	27.3	2.43	11.0	.92	.11	.58
MAX	33	85	74	216	476	305	441	11	103	5.1	.92	10
MIN	.81	1.0	4.8	4.6	4.3	2.6	1.7	.80	.55	.13	0	0
CFSM	.29	1.49	2.34	2.88	3.61	5.59	2.93	.26	1.18	.10	.01	.06
IN.	.34	1.66	2.70	3.32	3.76	6.44	3.27	.30	1.31	.11	.01	.07

CAL YR 1974 TOTAL 5776.45 MEAN 15.8 MAX 314 MIN 0 CFSM 1.70 IN 23.08  
WTR YR 1975 TOTAL 5832.85 MEAN 16.0 MAX 476 MIN 0 CFSM 1.72 IN 23.31

PEAK DISCHARGE (BASE, 300 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2100	5.89	599	03-24	0200	5.82	574	04-24	1100	7.41	1,320
02-23	1800	6.60	894	03-28	0300	6.24	736	04-25	0800	5.40	436
03-12	0800	5.67	522	03-29	0500	5.63	509	06-21	0300	5.28	401



03366500 Muscatatuck River near Deputy, Ind.

LOCATION.--Lat 38°48'15", long 85°40'26", in SW¼NE¼ sec.7, T.4 N., R.8 E., Jefferson County, on left bank at downstream side of highway bridge, 1.4 miles (2.3 km) northwest of Deputy, 1.9 miles (3.1 km) upstream from Coffee Creek, 2.4 miles (3.9 km) downstream from confluence of Graham Creek and Big Creek, and at mile 50.0 (80.4 km).

DRAINAGE AREA.--293 mi<sup>2</sup> (759 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: November 1947 to current year.

SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 541.17 ft (164.949 m) above mean sea level. Prior to June 22, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years (1948 to current year), 341 ft<sup>3</sup>/s (9.657 m<sup>3</sup>/s), 15.80 in/yr (401 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,100 ft<sup>3</sup>/s (456 m<sup>3</sup>/s) Feb. 24, gage height, 23.58 ft (7.187 m); minimum daily, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 52,200 ft<sup>3</sup>/s (1,480 m<sup>3</sup>/s) Jan. 21, 1959, from rating curve extended above 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow, gage height, 33.1 ft (10.09 m), from floodmarks; 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	43	463	985	1,350	278	418	297	267	28	4.9	5.8
2	150	45	896	736	701	230	329	264	100	22	4.1	4.5
3	100	64	706	550	548	191	410	208	81	19	4.1	4.1
4	80	1,230	528	747	443	164	350	181	63	16	11	10
5	64	3,000	399	479	715	146	242	157	364	15	13	8.5
6	58	794	301	337	526	139	200	163	1,270	79	28	6.8
7	51	381	475	289	620	173	173	790	399	31	20	5.3
8	46	261	2,060	304	372	274	152	440	165	26	13	4.5
9	44	198	1,270	751	297	236	139	241	104	18	10	2.9
10	40	158	636	1,560	226	194	138	177	75	14	8.5	2.6
11	37	194	431	7,000	222	211	135	138	76	11	6.8	105
12	34	751	430	1,410	326	3,310	121	118	855	9.1	5.8	770
13	32	509	451	650	411	2,810	105	103	378	9.7	4.9	313
14	32	344	356	421	321	934	97	103	275	10	4.1	112
15	160	307	369	322	260	725	96	108	351	9.7	3.3	60
16	474	233	808	278	244	1,530	91	83	176	8.5	2.9	33
17	253	174	612	228	297	2,220	89	71	122	8.5	3.3	23
18	144	144	424	747	395	1,220	85	64	292	31	9.7	19
19	105	184	351	1,140	309	1,990	189	59	145	63	57	17
20	78	1,040	378	666	231	1,040	241	50	83	88	25	15
21	65	764	324	444	189	526	161	46	308	68	15	12
22	57	365	257	340	182	542	116	39	156	37	15	10
23	54	251	217	306	5,550	697	171	36	79	20	11	9.1
24	52	356	425	293	11,200	3,120	5,690	73	64	15	8.5	9.3
25	49	892	799	328	1,530	1,160	5,300	45	45	15	6.8	12
26	47	650	670	609	656	484	1,800	32	95	10	5.3	13
27	45	374	389	443	534	389	715	74	130	8.5	4.5	17
28	44	284	332	289	338	6,040	470	54	65	8.5	3.6	17
29	42	224	292	301	-----	5,320	366	37	47	7.9	2.9	13
30	42	187	259	692	-----	1,550	300	42	40	7.3	3.3	10
31	44	-----	268	846	-----	633	-----	79	-----	6.3	5.3	-----
TOTAL	2,776	14,401	16,576	24,491	28,993	38,476	18,889	4,372	6,670	720.0	320.6	1,644.4
MEAN	89.5	480	535	790	1,035	1,241	630	141	222	23.2	10.3	54.8
MAX	474	3,000	2,060	7,000	11,200	6,040	5,690	790	1,270	88	57	770
MIN	32	43	217	228	182	139	85	32	40	6.3	2.9	2.6
CFSM	.31	1.64	1.83	2.70	3.53	4.24	2.15	.48	.76	.08	.04	.19
IN.	.35	1.83	2.10	3.11	3.68	4.89	2.40	.56	.85	.09	.04	.21

CAL YR 1974 TOTAL 160,273.6 MEAN 439 MAX 6,230 MIN 3.6 CFSM 1.50 IN 20.35  
WTR YR 1975 TOTAL 158,329.0 MEAN 434 MAX 11,200 MIN 2.6 CFSM 1.48 IN 20.10

PEAK DISCHARGE (BASE, 7,500 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0700	20.03	9,130	03-28	1300	19.24	7,940
02-24	0200	23.58	16,100	04-24	1800	21.57	11,800



03366500 Muscatatuck River near Deputy, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
DEC. 10...	1210	3.0	634	20	34
FEB. 25...	1130	4.0	1370	114	422

03368000 Brush Creek near Nebraska, Ind.

LOCATION.--Lat 39°04'13", long 85°29'10", in NW¼ sec.11, T.7 N., R.9 E., Jennings County, on right bank at downstream side of county road bridge, 1.5 miles (2.4 km) northwest of Nebraska, 2.9 miles (4.7 km) northeast of Butlerville, and 3.6 miles (5.8 km) upstream from Brush Creek Dam.

DRAINAGE AREA.--11.4 mi<sup>2</sup> (29.5 km<sup>2</sup>).

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.17 ft (218.593 m) above mean sea level (levels by State of Indiana, Department of Natural Resources).

AVERAGE DISCHARGE.--20 years, 13.0 ft<sup>3</sup>/s (0.368 m<sup>3</sup>/s), 15.49 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,060 ft<sup>3</sup>/s (58.3 m<sup>3</sup>/s) Feb. 23, gage height, 9.20 ft (2.804 m); no flow July 30-Aug. 3, Aug. 11, 28.

Period of record: Maximum discharge, 3,440 ft<sup>3</sup>/s (97.4 m<sup>3</sup>/s) May 24, 1968, gage height, 11.40 ft (3.475 m), from rating curve extended above 440 ft<sup>3</sup>/s (12.5 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow at gage height, 9.70 ft (2.957 m); no flow at times most years.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.2	39	39	36	5.5	8.4	5.4	2.2	.15	0	.28
2	1.7	122	36	28	18	3.9	7.3	4.3	1.1	.11	0	.22
3	1.4	21	18	14	13	3.3	7.7	3.8	1.0	.09	0	.19
4	1.3	326	13	23	16	3.0	5.3	3.5	.91	.07	2.0	.16
5	1.1	27	8.5	10	23	2.7	4.5	2.9	34	.08	.34	.12
6	1.0	12	7.1	8.6	24	2.7	4.1	3.1	4.3	.21	.17	.10
7	.97	8.1	73	7.1	11	4.3	3.7	3.9	1.1	.20	.08	.07
8	.97	6.1	80	7.1	8.3	3.3	3.5	2.7	.75	.13	.04	.04
9	.97	5.0	21	30	6.8	2.7	3.9	2.4	.59	.08	.02	.03
10	.91	4.4	11	303	6.1	3.3	3.9	2.0	.50	.05	.01	.02
11	1.5	26	9.7	96	6.8	7.0	3.3	1.8	3.7	.04	0	190
12	2.5	13	14	20	21	372	2.8	22	5.5	.03	.07	16
13	2.7	9.2	17	12	11	40	2.7	12	1.0	.26	.34	2.1
14	2.8	17	15	8.7	7.9	17	2.7	4.2	.99	.27	.24	1.1
15	17	7.3	34	7.6	7.5	21	2.8	3.1	.83	.15	15	.86
16	12	5.5	31	6.7	14	126	2.5	2.4	.61	.08	5.0	.86
17	5.0	4.8	15	5.3	24	144	2.4	2.0	.56	.05	4.6	.86
18	3.0	4.3	20	52	11	44	2.2	1.8	.61	.04	2.3	1.2
19	2.7	22	14	18	8.3	68	12	1.5	.49	.14	.32	1.3
20	1.7	21	12	12	6.6	16	4.1	1.3	.47	.25	.24	1.6
21	1.4	8.6	8.5	9.2	5.7	11	3.2	1.2	1.5	.17	.20	1.3
22	1.3	5.9	6.3	8.2	34	75	2.8	1.0	.50	.10	.16	1.2
23	1.2	5.0	5.4	8.1	858	28	34	.94	.38	.06	.11	1.1
24	1.2	28	14	8.0	78	92	249	1.0	.32	.04	.07	1.6
25	1.2	22	20	25	22	20	200	.84	.24	.03	.04	2.0
26	1.1	9.9	14	15	13	80	24	.89	.22	.02	.02	2.1
27	1.1	7.7	8.8	7.8	8.4	74	12	1.1	.20	.01	.01	2.0
28	1.1	6.1	7.3	11	7.0	337	8.7	.84	.17	.02	0	1.7
29	1.1	5.1	6.4	40	-----	107	6.7	.90	.17	.01	13	1.5
30	1.1	5.6	9.0	14	-----	20	5.7	.93	.16	0	16	1.3
31	1.1	-----	16	99	-----	11	-----	2.3	-----	0	.57	-----
TOTAL	76.52	767.8	604.0	953.4	1,306.4	1,744.7	635.9	98.04	65.07	2.94	60.95	232.91
MEAN	2.47	25.6	19.5	30.8	46.7	56.3	21.2	3.16	2.17	.095	1.97	7.76
MAX	17	326	80	303	858	372	249	22	34	.27	16	190
MIN	.91	2.2	5.4	5.3	5.7	2.7	2.2	.84	.16	0	0	.02
CFSM	.22	2.25	1.71	2.70	4.10	4.94	1.86	.28	.19	.008	.17	.68
IN.	.25	2.51	1.97	3.11	4.26	5.69	2.08	.32	.21	.009	.20	.76

CAL YR 1974 TOTAL 5,786.89 MEAN 15.9 MAX 326 MIN 0 CFSM 1.39 IN 18.88  
WTR YR 1975 TOTAL 6,548.63 MEAN 17.9 MAX 858 MIN 0 CFSM 1.57 IN 21.37

PEAK DISCHARGE (BASE, 950 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	0700	7.35	1,170	03-28	0115	7.64	1,290
01-10	2030	7.30	1,150	04-24	1030	7.19	1,110
02-23	1915	9.20	2,060	09-11	1715	6.83	965
03-12	0615	7.79	1,360				

## WABASH RIVER BASIN

03369000 Vernon Fork near Butlerville, Ind.

LOCATION.--Lat 39°02'55", long 85°32'40", in NW¼SE¼ sec.17, T.7 N., R.9 E., Jennings County, on left bank 0.3 mile (0.5 km) downstream from Muscatatuck State School dam, 1.1 miles (1.8 km) (revised) downstream from Brush Creek, 2 miles (3 km) northwest of Butlerville, and at mile 50.6 (81.4 km).

DRAINAGE AREA.--85.9 mi<sup>2</sup> (222.5 km<sup>2</sup>).

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. Datum of gage is 669.40 ft (204.033 m) above mean sea level. Prior to Aug. 19, 1942, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 94.0 ft<sup>3</sup>/s (2.662 m<sup>3</sup>/s), 14.86 in/yr (377 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,480 ft<sup>3</sup>/s (268 m<sup>3</sup>/s) Feb. 24, gage height, 17.22 ft (5.249 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) July 30, Aug. 28.

Period of record: Maximum discharge, 26,200 ft<sup>3</sup>/s (742 m<sup>3</sup>/s) Jan. 21, 1959, gage height, 25.41 ft (7.745 m), from rating curve extended above 10,000 ft<sup>3</sup>/s (283 m<sup>3</sup>/s) 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.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	12	83	321	297	100	153	94	81	3.6	3.0	12
2	88	138	149	142	180	85	136	78	34	3.4	2.5	6.8
3	16	123	131	158	135	70	136	67	22	3.1	2.3	4.6
4	14	1,570	91	151	116	62	108	61	16	3.0	2.5	3.4
5	13	409	68	82	156	57	93	52	90	3.8	15	3.2
6	11	161	55	67	194	55	83	47	126	4.4	7.0	2.8
7	9.8	130	333	65	128	70	76	50	55	3.6	3.9	2.4
8	8.7	100	746	83	90	100	70	40	28	3.3	2.9	2.3
9	8.1	82	201	240	78	70	68	34	17	3.1	2.4	2.1
10	7.7	68	122	998	53	68	72	30	12	2.7	2.2	2.0
11	7.4	53	96	1,750	65	75	64	26	31	2.5	2.0	409
12	8.4	101	118	234	138	3,390	55	63	124	2.6	47	369
13	10	57	133	173	127	431	49	146	63	5.8	8.1	69
14	12	70	120	110	85	228	46	72	34	6.5	4.7	24
15	45	54	253	76	74	198	47	47	25	7.3	55	16
16	55	35	242	50	130	568	43	35	18	5.0	96	13
17	24	28	149	36	187	1,190	40	28	18	3.5	24	10
18	16	24	127	192	140	392	40	23	15	3.0	47	12
19	12	30	106	158	101	534	94	19	12	6.9	11	12
20	11	102	77	94	78	219	76	16	9.1	20	5.4	12
21	9.8	52	63	67	66	176	56	14	164	10	4.1	10
22	9.8	63	46	65	76	476	47	12	51	5.1	3.8	10
23	9.8	95	37	59	4,050	213	167	10	19	3.5	3.2	7.7
24	9.1	113	112	52	2,980	752	1,290	14	11	2.9	2.6	9.4
25	9.4	164	145	102	294	210	843	8.7	8.1	2.5	2.6	7.1
26	9.4	69	80	164	205	158	277	8.7	6.6	2.1	2.3	7.7
27	9.1	46	59	83	168	188	173	9.8	5.8	2.0	2.0	7.7
28	8.7	37	51	76	130	2,080	142	7.7	6.3	2.4	1.8	6.8
29	8.4	55	45	395	-----	1,200	122	35	5.3	1.9	9.8	6.3
30	8.4	55	66	196	-----	253	102	52	4.2	1.8	126	6.0
31	8.4	-----	122	710	-----	181	-----	47	-----	2.7	29	-----
TOTAL	550.4	4,096	4,226	7,149	10,521	13,849	4,768	1,246.9	1,111.4	134.0	531.1	1,066.3
MEAN	17.8	137	136	231	376	447	159	40.2	37.0	4.32	17.1	35.5
MAX	88	1,570	746	1,750	4,050	3,390	1,290	146	164	20	126	409
MIN	7.4	12	37	36	53	55	40	7.7	4.2	1.8	1.8	2.0
CFSM	.21	1.59	1.58	2.69	4.38	5.20	1.85	.47	.43	.05	.20	.41
IN.	.24	1.77	1.83	3.10	4.56	6.00	2.06	.54	.48	.06	.23	.46

CAL YR 1974 TOTAL 39,270.25 MEAN 108 MAX 1,700 MIN .35 CFSM 1.26 IN 17.01  
WTR YR 1975 TOTAL 49,249.10 MEAN 135 MAX 4,050 MIN 1.8 CFSM 1.57 IN 21.33

PEAK DISCHARGE (BASE, 4,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0100	11.28	4,460	03-28	0430	10.73	4,080
02-24	0100	17.22	9,480	09-11	2200	10.66	4,040
03-12	1200	15.75	8,020				

## 03369500 Vernon Fork at Vernon, Ind.

LOCATION.--Lat 38°58'34", long 85°37'13", in NW¼SE¼ sec.10, T.6 N., R.8 E., Jennings County, at downstream end of left bank bridge pier, 1 mile (2 km) southwest of Vernon, 3.1 miles (5.0 km) downstream from Otter Creek (revised), and at mile 36.4 (58.6 km).

DRAINAGE AREA.--198 mi<sup>2</sup> (513 km<sup>2</sup>).

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 (179.009 m) above mean sea level, supplementary adjustment of 1944 (levels by State of Indiana, Department of Natural Resources). 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.--36 years, 219 ft<sup>3</sup>/s (6.202 m<sup>3</sup>/s), 15.02 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,300 ft<sup>3</sup>/s (462 m<sup>3</sup>/s) Feb. 24, gage height, 19.83 ft (6.044 m); minimum daily, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) July 29, 31, Aug. 1.

Period of record: Maximum discharge, 56,800 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s) Jan. 21, 1959, from rating curve extended above 24,000 ft<sup>3</sup>/s (680 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow, gage height, 32.83 ft (10.007 m), 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	20	154	488	939	204	296	171	161	9.6	2.6	41
2	169	413	318	645	505	170	236	154	74	7.9	2.8	19
3	99	407	488	309	327	142	244	124	47	7.2	3.0	13
4	46	1,010	375	365	277	124	190	112	31	6.3	3.0	10
5	38	1,300	256	207	383	115	159	97	136	5.4	9.7	7.8
6	33	600	196	194	503	110	138	102	484	8.4	9.6	6.2
7	29	332	165	158	319	147	123	183	148	12	17	4.5
8	25	251	359	161	205	204	110	102	68	10	12	3.5
9	23	209	1,920	359	182	139	105	74	41	8.4	8.3	3.5
10	22	187	368	1,450	135	134	115	61	30	6.6	5.9	3.4
11	20	161	269	4,020	152	154	105	50	31	5.2	4.3	741
12	18	285	259	699	268	5,650	89	72	183	4.6	4.0	1,980
13	17	254	332	401	295	1,250	79	261	161	5.4	18	235
14	17	183	274	276	195	567	74	136	70	12	13	96
15	31	213	232	241	169	449	77	86	65	13	25	50
16	148	163	915	211	191	1,010	76	62	43	9.7	239	32
17	94	121	462	131	406	2,370	68	50	32	9.1	186	24
18	53	103	329	462	344	1,320	65	42	32	7.5	175	23
19	38	95	267	540	213	1,420	145	35	28	7.4	68	22
20	31	242	242	274	172	603	163	31	23	19	38	21
21	26	341	187	196	146	365	106	27	128	21	17	19
22	24	183	152	177	159	939	87	25	130	14	11	16
23	23	148	128	163	7,820	549	269	24	46	9.5	8.4	14
24	23	173	126	157	6,500	1,710	2,910	26	24	8.6	6.5	15
25	22	362	423	220	827	582	2,370	25	18	5.4	5.6	16
26	22	433	347	446	494	318	1,040	19	15	4.4	5.4	16
27	21	211	185	215	322	332	413	19	13	3.5	4.7	14
28	20	161	154	173	247	4,120	290	19	16	2.9	4.0	13
29	21	132	146	656	-----	2,920	232	39	16	2.6	3.8	12
30	21	115	140	642	-----	809	212	108	12	2.8	176	12
31	21	-----	148	1,370	-----	433	-----	58	-----	2.6	164	-----
TOTAL	1,349	8,808	10,316	16,006	22,695	29,359	10,586	2,394	2,306	252.0	1,250.6	3,482.9
MEAN	43.5	294	333	516	811	947	353	77.2	76.9	8.13	40.3	116
MAX	169	1,300	1,920	4,020	7,820	5,650	2,910	261	484	21	239	1,980
MIN	17	20	126	131	135	110	65	19	12	2.6	2.6	3.4
CFSM	.22	1.48	1.68	2.61	4.10	4.78	1.78	.39	.39	.04	.20	.59
IN.	.25	1.65	1.94	3.01	4.26	5.52	1.99	.45	.43	.05	.23	.65

CAL YR 1974 TOTAL 96,609.57 MFAN 265 MAX 3,180 MIN .87 CFSM 1.34 IN 18.15  
WTR YR 1975 TOTAL 108,804.50 MFAN 298 MAX 7,820 MIN 2.6 CFSM 1.51 IN 20.44

PEAK DISCHARGE (BASE, 6,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1900	12.71	7,080	03-12	1500	16.93	12,100
01-11	0500	13.10	7,510	03-28	0900	12.78	7,160
02-24	0300	19.83	16,300				

03371500 East Fork White River near Bedford, Ind.

LOCATION.--Lat 38°46'10", long 86°24'30", in SW¼NE¼ sec.21, T.4 N., R.1 E., Lawrence County, on downstream side of center pier of bridge on county road, 0.4 mile (0.6 km) upstream from Mill Creek, 2.9 miles (4.7 km) downstream from Sugar Creek, 3.9 miles (6.3 km) northeast of Mitchell, 7.8 miles (12.6 km) southeast of Bedford, and at mile 153.3 (246.7 km).

DRAINAGE AREA.--3,861 mi<sup>2</sup> (10,000 km<sup>2</sup>).

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 (144.350 m) 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 (15.6 km) downstream at datum 4.39 ft (1.338 m) lower (now used as an auxiliary gage).

AVERAGE DISCHARGE.--22 years (1939-43, 1957 to current year), 3,769 ft<sup>3</sup>/s (106.7 m<sup>3</sup>/s), 11.96 in/yr (304 mm/yr).

EXTREMES.--Current year: Maximum discharge, 50,100 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s) Feb. 27, gage height, 30.19 ft (9.202 m); minimum daily discharge, 438 ft<sup>3</sup>/s (12.4 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 75,700 ft<sup>3</sup>/s (2,140 m<sup>3</sup>/s) Mar. 12, 1964; maximum gage height, 35.97 ft (10.964 m) May 11, 1961; minimum daily discharge, 138 ft<sup>3</sup>/s (3.91 m<sup>3</sup>/s) Sept. 7, 1941.

Flood in March 1913 reached a stage of 47.5 ft (14.48 m), from floodmark determined by Corps of Engineers, discharge, 155,000 ft<sup>3</sup>/s (4,390 m<sup>3</sup>/s) at former site.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 2109: Drainage area. WRD Ind. 1973: 1972.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,460	1,140	3,340	4,860	8,640	33,000	24,400	15,600	2,220	1,330	679	497
2	6,100	1,440	3,860	5,930	10,200	24,600	23,600	12,400	2,280	1,260	667	514
3	4,550	2,140	5,340	7,470	11,900	18,700	20,200	10,500	2,330	1,200	739	592
4	3,410	5,130	6,080	8,390	14,600	13,800	15,600	7,950	2,230	1,140	675	560
5	2,770	9,150	5,770	8,400	14,100	10,400	12,000	6,100	2,240	1,090	662	522
6	2,350	8,800	4,910	7,960	11,400	7,520	9,530	5,220	2,460	1,050	683	492
7	2,080	9,090	4,510	7,000	9,660	5,650	7,060	5,080	3,130	1,050	699	472
8	1,870	9,220	5,820	5,990	8,710	5,210	5,490	5,280	3,980	1,070	691	455
9	1,720	8,730	7,270	5,540	7,880	5,160	4,850	5,460	3,250	1,080	660	448
10	1,610	7,620	8,480	6,080	6,890	5,070	4,510	4,240	2,530	1,130	642	438
11	1,510	5,710	9,400	9,030	5,640	4,810	4,270	3,830	2,360	1,100	681	503
12	1,430	4,260	9,800	10,500	4,990	7,020	4,030	3,450	2,440	1,040	695	731
13	1,360	3,910	8,950	11,600	5,080	9,490	3,780	3,190	2,930	989	641	1,400
14	1,300	4,170	7,150	15,000	6,010	12,500	3,560	3,580	4,050	978	607	2,300
15	1,370	3,910	6,250	16,300	6,550	21,000	3,390	3,730	3,710	952	679	1,720
16	1,560	3,530	6,380	14,800	6,000	22,000	3,250	3,210	3,060	919	688	1,080
17	1,750	3,330	7,200	12,000	5,440	19,000	3,130	2,850	2,630	897	657	811
18	1,980	3,110	8,250	9,850	5,800	17,200	3,040	2,620	2,320	887	658	710
19	1,910	2,970	8,370	8,400	6,710	17,000	3,160	2,460	2,140	867	701	656
20	1,700	3,640	7,520	7,840	7,040	17,200	3,480	2,320	2,110	875	719	617
21	1,520	4,200	6,400	7,900	7,230	17,800	3,750	2,200	1,990	864	707	581
22	1,400	4,460	5,650	7,160	6,880	18,600	3,740	2,100	1,790	896	665	556
23	1,310	4,050	5,030	5,900	10,700	17,700	3,570	2,010	1,750	920	634	537
24	1,250	3,450	4,640	5,080	14,100	15,700	5,900	2,030	2,010	887	598	529
25	1,190	3,310	4,680	4,670	17,300	13,600	10,000	2,320	1,980	842	566	536
26	1,160	3,940	5,400	4,600	41,300	12,500	11,200	2,390	1,750	806	539	546
27	1,140	5,000	6,320	4,870	48,800	12,900	14,100	2,250	1,580	774	515	542
28	1,120	4,850	6,250	5,520	41,700	13,800	17,600	2,050	1,500	748	500	528
29	1,110	4,110	5,480	5,560	-----	14,700	19,000	1,940	1,480	729	488	512
30	1,130	3,570	4,810	5,360	-----	17,100	18,300	1,950	1,410	722	491	512
31	1,130	-----	4,440	6,470	-----	21,500	-----	1,960	-----	703	485	-----
TOTAL	62,250	141,940	193,750	246,030	351,250	452,230	269,490	132,270	71,640	29,795	19,711	20,897
MEAN	2,008	4,731	6,250	7,936	12,540	14,590	8,983	4,267	2,388	961	636	697
MAX	6,460	9,220	9,800	16,300	48,800	33,000	24,400	15,600	4,050	1,330	739	2,300
MIN	1,110	1,140	3,340	4,600	4,990	4,810	3,040	1,940	1,410	703	485	438
CFSM	.52	1.23	1.62	2.06	3.25	3.78	2.33	1.11	.62	.25	.16	.18
IN.	.60	1.37	1.87	2.37	3.38	4.36	2.60	1.27	.69	.29	.19	.20
CAL YR 1974	TOTAL	1,971,371	MEAN	5,401	MAX	20,800	MIN	876	CFSM	1.40	IN	18.99
WTR YR 1975	TOTAL	1,991,253	MEAN	5,455	MAX	48,800	MIN	438	CFSM	1.41	IN	19.19

PEAK DISCHARGE (BASE, 13,000 FT<sup>3</sup>/S).--Jan. 15 (1400) 16,500 ft<sup>3</sup>/s (18.90 ft at 1900 Jan. 15); Feb. 4 (1800) 14,800 ft<sup>3</sup>/s (17.77 ft at 2100 Feb. 4); Feb. 27 (0200) 50,100 ft<sup>3</sup>/s (30.19 ft at 1700 Feb. 27); Mar. 15 (2400) 22,800 ft<sup>3</sup>/s (22.52 ft at 0700 Mar. 16); Apr. 1 (1800) 24,500 ft<sup>3</sup>/s (23.35 ft at 1900 Apr. 1); Apr. 29 (1400) 19,100 ft<sup>3</sup>/s (20.67 ft at 2100 Apr. 29).



## 03371520 Back Creek at Leesville, Ind.

LOCATION.--Lat 38°50'48", long 86°18'06", in SW 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 (1.4 km) west of Leesville, 2.5 miles (4.0 km) upstream from Jones Defeat Hollow and 7 miles (11 km) above mouth.

DRAINAGE AREA.--24.1 mi<sup>2</sup> (62.4 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 36.3 ft<sup>3</sup>/s (1.028 m<sup>3</sup>/s), 20.45 in/yr (519 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,420 ft<sup>3</sup>/s (68.5 m<sup>3</sup>/s) Feb. 23, gage height, 7.12 ft (2.170 m); no flow for many days in July, August, and September.

Period of record: Maximum discharge, 15,300 ft<sup>3</sup>/s (433 m<sup>3</sup>/s) July 21, 1973, gage height, 14.0 ft (4.27 m), from floodmarks, from rating extended above 550 ft<sup>3</sup>/s (15.6 m<sup>3</sup>/s) on basis of step-backwater analysis and contracted-opening and flow-over-road measurement of peak flow; no flow for many days in October 1970, July 1971, and July, August, and September 1975.

Flood in 1913 reached a stage of 18.1 ft (5.52 m) from information by local resident.

REMARKS.--Records fair.

REVISIOUS (WATER YEARS).--WRD Ind. 1972: 1971.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	13	34	66	92	36	37	22	11	.60	0	.85
2	30	148	39	47	67	29	32	18	6.7	.47	0	.32
3	22	113	45	65	53	25	27	16	5.2	.37	.18	.21
4	19	572	40	55	51	22	23	15	3.9	.32	0	.16
5	14	176	36	44	53	20	21	13	14	.37	0	.08
6	11	79	32	39	49	18	19	13	9.4	.32	.01	.01
7	8.3	56	157	34	40	21	16	18	5.2	.37	0	0
8	7.0	44	161	45	35	17	15	17	3.7	.23	0	0
9	5.6	36	83	56	31	15	16	16	2.9	.16	0	0
10	4.7	32	59	128	29	18	16	13	2.6	.09	0	0
11	3.7	46	49	163	27	22	15	9.4	34	.01	0	4.7
12	3.3	44	57	71	31	389	14	4.4	18	0	0	4.4
13	3.0	40	47	52	26	105	12	11	9.4	0	0	1.1
14	2.8	50	41	43	24	76	12	7.7	12	0	0	.60
15	21	40	89	34	24	74	12	6.7	8.2	0	.47	.42
16	22	35	78	30	26	146	11	5.5	5.5	0	2.6	.32
17	11	30	58	27	28	134	11	4.7	4.2	0	2.2	.28
18	8.9	28	45	62	26	127	11	4.2	3.7	0	1.2	.32
19	7.9	38	43	49	24	168	19	3.5	2.9	.05	.28	.37
20	7.1	46	38	39	22	92	15	3.1	2.3	.42	.23	.85
21	6.1	37	34	34	20	64	13	2.8	3.9	.37	.16	.92
22	5.5	31	30	30	218	148	12	2.3	2.2	.19	.09	.76
23	5.2	28	28	26	1,030	122	45	2.3	1.8	.09	.02	.67
24	5.0	54	45	26	199	163	151	5.8	1.6	.01	0	.67
25	5.0	54	45	31	103	80	148	3.9	1.4	0	0	1.1
26	5.0	42	38	31	69	54	56	9.4	1.2	0	0	1.2
27	4.6	37	35	27	53	146	39	12	1.1	0	0	1.2
28	4.4	31	32	26	45	242	31	5.2	.92	0	0	.99
29	4.9	27	30	51	-----	251	26	4.2	.76	0	0	.85
30	20	25	27	47	-----	73	23	5.2	.67	0	0	.67
31	14	-----	47	127	-----	48	-----	9.4	-----	0	2.8	-----
TOTAL	334.0	2,032	1,622	1,605	2,495	2,945	898	283.7	180.35	4.44	10.24	24.02
MEAN	10.8	67.7	52.3	51.8	89.1	95.0	29.9	9.15	6.01	.14	.33	.80
MAX	42	572	161	163	1,030	389	151	22	34	.60	2.8	4.7
MIN	2.8	13	27	26	20	15	11	2.3	.67	0	0	0
CFSM	.45	2.81	2.17	2.15	3.70	3.94	1.24	.38	.25	.006	.01	.03
IN.	.52	3.14	2.50	2.48	3.85	4.55	1.39	.44	.28	.006	.02	.04

CAL YR 1974 TOTAL 15,342.03 MEAN 42.0 MAX 572 MIN .11 CFSM 1.74 IN 23.68  
WTR YR 1975 TOTAL 12,433.75 MEAN 34.1 MAX 1,030 MIN 0 CFSM 1.41 IN 19.19

PEAK DISCHARGE (BASE, 400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-02	0630	3.93	559	03-27	2215	5.18	1,210
11-04	0930	6.06	1,700	03-29	0030	5.14	1,170
02-23	1400	7.12	2,420	04-24	1015	4.23	566
03-12	0315	5.64	1,460				



## 03371650 North Fork Salt Creek at Nashville, Ind.

LOCATION.--Lat 39°12'06", long 86°14'51", in NW¼SW¼ sec.19, T.9 N., R.3 E., Brown County, on right bank 90 ft (27 m) downstream from bridge on State Highway 46, 800 ft (244 m) downstream from Greasy Creek, 0.4 mile (0.6 km) south of center of Nashville, and at mile 32.5 (52.3 km).

DRAINAGE AREA.--76.1 mi<sup>2</sup> (197.1 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: July 1962 to current year.

CHEMICAL ANALYSES: February 1974 to current year.

WATER TEMPERATURE: February 1974 to current year.

GAGE.--Water-stage recorder and multi-parameter monitor. Datum of gage is 579.58 ft (176.656 m) above mean sea level. Prior to Sept. 16, 1964, nonrecording gage at site 90 ft (27 m) upstream at same datum.

AVERAGE DISCHARGE.--13 years, 80.2 ft<sup>3</sup>/s (2.271 m<sup>3</sup>/s), 14.31 in/yr (363 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	20	52	264	307	112	157	69	7.8	3.6	.35	.83
2	24	20	61	167	202	95	125	54	8.8	3.5	.30	.69
3	21	24	70	177	157	76	105	48	7.8	3.1	.72	.61
4	18	721	71	167	141	64	79	44	7.8	2.9	.57	.57
5	15	398	68	130	150	57	66	37	89	2.7	.56	.52
6	13	151	64	115	154	53	57	33	65	3.8	.55	.46
7	12	88	443	97	126	106	52	47	20	4.2	1.2	.30
8	12	61	613	150	107	95	47	33	15	3.4	.90	.29
9	11	49	266	304	89	78	42	30	12	2.9	.71	.28
10	11	41	169	438	78	87	39	24	9.9	2.2	.64	.28
11	10	44	129	950	79	80	36	21	213	1.6	.69	7.3
12	9.8	47	140	305	418	2,530	31	20	181	1.4	.87	8.6
13	9.9	44	123	200	237	512	28	19	59	1.2	1.0	.75
14	11	78	103	154	171	291	26	16	38	1.0	1.0	.46
15	13	70	204	117	143	212	25	14	32	.85	5.3	.30
16	18	57	283	97	180	317	23	12	27	.83	3.8	.29
17	16	47	180	72	236	420	21	11	73	.75	1.1	.29
18	14	41	130	124	209	287	23	10	60	.81	.80	.28
19	14	42	119	150	164	475	211	9.2	50	.80	.72	.30
20	13	55	115	122	129	282	116	7.8	40	.85	.67	.46
21	13	49	110	104	106	194	81	7.8	100	.79	.67	.40
22	13	41	98	92	205	159	67	6.7	55	.84	.66	.28
23	12	37	90	83	3,440	140	517	6.1	32	.75	.59	.27
24	12	77	202	78	1,100	1,040	1,610	5.8	18	.71	.51	.29
25	12	111	208	92	374	347	586	5.6	11	.65	.44	.46
26	13	88	156	99	246	196	320	8.8	5.6	.61	.36	.40
27	12	67	125	80	187	247	199	8.5	5.5	.54	.31	.46
28	12	55	101	78	148	1,590	147	7.4	5.0	.57	.35	.40
29	14	46	84	109	-----	730	111	6.1	4.5	.50	.69	.30
30	20	40	73	112	-----	359	84	5.6	4.0	.48	2.6	.30
31	20	-----	103	358	-----	218	-----	6.4	-----	.43	1.4	-----
TOTAL	456.7	2,709	4,753	5,585	9,283	11,449	5,031	633.8	1,256.7	49.26	31.03	27.42
MEAN	14.7	90.3	153	180	332	369	168	20.4	41.9	1.59	1.00	.91
MAX	38	721	613	950	3,440	2,530	1,610	69	213	4.2	5.3	8.6
MIN	9.8	20	52	72	78	53	21	5.6	4.0	.43	.30	.27
CFSM	.19	1.19	2.01	2.37	4.36	4.85	2.21	.27	.55	.02	.01	.01
IN.	.22	1.32	2.32	2.73	4.54	5.60	2.46	.31	.61	.02	.02	.01

CAL YR 1974 TOTAL 37,744.69 MEAN 103 MAX 1,960 MIN .65 CFSM 1.35 IN 18.45  
WTR YR 1975 TOTAL 41,264.91 MEAN 113 MAX 3,440 MIN .27 CFSM 1.48 IN 20.17

PEAK DISCHARGE (BASE, 1,800 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1500	8.35	1,820	03-28	0400	10.77	2,830
02-23	0800	12.93	4,140	04-24	1300	10.70	2,800
03-12	1100	13.16	4,340				

## 03371650 North Fork Salt Creek at Nashville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 4,340 ft<sup>3</sup>/s (123 m<sup>3</sup>/s) Mar. 12, gage height, 13.16 ft (4.011 m); minimum daily, 0.27 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Sept. 23.

Period of record: Maximum discharge, 7,500 ft<sup>3</sup>/s (212 m<sup>3</sup>/s) Mar. 4, 1963; maximum gage height, 16.00 ft (4.877 m) May 24, 1968; no flow at times most years.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 299 micromhos Sept. 20; minimum, 50 micromhos Mar. 12.

Period of record: Maximum conductance, 357 micromhos Aug. 29, 1974; minimum, 50 micromhos Mar. 12, 1975.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C May 23, July 21, 28; minimum, freezing point during winter periods.

Period of record: Maximum temperature, 29.0°C July 9, 1974; minimum, freezing point on many days during most winter periods.

REMARKS.--Water discharge records good, chemical and temperatures, fair.

REVISIONS.--WSP 2109: Drainage area.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	165	155	188	183	145	135	106	97	105	88	129	126
2	164	151	198	189	139	132	102	99	111	106	129	126
3	158	154	208	190	138	128	109	100	117	113	129	126
4	161	159	194	82	135	128	103	100	119	117	135	129
5	165	154	121	109	136	128	105	103	122	119	133	131
6	168	162	133	121	137	129	107	105	121	119	135	132
7	170	166	141	133	132	83	110	106	123	120	143	130
8	172	166	147	141	94	82	133	103	123	121	129	128
9	173	169	146	143	109	94	102	94	126	123	128	125
10	175	170	148	146	114	105	111	82	132	126	128	123
11	176	173	151	146	114	109	86	75	159	127	130	125
12	182	174	149	146	117	113	98	89	134	86	129	50
13	190	181	148	143	119	114	103	97	113	87	110	74
14	191	155	149	136	120	114	109	102	118	114	111	87
15	214	162	136	133	119	95	109	106	125	119	122	106
16	197	172	140	132	99	92	112	106	129	124	122	110
17	186	181	139	133	106	99	116	111	129	120	115	106
18	186	182	140	136	109	106	150	106	122	120	124	112
19	190	181	147	136	118	106	106	105	126	122	119	108
20	188	186	144	140	118	109	107	105	128	126	115	105
21	187	175	142	140	116	109	109	106	133	129	112	105
22	190	181	146	140	111	109	111	109	139	88	114	111
23	193	186	146	139	119	111	114	111	73	60	123	111
24	191	187	143	132	120	100	115	113	114	68	120	76
25	192	190	131	127	102	98	120	116	123	113	97	84
26	192	182	129	125	103	100	119	118	124	122	105	95
27	192	186	129	125	107	103	120	118	124	123	105	100
28	193	184	132	128	110	108	122	119	127	124	100	61
29	197	193	133	131	112	110	129	123	---	---	89	62
30	201	190	149	132	114	112	126	122	---	---	93	66
31	191	187	---	---	136	108	138	88	---	---	102	92
MONTH	219	151	208	82	145	82	150	75	159	60	143	50

## WABASH RIVER BASIN

03371650 North Fork Salt Creek at Nashville, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	109	100	122	116	190	162	---	---	210	204	195	175
2	112	106	124	117	188	162	---	---	211	202	192	178
3	113	106	126	121	169	162	---	---	208	196	188	181
4	111	109	130	122	167	162	---	---	216	205	195	190
5	115	111	131	125	168	164	---	---	217	213	192	178
6	115	111	136	126	171	129	---	---	219	208	---	---
7	117	114	151	130	139	114	---	---	210	177	---	---
8	120	117	146	131	143	128	---	---	205	194	199	192
9	120	119	140	132	156	139	---	---	202	195	200	194
10	123	120	142	136	160	150	---	---	196	191	200	195
11	125	122	143	137	164	150	---	---	199	192	200	195
12	126	124	147	140	193	122	---	---	197	195	183	166
13	126	125	147	143	127	114	---	---	216	197	175	166
14	127	126	148	143	137	114	---	---	207	198	199	168
15	130	125	149	143	146	132	---	---	205	193	202	168
16	130	128	151	147	148	142	---	---	205	201	196	171
17	134	128	152	144	149	142	204	198	211	187	205	191
18	136	133	154	148	166	150	201	193	196	180	223	191
19	151	121	156	151	156	147	204	189	185	170	228	202
20	123	114	158	152	161	122	212	201	188	178	299	195
21	117	114	162	155	160	89	218	205	200	188	291	223
22	122	117	164	159	163	129	219	197	211	192	230	192
23	124	109	165	160	162	91	209	197	196	190	220	195
24	102	68	169	162	163	98	203	194	193	190	211	200
25	93	87	168	166	166	92	206	191	194	187	214	200
26	101	95	168	162	164	---	210	203	195	187	229	205
27	106	100	187	159	---	---	207	201	191	166	230	211
28	111	105	180	162	---	---	210	202	187	162	217	---
29	117	100	165	157	---	---	212	203	184	162	226	---
30	121	117	167	162	---	---	211	207	198	171	223	208
31	---	---	169	166	---	---	213	208	187	175	---	---
MONTH	151	68	187	116	193	89	---	---	219	162	299	166

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.5	17.0	15.5	3.5	2.5	6.0	5.0	5.5	5.0	5.5	4.0
2	12.5	10.5	18.0	16.5	4.0	3.0	5.0	3.0	6.0	5.0	3.5	2.0
3	11.5	9.5	17.5	16.5	4.0	2.0	5.0	3.5	5.5	4.5	3.0	1.0
4	12.0	10.5	17.0	13.5	4.0	1.0	5.0	3.5	5.0	3.5	4.0	1.5
5	13.0	11.5	13.5	11.0	2.5	2.0	3.5	2.0	6.0	5.0	4.5	2.0
6	14.5	12.0	11.5	9.5	2.5	2.0	4.0	2.5	6.0	2.5	6.5	3.5
7	14.5	12.0	10.0	9.0	5.5	2.0	5.0	2.5	2.0	1.0	7.5	6.0
8	13.5	11.5	10.0	9.0	6.0	4.5	7.0	5.5	2.5	0.5	6.5	4.0
9	14.0	11.5	9.5	8.0	4.5	2.0	7.0	6.5	2.0	0.0	5.0	2.5
10	14.0	11.5	9.5	8.5	2.5	1.0	9.5	6.5	1.0	0.5	4.5	2.5
11	14.0	11.5	10.0	9.5	4.0	2.0	9.5	5.0	2.0	1.0	5.0	3.0
12	14.5	13.5	10.0	8.5	5.5	4.0	5.5	2.5	4.0	2.0	6.0	4.0
13	15.5	14.5	8.5	7.0	6.0	5.5	2.5	0.5	3.0	1.5	5.5	4.5
14	16.5	15.0	7.5	5.5	2.5	5.5	1.0	0.0	3.0	1.5	4.5	2.0
15	15.0	13.5	6.0	5.0	6.0	5.5	2.0	0.5	6.0	2.5	5.0	1.5
16	13.5	12.0	5.5	4.5	5.5	5.0	3.0	1.5	6.5	5.0	6.5	4.5
17	13.5	11.5	6.5	5.0	5.0	4.0	1.5	0.5	7.0	6.5	8.0	5.5
18	12.0	11.0	7.0	5.5	4.0	2.5	3.5	1.0	6.5	5.5	7.5	6.0
19	11.5	9.5	9.5	6.5	4.5	2.5	3.5	2.5	5.5	4.0	8.5	7.0
20	11.0	9.0	10.0	8.5	4.5	2.5	2.5	1.5	5.0	2.0	9.5	6.0
21	9.5	7.0	8.5	6.5	4.5	4.0	2.5	0.5	6.0	2.0	10.5	8.0
22	9.5	6.5	6.5	6.0	4.5	3.0	3.0	1.5	6.0	4.0	11.0	9.5
23	11.0	7.5	7.5	5.0	7.0	4.0	4.0	2.0	7.0	6.0	12.0	7.5
24	13.5	11.0	9.0	7.5	7.5	7.0	4.0	2.0	7.0	4.0	12.0	10.0
25	14.0	11.5	8.0	6.0	7.0	4.5	5.0	4.0	5.0	3.0	10.0	5.5
26	13.5	11.5	6.0	4.5	4.0	1.5	4.0	2.0	5.5	2.5	6.5	4.5
27	11.5	10.0	4.5	3.0	4.5	3.0	3.0	1.5	5.5	4.0	6.5	4.5
28	13.0	10.0	4.0	2.0	5.0	4.0	6.0	3.0	6.5	4.5	7.0	4.5
29	14.0	12.0	4.5	2.5	6.0	4.5	9.5	6.0	---	---	8.0	6.5
30	15.5	14.0	4.0	2.5	6.0	6.0	7.0	6.0	---	---	7.5	5.0
31	16.0	14.0	---	---	6.5	6.0	6.0	5.0	---	---	7.5	4.5
MONTH	16.5	6.5	18.0	2.0	7.5	1.0	9.5	0.0	7.0	0.0	12.0	1.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	6.5	17.5	14.5	21.5	18.5	---	---	---	---	---	---
2	11.5	8.0	18.0	14.5	21.0	17.5	---	---	---	---	---	---
3	12.0	7.5	18.0	14.5	20.0	19.0	---	---	---	---	---	---
4	9.5	5.5	16.5	13.0	20.5	18.0	---	---	---	---	---	---
5	8.0	6.0	18.0	14.0	22.0	18.0	---	---	---	---	---	---
6	9.5	6.5	19.0	15.5	21.5	18.5	---	---	---	---	---	---
7	10.0	7.0	21.0	16.0	21.0	17.0	---	---	---	---	---	---
8	10.0	8.0	19.5	16.5	21.0	17.0	---	---	---	---	---	---
9	10.0	7.5	18.0	15.5	20.0	18.0	---	---	---	---	---	---
10	11.5	6.0	20.0	15.5	19.5	16.5	---	---	---	---	---	---
11	11.5	9.5	20.5	15.5	20.5	17.0	---	---	---	---	---	---
12	11.5	7.5	20.0	16.5	19.5	18.0	---	---	---	---	---	---
13	12.0	7.5	20.5	17.5	19.5	17.0	---	---	---	---	---	---
14	12.0	9.0	21.5	17.5	21.5	18.0	---	---	---	---	---	---
15	11.0	8.0	21.0	18.0	22.0	19.0	---	---	---	---	---	---
16	11.0	8.0	21.0	18.5	22.5	19.0	---	---	---	---	---	---
17	13.5	9.0	21.5	18.0	21.5	21.0	26.5	24.5	---	---	---	---
18	15.0	13.5	21.0	19.0	22.0	21.0	25.5	24.0	---	---	---	---
19	16.0	13.5	24.0	20.0	23.5	20.5	25.5	20.5	---	---	---	---
20	13.0	10.5	25.5	20.5	25.0	---	25.5	20.0	---	---	---	---
21	12.5	9.5	26.5	22.0	26.0	---	28.0	24.5	---	---	---	---
22	14.0	12.0	27.5	23.5	25.5	---	27.5	24.0	---	---	---	---
23	15.5	12.5	28.0	21.5	---	---	27.5	23.5	---	---	---	---
24	12.5	11.5	27.0	22.5	---	---	27.5	23.5	---	---	---	---
25	14.0	11.5	27.0	22.5	---	---	27.0	24.5	---	---	---	---
26	14.0	11.5	25.5	23.0	---	---	26.5	22.0	---	---	---	---
27	14.5	12.0	25.5	21.0	---	---	26.5	21.0	---	---	---	---
28	13.0	11.5	24.5	21.0	---	---	28.0	24.5	---	---	---	---
29	16.0	12.5	24.0	18.0	---	---	26.5	24.0	---	---	---	---
30	19.0	16.0	22.0	19.0	---	---	27.5	24.0	---	---	---	---
31	---	---	23.0	19.5	---	---	27.0	24.5	---	---	---	---
MONTH	19.0	5.5	28.0	13.0	---	---	---	---	---	---	---	---

03372300 Stephens Creek near Bloomington, Ind.

LOCATION.--Lat 39°10'11", long 86°25'07", in NE¼NW¼ 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 (0.3 km) downstream from Kerr Creek, 4.0 miles (6.4 km) west of Belmont, and 6.1 miles (9.8 km) east of Bloomington.

DRAINAGE AREA.--10.9 mi<sup>2</sup> (28.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 550.00 ft (167.640 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 14.2 ft<sup>3</sup>/s (0.402 m<sup>3</sup>/s), 17.7 in/yr (450 mm/yr).

EXTREMES.--Current year: Maximum discharge, 679 ft<sup>3</sup>/s (19.2 m<sup>3</sup>/s) Mar. 12, gage height, 10.45 ft (3.185 m); minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Aug. 11-13.

Period of record: Maximum discharge, 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) May 29, 1974, gage height, 10.80 ft (3.292 m); no flow at times most years.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.6	13	45	50	19	25	11	5.5	1.3	.20	2.6
2	7.0	3.5	16	31	35	15	20	8.9	4.4	1.1	.18	1.6
3	5.2	5.3	19	40	25	12	15	8.1	3.4	.94	2.3	1.3
4	4.4	109	18	33	22	10	12	7.2	3.0	.85	1.1	1.1
5	3.5	117	16	25	21	8.7	10	6.3	40	4.4	.67	.77
6	2.9	37	14	20	20	7.7	8.4	6.7	17	5.2	.53	.68
7	2.5	20	59	16	17	17	7.1	8.1	7.7	2.9	.38	.58
8	2.2	14	80	52	15	12	6.1	7.5	5.1	1.9	.25	.40
9	2.0	11	45	58	12	11	5.3	6.9	3.5	1.4	.25	.32
10	1.8	8.3	31	132	11	13	4.7	5.9	3.0	1.1	.18	.18
11	1.6	12	23	127	11	13	4.1	5.0	72	.92	.13	40
12	1.5	11	27	49	56	251	3.5	6.9	25	1.1	.13	17
13	1.5	12	22	36	35	70	3.1	5.3	11	1.0	.13	6.2
14	2.5	25	18	36	25	51	3.0	4.0	9.5	.82	.25	3.5
15	6.2	20	32	27	21	43	2.6	3.5	6.9	.67	22	2.8
16	5.2	15	35	13	28	66	2.3	3.3	5.0	.56	13	2.0
17	4.4	12	27	10	30	70	2.1	2.9	33	.48	2.4	1.7
18	4.1	9.9	20	22	25	55	3.1	2.5	23	2.0	1.4	1.5
19	3.9	11	20	19	20	92	31	2.0	11	1.4	2.3	1.6
20	3.7	27	19	16	16	53	14	1.7	6.6	1.5	2.3	3.0
21	3.6	18	20	14	13	38	11	1.7	64	1.1	1.1	1.9
22	3.4	15	18	22	106	32	9.0	1.5	13	.85	.98	1.6
23	3.3	12	18	10	360	43	114	1.5	7.6	.66	.68	1.4
24	3.2	42	32	9.8	106	105	185	1.2	5.2	.56	.48	1.2
25	3.1	38	33	13	56	50	83	2.8	4.0	.47	.48	1.1
26	3.1	26	25	12	42	32	47	5.4	3.1	.40	.77	1.0
27	2.9	20	20	10	33	58	30	4.8	2.7	.32	.48	.86
28	2.8	15	16	10	26	153	21	2.8	2.1	.29	.40	.75
29	3.0	12	13	17	-----	105	16	2.0	1.8	.25	16	.55
30	3.8	10	11	17	-----	55	13	1.5	1.5	.23	17	.48
31	3.7	-----	31	59	-----	36	-----	5.3	-----	.18	4.2	-----
TOTAL	113.0	691.6	791	1,000.8	1,237	1,596.4	711.4	144.2	400.6	36.85	92.65	99.67
MEAN	3.65	23.1	25.5	32.3	44.2	51.5	23.7	4.65	13.4	1.19	2.99	3.32
MAX	11	117	80	132	360	251	185	11	72	5.2	22	40
MIN	1.5	3.5	11	9.8	11	7.7	2.1	1.2	1.5	.18	.13	.18
CFSM	.33	2.12	2.34	2.96	4.06	4.72	2.17	.43	1.23	.11	.27	.30
IN.	.39	2.36	2.70	3.42	4.22	5.45	2.43	.49	1.37	.13	.32	.34

CAL YR 1974 TOTAL 6,313.56 MEAN 17.3 MAX 216 MIN .12 CFSM 1.59 IN 21.55  
WTR YR 1975 TOTAL 6,915.17 MEAN 18.9 MAX 360 MIN .13 CFSM 1.73 IN 23.60

PEAK DISCHARGE (BASE, 350 FT<sup>3</sup>/S) (Revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0100	10.31	660	04-23	1200	7.89	362
03-12	0600	10.45	679	04-24	1000	8.18	394
03-27	2400	8.01	375	08-15	2300	8.67	451

03372400 Monroe Lake near Harrodsburg, Ind.

LOCATION (revised).--Lat 39°00'24", long 86°30'56", in SW¼SW¼ sec.27, T.7 N., R.1 W., Monroe County, in discharge tower of reservoir on Salt Creek, 1.3 miles (2.1 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 26.1 miles (42.0 km) upstream from mouth.

DRAINAGE AREA.--432 mi<sup>2</sup> (1,119 km<sup>2</sup>).

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 (152.400 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 328,000 acre-ft (404 hm<sup>3</sup>) Apr. 3, elevation, 549.27 ft (167.417 m); minimum, 168,900 acre-ft (208 hm<sup>3</sup>) Sept. 30, elevation, 536.73 ft (163.595 m).  
Period of record: Maximum contents, 348,700 acre-ft (430 hm<sup>3</sup>) May 2, 1973, elevation, 550.60 ft (167.823 m); minimum, 149,500 acre-ft (184 hm<sup>3</sup>) Nov. 7, 1966, elevation, 534.77 ft (163.000 m).

REMARKS.--Reservoir is formed by earth and rock-fill dam. Releases normally controlled by three gates, 3.75 ft (1.143 m) wide and 12.0 ft (3.66 m) high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 22,300 acre-ft (27.5 hm<sup>3</sup>), elevation, 515 ft (157.0 m). Capacity at uncontrolled spillway elevation, 556 ft (169.5 m) is 446,000 acre-ft (550 hm<sup>3</sup>).  
Reservoir is used for flood control, water supply of Bloomington, and recreation. Reservoir put in operation on Apr. 26, 1966.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1974 to September 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	539.02	193,400	-
Oct. 31.....	538.87	191,700	-1,700
Nov. 30.....	540.22	207,000	+15,300
Dec. 31.....	538.56	188,300	-18,700
Calendar year 1974.....	-	-	-16,700
Jan. 31.....	538.51	187,800	-500
Feb. 28.....	543.31	244,600	+56,800
Mar. 31.....	549.13	325,900	+81,300
Apr. 30.....	546.58	288,600	-37,300
May 31.....	538.28	185,300	-103,300
June 30.....	537.96	181,800	-3,500
July 31.....	537.35	175,300	-6,500
Aug. 31.....	537.07	172,400	-2,900
Sept. 30.....	536.73	168,900	-3,500
Water year 1975.....	-	-	-24,500



## WABASH RIVER BASIN

03372500 Salt Creek near Harrodsburg, Ind.

LOCATION (revised).--Lat 39°00'16", long 86°30'31", in NE 1/4 sec. 34, T. 7 N., R. 1 W., Monroe County, on right bank 0.35 mile (0.56 km) downstream from Monroe Lake, 0.9 mile (1.4 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 25.7 miles (41.4 km) upstream from mouth.

DRAINAGE AREA.--432 mi<sup>2</sup> (1,119 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: May 1955 to current year.

WATER TEMPERATURE: August 1966 to current year.

GAGE.--WATER DISCHARGE: Nonrecording gage. Datum of gage is 480.00 ft (146.304 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1960, nonrecording gage at site 0.7 mile (1.1 km) upstream at datum 2.41 ft (0.735 m) higher. Oct. 1, 1960 to Sept. 30, 1974, water-stage recorder at present site and datum.

WATER TEMPERATURE: Recording gage.

AVERAGE DISCHARGE.--20 years, 488 ft<sup>3</sup>/s (13.82 m<sup>3</sup>/s), 15.34 in/yr (390 mm/yr).

75mg

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	53	376	1820	735	222	237	1090	404	51	49	52
2	53	53	376	1820	411	222	238	1930	298	51	49	52
3	53	53	522	1710	205	222	556	2020	264	51	49	52
4	53	53	583	1430	206	1000	1470	2010	185	51	51	52
5	53	165	583	769	604	1640	1970	2010	150	51	51	52
6	53	212	582	750	1220	1710	2170	2000	250	49	51	52
7	53	339	583	769	1510	1790	2230	2000	384	49	51	52
8	53	699	791	492	1770	1780	2230	2000	428	49	51	52
9	53	917	918	366	1680	1780	2220	1990	426	49	51	52
10	53	914	918	489	1430	1770	2210	1980	347	49	51	52
11	53	912	918	370	1050	1760	2210	1980	390	49	51	52
12	53	861	918	260	1050	511	2200	2060	432	49	51	52
13	53	760	918	209	1050	226	2190	1970	662	49	51	52
14	53	760	918	209	1050	227	2190	1990	797	49	51	58
15	53	700	917	210	1050	228	2180	2080	797	49	51	61
16	53	582	1110	210	1050	228	2170	2080	797	49	51	61
17	53	462	1600	743	1050	229	2160	2070	687	49	51	50
18	53	376	1740	1610	941	230	2150	2060	626	49	51	43
19	53	376	1730	1710	727	231	2150	2050	626	49	51	49
20	53	376	1730	1780	727	698	2140	2040	626	49	51	52
21	53	321	1610	1840	727	1520	2130	2030	559	49	51	52
22	53	210	935	1840	620	2020	2130	2020	428	49	51	52
23	53	210	850	1830	311	1680	1870	2010	243	49	51	52
24	53	210	1400	1820	210	1180	840	2000	114	49	51	52
25	53	427	1390	1520	219	1190	594	1990	74	49	51	52
26	53	582	1640	878	220	1510	1180	1980	57	49	51	52
27	53	513	1850	1080	221	1650	850	1970	51	49	50	52
28	53	376	1840	698	222	242	272	1960	50	49	52	52
29	53	376	1840	365	---	236	182	1580	50	52	52	52
30	53	376	1830	487	---	237	182	726	51	52	52	52
31	53	---	1820	730	---	237	---	315	---	52	52	---
TOTAL	1643	13224	35736	30814	22266	28406	47501	57991	11253	1538	1578	1570
MEAN	53.0	441	1153	994	795	916	1583	1871	375	49.6	50.9	52.3
MAX	53	917	1850	1840	1770	2020	2230	2080	797	52	52	61
MIN	53	53	376	209	205	222	182	315	50	49	49	43
CAL YR 1974	TOTAL	224645	MEAN 615	MAX 1980	MIN 47							
WTR YR 1975	TOTAL	253520	MEAN 695	MAX 2230	MIN 43							

## 03372500 Salt Creek near Harrodsburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum daily discharge, 2,230 ft<sup>3</sup>/s (63.2 m<sup>3</sup>/s) Apr. 7, 8; minimum daily, 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Sept. 18.

Period of record: Maximum discharge, 22,000 ft<sup>3</sup>/s (623 m<sup>3</sup>/s) June 25, 1960, gage height, 32.76 ft (9.985 m) site and datum then in use; maximum gage height at present site and datum, 35.35 ft (10.775 m) May 9, 1961; no flow Sept. 29 to Dec. 2, 1964.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 30; minimum, 5.0°C Feb. 14-24, Mar. 1-19.

Period of record: Maximum temperature, 29.0°C July 10, 11, 1973, July 30, 1975; minimum, 1.0°C Jan. 4, 5, 8-13, 1968. Maximum observed temperature, 31.0°C Aug. 6, 1964.

REMARKS.--Flow regulated by Monroe Lake (See sta 03372400). Daily discharge, computed from relation between discharge, head and gate openings for Monroe Lake beginning Oct. 1, 1974.

COOPERATION.--Gate-opening records and discharge ratings furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	18.0	15.0	15.0	11.5	11.5	8.5	8.5	6.0	6.0	5.0	5.0
2	18.0	18.0	15.5	15.0	11.5	11.5	8.5	8.5	6.0	6.0	5.0	5.0
3	18.0	17.0	15.0	15.0	11.5	11.5	8.5	8.5	6.0	6.0	5.0	5.0
4	17.0	17.0	15.5	15.0	11.5	11.0	8.5	8.0	6.0	6.0	5.0	5.0
5	17.0	16.5	15.5	15.0	11.0	11.0	8.0	8.0	6.0	6.0	5.0	5.0
6	17.0	17.0	15.0	15.0	11.0	11.0	8.0	8.0	6.0	6.0	5.0	5.0
7	17.0	16.5	15.0	14.5	11.0	11.0	8.0	8.0	6.0	6.0	5.0	5.0
8	17.0	16.5	14.5	14.5	11.0	11.0	8.0	7.0	6.0	6.0	5.0	5.0
9	17.0	16.5	14.5	14.5	11.0	10.5	7.0	7.0	6.0	6.0	5.0	5.0
10	16.5	16.5	14.5	14.5	10.5	10.0	8.0	7.0	6.0	5.5	5.0	5.0
11	17.0	16.5	14.5	14.5	10.0	9.5	8.0	8.0	5.5	5.5	5.0	5.0
12	17.0	17.0	14.5	14.0	9.5	9.5	8.0	8.0	5.5	5.5	5.0	5.0
13	17.0	17.0	14.0	14.0	9.5	9.5	8.0	7.0	5.5	5.5	5.0	5.0
14	17.0	17.0	14.0	13.5	9.5	9.5	7.0	7.0	5.5	5.0	5.0	5.0
15	17.0	17.0	13.5	13.5	9.5	9.5	7.0	7.0	5.0	5.0	5.0	5.0
16	17.0	16.5	13.5	13.0	9.5	9.5	7.0	7.0	5.0	5.0	5.0	5.0
17	16.5	16.5	13.0	13.0	9.5	9.5	7.0	6.5	5.0	5.0	5.0	5.0
18	16.5	16.0	13.0	13.0	9.5	9.5	6.5	6.5	5.0	5.0	5.0	5.0
19	16.0	16.0	13.0	13.0	9.5	9.5	6.5	6.5	5.0	5.0	5.5	5.0
20	16.0	15.5	13.0	13.0	9.5	9.0	6.5	6.5	5.0	5.0	5.5	5.5
21	15.5	15.0	13.0	13.0	9.0	9.0	6.5	6.5	5.0	5.0	5.5	5.5
22	15.0	15.0	13.0	12.0	9.0	8.5	6.5	6.5	5.0	5.0	5.5	5.5
23	15.0	15.0	12.0	12.0	8.5	8.5	6.5	6.0	5.0	5.0	6.0	5.5
24	15.0	14.5	12.0	12.0	8.5	8.5	6.0	6.0	5.0	5.0	6.0	6.0
25	15.0	15.0	12.0	12.0	8.5	8.5	6.0	6.0	5.0	5.0	6.0	6.0
26	15.0	14.5	12.0	12.0	8.5	8.5	6.0	6.0	5.0	5.0	6.0	6.0
27	14.5	14.5	12.0	11.5	8.5	8.5	6.0	6.0	5.0	5.0	6.0	6.0
28	14.5	14.5	11.5	11.5	8.5	8.5	6.0	6.0	5.0	5.0	6.0	5.5
29	14.5	14.5	11.5	11.5	8.5	8.5	6.0	6.0	---	---	5.5	5.5
30	14.5	14.5	11.5	11.5	8.5	8.5	6.0	6.0	---	---	5.5	5.5
31	15.0	14.5	---	---	8.5	8.5	6.0	6.0	---	---	5.5	5.5
MONTH	18.5	14.5	15.5	11.5	11.5	8.5	8.5	6.0	6.0	5.0	6.0	5.0

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

03373500 East Fork White River at Shoals, Ind.

LOCATION.--Lat 38°40'02", long 86°47'32", in SW¼NW¼ 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 (122 m) upstream from Baltimore and Ohio Railroad bridge, 0.9 mile (1.4 km) upstream from Beaver Creek, and at mile 105.3 (169.4 km) (revised).

DRAINAGE AREA.--4,927 mi<sup>2</sup> (12,761 km<sup>2</sup>).

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 National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 442.25 ft (134.798 m) above mean sea level. See WSP 1725 for history of changes prior to Oct. 26, 1932.

AVERAGE DISCHARGE.--61 years (1903-5, 1909-16, 1923 to current year), 5,379 ft<sup>3</sup>/s (152.3 m<sup>3</sup>/s), 14.82 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 43,500 ft<sup>3</sup>/s (1,230 m<sup>3</sup>/s) Mar. 2, gage height, 25.19 ft (7.678 m); minimum daily, 439 ft<sup>3</sup>/s (12.4 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 160,000 ft<sup>3</sup>/s (4,530 m<sup>3</sup>/s) Mar. 28, 1913, gage height, 42.2 ft (12.86 m), from rating curve extended above 100,000 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s); minimum daily, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,250	1,980	5,040	8,530	11,600	42,500	23,300	19,700	3,100	1,650	708	598
2	7,540	2,260	5,190	9,150	12,800	42,800	24,600	17,800	3,380	1,540	692	534
3	6,610	3,770	6,250	10,100	13,600	38,400	24,700	15,600	3,240	1,450	3,220	516
4	5,240	7,080	7,740	11,600	15,000	30,300	22,900	13,200	3,140	1,370	5,560	550
5	4,280	16,000	7,940	11,500	16,000	20,100	19,100	10,300	4,000	1,290	1,890	540
6	3,640	15,900	7,320	10,700	15,500	13,200	15,200	8,470	4,810	1,230	1,460	507
7	3,190	12,500	6,980	9,830	13,700	9,670	12,200	8,900	4,000	1,200	1,020	481
8	2,890	11,600	9,400	8,780	12,200	8,380	9,660	9,050	4,490	1,170	844	456
9	2,650	11,400	10,400	8,570	11,400	7,980	8,320	9,090	4,710	1,190	773	443
10	2,460	10,500	10,700	8,860	10,400	7,850	7,780	8,410	3,910	1,160	712	439
11	2,330	9,150	11,400	13,500	9,070	7,660	7,350	7,240	5,770	1,200	675	511
12	2,190	7,620	12,200	15,500	8,010	11,800	7,020	6,550	7,800	1,200	678	1,770
13	2,080	6,550	12,300	14,100	7,860	18,600	6,760	6,280	5,340	1,130	693	1,570
14	1,990	6,400	10,900	14,700	7,980	18,400	6,500	6,120	5,320	1,060	652	1,990
15	2,020	6,630	9,270	16,200	8,720	18,200	6,270	6,360	6,110	1,050	707	2,830
16	2,240	6,020	9,360	17,000	8,810	22,300	6,100	6,240	5,350	1,040	1,030	2,020
17	2,410	5,420	9,730	15,800	8,300	24,500	5,940	5,760	4,680	995	1,040	1,340
18	2,580	5,000	10,700	13,800	8,130	23,900	5,830	5,420	4,460	955	878	1,010
19	2,740	4,630	11,500	12,700	8,510	23,500	5,930	5,190	3,950	1,350	786	892
20	2,610	4,950	11,200	11,500	9,050	23,000	6,410	5,000	3,470	1,220	754	869
21	2,340	5,600	10,200	11,000	9,300	21,800	6,490	4,830	3,350	1,060	750	833
22	2,150	5,850	9,030	10,800	9,430	22,700	6,560	4,690	3,140	960	730	796
23	2,000	5,700	7,810	9,760	17,100	23,500	6,700	4,790	2,660	961	681	752
24	1,930	5,360	7,200	8,640	26,700	24,700	10,100	4,600	2,490	972	642	741
25	1,860	5,510	7,700	8,060	28,700	23,700	15,600	4,640	2,590	935	607	764
26	1,800	5,540	7,960	7,680	27,300	19,700	16,500	5,170	2,420	879	565	762
27	1,750	6,260	8,750	7,250	31,700	17,400	16,300	5,640	2,140	827	538	752
28	1,730	6,740	9,410	7,510	37,800	20,700	17,800	5,250	1,920	802	520	746
29	1,710	6,120	8,970	7,760	-----	24,100	19,400	4,680	1,790	762	503	724
30	1,860	5,390	8,240	7,800	-----	23,700	20,100	4,280	1,730	751	541	699
31	2,040	-----	7,780	8,440	-----	22,400	-----	3,500	-----	737	599	-----
TOTAL	90,110	213,430	278,570	337,120	404,670	657,440	367,420	232,750	115,260	34,096	31,448	27,435
MEAN	2,907	7,114	8,986	10,870	14,450	21,210	12,250	7,508	3,842	1,100	1,014	915
MAX	7,540	16,000	12,300	17,000	37,800	42,800	24,700	19,700	7,800	1,650	5,560	2,830
MIN	1,710	1,980	5,040	7,250	7,860	7,660	5,830	3,500	1,730	737	503	439
CFSM	.59	1.44	1.82	2.21	2.93	4.30	2.49	1.52	.78	.22	.21	.19
IN.	.68	1.61	2.10	2.55	3.06	4.96	2.77	1.76	.87	.26	.24	.21

CAL YR 1974 TOTAL 2,718,030 MEAN 7.447 MAX 23,500 MIN 1,120 CFSM 1.51 IN 20.52  
WTR YR 1975 TOTAL 2,789,749 MEAN 7.643 MAX 42,800 MIN 439 CFSM 1.55 IN 21.06

PEAK DISCHARGE (BASE, 20,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
03-02	0100	25.19	43,500	04-02	2400	16.86	24,900
03-24	1800	16.85	24,900	04-30	1400	13.81	20,200

03373700 Lost River near West Baden Springs, Ind.

LOCATION.--Lat 38°35'10", long 86°38'03", in SW¼SE¼ sec.21, T.2 N., R.2 W., Orange County, on left bank 20 ft (6 m) downstream from bridge on U.S. Highway 150, 1.7 miles (2.7 km) northwest of West Baden Springs, 3.8 miles (6.1 km) downstream from Lick Creek, and at mile 34.8 (56.0 km).

DRAINAGE AREA.--287 mi<sup>2</sup> (743 km<sup>2</sup>).

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 (139.574 m) above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--10 years, 349 ft<sup>3</sup>/s (9.884 m<sup>3</sup>/s), 16.51 in/yr (419 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,550 ft<sup>3</sup>/s (185 m<sup>3</sup>/s) Feb. 24, gage height, 24.32 ft (7.413 m); minimum daily, 22 ft<sup>3</sup>/s (0.62 m<sup>3</sup>/s) Sept. 8, 9.

Period of record: Maximum discharge, 7,020 ft<sup>3</sup>/s (199 m<sup>3</sup>/s) July 22, 1973, gage height, 25.35 ft (7.727 m); minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Oct. 8, 1966.

Flood in March 1964 reached a stage of 28.1 ft (8.56 m), from floodmarks.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	106	383	850	1,260	1,180	1,680	732	231	52	28	49
2	472	216	521	769	1,180	878	1,210	635	287	48	26	33
3	342	803	624	724	998	736	860	571	237	46	26	28
4	269	2,060	584	761	808	644	655	535	182	44	163	25
5	224	3,520	501	625	802	591	550	482	224	43	121	24
6	192	3,010	439	536	766	548	484	402	712	42	85	23
7	166	2,300	566	465	663	508	432	701	467	41	57	23
8	145	1,600	1,300	451	570	515	379	1,130	283	40	42	22
9	128	972	1,150	556	504	449	334	1,200	192	39	34	22
10	115	607	816	724	433	428	311	794	154	37	30	25
11	102	571	644	1,760	399	426	288	558	485	35	28	35
12	93	647	570	1,750	388	1,490	260	450	831	33	26	60
13	89	566	538	1,340	380	2,080	235	381	619	33	24	70
14	87	519	476	832	351	1,760	219	335	402	32	23	58
15	168	491	461	613	325	1,300	223	292	323	35	31	48
16	240	433	598	524	310	1,320	208	254	245	31	251	40
17	197	384	576	451	308	1,430	194	225	205	30	203	35
18	156	349	501	768	341	1,290	184	204	231	30	101	31
19	133	495	455	999	334	1,660	592	184	186	34	64	28
20	117	1,310	430	737	290	1,680	576	168	148	43	46	30
21	105	1,010	398	586	264	1,400	376	153	125	48	39	33
22	96	662	357	503	371	1,190	274	137	110	36	34	30
23	89	511	332	441	2,180	1,110	479	164	98	31	30	28
24	85	531	376	405	6,000	1,550	2,310	127	88	28	29	27
25	80	685	475	397	4,630	1,570	4,990	111	79	27	27	30
26	78	596	458	421	2,740	1,220	3,730	118	73	26	25	31
27	72	507	403	395	2,060	953	2,510	266	69	25	24	29
28	66	439	371	350	1,570	1,930	1,850	235	88	24	23	27
29	70	385	351	355	-----	2,700	1,360	155	66	24	24	26
30	127	347	329	415	-----	2,740	910	152	56	24	48	25
31	130	-----	379	833	-----	2,220	-----	158	-----	26	64	-----
TOTAL	5,263	26,632	16,362	21,336	31,225	39,496	28,663	12,009	7,496	1,087	1,776	995
MEAN	170	888	528	688	1,115	1,274	955	387	250	35.1	57.3	33.2
MAX	830	3,520	1,300	1,760	6,000	2,740	4,990	1,200	831	52	251	70
MIN	66	106	329	350	264	426	184	111	56	24	23	22
CFSM	.59	3.09	1.84	2.40	3.89	4.44	3.33	1.35	.87	.12	.20	.12
IN.	.68	3.45	2.12	2.77	4.05	5.12	3.72	1.56	.97	.14	.23	.13

CAL YR 1974 TOTAL 193,022 MEAN 529 MAX 4,860 MIN 31 CFMS 1.84 IN 25.02  
WTR YR 1975 TOTAL 192,340 MEAN 527 MAX 6,000 MIN 22 CFMS 1.84 IN 24.93

PEAK DISCHARGE (BASE, 2,000 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-05	0900	22.42	3,660	03-29	2200	21.63	2,950
02-24	1000	24.32	6,550	04-25	1700	23.57	5,240
03-13	1000	19.47	2,110				



03374000 White River at Petersburg, Ind.

LOCATION.--Lat 38°30'39", long 87°17'22", in SE¼SW¼ sec.15, T.1 N., R.8 W., Pike County, on left bank 300 ft (91 m) downstream from bridge on State Highway 61, 0.4 mile (0.6 km) upstream from Prides Creek, 1.4 mile (2.3 km) north of Petersburg, and at mile 45.7 (73.5 km) (revised).

DRAINAGE AREA.--11,125 mi<sup>2</sup> (28,814 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1927 to current year. Monthly discharge only for October 1927, published in WSP 1305. Published as "at Hazleton" 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 National Weather Service.

WATER TEMPERATURE: June 1964 to current year.

GAGE.--Water-stage recorder with temperature attachment. Datum of gage is 400.00 ft (121.920 m) above mean sea level. See WSP 1725 for history of changes prior to Apr. 1, 1941.

AVERAGE DISCHARGE.--48 years, 11,540 ft<sup>3</sup>/s (326.8 m<sup>3</sup>/s), 14.09 in/yr (358 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14,400	3,980	9,560	17,700	23,800	77,000	47,700	44,600	9,080	5,130	2,800	4,270
2	13,300	4,090	10,000	19,200	27,400	78,700	48,800	42,500	8,220	4,900	2,690	3,800
3	11,800	5,280	10,500	21,200	30,000	76,500	50,600	38,700	8,320	4,610	2,770	3,340
4	10,200	11,400	11,400	22,800	32,000	71,500	50,300	34,300	8,640	4,360	4,090	3,190
5	8,330	21,700	12,400	23,400	34,000	61,900	46,500	28,800	9,440	4,140	6,740	3,000
6	6,980	26,000	12,100	22,900	34,200	48,800	39,400	23,400	16,500	3,950	6,930	2,730
7	6,150	26,400	12,300	21,000	31,200	35,600	31,600	20,300	15,000	3,830	5,950	2,520
8	5,540	22,800	16,300	18,900	27,500	25,200	25,100	20,700	11,500	3,730	4,570	2,370
9	5,100	20,600	19,300	19,600	24,800	20,500	21,000	21,700	9,940	3,670	3,880	2,280
10	4,770	18,800	20,800	21,900	22,900	18,700	18,500	20,900	9,410	3,770	3,400	2,200
11	4,490	17,200	20,900	30,900	21,000	18,400	17,000	18,800	10,000	3,750	3,060	2,250
12	4,280	15,700	21,000	34,500	18,900	25,700	16,000	15,700	13,700	3,600	2,820	3,600
13	4,150	13,700	21,400	36,700	17,800	34,300	15,200	14,300	13,000	3,550	2,660	4,450
14	4,020	12,200	21,000	38,200	18,500	38,100	14,400	14,100	10,600	3,430	2,600	4,650
15	4,110	11,700	19,300	39,900	19,000	41,400	13,700	13,200	9,910	3,280	2,690	4,400
16	4,360	11,800	18,400	41,600	18,600	43,300	13,200	12,600	10,100	3,180	3,690	4,520
17	4,700	11,200	18,400	42,300	18,100	44,800	12,800	11,900	9,600	3,140	3,910	3,980
18	4,770	10,300	19,100	39,700	17,900	45,100	12,500	11,100	10,100	3,070	3,680	3,340
19	4,680	9,730	20,300	32,400	18,000	45,800	12,600	10,500	9,730	3,050	3,690	2,940
20	4,610	11,700	20,900	26,300	18,300	45,300	13,800	10,200	8,960	4,110	3,250	2,760
21	4,460	10,900	20,500	23,000	19,000	44,000	15,100	9,780	8,150	5,640	3,200	2,630
22	4,180	10,700	18,800	21,200	20,400	44,000	15,100	9,360	7,750	5,280	2,930	2,530
23	3,950	10,100	16,600	19,900	32,200	43,600	15,400	9,160	7,060	4,720	2,680	2,460
24	3,770	10,200	14,900	18,200	43,500	44,600	21,000	9,550	6,280	4,120	2,510	2,430
25	3,660	12,000	14,800	16,500	49,500	44,200	30,800	9,420	5,950	3,740	2,360	2,390
26	3,630	13,100	15,700	15,800	55,700	42,100	35,100	10,300	5,850	3,420	2,260	2,350
27	3,500	12,300	16,400	15,300	62,200	39,000	37,200	10,900	5,680	3,190	2,210	2,380
28	3,420	11,700	17,400	15,300	69,600	38,600	39,400	11,300	5,360	3,040	2,500	2,320
29	3,390	11,200	18,000	16,000	-----	41,300	41,600	11,300	5,470	2,930	2,580	2,300
30	3,590	10,200	16,900	16,800	-----	44,300	43,700	10,600	5,240	2,820	3,580	2,260
31	3,750	-----	15,500	20,100	-----	46,400	-----	9,830	-----	2,780	4,040	-----
TOTAL	172,040	398,680	520,860	769,200	826,000	1,368,7M	815,100	539,800	274,540	117,930	106,720	90,640
MEAN	5,550	13,290	16,800	24,810	29,500	44,150	27,170	17,410	9,151	3,804	3,443	3,021
MAX	14,400	26,400	21,400	42,300	69,600	78,700	50,600	44,600	16,500	5,640	6,930	4,650
MIN	3,390	3,980	9,560	15,300	17,800	18,400	12,500	9,160	5,240	2,780	2,210	2,200
CFSM	.50	1.19	1.51	2.23	2.65	3.97	2.44	1.56	.82	.34	.31	.27
IN.	.58	1.33	1.74	2.57	2.76	4.58	2.73	1.80	.92	.39	.36	.30
CAL YR 1974	TOTAL 6,191,620	MEAN 16,960	MAX 57,400	MIN 3,090	CFSM 1.52	IN 20.70						
WTR YR 1975	TOTAL 6,000,210	MEAN 16,440	MAX 78,700	MIN 2,200	CFSM 1.48	IN 20.06						



## 03374000 White River at Petersburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 79,000 ft<sup>3</sup>/s (2,240 m<sup>3</sup>/s) Mar. 2, gage height, 23.80 ft (7.254 m); minimum daily, 2,200 ft<sup>3</sup>/s (62.3 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 183,000 ft<sup>3</sup>/s (5,180 m<sup>3</sup>/s) Jan. 22, 1937, gage height, 28.3 ft (8.63 m) present datum, 31.58 ft (9.626 m) site and datum then in use; minimum daily, 573 ft<sup>3</sup>/s (16.2 m<sup>3</sup>/s) Oct. 1, 1941.

Flood in March 1913, reached a stage of 29.5 ft (8.99 m), present site and datum, from floodmarks by Corps of Engineers. Discharge, 235,000 ft<sup>3</sup>/s (6,660 m<sup>3</sup>/s).

WATER TEMPERATURE, Current year: Maximum temperature, 33.5°C Aug. 23-26; minimum, 4.0°C Dec. 12-16, 21-23.

Period of record: Maximum temperature, 34.0°C July 21, 22, 1972; minimum, freezing point on many days during most winter periods prior to 1967.

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 2109: Drainage area.

## TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	19.0	20.5	19.5	7.0	6.5	6.5	6.5	8.5	8.0	6.5	6.5
2	19.0	18.5	21.0	20.5	6.5	6.0	6.5	6.5	8.5	8.0	6.5	6.0
3	18.5	18.0	21.0	21.0	6.5	6.0	6.5	6.5	8.0	8.0	6.0	5.5
4	18.0	18.0	21.0	19.0	6.0	6.0	6.5	6.0	8.0	8.0	5.5	5.5
5	18.0	18.0	19.0	18.0	6.0	5.0	6.0	6.0	8.0	7.0	6.0	5.5
6	18.0	18.0	18.0	16.0	5.0	4.5	6.0	5.5	7.0	6.5	6.5	6.0
7	18.5	18.0	16.0	14.5	4.5	4.5	5.5	5.5	6.5	6.5	7.0	6.5
8	18.5	18.5	14.5	13.5	4.5	4.5	6.5	5.5	6.5	6.5	8.0	7.0
9	18.5	18.5	13.5	12.0	4.5	4.5	8.0	6.5	6.5	6.0	8.5	8.0
10	19.0	18.5	13.0	12.0	4.5	4.5	9.5	8.0	6.0	5.5	9.0	8.5
11	19.5	19.0	12.0	12.0	4.5	4.5	10.0	9.5	6.0	5.5	9.0	8.5
12	20.0	19.5	12.0	12.0	4.5	4.0	10.0	9.0	6.0	5.5	9.0	8.0
13	20.0	20.0	12.0	11.5	4.0	4.0	9.0	8.0	6.0	5.5	8.0	8.0
14	20.0	20.0	11.5	11.0	4.0	4.0	8.0	6.5	6.0	6.0	8.0	6.5
15	20.0	20.0	11.5	10.5	4.0	4.0	6.5	5.5	6.5	6.0	6.5	6.5
16	20.0	19.0	10.5	10.0	4.5	4.0	5.5	5.0	7.0	6.5	6.5	6.5
17	19.0	18.5	10.0	10.0	4.5	4.5	5.0	4.5	8.0	7.0	6.5	6.0
18	19.0	18.5	10.5	10.0	4.5	4.5	4.5	4.5	8.0	7.0	7.0	6.5
19	18.5	18.0	11.0	10.5	4.5	4.5	4.5	4.5	8.0	8.0	8.5	7.0
20	18.0	18.0	11.5	10.5	4.5	4.5	5.0	4.5	8.0	8.0	10.0	8.5
21	18.0	16.5	11.5	11.0	4.5	4.0	5.5	5.0	8.0	8.0	10.5	10.0
22	16.5	15.5	11.0	10.5	4.0	4.0	5.5	5.5	8.0	8.0	11.5	10.5
23	16.0	15.5	10.5	10.0	4.5	4.0	5.5	5.5	8.0	8.0	13.0	11.5
24	16.5	16.0	11.0	10.5	6.0	4.5	6.0	5.5	8.5	8.0	13.5	13.0
25	17.0	16.5	11.0	10.5	6.0	6.0	6.5	6.0	8.0	7.0	13.5	13.0
26	17.0	17.0	10.5	9.5	6.0	6.0	7.0	6.5	8.0	7.0	13.0	12.0
27	17.0	17.0	9.5	8.5	6.0	6.0	8.0	7.0	8.0	7.0	12.0	11.0
28	17.0	16.5	8.5	8.0	6.0	5.5	8.0	7.0	7.0	6.5	11.0	10.5
29	17.0	17.0	8.0	7.0	5.5	5.5	8.5	8.0	---	---	10.5	10.0
30	17.0	17.0	7.0	7.0	6.0	5.5	8.5	8.5	---	---	10.0	9.5
31	19.5	17.0	---	---	6.5	6.0	8.5	8.5	---	---	9.5	9.5
MONTH	20.0	15.5	21.0	7.0	7.0	4.0	10.0	4.5	8.5	5.5	13.5	5.5

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

## WABASH RIVER BASIN

03374100 White River at Hazleton, Ind.

LOCATION.--Lat 38°29'23", long 87°33'00", in SE 1/4 sec. 29, T.1 N., R.10 W., Gibson County, on downstream side of county road bridge (Old U.S. 41) at Hazleton, and at mile 18.7 (30.1 km).

DRAINAGE AREA.--11,305 mi<sup>2</sup> (29,280 km<sup>2</sup>).

PERIOD OF RECORD.--CHEMICAL ANALYSES: February 1973 to current year.

WATER TEMPERATURE: October 1973 to current year.

SEDIMENT DISCHARGE: October 1973 to current year.

EXTREMES.--SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 627 micromhos Aug. 30; minimum, 192 micromhos Nov. 6.

Period of record: Maximum conductance, 754 micromhos Nov. 5, 6, 1973; minimum, 192 micromhos Nov. 6, 1974.

WATER TEMPERATURE, Current year: Maximum temperature, 32.0°C July 30, Aug. 24; minimum, 1.5°C Jan. 18, 19.

Period of record: Maximum temperature, 32.0°C July 30, Aug. 24, 1975; minimum, 1.5°C Jan. 3-5, 1974, Jan. 18, 19, 1975.

REMARKS.--Water discharge obtained from station White River at Petersburg (See sta 03374000).

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]



03374100 White River at Hazleton, Ind.--Continued

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	19.0	18.0	24.0	23.0	31.0	29.0	30.5	29.0	26.0	24.5
2	10.5	9.5	19.0	18.0	24.0	23.0	31.5	28.5	29.5	28.5	26.5	25.0
3	10.0	8.5	19.0	18.5	24.5	23.5	31.5	29.0	29.5	27.5	27.5	25.5
4	9.0	8.5	19.0	17.5	24.5	23.5	31.0	29.0	27.5	26.5	30.0	26.0
5	8.5	8.5	19.0	18.0	24.5	24.0	30.5	28.5	27.0	26.0	28.5	26.0
6	---	---	19.0	18.5	24.5	23.5	29.5	28.0	26.0	24.5	26.5	25.0
7	---	---	19.0	19.0	24.0	23.5	29.0	27.5	25.0	24.0	26.0	24.0
8	---	---	19.0	18.5	24.0	23.0	30.0	27.5	26.0	24.0	25.5	24.5
9	---	---	18.5	18.5	23.5	23.0	30.5	28.0	27.5	25.0	25.5	24.5
10	---	---	19.0	18.0	23.5	23.0	30.0	28.5	28.5	26.0	25.5	24.0
11	---	---	19.0	18.5	24.0	23.0	29.0	27.0	29.5	26.5	25.5	24.5
12	---	---	19.5	19.0	23.5	23.0	27.5	26.5	30.0	28.0	24.5	23.0
13	---	---	19.5	18.5	23.5	23.0	27.0	26.0	30.5	29.0	22.5	21.0
14	---	---	20.0	19.0	24.0	23.0	26.0	24.5	30.0	28.5	21.0	20.0
15	---	---	20.0	19.0	24.5	23.5	26.5	24.5	29.5	28.0	21.0	20.5
16	---	---	20.5	19.5	24.5	23.5	27.5	25.5	28.5	27.5	21.5	20.5
17	---	---	20.5	19.5	25.0	24.5	29.0	26.0	28.5	26.0	22.5	21.0
18	---	---	21.5	20.0	26.0	24.0	29.5	27.0	29.5	26.5	23.0	21.5
19	---	---	22.5	21.0	27.0	25.5	29.0	27.0	30.5	28.0	22.5	22.0
20	---	---	23.5	22.0	28.0	26.5	27.5	26.5	31.0	29.0	22.5	21.0
21	---	---	24.5	23.0	29.0	27.0	28.0	25.5	31.0	29.5	21.5	20.5
22	15.5	8.0	25.5	24.0	30.0	28.0	28.5	26.0	31.0	30.0	20.5	20.0
23	15.5	15.0	26.5	25.0	30.5	28.0	30.0	27.5	31.5	29.5	19.5	19.0
24	15.5	15.0	26.5	25.5	30.0	28.0	30.5	28.0	32.0	30.0	18.5	16.5
25	15.5	15.5	26.0	25.5	30.5	28.0	31.0	28.0	31.0	30.0	16.0	15.0
26	16.5	15.5	26.5	25.0	30.5	28.5	30.5	28.0	30.5	29.0	15.5	15.0
27	16.5	15.5	26.5	26.0	31.0	28.0	30.5	28.0	30.5	28.5	17.5	15.0
28	17.0	16.0	26.5	25.5	31.0	29.0	30.5	29.0	31.0	29.5	18.5	16.0
29	18.5	17.0	26.0	25.0	31.5	29.0	31.5	29.0	30.5	29.5	18.5	17.0
30	18.5	18.0	25.0	24.5	31.5	29.0	32.0	30.0	29.0	26.5	19.5	18.0
31	---	---	24.5	23.5	---	---	31.5	29.5	27.5	25.0	---	---
MONTH	---	---	26.5	17.5	31.5	23.0	32.0	24.5	32.0	24.0	30.0	15.0
YEAR	32.0	1.5										

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE 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
OCT...								
02...	1030	15.0	14300	235	9070	--	--	--
NOV...								
06...	1030	13.0	23200	255	16000	--	--	--
DEC...								
10...	1200	5.0	20300	168	9210	--	--	--
JAN...								
15...	1545	3.5	39000	135	14200	--	--	--
FEB...								
20...	1730	6.0	18100	58	2830	--	--	--
MAR...								
19...	1630	8.0	45300	102	12500	62	69	75
APR...								
22...	0930	14.5	14900	153	6160	--	--	--
MAY...								
21...	1100	24.0	9710	219	5740	--	--	--
JUNE...								
24...	1015	28.0	6550	137	2420	--	--	--
JULY...								
30...	1130	30.5	980	83	220	--	--	--
AUG...								
27...	1515	30.4	2320	65	407	--	--	--

03374100 White River at Hazleton, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.							
02...	--	--	--	--	--	--	--
NOV.							
06...	--	--	--	--	--	--	--
DEC.							
10...	--	--	--	--	--	--	--
JAN.							
15...	--	--	--	--	--	--	--
FEB.							
20...	--	--	--	--	--	--	--
MAR.							
19...	78	81	82	82	82	84	100
APR.							
22...	--	--	--	--	--	--	--
MAY							
21...	--	--	--	--	--	--	--
JUNE							
24...	--	--	--	--	--	--	--
JULY							
30...	--	--	--	--	--	--	--
AUG.							
27...	--	--	--	--	--	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED OXYGEN (MG/L)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
OCT.												
02...	1030	15.0	14300	90	400	8.1	7.6	6.9	140	171	0	2.1
NOV.												
06...	1030	13.0	23200	100	345	--	7.0	20	103	125	0	2.0
DEC.												
10...	1200	5.0	20300	50	360	11.2	7.5	7.3	119	145	0	2.3
JAN.												
15...	1545	3.5	39000	100	300	11.6	7.6	5.5	112	137	0	2.5
FEB.												
20...	1730	6.0	18100	30	520	11.2	7.6	7.8	159	194	0	2.9
MAR.												
19...	1630	8.0	45300	80	360	10.3	7.6	5.1	105	128	0	2.6
APR.												
22...	0930	14.5	14900	60	460	9.2	7.3	13	135	164	0	2.3
MAY												
21...	1100	24.0	9710	33	490	9.8	8.1	2.8	180	219	0	2.1
JUNE												
24...	1015	28.0	6550	72	510	7.4	7.6	8.7	177	216	0	3.3
JULY												
30...	1130	30.5	980	25	520	8.2	8.0	3.6	183	223	0	1.2
AUG.												
27...	1515	30.4	2320	20	575	10.8	8.6	.8	164	200	0	1.0

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
MAY											
21...	1100	1	1	2	0	0	0	0	20	20	0
AUG.											
27...	1515	1	1	2	0	1	1	0	<10	<10	0



03374100 White River at Hazleton, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS- PENDE D COBAL T (CO) (UG/L)	TOTAL COBAL T (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
MAY 21...	1	1	0	10	10	1900	50	0	5	5	150
AUG. 27...	2	2	10	0	10	870	10	3	8	11	140

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED MERCURY (MG) (UG/L)	SUS- PENDE D MERCURY (MG) (UG/L)	TOTAL MERCURY (MG) (UG/L)
MAY 21...	160	10	10	0	10	0	1	1	<.5	.0	<.5
AUG. 27...	150	10	10	0	10	0	0	0	<.5	.0	<.5

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM
OCT. 02...	.66	1.4	.25	--	190	48	54	13	8.3	.3	9
NOV. 06...	.89	1.1	.34	8.4	150	43	40	11	8.4	.3	11
DEC. 10...	.85	1.4	.19	--	170	48	47	12	9.0	.3	10
JAN. 15...	.74	1.8	.27	--	160	44	43	12	6.7	.2	8
FEB. 20...	.47	2.4	.15	--	210	49	57	16	12	.4	11
MAR. 19...	.70	1.9	.20	--	150	44	40	12	7.0	.3	9
APR. 22...	.64	1.7	.14	--	190	57	52	15	9.3	.3	9
MAY 21...	.77	1.3	.17	--	230	48	60	19	10	.3	9
JUNE 24...	.66	2.6	.31	--	230	53	61	19	12	.3	10
JULY 30...	1.0	.22	.08	--	240	57	58	23	16	.5	13
AUG. 27...	1.0	.02	.10	5.4	230	70	54	24	20	.6	15

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	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)	TOTAL NITRO- GEN (NO3) (MG/L)
OCT. 02...	2.2	12	45	.2	7.5	--	239	227	9230	.33	9.1
NOV. 06...	4.8	13	45	.2	6.8	2700	218	191	13700	.30	8.8
DEC. 10...	2.2	14	48	.1	7.5	--	235	211	12900	.32	10
JAN. 15...	2.5	10	35	.1	7.0	1300	210	184	22100	.29	11
FEB. 20...	2.0	19	50	.2	7.5	830	253	259	12400	.34	13
MAR. 19...	2.1	13	38	.2	6.2	300	202	182	24700	.27	12
APR. 22...	1.9	14	64	.2	5.8	3300	280	243	11300	.38	10
MAY 21...	2.0	15	53	.1	5.3	33000	311	272	8150	.42	9.2
JUNE 24...	2.7	18	56	.4	7.5	14000	343	283	6070	.47	14
JULY 30...	2.6	22	60	.2	1.3	39000	345	293	913	.47	5.4
AUG. 27...	3.2	26	65	.1	.3	110000	318	291	1990	.43	4.5

03374455 Patoka River near Hardinsburg, Ind.

LOCATION (revised).--Lat 38°26'41", long 86°23'14", in NW¼ sec.10, T.1 S., R.1 E., Orange County, on downstream edge of center pier of county road bridge, 0.3 mile (0.5 km) downstream from Fudge Creek, 0.7 mile (1.1 km) northeast of Valeene, 6.0 miles (9.7 km) southwest of Hardinsburg, and at mile 158.0 (254.2 km).

DRAINAGE AREA.--12.8 mi<sup>2</sup> (33.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 606.89 ft (184.980 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 24.9 ft<sup>3</sup>/s (0.705 m<sup>3</sup>/s), 26.42 in/yr (671 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,910 ft<sup>3</sup>/s (54.1 m<sup>3</sup>/s) Apr. 24, gage height, 8.12 ft (2.475 m); minimum daily, no flow Aug. 27, 28.

Period of record: Maximum discharge, 1,910 ft<sup>3</sup>/s (54.1 m<sup>3</sup>/s) Apr. 24, 1975, gage height, 8.12 ft (2.475 m); no flow for several days in 1971, 1972, 1975.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	2.1	18	74	78	25	37	46	31	.63	.15	.22
2	7.2	2.5	35	41	84	21	29	33	12	.62	.30	.17
3	5.2	19	40	49	52	17	26	26	9.0	.57	.60	.14
4	4.3	267	29	41	46	14	20	23	6.5	.54	2.5	.11
5	3.5	78	22	30	50	13	17	18	5.3	.50	3.0	.11
6	3.0	33	19	26	45	12	15	33	5.0	.50	3.7	.20
7	2.6	22	55	21	33	37	13	199	3.8	.50	1.0	.16
8	2.3	16	91	22	27	31	12	136	3.1	.46	.37	.08
9	1.9	12	46	37	22	23	11	85	2.5	.44	.20	.04
10	1.7	10	32	201	18	22	11	45	3.6	.42	.17	.03
11	1.5	24	26	300	18	28	10	30	29	.40	.14	.10
12	1.4	31	26	68	47	381	9.3	22	15	.38	.15	1.0
13	1.3	22	23	42	33	87	8.3	16	7.7	.40	.20	.70
14	1.2	19	19	30	26	57	7.1	13	5.2	.40	.17	.45
15	9.0	16	29	24	22	57	10	11	4.0	.38	.50	.30
16	7.9	12	38	20	20	71	8.0	8.7	3.1	.38	3.0	.25
17	5.2	11	29	16	27	55	7.0	7.4	3.5	.43	1.0	.23
18	4.0	9.4	22	80	26	83	8.3	6.4	6.2	.60	3.0	.21
19	3.5	11	26	54	21	166	40	5.5	3.3	3.0	1.0	.50
20	3.1	21	23	38	18	64	25	4.7	2.3	1.5	.20	.50
21	2.7	16	20	30	16	43	18	4.1	1.7	.80	.06	.40
22	2.5	11	16	25	24	68	15	3.7	1.4	.53	.05	.30
23	2.5	9.8	14	22	953	74	66	3.2	1.3	.43	.04	.25
24	2.3	25	37	21	243	220	768	2.8	1.2	.42	.04	.33
25	2.1	37	44	23	78	69	558	2.5	1.1	.36	.03	1.8
26	2.1	24	32	22	52	41	118	28	1.0	.28	.02	1.6
27	2.1	19	27	17	39	44	60	28	.99	.17	0	1.0
28	2.1	15	24	16	32	390	43	7.2	.87	.70	0	.70
29	1.9	11	21	18	-----	272	33	4.9	.79	2.5	.01	.50
30	2.1	11	18	26	-----	82	25	6.0	.67	.40	1.0	.40
31	1.9	-----	36	122	-----	49	-----	22	-----	.17	.30	-----
TOTAL	105.1	816.8	937	1,556	2,150	2,616	2,028.0	881.1	172.12	19.81	22.90	12.78
MEAN	3.39	27.2	30.2	50.2	76.8	84.4	67.6	28.4	5.74	.64	.74	.43
MAX	11	267	91	300	953	390	768	199	31	3.0	3.7	1.8
MIN	1.2	2.1	14	16	16	12	7.0	2.5	.67	.17	0	.03
CFSM	.26	2.13	2.36	3.92	6.00	6.59	5.28	2.22	.45	.05	.06	.03
IN.	.31	2.37	2.72	4.52	6.25	7.60	5.89	2.56	.50	.06	.07	.04

CAL YR 1974 TOTAL 9,983.63 MEAN 27.4 MAX 343 MIN .58 CFSM 2.14 IN 29.01  
WTR YR 1975 TOTAL 11,317.61 MEAN 31.0 MAX 953 MIN 0 CFSM 2.42 IN 32.89

PEAK DISCHARGE (BASE, 500 FT<sup>3</sup>/S) (revised)

NOTE.--No gage-height record  
July 2 to Sept. 30.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1430	5.09	659	03-28	0215	6.03	991
01-11	0030	5.60	835	04-24	0930	8.12	1,910
02-23	1700	7.73	1,720	04-25	0530	6.52	1,180
03-12	0700	6.34	1,110	05-07	0045	5.11	666

## WABASH RIVER BASIN

03374470 Patoka River near English, Ind.

LOCATION.--Lat 38°26'26", long 86°27'21", in SW¼SW¼ sec.7, T.1 S., R.1 E., Orange County, at bridge on State Highway 37, 1 mile (1.6 km) upstream from Hogs Defeat Creek, 8.0 miles (12.8 km) north of English, 8.7 miles (14.0 km) south of Paoli, and at mile 150.9 (242.8 km).

DRAINAGE AREA.--30.8 mi<sup>2</sup> (79.77 km<sup>2</sup>).

PERIOD OF RECORD.--CHEMICAL ANALYSES: July 1969 to current year.

WATER TEMPERATURES: August 1970 to current year.

EXTREMES.--WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C (recorded rangeline) (observed) Aug. 23-25, 2.0°C Jan. 14, 15.

Period of record: Maximum temperature, 33.0°C July 23, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Discharge measurements only to bankfull stage.

## TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	5.5	5.5	8.0	6.5	---	---	8.5	8.0
2	---	---	---	---	6.5	5.5	6.5	5.0	---	---	8.0	5.5
3	---	---	---	---	6.5	6.0	5.0	4.5	---	---	5.5	5.0
4	---	---	---	---	6.5	6.0	4.5	4.0	---	---	5.5	4.5
5	---	---	---	---	6.0	5.0	4.5	4.0	---	---	5.5	5.0
6	---	---	---	---	5.5	4.5	5.0	4.5	---	---	7.0	5.5
7	---	---	---	---	8.0	5.5	5.5	4.5	---	---	8.5	7.0
8	---	---	10.5	---	8.0	7.0	7.0	5.5	---	---	8.5	7.0
9	---	---	10.5	9.5	7.0	5.5	7.0	6.5	---	---	7.0	5.5
10	---	---	10.0	9.5	5.5	4.0	9.0	7.0	---	---	6.0	5.5
11	---	---	11.0	10.0	6.0	5.0	8.5	7.0	---	---	7.0	6.0
12	---	---	10.5	9.5	6.5	5.5	7.0	5.5	---	---	8.5	6.5
13	---	---	9.5	9.0	7.0	6.5	5.5	3.0	---	---	8.0	6.5
14	---	---	9.0	8.0	7.0	6.5	3.0	2.0	---	---	6.5	6.0
15	---	---	8.0	7.0	7.0	6.5	3.5	2.0	---	---	8.0	5.5
16	---	---	8.0	6.5	7.0	6.5	4.5	3.5	---	---	8.0	6.5
17	---	---	8.5	8.0	6.5	5.5	4.0	3.0	---	---	8.0	7.0
18	---	---	9.0	8.0	5.5	5.0	---	---	---	---	9.0	8.0
19	---	---	10.5	9.0	6.0	5.0	---	---	---	---	9.0	8.5
20	---	---	11.0	10.0	6.0	5.0	---	---	---	---	10.5	8.5
21	---	---	10.0	8.0	6.0	5.5	---	---	7.0	5.5	11.0	9.5
22	---	---	8.0	7.0	5.5	5.0	---	---	8.0	6.5	11.5	11.0
23	---	---	8.5	6.5	8.0	5.5	---	---	9.5	8.0	11.5	9.5
24	---	---	9.5	8.5	9.0	8.0	---	---	9.5	8.5	11.5	11.0
25	---	---	9.5	8.5	9.0	6.5	---	---	8.5	7.0	11.0	8.5
26	---	---	8.5	6.5	6.5	5.5	---	---	8.5	7.0	9.0	7.0
27	---	---	6.5	6.0	6.0	5.5	---	---	8.5	7.0	9.0	8.0
28	---	---	6.0	5.5	6.5	6.0	---	---	9.0	8.0	9.5	8.0
29	---	---	5.5	5.0	7.0	6.5	---	---	---	---	10.0	9.0
30	---	---	6.0	5.5	8.0	7.0	---	---	---	---	9.5	8.5
31	---	---	---	---	8.0	8.0	---	---	---	---	9.5	8.0
MONTH	---	---	---	---	9.0	4.0	---	---	---	---	11.5	4.5

[illegible]

## WABASH RIVER BASIN

03374470 Patoka River near English, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	COLOR (PLAT- INUM- COBALT UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.										
03...	1115	10.0	12	1	340	7.2	19	158	193	0
NOV.										
08...	1130	10.0	33	2	320	7.8	4.2	136	166	0
DEC.										
12...	1130	7.0	52	6	270	9.0	.2	119	145	0
JAN.										
17...	1145	3.5	30	6	270	7.6	5.9	120	146	0
FEB.										
21...	1145	6.0	31	9	300	7.8	3.5	113	138	0
MAR.										
20...	1015	8.0	151	8	225	7.1	13	81	99	0
APR.										
24...	1745	17.0	2810	120	130	7.4	2.9	37	45	0
MAY										
23...	1215	24.0	7.7	2	350	7.9	3.4	140	171	0
JUNE										
26...	1030	23.5	2.7	2	370	7.5	9.8	158	193	0
AUG.										
01...	1100	23.0	.55	3	342	7.3	14	146	178	0
28...	1345	26.5	.14	1	325	7.8	4.6	148	180	0

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT.										
03...	.00	.43	.43	.00	.01	.00	190	32	68	5.0
NOV.										
08...	.01	.58	.59	.03	.00	--	160	23	56	4.7
DEC.										
12...	.00	.50	.50	.00	.01	.00	150	29	51	4.9
JAN.										
17...	.01	.57	.58	.03	.01	.01	140	22	49	4.7
FEB.										
21...	.00	.47	.47	.00	.01	.00	130	21	46	4.8
MAR.										
20...	.03	.47	.50	.03	.01	.01	99	18	35	2.8
APR.										
24...	.01	.39	.40	.00	.17	.00	55	18	19	1.8
MAY										
23...	.02	.25	.27	.00	.01	.00	170	28	58	5.6
JUNE										
26...	.01	.42	.43	.06	--	.02	170	10	57	6.3
AUG.										
01...	.01	.11	.12	.03	.03	.01	170	20	55	7.0
28...	.01	.10	.11	.03	.03	.01	190	40	62	8.0

03374470 Patoka River near English, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT.										
03...	2.5	.1	3	1.0	3.1	25	.1	7.8	200	90
NOV.										
08...	2.7	.1	4	.8	3.8	24	.1	8.4	230	40
DEC.										
12...	3.0	.1	4	1.0	2.0	25	.1	7.6	300	30
JAN.										
17...	2.4	.1	4	.6	1.4	23	.2	7.3	200	440
FEB.										
21...	3.0	.1	5	.9	4.1	26	.0	6.6	230	30
MAR.										
20...	2.3	.1	5	1.0	2.2	22	.2	7.2	1300	30
APR.										
24...	1.1	.1	4	1.5	.9	13	.1	5.4	5100	60
MAY										
23...	2.7	.1	3	1.2	2.3	28	.1	4.0	230	70
JUNE										
26...	3.3	.1	4	1.5	3.7	25	.2	4.8	460	40
AUG.										
01...	3.7	.1	5	1.5	2.4	24	.2	3.6	220	50
28...	3.2	.1	4	2.3	3.2	22	.0	5.1	230	50

DATE	SUS- PENDED MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	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)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)
OCT.									
03...	10	50	40	216	210	7.00	.29	1.9	.00
NOV.									
08...	0	30	40	193	185	17.2	.26	2.6	.03
DEC.									
12...	20	60	40	177	168	24.9	.24	2.2	.00
JAN.									
17...	0	40	40	185	164	15.0	.25	2.5	.03
FEB.									
21...	10	40	30	155	162	13.0	.21	2.1	.00
MAR.									
20...	350	360	10	134	124	54.6	.18	2.1	.10
APR.									
24...	320	340	20	80	67	607	.11	1.7	.03
MAY									
23...	10	30	20	205	187	4.26	.28	1.1	.07
JUNE									
26...	10	50	40	225	199	1.64	.31	1.9	.03
AUG.									
01...	20	120	100	221	186	.33	.30	.49	.03
28...	10	120	110	190	195	.07	.26	.44	.03



03374500 Patoka River near Ellsworth, Ind.

LOCATION.--Lat 38°26'29", long 86°43'31", in SW¼SE¼ sec.10, T.1 S., R.3 W., Dubois County, on right bank 200 ft (61 m) upstream from county road bridge, 1.0 mile (1.6 km) northwest of Ellsworth, 2.8 miles (4.5 km) (revised) upstream from Dillon Creek, 4 miles (6 km) east of Dubois, and at mile 116.1 (186.8 km).

DRAINAGE AREA.--171 mi<sup>2</sup> (443 km<sup>2</sup>).

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft (145.390 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--14 years, 220 ft<sup>3</sup>/s (6.230 m<sup>3</sup>/s), 17.47 in/yr (444 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,410 ft<sup>3</sup>/s (182 m<sup>3</sup>/s) Apr. 25, gage height, 16.55 ft (5.044 m); minimum daily, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 10, as a result of construction at upstream dam site.

Period of record: Maximum discharge, 14,700 ft<sup>3</sup>/s (416 m<sup>3</sup>/s) Mar. 10, 1964, gage height, 20.02 ft (6.102 m); no flow Oct. 30, 1964.

Flood in March 1913 reached a stage of 19.1 ft (5.82 m) according to information by local resident, discharge, 12,300 ft<sup>3</sup>/s (348 m<sup>3</sup>/s).

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	43	235	656	1,150	323	1,100	318	277	12	7.0	9.8
2	137	91	369	602	1,120	254	408	356	259	11	13	7.7
3	87	435	445	519	839	203	316	272	184	9.3	24	6.1
4	63	1,260	379	532	542	168	261	215	137	8.7	99	5.1
5	48	2,050	295	390	535	153	216	181	96	8.1	125	4.3
6	39	1,700	235	304	527	134	185	143	84	8.1	141	3.9
7	34	1,350	400	249	404	270	163	128	72	8.1	51	3.6
8	28	515	1,050	259	313	389	147	369	55	7.6	20	3.4
9	25	226	939	416	259	312	135	538	43	7.6	13	1.7
10	21	168	508	596	205	262	135	474	37	7.6	9.7	.50
11	18	253	338	1,450	188	303	128	259	305	7.6	7.7	16
12	17	379	293	1,430	326	1,190	116	180	619	7.0	8.3	39
13	15	375	263	1,320	399	1,610	105	136	295	7.6	12	29
14	14	318	224	677	302	1,440	89	110	133	7.6	9.8	18
15	45	256	244	294	248	1,160	121	91	87	7.0	16	12
16	103	202	370	243	217	951	97	80	67	7.0	161	9.8
17	103	159	348	197	224	818	87	69	60	8.7	60	8.9
18	74	133	274	513	246	606	91	61	176	9.3	170	8.3
19	55	134	247	814	230	1,140	332	54	97	68	81	19
20	44	410	235	561	188	1,150	382	48	63	96	31	19
21	37	338	215	366	158	811	245	43	44	24	19	15
22	31	224	181	291	231	723	183	38	30	13	14	12
23	28	160	153	246	1,820	738	499	55	26	10	11	9.6
24	27	291	233	219	4,130	1,170	2,890	56	21	9.4	9.3	12
25	27	470	366	224	4,020	1,240	5,450	41	19	8.5	8.5	66
26	33	388	362	237	2,850	992	4,430	41	16	7.7	7.6	61
27	31	286	295	201	1,600	483	2,610	602	14	7.0	6.7	39
28	26	219	262	169	645	1,260	1,660	413	14	38	6.2	28
29	27	169	229	163	-----	1,890	660	173	22	94	11	21
30	43	139	203	204	-----	2,060	306	329	14	9.9	40	16
31	45	-----	245	820	-----	1,850	-----	231	-----	16	15	-----
TOTAL	1,622	13,141	10,435	15,162	23,916	26,053	23,547	6,104	3,366	551.4	1,207.8	504.70
MEAN	52.3	438	337	489	854	840	785	197	112	17.8	39.0	16.8
MAX	297	2,050	1,050	1,450	4,130	2,060	5,450	602	619	96	170	66
MIN	14	43	153	163	158	134	87	38	14	7.0	6.2	.50
CFSM	.31	2.56	1.97	2.86	4.99	4.91	4.59	1.15	.66	.10	.23	.10
IN.	.35	2.86	2.27	3.30	5.20	5.67	5.12	1.33	.73	.12	.26	.11

CAL YR 1974 TOTAL 105,770.00 MFAN 290 MAX 2,050 MIN 3.5 CFSM 1.70 IN 23.01  
WTR YR 1975 TOTAL 125,609.90 MEAN 344 MAX 5,450 MIN .50 CFSM 2.01 IN 27.33

PEAK DISCHARGE (BASE, 1,200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-05	0900	13.42	2,140	03-19	1700	10.33	1,200
01-11	1800	12.35	1,570	03-24	2200	10.91	1,270
02-24	0400	15.47	4,470	03-29	2000	13.40	2,130
03-13	0200	12.65	1,700	04-25	1700	16.55	6,410

## 03375500 Patoka River at Jasper, Ind.

LOCATION.--Lat 38°24'49", long 86°52'36", in NW¼SE¼ sec.20, T.1 S., R.4 W., Dubois County, on left bank 0.3 mile (0.5 km) upstream from unnamed outlet of Jasper Lake, 1.0 mile (1.6 km) downstream from Coon Seitz bridge, 1.2 miles (1.9 km) downstream from Beaver Creek, 3.3 miles (5.3 km) northeast of Jasper, and at mile 91.5 (147.2 km).

DRAINAGE AREA.--262 mi<sup>2</sup> (679 km<sup>2</sup>).

PERIOD OF RECORD.--November 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.19 ft (135.999 m) above mean sea level. Nonrecording gage at bridge 5.6 miles (9.0 km) downstream, used for high-water periods when flow exceeds about 2,500 ft<sup>3</sup>/s (70.8 m<sup>3</sup>/s), at datum 0.34 ft (0.104 m) lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 miles (9.0 km) downstream at datum 0.34 ft (0.104 m) lower.

AVERAGE DISCHARGE.--27 years (1948 to current year), 359 ft<sup>3</sup>/s (10.167 m<sup>3</sup>/s), 18.61 in/yr (473 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,660 ft<sup>3</sup>/s (217 m<sup>3</sup>/s) Apr. 27, gage height, 13.29 ft (4.051 m) at downstream gage; maximum gage height at upstream gage, 18.27 ft (5.569 m) Apr. 27; minimum daily, 14 ft<sup>3</sup>/s (0.396 m<sup>3</sup>/s) July 28, Sept. 10.

Period of record: Maximum discharge, 14,100 ft<sup>3</sup>/s (399 m<sup>3</sup>/s) Mar. 11, 1964, gage height, 15.17 ft (4.624 m) at downstream gage; maximum gage height at upstream gage, 21.20 ft (6.462 m) 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 (4.85 m), at downstream site, from floodmark furnished by local residents, discharge 16,000 ft<sup>3</sup>/s (453 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partially regulated by Beaver Creek Reservoir.

REVISIONS (WATER YEARS).--WSP 1909: 1958. WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	107	307	777	1,150	3,430	2,370	1,530	289	33	24	42
2	563	127	508	933	1,340	1,630	2,240	856	320	29	26	31
3	233	421	629	916	1,530	799	1,870	555	317	26	32	25
4	143	1,360	607	903	1,620	368	1,050	406	241	25	55	22
5	102	1,670	488	765	1,390	260	472	332	179	23	106	20
6	81	2,210	376	548	1,060	223	303	285	135	22	304	18
7	70	2,520	482	412	784	266	250	237	113	22	183	17
8	60	2,440	1,100	362	547	456	221	272	92	22	73	16
9	52	2,210	1,260	569	411	491	198	589	71	22	44	15
10	47	1,440	1,340	828	327	406	182	680	59	21	34	14
11	42	716	1,140	1,340	278	407	174	568	693	20	29	26
12	38	644	618	1,570	273	1,130	160	364	901	20	25	88
13	35	600	430	1,900	418	1,430	144	264	748	19	21	61
14	34	536	360	2,100	455	1,870	131	203	352	20	20	44
15	61	433	336	2,030	354	2,170	125	160	170	18	25	33
16	128	344	475	1,350	302	2,190	150	124	106	26	128	27
17	165	279	523	544	283	2,090	135	101	82	24	366	23
18	155	230	457	537	292	1,940	124	87	184	15	145	20
19	121	256	369	980	299	1,840	420	79	198	42	328	20
20	94	683	334	1,080	273	1,730	584	71	111	357	131	33
21	77	646	312	843	230	1,770	485	62	74	143	59	42
22	66	445	283	519	302	1,800	330	55	58	45	44	33
23	59	310	246	387	1,510	1,660	447	60	49	29	36	27
24	54	374	253	333	2,010	1,590	1,820	118	43	23	30	25
25	54	739	447	312	3,000	1,540	3,170	73	39	20	27	35
26	106	705	515	333	4,340	1,620	6,120	72	36	17	24	124
27	74	553	470	309	4,760	1,740	7,470	145	34	15	21	90
28	63	410	389	262	4,240	1,830	5,640	610	32	14	19	64
29	60	325	343	241	-----	1,990	4,100	437	31	80	18	50
30	103	262	308	254	-----	2,270	2,170	289	33	80	57	42
31	122	-----	331	689	-----	2,410	-----	361	-----	30	92	-----
TOTAL	4,192	23,995	16,036	24,926	33,778	45,346	43,055	10,045	5,790	1,302	2,526	1,127
MEAN	135	800	517	804	1,206	1,463	1,435	324	193	42.0	81.5	37.6
MAX	1,130	2,520	1,340	2,100	4,760	3,430	7,470	1,530	901	357	366	124
MIN	34	107	246	241	230	223	124	55	31	14	18	14
CFSM	.52	3.05	1.97	3.07	4.60	5.58	5.48	1.24	.74	.16	.31	.14
IN.	.60	3.41	2.28	3.54	4.80	6.44	6.11	1.43	.82	.18	.36	.16
CAL YR 1974	TOTAL 164,361.3	MEAN 450	MAX 2,520	MIN 3.7	CFSM 1.72	IN 23.34						
WTR YR 1975	TOTAL 212,118.0	MEAN 581	MAX 7,470	MIN 14	CFSM 2.22	IN 30.12						

## WABASH RIVER BASIN

03375800 Hall Creek near St. Anthony, Ind.

LOCATION.--Lat 38°21'45", long 86°49'43", in NW¼NW¼ sec.11, T.2 S., R.4 W., Dubois County, on downstream side of right pier of bridge on County Road 125 South, 0.7 mile (1.1 km) upstream from Grassy Fork, 3.3 miles (5.3 km) north of St. Anthony, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--21.8 mi<sup>2</sup> (56.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of the gage is 460 ft (140 m), from river-profile survey.

AVERAGE DISCHARGE.--5 years, 28.1 ft<sup>3</sup>/s (0.796 m<sup>3</sup>/s), 17.50 in/yr (444 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1A	11	52	74	111	26	32	58	16	.60	.51	.89
2	10	26	62	35	104	22	27	27	6.6	.56	20	.61
3	6.7	73	43	76	48	18	23	21	11	.55	51	.47
4	5.1	421	30	43	48	15	1A	15	4.5	.51	9.4	.39
5	3.6	113	25	31	50	14	16	9.0	3.7	.48	5.6	.30
6	2.9	49	21	27	44	13	14	5.8	4.0	.54	33	.27
7	2.3	38	170	23	31	78	12	4.6	2.5	.54	4.3	.27
8	1.9	32	167	70	26	32	11	38	1.7	.54	2.3	.19
9	1.7	28	52	56	22	24	10	22	1.3	.77	1.4	.15
10	1.4	24	35	239	21	28	10	12	5.3	.75	1.0	.13
11	1.2	68	30	260	19	89	8.8	8.4	133	.50	.81	86
12	1.1	43	28	58	41	530	7.7	7.8	25	.46	.68	12
13	.99	34	24	35	25	94	7.1	5.5	11	.59	.55	2.8
14	1.3	28	20	27	22	75	8.0	4.3	7.0	.49	2.7	1.5
15	1A	22	50	24	19	119	8.2	3.6	5.5	.42	15	1.0
16	7.6	17	37	20	19	89	7.4	2.9	4.5	.39	84	.90
17	4.6	14	30	15	24	54	8.3	2.4	54	4.0	9.6	.78
18	3.5	12	24	111	21	108	8.5	2.2	43	3.0	12	.76
19	3.0	60	26	55	17	181	46	1.8	7.7	38	3.3	12
20	2.4	46	21	38	14	56	17	1.6	4.6	118	1.9	4.3
21	1.9	27	19	29	12	36	13	1.4	3.4	3.6	1.3	2.0
22	1.8	20	15	25	80	107	11	1.3	2.7	1.3	.95	1.3
23	1.7	16	13	23	2,170	69	193	1.1	2.1	.79	.75	1.1
24	1.7	100	44	21	328	149	1,350	1.1	1.7	.59	.62	2.2
25	1.9	55	35	26	82	47	670	6.9	1.3	.51	.48	17
26	26	33	26	22	53	31	83	64	1.1	.38	.37	7.2
27	6.5	27	26	16	38	72	47	78	.99	.31	.29	4.6
28	4.9	22	24	15	31	424	34	14	.87	.24	.24	3.4
29	11	16	21	19	-----	453	23	43	.76	.23	.29	2.7
30	22	18	19	62	-----	77	28	17	.65	.88	25	2.1
31	12	-----	63	252	-----	42	-----	16	-----	.64	1.9	-----
TOTAL	148.69	1,493	1,252	1,827	3,520	3,172	2,752.0	496.7	367.47	181.16	291.24	169.31
MFAN	6.09	49.8	40.4	58.9	126	102	91.7	16.0	12.2	5.84	9.39	5.64
MAX	26	421	170	260	2,170	530	1,350	78	133	118	84	86
MIN	.99	11	13	15	12	13	7.1	1.1	.65	.23	.24	.13
CFSM	.28	2.28	1.85	2.70	5.78	4.68	4.21	.73	.56	.27	.43	.26
IN.	.32	2.55	2.14	3.12	6.01	5.41	4.70	.85	.63	.31	.50	.29

CAL YR 1974 TOTAL 11,763.01 MEAN 32.2 MAX 421 MIN .18 CFSM 1.48 IN 20.07  
WTR YR 1975 TOTAL 15,710.57 MEAN 43.0 MAX 2,170 MIN .13 CFSM 1.97 IN 26.81

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S, Revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1500	11.22	1,590	03-28	0345	10.54	723
01-11	0015	10.93	1,180	03-29	0500	10.75	948
02-23	1915	12.38	4,250	04-24	0930	12.35	4,400
03-12	1015	10.91	1,160	04-25	0700	11.03	1,420

03375800 Hall Creek near St. Anthony, Ind.--Continued

EXTREMES.--Current year: Maximum discharge, 4,400 ft<sup>3</sup>/s (125 m<sup>3</sup>/s) Apr. 24, gage height, 12.35 ft (3.764 m); maximum gage height, 12.38 ft (3.773 m) Feb. 23; minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Sept. 10.

Period of record: Maximum discharge, 4,400 ft<sup>3</sup>/s (125 m<sup>3</sup>/s) Apr. 24, 1975, gage height, 12.35 ft (3.764 m); maximum gage height, 12.38 ft (3.773 m) Feb. 23, 1975; minimum daily, no flow for many days in most years.

REVISIONS.--The figures of maximum discharge for all water years of record have been revised, as shown in the following table. They supersede figures published in WRD Indiana 1971-1974.

Water year	Date	Discharge (ft <sup>3</sup> /s)	Gage height (feet)
1971	Feb. 22, 1971	1,360	11.07
1972	Apr. 12, 1972	1,950	11.43
1973	July 21, 1973	1,180	10.93
1974	Nov. 26, 1973	1,860	11.38

REMARKS.--Records good.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water years 1971-74, superseding those published in WRD Indiana, 1971-74 are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
1971		1973		1974	
Feb. 12	305	Mar. 10	75	Jan. 26	256
22	630	11	712	Mar. 6	256
		14	209	11	347
		16	176	12	302
1972		17	388	Aug. 29	94
Apr. 12	649	July 21	388	30	116
14	736	Nov. 26	591		
15	634	27	260		
16	620				
20	534				

Month	ft <sup>3</sup> /s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
February 1971.....	2,441.6	630	2.8	87.2	4.00	4.16
Water year 1971...	7,442.17	630	.24	20.4	.94	12.69
April 1972.....	4,264	736	13	142	6.51	7.26
Cal year 1971.....	6,588.07	630	.24	18.0	.83	11.24
Water year 1972...	9,747.44	736	0	26.6	1.22	16.60
March 1973.....	3,187.4	712	8.5	103	4.72	5.44
July 1973.....	504.78	388	.43	16.3	.75	.86
Cal year 1972.....	10,383.28	736	0	28.4	1.30	17.69
Water year 1973...	10,586.02	712	0	29.0	1.33	18.06
November 1973.....	1,077.7	591	.10	35.9	1.65	1.84
January 1974.....	2,291.2	300	4.0	73.9	3.39	3.90
March 1974.....	2,080	347	16	67.1	3.07	3.54
August 1974.....	326.05	116	.18	10.5	.48	.55
Cal year 1973.....	10,659.7	712	.01	29.2	1.34	18.18
Water year 1974...	10,653.18	591	.01	29.2	1.34	18.16

REVISED PEAK DISCHARGE.--1971: Nov. 20 (0630) 702 ft<sup>3</sup>/s (10.50 ft); Jan. 13 (2015) 485 ft<sup>3</sup>/s (9.97 ft); Feb. 5 (0215) 460 ft<sup>3</sup>/s (9.85 ft); Feb. 12 (1830) 591 ft<sup>3</sup>/s (10.27 ft); Feb. 22 (0645) 1,360 ft<sup>3</sup>/s (11.07 ft).

1972: Dec. 30 (1215) 672 ft<sup>3</sup>/s (10.44 ft); Feb. 25 (2300) 697 ft<sup>3</sup>/s (10.49 ft); Mar. 2 (1015) 823 ft<sup>3</sup>/s (10.65 ft); Mar. 16 (0530) 884 ft<sup>3</sup>/s (10.70 ft); Apr. 12 (0615) 1,950 ft<sup>3</sup>/s (11.43 ft); Apr. 14 (0945) 1,320 ft<sup>3</sup>/s (11.04 ft); Apr. 16 (1630) 1,310 ft<sup>3</sup>/s (11.03 ft); Apr. 20 (1200) 1,270 ft<sup>3</sup>/s (11.00 ft); May 8 (2130) 470 ft<sup>3</sup>/s (9.90 ft).

1973: Dec. 8 (1845) 800 ft<sup>3</sup>/s (10.63 ft); Dec. 13 (0130) 573 ft<sup>3</sup>/s (10.23 ft); Dec. 19 (1700) 451 ft<sup>3</sup>/s (9.81 ft); Jan. 3 (1945) 543 ft<sup>3</sup>/s (10.16 ft); Mar. 11 (0945) 1,160 ft<sup>3</sup>/s (10.91 ft); Mar. 14 (1830) 614 ft<sup>3</sup>/s (10.32 ft); Mar. 17 (0145) 637 ft<sup>3</sup>/s (10.37 ft); Apr. 18 (0945) 935 ft<sup>3</sup>/s (10.74 ft); Apr. 19 (2245) 604 ft<sup>3</sup>/s (10.30 ft); June 27 (1500) 623 ft<sup>3</sup>/s (10.34 ft); July 21 (1230) 1,180 ft<sup>3</sup>/s (10.93 ft).

1974: Nov. 26 (1615) 1,860 ft<sup>3</sup>/s (11.38 ft); Apr. 3 (1815) 534 ft<sup>3</sup>/s (10.14 ft); Apr. 8 (1245) 692 ft<sup>3</sup>/s (10.48 ft); May 31 (1245) 453 ft<sup>3</sup>/s (9.82 ft); Aug. 29 (2345) 501 ft<sup>3</sup>/s (10.04 ft); Sept. 29 (0315) 623 ft<sup>3</sup>/s (10.34 ft).

## WABASH RIVER BASIN

03376260 Flat Creek near Otwell, Ind.

LOCATION.--Lat 38°26'12", long 87°07'52", in SE¼SE¼ 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 (3.5 km) west of intersection of State Highways 56 and 257, 2.5 miles (4.0 km) southeast of Otwell, 6.2 miles (10.0 km) east of intersection of State Highways 56 and 61, and at mile 10.9 (17.5 km).

DRAINAGE AREA.--21.3 mi<sup>2</sup> (55.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 448.00 ft (136.550 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 21.3 ft<sup>3</sup>/s (0.603 m<sup>3</sup>/s), 13.58 in/yr (345 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft<sup>3</sup>/s (34.8 m<sup>3</sup>/s) Apr. 24, gage height, 11.68 ft (3.560 m); minimum daily, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) July 18.

Period of record: Maximum discharge, 1,320 ft<sup>3</sup>/s (37.4 m<sup>3</sup>/s) Feb. 9 or 10, 1965, gage height, 11.89 ft (3.624 m) from recorded range in stage; no flow at times most years.

Flood in March 1964 reached a stage of 12.58 ft (3.834 m) 30 ft (9 m) downstream from bridge.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.7	50	56	63	16	28	34	15	.48	.25	6.9
2	3.1	4.0	59	18	66	11	24	16	5.7	.43	.47	2.6
3	3.1	91	30	63	23	8.6	20	12	4.0	.43	14	1.6
4	3.4	556	16	24	30	8.2	14	11	2.7	.40	7.4	1.4
5	2.7	66	12	15	35	8.4	12	6.8	58	.34	4.9	1.4
6	2.3	28	10	14	29	8.8	9.9	5.8	22	.31	42	1.3
7	2.1	20	171	11	12	50	8.6	5.6	3.8	.28	4.3	1.1
8	2.0	14	85	42	10	23	7.7	14	2.2	.35	1.4	1.0
9	1.9	9.5	22	35	8.0	13	8.5	27	1.7	.33	.79	.88
10	1.9	8.5	15	456	6.1	22	8.9	11	1.5	.28	.69	.74
11	1.8	71	15	350	8.1	69	7.3	6.4	36	.23	.56	6.5
12	2.0	22	30	29	15	610	5.9	6.6	8.3	4.5	.49	9.7
13	2.0	16	17	15	9.5	50	5.1	5.1	2.1	2.9	.46	2.2
14	3.1	14	13	10	8.9	41	5.5	4.2	1.5	.25	12	1.4
15	9.5	8.5	41	10	9.1	71	6.5	4.1	2.2	.20	22	.92
16	3.3	7.0	25	9.8	9.5	135	5.3	3.6	1.8	.17	40	.75
17	2.2	6.5	16	7.8	14	63	5.7	3.2	17	.15	13	.67
18	2.1	6.2	11	45	10	106	6.4	3.2	4.5	.14	5.9	.59
19	2.0	268	19	34	7.8	130	27	2.6	1.4	56	1.7	1.5
20	2.0	79	12	19	6.5	35	7.3	2.3	1.0	329	.95	2.1
21	1.8	18	12	12	6.1	25	5.2	2.3	.96	128	.79	1.7
22	1.9	11	8.8	11	269	70	4.4	2.5	.92	9.8	.74	1.4
23	1.9	9.5	8.3	11	1,040	113	104	2.2	.84	5.2	.65	1.1
24	2.0	74	55	11	134	188	695	4.6	.80	3.8	.56	1.7
25	2.2	29	23	23	62	36	247	63	.59	2.3	.52	4.2
26	2.1	15	13	15	38	23	55	61	.48	1.3	.47	6.2
27	2.1	12	13	7.7	24	115	37	7.9	1.5	.85	.45	5.3
28	2.3	9.1	13	7.7	20	308	29	4.1	.99	.60	.39	2.5
29	5.5	7.5	11	19	-----	289	22	7.3	.63	.51	6.1	1.7
30	7.2	9.9	12	37	-----	53	20	7.1	.58	.45	97	1.4
31	4.3	-----	144	208	-----	36	-----	24	-----	.36	27	-----
TOTAL	89.8	1,493.9	982.1	1,626.0	1,973.6	2,735.0	1,442.2	370.5	200.69	550.34	307.93	72.45
MEAN	2.90	49.8	31.7	52.5	70.5	88.2	48.1	12.0	6.69	17.8	9.93	2.42
MAX	9.5	556	171	456	1,040	610	695	63	58	329	97	9.7
MIN	1.8	3.7	8.3	7.7	6.1	8.2	4.4	2.2	.48	.14	.25	.59
CFSM	.14	2.34	1.49	2.46	3.31	4.14	2.26	.56	.31	.84	.47	.11
IN.	.16	2.61	1.72	2.84	3.45	4.78	2.52	.65	.35	.96	.54	.13

CAL YR 1974 TOTAL 9,610.25 MEAN 26.3 MAX 614 MIN .79 CFSM 1.23 IN 16.78  
WTR YR 1975 TOTAL 11,844.51 MEAN 32.5 MAX 1,040 MIN .14 CFSM 1.53 IN 20.69

PEAK DISCHARGE (BASE, 450 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1100	11.28	960	03-12	0800	11.46	1,080	04-24	0900	11.68	1,230
11-19	1800	10.77	705	03-18	2300	10.03	463	04-25	0700	10.37	559
01-10	2200	11.47	1,090	03-23	2200	10.15	495	07-20	2300	10.78	709
02-23	0500	11.55	1,140	03-28	0200	10.82	726				



033°6350 South Fork Patoka River near Spurgeon, Ind.

LOCATION.--Lat 38°17'50", long 87°15'39", in SE¼NE¼ 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 (0.8 km) north of Enos Corner, 3.1 miles (5.0 km) north of Spurgeon, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--42.8 mi<sup>2</sup> (110.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 420.88 ft (128.284 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 46.5 ft<sup>3</sup>/s (1.317 m<sup>3</sup>/s), 14.75 in/yr (375 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	13	123	100	190	80	117	223	39	12	19	15
2	20	19	126	53	170	69	108	113	31	12	28	13
3	17	56	81	145	89	60	94	104	27	12	74	12
4	15	490	52	71	93	54	84	93	25	12	33	11
5	13	117	42	52	93	50	74	79	27	13	23	11
6	12	93	40	47	80	49	73	79	28	17	33	10
7	11	61	252	37	56	217	68	90	26	14	18	8.8
8	10	42	201	106	48	96	63	387	28	13	16	9.6
9	10	33	87	84	40	70	61	172	27	21	14	8.3
10	9.4	34	62	780	40	94	60	99	27	22	13	8.4
11	9.0	158	56	500	42	183	54	84	172	13	14	99
12	9.8	61	60	170	43	589	50	81	89	15	13	32
13	16	42	47	100	36	170	49	65	36	14	13	13
14	19	33	41	70	34	150	56	61	29	8.9	22	11
15	67	26	112	60	33	380	52	57	28	6.8	32	9.8
16	27	22	78	54	39	280	47	49	23	6.1	88	9.1
17	19	20	54	45	41	170	49	48	62	6.5	34	8.4
18	16	19	41	158	35	220	56	48	51	6.5	20	7.6
19	15	96	47	102	31	281	182	46	24	42	14	17
20	14	79	36	70	28	157	69	40	18	130	13	14
21	13	43	35	54	26	121	53	40	17	60	12	9.4
22	13	34	33	46	193	177	45	38	20	22	11	8.5
23	12	30	30	44	1,180	193	374	37	20	20	11	7.7
24	12	178	109	44	305	289	1,640	35	16	20	12	21
25	11	89	64	58	198	145	790	36	14	39	12	23
26	11	50	42	46	137	106	235	39	14	18	10	17
27	12	41	46	38	103	169	150	36	14	14	10	14
28	12	36	41	35	89	411	120	31	15	15	10	12
29	20	31	39	43	-----	459	100	39	14	16	13	10
30	18	36	37	140	-----	194	138	34	12	14	54	8.5
31	14	-----	119	353	-----	140	-----	51	-----	15	18	-----
TOTAL	503.2	2,082	2,233	3,705	3,492	5,823	5,111	2,434	973	649.8	707	459.1
MEAN	16.2	69.4	72.0	120	125	188	170	78.5	32.4	21.0	22.8	15.3
MAX	67	490	252	780	1,180	589	1,640	387	172	130	88	99
MIN	9.0	13	30	35	26	49	45	31	12	6.1	10	7.6
CFSM	.38	1.62	1.68	2.80	2.92	4.39	3.97	1.83	.76	.49	.53	.36
IN.	.44	1.81	1.94	3.22	3.04	5.06	4.44	2.12	.85	.56	.61	.40

CAL YR 1974 TOTAL 19,786.0 MEAN 54.2 MAX 536 MIN 5.4 CFSM 1.27 IN 17.20  
WTR YR 1975 TOTAL 28,172.1 MEAN 77.2 MAX 1,640 MIN 6.1 CFSM 1.80 IN 24.49

PEAK DISCHARGE (BASE, 1,000 FT<sup>3</sup>/S, Revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	0700	9.25	1,170	03-29	0400	8.87	1,070
01-10	1800	11.16	1,970	04-24	1200	12.58	3,320
02-23	1700	11.21	2,010	04-25	0600	10.92	1,820
03-12	0700	10.67	1,660	05-08	1200	8.75	1,050



## WABASH RIVER BASIN

03376350 South Fork Patoka River near Spurgeon, Ind.--Continued

EXTREMES.--Current year: Maximum discharge, 3,320 ft<sup>3</sup>/s (94.0 m<sup>3</sup>/s) Apr. 24, gage height, 12.58 ft (3.834 m); minimum daily, 6.1 ft<sup>3</sup>/s (0.17 m<sup>3</sup>/s) July 16.

Period of record: Maximum discharge, 3,320 ft<sup>3</sup>/s (94.0 m<sup>3</sup>/s) Apr. 24, 1975, gage height, 12.58 ft (3.834 m); minimum daily, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) Nov. 10, 14, 1964, Aug. 22, 24, 25, 1965.

Flood in March 1964 reached a stage of 13.09 ft (3.99 m), from floodmarks, discharge 4,000 ft<sup>3</sup>/s (113 m<sup>3</sup>/s).

The figures of maximum discharge for all water years of record have been revised, as shown in the following table. They supersede figures published in the water-supply papers indicated.

WSP	Water year	Date	Discharge (ft <sup>3</sup> /s)	Gage height (feet)
1909	1965	Feb. 10, 1965	2,980	12.32
	1966	Feb. 10, 1966	2,530	10.91
	1967	May 1, 1967	2,150	11.42
	1968	Apr. 4, 1968	1,730	10.78
	1969	Aug. 21, 1969	2,620	12.02
	1970	Apr. 28, 1970	3,600	12.79
	1971	Feb. 22, 1971	1,290	9.75
WRD Ind.	1972	Apr. 16, 1972	2,950	12.29
WRD Ind.	1973	Apr. 18, 1973	1,440	10.19
WRD Ind.	1974	Apr. 8, 1974	1,660	10.67

REMARKS.--Records good. Regulation by coal-washing operation and strip-mining above gage.

REVISIONS.--WSP 2109: Drainage area.

The figures of peak discharge for water years 1965-1974 have been revised as shown below. They supersede figures published in WSP 1909, WSP 2109, and WRD Indiana 1971-1974.

REVISED PEAK DISCHARGE.--1965: Feb. 10 (0230) 2,980 ft<sup>3</sup>/s (12.32 ft); Feb. 11 (1830) 701 ft<sup>3</sup>/s (7.23 ft).

1966: Feb. 10 (1300) 2,530 ft<sup>3</sup>/s (10.91 ft); May 18 (0730) 1,530 ft<sup>3</sup>/s (10.44 ft).

1967: Apr. 30 (1230) 1,180 ft<sup>3</sup>/s (9.43 ft); May 1 (1830) 2,150 ft<sup>3</sup>/s (11.42 ft); May 6 (2330) 1,180 ft<sup>3</sup>/s (9.43 ft).

1968: Dec. 2 (1415) 1,190 ft<sup>3</sup>/s (9.46 ft); Feb. 2 (0130) 1,440 ft<sup>3</sup>/s (10.20 ft); Mar. 21 (0200) 1,300 ft<sup>3</sup>/s (9.77 ft); Apr. 4 (0415) 1,730 ft<sup>3</sup>/s (10.78 ft); May 25 (2200) 757 ft<sup>3</sup>/s (7.54 ft).

1969: Dec. 28 (0130) 1,250 ft<sup>3</sup>/s (9.64 ft); Jan. 17 (1630) 1,250 ft<sup>3</sup>/s (9.63 ft); Jan. 28 (1215) 1,670 ft<sup>3</sup>/s (10.68 ft); May 18 (1230) 1,080 ft<sup>3</sup>/s (9.11 ft); July 10 (0730) 1,590 ft<sup>3</sup>/s (10.55 ft); Aug. 19 (1145) 636 ft<sup>3</sup>/s (6.85 ft); Aug. 21 (1830) 2,620 ft<sup>3</sup>/s (12.02 ft); Sept. 2 (0415) 642 ft<sup>3</sup>/s (6.95 ft).

1970: Nov. 19 (0245) 1,200 ft<sup>3</sup>/s (9.51 ft); Mar. 2 (1545) 707 ft<sup>3</sup>/s (7.26 ft); Mar. 25 (1530) 1,330 ft<sup>3</sup>/s (9.85 ft); Apr. 1 (2330) 926 ft<sup>3</sup>/s (8.43 ft); Apr. 28 (1015) 3,600 ft<sup>3</sup>/s (12.79 ft); July 31 (0830) 677 ft<sup>3</sup>/s (7.09 ft).

1971: Feb. 22 (0400) 1,290 ft<sup>3</sup>/s (9.75 ft); May 24 (2230) 693 ft<sup>3</sup>/s (7.18 ft).

1972: Mar. 2 (0600) 1,130 ft<sup>3</sup>/s (9.28 ft); Mar. 15 (0100) 1,250 ft<sup>3</sup>/s (9.65 ft); Apr. 12 (0200) 1,780 ft<sup>3</sup>/s (10.86 ft); Apr. 14 (0500) 1,970 ft<sup>3</sup>/s (11.15 ft); Apr. 16 (0600) 2,950 ft<sup>3</sup>/s (12.29 ft); Apr. 20 (0900) 1,470 ft<sup>3</sup>/s (10.30 ft).

1973: Dec. 8 (1600) 718 ft<sup>3</sup>/s (7.32 ft); Mar. 11 (0200) 1,180 ft<sup>3</sup>/s (9.45 ft); Mar. 14 (1800) 648 ft<sup>3</sup>/s (6.92 ft); Apr. 18 (0700) 1,440 ft<sup>3</sup>/s (10.19 ft); Apr. 19 (2200) 1,320 ft<sup>3</sup>/s (9.83 ft); June 27 (1400) 1,120 ft<sup>3</sup>/s (9.22 ft); Aug. 12 (2400) 1,090 ft<sup>3</sup>/s (9.14 ft).

1974: Nov. 26 (1300) 1,100 ft<sup>3</sup>/s (9.16 ft); Apr. 8 (1100) 1,660 ft<sup>3</sup>/s (10.67 ft); May 21 (2200) 761 ft<sup>3</sup>/s (7.56 ft); May 31 (0800) 1,260 ft<sup>3</sup>/s (9.67 ft); Aug. 29 (2100) 862 ft<sup>3</sup>/s (8.11 ft).

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 (23 m) upstream from dam of Princeton Water and Lighting Co., 0.1 mile (0.2 km) downstream from bridge on State Highway 65, 0.6 mile (1.0 km) (revised) downstream from Indian Creek, 2 miles (3 km) northeast of Princeton, and at mile 21.5 (34.6 km).

DRAINAGE AREA.--822 mi<sup>2</sup> (2,129 km<sup>2</sup>).

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 (120.134 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). See WSP 1725 for history of changes prior to Jan. 21, 1941.

AVERAGE DISCHARGE.--41 years, 991 ft<sup>3</sup>/s (28.07 m<sup>3</sup>/s), 16.37 in/yr (416 mm/yr).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	35	1,900	1,800	3,400	1,280	1,970	921	1,660	134	29	1,060
2	83	32	1,900	1,800	3,250	1,310	1,810	873	1,610	114	42	1,070
3	330	30	1,840	1,800	3,140	1,320	1,630	875	1,610	99	545	1,080
4	189	32	1,830	1,800	3,010	1,290	1,440	875	1,610	88	322	1,090
5	94	35	1,800	1,790	2,860	1,260	1,310	846	1,620	84	314	1,030
6	106	30	1,800	1,700	2,690	1,270	1,270	770	1,630	77	254	857
7	111	27	1,750	1,600	2,490	1,270	1,270	666	1,710	73	159	590
8	90	26	1,660	1,400	2,240	1,260	1,830	591	1,760	70	115	320
9	70	25	1,500	1,220	2,070	1,290	1,960	581	1,800	72	72	220
10	57	23	1,350	1,180	1,990	1,410	2,020	515	1,850	69	452	179
11	47	27	1,100	1,210	1,890	1,520	2,140	462	1,780	118	505	202
12	42	25	900	1,210	1,710	1,680	2,250	443	1,740	113	385	165
13	51	27	760	1,290	1,320	1,790	2,310	464	1,710	246	363	177
14	62	45	660	1,410	927	1,880	2,340	478	1,680	228	295	236
15	51	60	580	1,530	677	1,980	2,320	604	1,640	153	268	253
16	41	40	520	1,710	591	2,080	2,320	691	1,540	106	249	463
17	36	32	460	2,070	527	2,140	2,340	734	1,320	83	221	643
18	32	28	420	2,220	399	2,180	2,310	964	875	69	201	671
19	29	26	380	2,400	509	2,210	2,270	1,130	561	59	146	576
20	27	22	350	2,560	653	2,210	2,210	967	560	55	98	334
21	25	50	320	2,730	708	2,320	2,130	926	518	51	86	216
22	23	100	350	2,850	909	2,390	2,050	1,070	521	49	73	162
23	21	200	450	2,930	999	2,440	1,900	1,150	992	46	60	131
24	20	300	600	3,130	1,050	2,460	1,730	1,260	746	44	54	110
25	19	500	1,000	3,440	1,100	2,470	1,580	1,390	641	42	48	96
26	18	1,500	1,300	3,550	1,140	2,470	1,440	1,480	501	39	44	86
27	17	1,600	1,600	3,590	1,200	2,450	1,320	1,520	318	38	42	79
28	16	1,700	1,700	3,600	1,250	2,390	1,240	1,510	243	36	159	255
29	15	1,800	1,750	3,590	-----	2,330	1,150	1,440	196	37	398	1,040
30	15	1,860	1,750	3,560	-----	2,250	1,040	1,660	162	35	950	970
31	40	-----	1,800	3,510	-----	2,110	-----	1,780	-----	31	1,040	-----
TOTAL	1,835	10,237	36,080	70,180	44,699	58,710	54,900	29,636	35,104	2,558	7,989	14,361
MEAN	59.2	341	1,164	2,264	1,596	1,894	1,830	956	1,170	82.5	258	479
MAX	330	1,860	1,900	3,600	3,400	2,470	2,340	1,780	1,850	246	1,040	1,090
MIN	15	22	320	1,180	399	1,260	1,040	443	162	31	29	79
CFSM	.07	.41	1.42	2.75	1.94	2.30	2.23	1.16	1.42	.10	.31	.58
IN.	.08	.46	1.63	3.18	2.02	2.66	2.48	1.34	1.59	.12	.36	.65

CAL YR 1973 TOTAL 431,240 MEAN 1.181 MAX 5,270 MIN 15 CFSM 1.44 IN 19.52  
WTR YR 1974 TOTAL 366,289 MEAN 1.004 MAX 3,600 MIN 15 CFSM 1.22 IN 16.58

NOTE.--No gage-height record Oct. 17, 1973 to Jan. 9, 1974.

## WABASH RIVER BASIN

03376500 Patoka River near Princeton, Ind.--Continued

EXTREMES.--Water year 1974: Maximum discharge, 3,670 ft<sup>3</sup>/s (104 m<sup>3</sup>/s) Jan. 28, 29, gage height, 14.21 ft (4.331 m); minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Oct. 29, 30.

Water year 1975: Maximum discharge, 7,680 ft<sup>3</sup>/s (217 m<sup>3</sup>/s) May 2, gage height, 18.09 ft (5.514 m); minimum daily, 37 ft<sup>3</sup>/s (1.05 m<sup>3</sup>/s) July 18.

Period of record: Maximum discharge, 18,700 ft<sup>3</sup>/s (530 m<sup>3</sup>/s) Jan. 26, 1937, gage height, 26.80 ft (8.169 m), site and datum then in use; no flow Aug. 29 to Sept. 12, 1936.

REMARKS.--Water year 1974: Records fair except for period of no gage-height record, which is poor.

Water year 1975: Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1949(M), 1949-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	165	1,580	1,200	2,140	3,480	5,120	7,090	757	77	80	273
2	964	209	1,550	1,170	2,150	3,760	4,950	7,570	689	72	147	293
3	983	503	1,540	1,360	2,150	4,160	4,610	7,640	620	65	238	268
4	1,000	1,430	1,480	1,440	2,160	4,450	4,570	7,340	556	61	485	226
5	996	1,600	1,440	1,490	2,170	4,650	4,500	6,840	591	60	360	177
6	894	1,570	1,390	1,540	2,170	4,690	4,330	6,160	579	65	540	135
7	644	1,650	1,540	1,560	2,140	4,640	4,130	5,460	472	66	595	106
8	362	1,710	1,840	1,600	2,130	4,480	3,870	4,990	339	60	604	87
9	213	1,750	1,850	1,670	2,110	4,370	3,670	4,570	257	59	545	74
10	165	1,780	1,920	2,010	2,080	4,250	3,470	4,190	215	71	398	64
11	132	1,910	1,980	2,240	2,070	4,000	3,230	3,760	271	73	238	61
12	109	1,940	2,050	2,240	2,060	4,390	3,030	3,370	710	60	142	172
13	101	1,980	2,080	2,320	2,040	4,330	2,810	3,020	897	74	100	326
14	98	1,990	2,080	2,420	2,000	4,210	2,550	2,730	987	69	80	481
15	165	2,010	2,100	2,490	1,940	4,100	2,250	2,440	1,040	57	85	470
16	217	2,020	2,130	2,530	1,850	3,980	1,910	2,140	1,070	44	126	412
17	234	2,040	2,140	2,530	1,730	3,810	1,560	1,820	1,100	42	341	337
18	254	2,040	2,130	2,560	1,580	3,720	1,150	1,460	1,020	37	512	267
19	250	2,100	2,120	2,570	1,410	3,800	1,020	993	881	60	621	208
20	246	2,180	2,030	2,570	1,200	3,780	1,030	670	806	623	577	168
21	230	2,170	1,900	2,570	1,010	3,830	1,050	543	683	954	505	146
22	194	2,140	1,710	2,560	1,210	4,120	1,040	430	549	1,040	444	130
23	161	2,080	1,470	2,540	2,560	4,180	1,340	324	350	1,070	361	122
24	142	2,090	1,230	2,520	2,640	4,400	2,340	229	227	1,000	263	112
25	125	2,050	1,010	2,490	2,740	4,420	2,760	192	167	703	180	107
26	115	1,970	852	2,440	2,940	4,430	3,250	304	130	365	125	111
27	106	1,900	803	2,380	3,130	4,510	4,040	313	120	162	94	122
28	104	1,820	790	2,310	3,290	4,920	4,730	358	112	103	78	140
29	132	1,730	776	2,220	-----	5,230	5,520	540	94	89	69	161
30	173	1,650	750	2,110	-----	5,190	6,370	629	83	74	85	175
31	161	-----	864	2,170	-----	5,200	-----	734	-----	62	179	-----
TOTAL	10,620	52,177	49,125	65,820	58,800	133,480	96,200	88,849	16,372	7,417	9,197	5,931
MEAN	343	1,739	1,585	2,123	2,100	4,306	3,207	2,866	546	239	297	198
MAX	1,000	2,180	2,140	2,570	3,290	5,230	6,370	7,640	1,100	1,070	621	481
MIN	98	165	750	1,170	1,010	3,480	1,020	192	83	37	69	61
CFSM	.42	2.12	1.93	2.58	2.55	5.24	3.90	3.49	.66	.29	.36	.24
IN.	.48	2.36	2.22	2.98	2.66	6.04	4.35	4.02	.74	.34	.42	.27

CAL YR 1974 TOTAL 430,059 MEAN 1.178 MAX 3,600 MIN 29 CFSM 1.43 IN 19.46  
WTR YR 1975 TOTAL 593,988 MEAN 1.627 MAX 7,640 MIN 37 CFSM 1.98 IN 26.88

03376500 Patoka River near Princeton, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
APR.					
02...	1420	6.0	4730	30	383
29...	1200	21.0	5490	83	1230

## WABASH RIVER BASIN

03377500 Wabash River at Mount Carmel, Ill.

LOCATION (revised).--Lat 38°24'07", long 87°45'10", in SE¼NW¼ sec.28, T.1 S., R.12 W., Wabash County, Illinois, on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.2 mile (0.3 km) downstream from Patoka River, and at mile 94.4 (151.9 km).

DRAINAGE AREA.--28,635 mi<sup>2</sup> (74,165 km<sup>2</sup>).

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 National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 371.46 ft (113.221 m) above mean sea level. See WSP 1725 for history of changes prior to Sept. 30, 1949.

AVERAGE DISCHARGE.--48 years, 27,030 ft<sup>3</sup>/s (765.0 m<sup>3</sup>/s), 12.81 in/yr (325 mm/yr).

EXTREMES.--Current year: Maximum discharge, 134,000 ft<sup>3</sup>/s (3,790 m<sup>3</sup>/s) Mar. 4, gage height, 24.79 ft (7.556 m); minimum daily, 7,760 ft<sup>3</sup>/s (220 m<sup>3</sup>/s) Aug. 26.

Period of record: Maximum discharge, 305,000 ft<sup>3</sup>/s (8,640 m<sup>3</sup>/s) May 25, 1943, maximum gage height, 28.62 ft (8.723 m) Feb. 5, 6, 1969; minimum daily discharge, 1,650 ft<sup>3</sup>/s (46.7 m<sup>3</sup>/s) Sept. 27, 28, 1941.

1874-78, 1884 to current year: Maximum discharge, 428,000 ft<sup>3</sup>/s (12,100 m<sup>3</sup>/s), from rating curve extended above 310,000 ft<sup>3</sup>/s (8,780 m<sup>3</sup>/s) Mar. 30, 1913, gage height, 31.0 ft (9.45 m), present site and datum.

REMARKS.--Records good. Flow partially regulated by upstream reservoirs.

REVISIONS.--WRD Ind. 1973: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,000	10,300	20,500	41,000	56,300	122,000	83,800	74,600	30,100	29,800	8,600	16,700
2	26,600	10,200	20,200	44,800	61,300	129,000	85,400	75,100	30,000	26,400	8,360	22,400
3	21,900	10,800	21,400	46,300	64,800	134,000	85,200	75,900	29,400	22,900	8,330	23,400
4	19,000	15,300	22,600	47,900	67,300	134,000	83,400	73,100	29,700	19,900	9,170	21,400
5	16,800	28,900	23,100	48,300	70,000	129,000	79,800	67,400	28,600	17,700	11,900	18,100
6	14,600	37,800	22,900	47,600	71,400	119,000	74,900	60,400	31,900	16,200	15,700	15,500
7	12,800	40,300	22,400	45,200	70,600	105,000	68,400	52,700	35,700	15,400	15,300	13,600
8	11,400	39,000	25,900	41,700	67,300	86,800	60,700	47,700	34,300	15,400	13,800	12,000
9	10,500	35,000	32,200	41,600	61,900	69,800	51,900	47,300	30,000	14,300	13,000	10,900
10	9,780	31,900	34,700	47,700	55,800	58,500	44,400	46,600	26,900	13,700	12,000	11,000
11	9,340	31,200	34,100	58,200	50,600	53,000	39,600	44,300	25,100	13,600	10,400	11,500
12	8,900	33,100	34,000	65,100	45,700	54,300	36,600	40,200	26,500	13,000	9,340	12,400
13	8,590	32,300	35,800	69,700	43,200	59,700	34,400	37,800	31,200	12,300	8,630	12,800
14	8,500	29,100	38,100	74,700	41,600	63,200	32,400	36,300	31,800	11,800	8,260	13,600
15	8,740	28,000	38,400	79,900	39,900	65,100	30,700	33,600	29,800	11,500	8,770	14,600
16	10,300	27,700	36,900	84,900	38,600	71,200	29,100	29,800	30,200	10,700	9,850	15,200
17	10,200	26,300	36,000	89,200	40,100	76,500	27,800	27,400	32,600	10,300	11,400	15,100
18	10,100	24,600	36,700	91,500	40,900	79,600	26,700	26,100	34,700	9,950	13,100	13,600
19	10,000	23,100	38,300	89,800	41,100	81,400	26,400	24,800	36,400	10,300	13,900	12,000
20	9,750	23,500	40,400	81,600	42,200	80,900	27,500	23,200	37,400	14,100	13,300	10,900
21	9,670	24,900	41,300	69,000	43,600	78,600	29,600	23,200	37,700	24,900	12,200	10,300
22	9,560	24,100	40,100	57,400	45,700	75,400	30,400	26,300	37,500	28,600	11,000	10,200
23	9,270	23,400	37,300	49,900	57,800	72,400	30,600	23,800	36,900	24,500	9,920	10,300
24	8,950	22,900	34,400	44,000	71,300	70,800	38,300	23,600	34,600	21,700	8,770	10,200
25	8,700	24,600	33,100	39,300	81,500	69,500	52,900	28,000	30,100	19,200	8,060	10,000
26	8,590	26,100	33,500	37,300	91,300	68,400	62,500	31,300	30,000	14,800	7,760	9,680
27	8,550	25,900	34,900	38,300	101,000	67,000	67,000	34,900	29,400	12,300	8,360	9,290
28	8,460	24,100	36,700	40,200	112,000	68,000	69,700	36,900	30,800	11,100	9,930	8,890
29	8,470	22,800	38,800	40,900	-----	72,500	71,900	38,100	31,800	10,500	11,400	8,620
30	8,760	21,600	39,500	42,400	-----	77,800	73,700	36,900	31,900	9,750	11,500	8,500
31	9,850	-----	38,200	48,900	-----	81,200	-----	32,900	-----	9,100	12,300	-----
TOTAL	364,630	778,800	1,022,4M	1,744.3M	1,675.2M	2,573.6M	1,555.7M	1,280.2M	953,000	495,700	334,310	392,680
MEAN	11,760	25,960	32,980	56,270	59,830	83,020	51,860	41,300	31,770	15,990	10,780	13,090
MAX	28,000	40,300	41,300	91,500	112,000	134,000	85,400	75,900	37,700	29,800	15,700	23,400
MIN	8,460	10,200	20,200	37,300	38,600	53,000	26,400	23,200	25,100	9,100	7,760	8,500
CFSM	.41	.91	1.15	1.97	2.09	2.90	1.81	1.44	1.11	.56	.38	.46
IN.	.47	1.01	1.33	2.27	2.18	3.34	2.02	1.66	1.24	.64	.43	.51

CAL YR 1974 TOTAL 15,826,110 MEAN 43,360 MAX 149,000 MIN 7,570 CFSM 1.51 IN 20.56  
WTR YR 1975 TOTAL 13,170,520 MEAN 36,080 MAX 134,000 MIN 7,760 CFSM 1.26 IN 17.11

03378000 Bonpas Creek at Browns, Ill.

LOCATION.--Lat 38°23'11", long 87°58'32", in NW¼SE¼ sec.33, T.1 S., R.14 W., Wabash County, near center of span on downstream side of bridge on State Highway 15, 0.51 mile (0.8 km) north of Browns and 0.7 mile (1.1 km) upstream from Southern Railway bridge.

DRAINAGE AREA.--228 mi<sup>2</sup> (591 km<sup>2</sup>).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 372.92 ft (113.666 m) above mean sea level. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mile (0.6 km) downstream at datum 2.0 ft (0.6 m) higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mile (0.8 km) downstream at datum 1.0 ft (0.30 m) lower. Auxiliary nonrecording gage near mouth on Wabash River at Grayville read twice daily.

AVERAGE DISCHARGE.--35 years, 222 ft<sup>3</sup>/s (6.287 m<sup>3</sup>/s), 13.22 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,170 ft<sup>3</sup>/s (89.8 m<sup>3</sup>/s) Feb. 25, gage height, 19.42 ft (5.919 m); minimum, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) July 19.

Period of record: Maximum discharge, 7,500 ft<sup>3</sup>/s (212 m<sup>3</sup>/s) May 9, 1961, gage height, 24.04 ft (7.327 m), 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	62	73	1070	1290	1250	1660	173	51	.71	1.9	22
2	427	65	196	1020	1460	570	1090	64	79	.60	1.0	8.9
3	66	201	285	1270	1410	435	270	42	41	.43	7.3	4.7
4	17	1170	210	1250	1140	350	49	31	22	.28	124	2.8
5	11	1600	102	1030	745	250	41	28	86	.43	57	1.6
6	8.6	1520	71	556	493	210	37	31	49	2.5	23	.90
7	6.6	1440	211	184	247	160	35	34	18	14	17	.79
8	5.8	1190	769	366	109	131	36	157	14	9.4	9.1	.65
9	5.0	635	734	828	70	94	38	228	13	5.9	4.9	.54
10	3.9	157	551	1300	60	91	36	120	12	3.6	2.5	.44
11	3.0	619	191	1930	80	291	35	64	14	8.0	1.1	34
12	2.3	715	332	1970	98	1990	32	50	13	34	.36	376
13	1.9	551	432	1880	161	2740	29	41	13	15	.64	191
14	3.4	211	275	1540	131	2940	28	35	12	7.1	13	29
15	58	121	215	945	105	2620	28	31	10	4.2	414	10
16	63	84	289	197	204	2340	28	27	7.8	2.6	165	5.6
17	70	58	206	58	438	2030	29	24	8.7	1.4	155	3.5
18	39	46	123	104	358	1750	30	21	8.9	.55	33	2.2
19	20	67	299	204	176	1710	58	19	8.0	33	21	3.1
20	12	153	324	153	112	1430	45	17	5.9	667	9.9	6.6
21	8.4	87	193	138	87	1160	44	16	4.5	666	5.8	6.5
22	6.4	57	118	95	690	922	32	14	3.7	644	3.6	4.1
23	4.8	44	92	82	2500	442	474	13	2.8	162	2.3	2.5
24	3.9	119	425	79	3090	242	1790	12	2.3	30	1.3	1.2
25	4.0	347	693	110	3160	155	2600	10	1.9	15	.66	.88
26	4.8	263	574	158	2850	118	2630	10	1.7	8.2	.73	.79
27	7.3	110	217	128	2380	493	2380	12	1.7	4.8	.69	.69
28	8.7	70	139	83	1840	1500	1900	10	1.4	3.3	.65	.65
29	10	54	133	88	---	2080	1400	10	1.1	5.6	5.5	.60
30	37	46	151	310	---	2250	778	14	.97	7.5	435	.56
31	60	---	572	1180	---	2120	---	18	---	3.4	112	---
TOTAL	1797.8	11862	9195	20306	25484	34864	17662	1376	508.37	2360.50	1628.93	722.79
MEAN	58.0	395	297	655	910	1125	589	44.4	16.9	76.1	52.5	24.1
MAX	819	1600	769	1970	3160	2940	2630	228	86	667	435	376
MIN	1.9	44	71	58	60	91	28	10	.97	.28	.36	.44
CFSM	.25	1.73	1.30	2.87	3.99	4.93	2.58	.19	.07	.33	.23	.11
IN.	.29	1.94	1.50	3.31	4.16	5.69	2.88	.22	.08	.39	.27	.12

CAL YR 1974 TOTAL 111755.00 MEAN 306 MAX 2000 MIN 0 CFSM 1.34 IN 18.23  
WTR YR 1975 TOTAL 127767.39 MEAN 350 MAX 3160 MIN .28 CFSM 1.54 IN 20.85



## WABASH RIVER BASIN

03378500 Wabash River at New Harmony, Ind.

LOCATION.--Lat 38°07'55", long 87°56'25", in SE¼SE¼ sec.35, T.4 S., R.14 W., Posey County, at bridge on U.S. Highway 460 at New Harmony, at Indiana-Illinois State Line, and at mile 51.5 (82.9 km).

DRAINAGE AREA.--29,234 mi<sup>2</sup> (75,716 km<sup>2</sup>).

PERIOD OF RECORD.--WATER DISCHARGE: October 1938 to September 1947.

CHEMICAL ANALYSIS: October 1974 to current year.

WATER TEMPERATURE: October 1974 to current year.

SEDIMENT DISCHARGE: October 1974 to current year.

GAGE.--See WSP 1305.

AVERAGE DISCHARGE.--9 years (1938-47), 24,380 ft<sup>3</sup>/s (690.4 m<sup>3</sup>/s), 11.34 in/yr (288 mm/yr).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	PH (UNITS)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
NOV. 07...	1300	38100	13.0	7.5	100	380	6.8	111	135	0	2.1	1.0
DEC. 11...	1130	34800	5.0	7.4	60	400	9.7	126	153	0	2.3	.73
JAN. 15...	1130	75800	4.0	7.5	400	320	6.1	99	121	0	3.3	.94
FEB. 19...	1100	41000	5.0	7.6	40	510	8.0	163	199	0	3.6	.55
MAR. 19...	1100	80300	7.5	7.2	100	390	14	110	134	0	2.9	.78
APR. 23...	1100	30400	16.0	7.2	55	520	20	162	198	0	3.0	.68
MAY 22...	1030	26700	25.0	8.2	42	545	2.2	180	220	0	2.7	1.1
JUNE 25...	1030	31200	27.0	7.4	83	485	13	163	199	0	5.9	.88
JULY 31...	1515	8220	29.0	8.1	18	550	3.1	202	246	0	1.7	.74
SEP. 04...	1030	21700	26.0	7.8	130	355	3.7	118	144	0	2.6	1.0

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (Ca+Mg) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (Ca) (MG/L)	DIS-SOLVED MAGNESIUM (Mg) (MG/L)	DIS-SOLVED SODIUM (Na) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)
NOV. 07...	9.3	1.1	.30	160	48	42	13	11	.4	13	5.1
DEC. 11...	10	1.6	.21	190	66	52	15	13	.4	13	2.8
JAN. 15...	15	2.4	.42	150	50	40	12	7.0	.3	9	2.7
FEB. 19...	16	3.0	.17	230	70	62	19	13	.4	11	2.1
MAR. 19...	13	2.1	.22	170	62	44	15	8.3	.3	9	2.1
APR. 23...	13	2.3	.15	240	75	62	20	12	.3	10	1.9
MAY 22...	12	1.6	.15	240	62	59	23	13	.4	10	2.0
JUNE 25...	26	5.0	.29	220	56	58	18	9.4	.3	8	2.9
JULY 31...	7.5	.95	.08	280	78	74	23	16	.4	11	2.6
SEP. 04...	12	1.6	.18	150	31	40	12	8.7	.3	11	3.6

03378500 Wabash River at New Harmony, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Period of record: Maximum discharge, 339,000 ft<sup>3</sup>/s (9,600 m<sup>3</sup>/s) May 26, 1943, gage height, 23.84 ft (7.266 m); minimum daily discharge, 1,800 ft<sup>3</sup>/s (51.0 m<sup>3</sup>/s) Sept. 29, 30, 1941.  
Flood of March 1913 reached a stage of 27.7 ft (8.44 m). Flood of Jan. 31, 1937, reached a stage of 24.4 ft (7.44 m).

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 610 micromhos Oct. 19-21; minimum, 300 micromhos Feb. 28, Mar. 1.  
Period of record: Maximum conductance, 610 micromhos Oct. 19-21, 1974; minimum, 300 micromhos Feb. 28, Mar. 1, 1975.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 4, Aug. 1, 21-25; minimum, 2.0°C Jan. 17, 20, 21, Feb. 9, 10, 12, Mar. 5.  
Period of record: Maximum temperature, 29.0°C July 4, Aug. 1, 21-25, 1975; minimum, 2.0°C Jan. 17, 20, 21, Feb. 9, 10, 12, Mar. 5, 1975.

REMARKS.--Water discharge obtained from station Wabash River at Mount Carmel, Ill. (see station 03377500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	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)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
NOV. 07...	20	52	.2	6.6	244	216	25100	.33	8.5	--	--
DEC. 11...	19	59	.2	7.2	268	244	25200	.36	--	10.8	--
JAN. 15...	10	38	.3	6.4	210	176	43000	.29	--	11.2	1700
FEB. 19...	21	65	.3	7.3	293	288	32400	.40	--	10.6	1300
MAR. 19...	14	50	.3	5.8	219	206	47500	.30	--	10.4	1000
APR. 23...	16	68	.4	4.9	452	283	37100	.61	--	8.4	17000
MAY 22...	20	71	.2	2.6	352	299	25400	.48	--	10.2	73000
JUNE 25...	17	49	.4	7.7	306	261	25800	.42	--	7.3	4900
JULY 31...	22	61	.2	2.5	362	323	8030	.49	--	9.2	43000
SEP. 04...	13	40	.1	5.8	249	194	14600	.34	13	4.8	8800

DATE	TIME	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
Y 2...	1030	10	10	20	0	1	1	<.5	.0	<.5	2	2
3...	1030	10	30	40	0	0	0	<.5	.0	<.5	5	5

TE	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
..	1	1	10	10	2	2	10	20	11	11	260
..	0	0	0	10	4	4	10	20	15	16	310

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	595	490	520	515	300	350	400	485	415	485	520
2	---	595	490	495	440	310	345	395	485	435	450	520
3	---	575	520	440	410	320	355	410	510	470	450	520
4	---	540	520	435	---	330	380	420	485	480	355	525
5	---	510	500	460	425	345	390	420	515	490	370	540
6	---	380	490	470	---	370	405	430	515	495	430	550
7	---	370	480	485	---	385	420	445	525	515	430	520
8	---	340	460	495	---	390	430	450	445	520	470	475
9	---	335	460	510	480	430	450	465	450	500	500	420
10	---	380	430	500	480	440	475	470	480	500	500	390
11	---	400	405	450	485	460	495	460	525	515	470	440
12	---	400	470	410	495	480	520	450	540	515	495	475
13	---	430	480	350	510	440	520	475	550	550	510	475
14	---	---	485	350	515	345	530	500	495	550	520	450
15	---	430	495	350	570	350	535	495	480	540	520	480
16	---	440	500	360	500	370	545	495	480	540	485	480
17	---	440	520	385	---	---	555	520	500	540	470	480
18	---	450	530	410	---	380	560	540	515	535	440	480
19	610	460	530	430	540	390	560	550	515	525	475	515
20	610	470	530	450	540	400	565	555	450	485	470	495
21	610	485	530	465	540	400	565	520	430	485	480	480
22	590	470	520	470	530	---	550	535	425	435	485	410
23	590	480	---	475	515	400	515	520	430	305	495	450
24	570	500	520	480	465	410	415	500	460	350	520	465
25	570	500	520	485	345	425	410	485	495	390	540	485
26	565	490	525	495	325	425	390	525	475	395	550	495
27	570	490	530	515	315	425	345	450	450	460	550	515
28	560	460	520	530	300	415	330	450	420	450	555	520
29	570	460	530	525	---	405	355	460	430	485	560	540
30	570	470	530	520	---	375	370	475	430	510	570	510
31	590	---	540	520	---	345	---	---	---	---	---	470
MONTH	---	595	540	530	570	480	565	555	550	550	570	550

03378500 Wabash River at New Harmony, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.5	6.0	5.0	5.0	5.0	9.0	18.0	22.0	27.0	29.0	26.0
2	---	20.0	6.0	5.0	6.0	5.0	10.0	18.0	22.0	27.0	28.0	27.0
3	---	20.0	6.0	5.0	5.0	3.0	8.0	18.0	22.0	28.0	27.0	27.0
4	---	19.5	5.5	5.0	---	3.0	8.0	18.0	23.0	29.0	26.0	26.0
5	---	17.0	5.5	5.0	5.0	2.0	9.0	18.0	23.0	28.0	27.0	26.0
6	---	16.0	5.5	5.0	---	4.0	10.0	19.0	23.0	27.0	25.0	26.0
7	---	15.0	5.5	5.0	---	6.0	9.0	19.0	23.0	27.0	21.0	25.0
8	---	14.0	5.0	5.0	---	5.0	10.0	19.0	23.0	27.0	25.0	25.0
9	---	13.5	5.0	5.0	2.0	4.0	10.0	19.0	23.0	27.0	25.0	25.0
10	---	14.0	5.0	5.0	2.0	5.0	10.0	18.0	23.0	27.0	26.0	25.0
11	---	13.5	4.5	7.0	3.0	5.0	10.0	19.0	23.0	27.0	26.0	25.0
12	---	12.0	5.0	7.0	2.0	5.0	10.0	19.0	23.0	26.0	28.0	24.0
13	---	10.0	5.0	6.0	3.0	5.0	11.0	18.0	23.0	25.0	28.0	23.0
14	---	---	5.0	5.0	3.0	5.0	11.0	19.0	23.0	25.0	28.0	21.0
15	---	9.0	5.5	4.0	4.0	5.0	11.0	19.0	23.0	25.0	27.0	21.0
16	---	9.0	5.0	4.0	5.0	6.0	11.0	19.0	23.0	25.0	27.0	21.0
17	---	9.5	5.0	2.0	---	---	12.0	19.0	23.0	26.0	27.0	21.0
18	---	9.0	5.0	3.0	---	6.0	15.0	19.0	---	27.0	27.0	21.0
19	15.0	10.0	5.0	3.0	5.0	7.0	13.0	21.0	---	27.0	28.0	22.0
20	15.0	10.0	5.0	2.0	5.0	8.0	15.0	22.0	---	27.0	28.0	20.0
21	14.0	10.0	5.0	2.0	5.0	13.0	15.0	24.0	27.0	27.0	29.0	20.0
22	13.0	9.0	5.0	3.0	6.0	---	15.0	25.0	26.0	27.0	29.0	19.0
23	14.0	10.5	---	3.0	6.0	13.0	16.0	25.0	26.0	27.0	29.0	18.0
24	16.0	9.0	6.0	3.0	6.0	13.0	16.0	25.0	27.0	27.0	29.0	18.0
25	15.0	9.0	5.0	5.0	5.0	10.0	16.0	26.0	27.0	28.0	29.0	16.0
26	16.0	8.5	5.0	5.0	5.0	11.0	16.0	26.0	27.0	28.0	28.0	16.0
27	16.0	8.5	5.0	5.0	5.0	10.0	17.0	25.0	27.0	27.0	27.0	15.0
28	17.0	8.0	5.0	5.0	5.0	10.0	17.0	25.0	28.0	28.0	28.0	17.0
29	17.0	7.0	5.0	7.0	---	9.0	17.0	24.0	28.0	28.0	28.0	17.0
30	17.5	7.5	5.0	6.0	---	8.0	17.0	20.0	27.0	29.0	27.0	18.0
31	18.0	---	5.0	6.0	---	7.0	---	---	---	---	27.0	---
MONTH	---	20.0	6.0	7.0	6.0	13.0	17.0	26.0	28.0	29.0	29.0	27.0

## WABASH RIVER BASIN

03378500 Wabash River at New Harmony, Ind.--Continued

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (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. 07...	1300	13.0	38100	295	30300	--	--	--
DEC. 11...	1130	5.0	34800	112	10500	--	--	--
JAN. 15...	1130	4.0	75800	324	66300	64	74	80
FEB. 19...	1100	5.0	41000	76	8410	--	--	--
MAR. 19...	1100	7.5	80300	166	36000	--	--	--
APR. 23...	1100	16.0	30400	154	12600	--	--	--
MAY 22...	1030	25.0	26700	222	16000	--	--	--
JUNE 25...	1030	27.0	31200	174	14700	--	--	--
JULY 31...	1515	29.0	8220	106	2350	--	--	--
SEP. 04...	1030	26.0	21700	56	3280	--	--	--

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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. 07...	--	--	--	--	--	--	--
DEC. 11...	--	--	--	--	--	--	--
JAN. 15...	85	89	90	91	92	94	100
FEB. 19...	--	--	--	--	--	--	--
MAR. 19...	--	--	--	--	--	--	--
APR. 23...	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--
JUNE 25...	--	--	--	--	--	--	--
JULY 31...	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--

03378550 Big Creek near Wadesville, Ind.

LOCATION.--Lat 38°04'58", long 87°46'10", in SW¼SW¼ 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 (1.0 km) northwest of Blairsville, and 1.6 miles (2.6 km) southeast of Wadesville.

DRAINAGE AREA.--104 mi<sup>2</sup> (269 km<sup>2</sup>).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 370.00 ft (112.776 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 117 ft<sup>3</sup>/s (3.313 m<sup>3</sup>/s), 15.28 in/yr (388 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,610 ft<sup>3</sup>/s (216 m<sup>3</sup>/s) Apr. 24, gage height, 19.72 ft (6.011 m); no flow many days in July, Aug. and Sept.

Period of record: Maximum discharge, 7,610 ft<sup>3</sup>/s (216 m<sup>3</sup>/s) Apr. 24, 1975, gage height, 19.72 ft (6.011 m); no flow at times most years.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.4	53	294	517	85	111	1,750	226	.17	0	15
2	5.1	5.7	98	112	354	68	94	173	63	.14	0	2.3
3	2.9	24	104	236	166	55	73	86	36	.12	15	.99
4	2.2	1,580	59	151	141	51	53	65	23	.10	22	.53
5	1.6	513	49	96	166	52	48	47	20	2.0	5.0	.23
6	1.3	108	44	85	141	51	44	36	24	35	31	3.5
7	.93	67	246	70	89	515	42	42	12	5.0	24	.60
8	.80	48	412	112	72	181	38	729	6.2	0	1.2	.13
9	.74	35	122	214	59	96	36	341	4.3	0	.11	.02
10	.74	29	80	992	51	103	36	97	7.3	3.5	0	0
11	.74	248	68	2,510	53	331	31	69	82	.17	0	100
12	.74	127	80	306	53	3,690	26	58	24	0	0	180
13	2.5	71	72	111	45	1,730	22	42	7.6	0	0	13
14	2.8	51	61	77	46	296	26	32	4.6	0	.48	2.2
15	30	36	86	66	48	322	34	28	3.6	0	27	.78
16	22	28	126	59	52	391	29	21	2.4	0	99	.42
17	9.2	24	77	51	66	200	35	17	36	0	32	.14
18	4.3	21	59	130	60	462	46	15	111	0	2.8	0
19	3.0	41	65	136	51	1,900	385	13	13	.03	.34	0
20	2.4	98	61	103	43	270	48	9.4	4.5	150	0	.11
21	1.5	47	54	77	39	147	23	6.7	3.2	264	0	.20
22	1.3	31	46	64	604	370	17	5.1	2.2	16	0	.01
23	1.5	26	41	61	4,240	193	1,260	3.5	1.6	1.9	0	0
24	2.1	195	170	65	3,640	728	5,150	2.4	1.1	.56	0	.01
25	2.9	163	141	80	562	176	5,770	2.2	.80	.23	0	.12
26	3.7	77	77	75	218	112	2,820	20	.54	.06	0	.06
27	4.0	61	66	53	123	224	305	7.0	.42	0	0	0
28	3.9	46	68	51	103	2,380	114	4.2	.32	0	0	0
29	5.9	35	66	53	-----	2,270	76	12	.27	6.7	14	0
30	15	34	75	81	-----	408	177	40	.20	.32	306	0
31	7.7	-----	117	1,360	-----	151	-----	94	-----	0	136	-----
TOTAL	154.49	3,876.1	2,943	7,931	11,802	18,008	16,969	3,867.5	721.15	486.00	715.93	320.35
MEAN	4.98	129	94.9	256	422	581	566	125	24.0	15.7	23.1	10.7
MAX	30	1,580	412	2,510	4,240	3,690	5,770	1,750	226	264	306	180
MIN	.74	5.7	41	51	39	51	17	2.2	.20	0	0	0
CFSM	.05	1.24	.91	2.46	4.06	5.59	5.44	1.20	.23	.15	.22	.10
IN.	.06	1.39	1.05	2.84	4.22	6.44	6.07	1.38	.26	.17	.26	.11

CAL YR 1974 TOTAL 40,723.82 MEAN 112 MAX 2,600 MIN .29 CFSM 1.08 IN 14.57  
WTR YR 1975 TOTAL 67,794.52 MEAN 186 MAX 5,770 MIN 0 CFSM 1.79 IN 24.25

PEAK DISCHARGE (BASE, 2,400 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-04	1500	17.54	2,510	03-19	0900	17.68	2,720
01-11	0900	18.03	3,300	03-29	1100	18.05	3,330
02-23	2000	18.86	5,120	04-24	1300	19.72	7,610
03-12	1400	18.64	4,570	05-01	0800	17.76	2,840



## 04093000 Deep River at Lake George Outlet at Hobart, Ind.

LOCATION.--Lat 41°32'10", long 87°15'25", in NW¼ sec.32, T.36 N., R.7 W., Lake County, on left bank at upstream side of highway bridge, 300 ft (91 m) upstream from Duck Creek, and 400 ft (122 m) downstream from Lake George Dam.

DRAINAGE AREA.--124 mi<sup>2</sup> (321 km<sup>2</sup>).

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.17 ft (179.274 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft (122 m) upstream at datum 11.80 ft (3.597 m) higher.

AVERAGE DISCHARGE.--28 years, 102 ft<sup>3</sup>/s (2.889 m<sup>3</sup>/s), 11.17 in/yr (284 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) Jan. 12, gage height, 12.59 ft (3.837 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 7, 12, and Sept. 24.

Period of record: Maximum discharge, 3,880 ft<sup>3</sup>/s (110 m<sup>3</sup>/s) Oct. 11, 1954, gage height, 19.48 ft (5.938 m) present datum, site then in use; minimum daily, 4.2 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Sept. 14, 1948.

REMARKS.--Records fair. Flow occasionally regulated by Lake George Dam.

REVISIONS (WATER YEARS).--WSP 1337: 1953. WSP 1507: 1956. WRD Ind. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	55	36	130	149	243	168	575	104	88	29	46
2	20	51	42	170	126	242	157	432	91	71	31	32
3	18	46	57	156	110	210	353	324	111	59	36	26
4	18	84	70	132	100	133	481	264	142	50	35	22
5	16	130	64	110	97	115	460	176	123	45	27	28
6	15	155	56	95	92	103	408	218	114	42	23	41
7	13	137	52	85	87	159	365	214	86	41	23	35
8	15	91	59	79	85	274	303	177	64	39	22	24
9	13	71	79	114	81	256	238	149	53	35	20	20
10	14	61	75	225	79	191	192	126	46	30	18	19
11	15	72	66	898	77	158	158	110	72	31	19	18
12	13	95	65	1,700	75	151	132	97	102	31	20	19
13	20	73	68	1,000	74	149	115	87	88	38	26	18
14	32	70	74	650	74	139	108	77	140	38	28	18
15	30	61	86	400	75	126	100	70	771	31	43	17
16	46	58	142	280	125	111	94	65	1,330	28	47	16
17	40	72	164	200	217	106	88	60	1,030	25	34	16
18	34	86	135	160	449	106	121	57	788	81	24	16
19	34	80	107	120	419	119	511	54	565	297	21	24
20	34	73	88	90	261	128	761	46	386	312	20	31
21	34	60	81	80	214	127	566	48	270	205	23	29
22	34	54	77	76	242	129	430	52	211	139	38	21
23	32	51	69	75	526	137	394	51	112	113	37	16
24	34	48	68	80	785	171	384	48	153	88	26	13
25	35	45	83	146	728	168	449	66	252	72	15	15
26	35	42	102	223	522	144	425	109	334	60	16	15
27	36	43	92	179	374	124	411	120	309	50	16	15
28	37	39	85	135	278	133	897	94	210	43	16	15
29	42	36	76	168	-----	228	870	67	149	38	19	15
30	69	33	75	222	-----	280	638	64	109	34	30	17
31	61	-----	94	186	-----	230	-----	101	-----	31	44	-----
TOTAL	915	2,072	2,487	8,364	6,521	5,090	10,777	4,198	8,315	2,285	826	657
MEAN	29.5	69.1	80.2	270	233	164	359	135	277	73.7	26.6	21.9
MAX	69	155	164	1,700	785	280	897	575	1,330	312	47	46
MIN	13	33	36	75	74	103	88	46	46	25	15	13
CFSM	.24	.56	.65	2.18	1.88	1.32	2.90	1.09	2.23	.59	.21	.18
IN.	.27	.62	.75	2.51	1.96	1.53	3.23	1.26	2.49	.69	.25	.20

CAL YR 1974 TOTAL 44,693 MEAN 122 MAX 1,040 MIN 11 CFSM .98 IN 13.41  
WTR YR 1975 TOTAL 52,507 MEAN 144 MAX 1,700 MIN 13 CFSM 1.16 IN 15.75

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	1000	12.59	1,900	04-28	2000	9.69	979
02-24	1500	8.87	824	06-16	0900	11.00	1,380
04-20	0300	8.98	813				

## 275

LOCATION.--Lat 41°34'30", long 87°17'20", in SE 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 (0.6 km) east of Gary, and 0.4 mile (0.6 km) downstream from confluence of Deep River and Little Calumet River.

PERIOD OF RECORD.--October 1943 to current year (October 1950 to September 1955, and October 1973 to September 1975, high-water records only).

AVERAGE DISCHARGE.--25 years (1943-50, 1955-1973), 139 ft<sup>3</sup>/s (3.936 m<sup>3</sup>/s), 11.80 in/yr (300 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft<sup>3</sup>/s (50.4 m<sup>3</sup>/s) Jan. 12, gage height, 12.42 ft (3.786 m).  
Period of record: Maximum discharge, 3,430 ft<sup>3</sup>/s (97.1 m<sup>3</sup>/s) Oct. 11, 1954; maximum gage height, 16.44 ft (5.011 m) Mar.  
16, 1944, from graph based on gage readings; minimum daily discharge, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) 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. During high stages on Lake Michigan, only periods free from backwater are shown.

REVISIONS (WATER YEARS).--WSP 1034: 1944. WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

## STREAMS TRIBUTARY TO LAKE MICHIGAN

04094000 Little Calumet River at Porter, Ind.

LOCATION.--Lat 41°37'18", long 87°05'13", in 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 (61 m) upstream from bridge on U.S. Highway 20, 0.8 mile (1.3 km) northwest of Porter, and 4.5 miles (7.2 km) upstream from Salt Creek.

DRAINAGE AREA.--66.2 mi<sup>2</sup> (171.5 km<sup>2</sup>)

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 603.48 ft (183.941 m) above mean sea level. Prior to June 26, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 71.4 ft<sup>3</sup>/s (2.022 m<sup>3</sup>/s), 14.65 in/yr (372 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 ft<sup>3</sup>/s (30.6 m<sup>3</sup>/s) Jan. 11, gage height, 8.32 ft (2.536 m); minimum daily, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) July 29 to Aug. 1.  
Period of record: Maximum discharge, 3,110 ft<sup>3</sup>/s (88.1 m<sup>3</sup>/s) Oct. 10, 1954, gage height, 11.66 ft (3.554 m); minimum daily, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Aug. 24, 1965.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1084: 1945. WSP 1337: 1946-47. WRD Ind. 1972: Drainage area.

## DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	51	39	81	69	88	76	207	230	47	28	55
2	34	48	43	71	66	82	76	146	143	44	35	45
3	36	56	48	61	61	74	186	97	255	41	87	40
4	33	77	44	57	58	69	247	87	286	40	53	37
5	31	88	42	53	59	64	243	82	135	39	38	45
6	31	85	40	51	61	65	190	83	83	38	34	56
7	32	71	41	51	53	84	135	72	64	38	32	43
8	32	57	58	77	53	150	96	65	54	38	30	38
9	34	48	57	173	53	110	82	61	48	38	31	36
10	36	45	47	310	46	96	74	57	43	34	31	35
11	34	57	45	982	46	92	68	55	47	40	34	34
12	33	59	51	535	45	92	63	57	50	40	40	36
13	37	50	53	294	45	103	59	52	44	45	36	34
14	50	50	55	185	44	85	57	50	73	45	40	31
15	49	48	67	102	50	76	57	49	367	42	74	30
16	43	46	95	83	76	70	55	46	761	40	69	29
17	43	60	79	69	138	68	55	46	401	36	47	29
18	41	58	64	59	180	64	71	44	227	38	38	29
19	42	50	58	54	125	72	288	41	118	47	35	33
20	43	47	53	50	102	72	282	39	74	47	38	41
21	43	44	52	47	108	68	125	43	62	40	34	35
22	43	42	51	46	120	84	100	53	53	36	84	32
23	44	41	51	45	195	104	118	51	51	34	63	31
24	45	41	59	44	350	91	134	46	74	34	46	30
25	43	41	76	85	210	88	117	181	89	33	38	30
26	43	39	61	89	145	73	86	340	163	30	37	34
27	45	38	54	67	118	69	97	129	104	30	35	33
28	45	38	53	60	100	73	683	69	70	29	33	32
29	49	37	53	90	-----	138	583	56	58	28	39	34
30	59	37	73	105	-----	150	319	64	52	28	47	37
31	53	-----	76	77	-----	89	-----	243	-----	28	69	-----
TOTAL	1,265	1,549	1,738	4,153	2,776	2,703	4,822	2,711	4,279	1,167	1,375	1,084
MEAN	40.8	51.6	56.1	134	99.1	87.2	161	87.5	143	37.6	44.4	36.1
MAX	59	88	95	982	350	150	683	340	761	47	87	56
MIN	31	37	39	44	44	64	55	39	43	28	28	29
CFSM	.62	.78	.85	2.02	1.50	1.32	2.43	1.32	2.16	.57	.67	.55
IN.	.71	.87	.98	2.33	1.56	1.52	2.71	1.52	2.40	.66	.77	.61

CAL YR 1974 TOTAL 25,722 MEAN 70.5 MAX 570 MIN 26 CFSM 1.07 IN 14.45  
WTR YR 1975 TOTAL 29,622 MEAN 81.2 MAX 982 MIN 28 CFSM 1.23 IN 16.65

PEAK DISCHARGE (BASE, 700 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0900	8.32	1,080	06-16	0700	7.86	867
04-28	1600	7.95	909				

04094500 Salt Creek near McCool, Ind.

LOCATION.--Lat 41°35'48", long 87°08'40", in SE¼SE¼ sec.6, T.36 N., R.6 W., Porter County, on left bank on downstream side of highway bridge, 50 ft (15 m) downstream from New York Central Railroad bridge, 1.2 miles (1.9 km) north of McCool, 1.5 miles (2.4 km) upstream from Little Calumet River, and at mile 1.6 (2.6 km).

DRAINAGE AREA.--74.6 mi<sup>2</sup> (193.2 km<sup>2</sup>).

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 594.10 ft (181.082 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 25, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 72.0 ft<sup>3</sup>/s (2.039 m<sup>3</sup>/s), 13.11 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) Jan. 11, gage height, 9.25 ft (2.819 m); minimum daily, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Sept. 17.

Period of record: Maximum discharge, 3,180 ft<sup>3</sup>/s (90.1 m<sup>3</sup>/s) Oct. 11, 1954, gage height, 14.12 ft (4.304 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Sept. 8, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1337: 1946-48(M), 1950(M). WSP 1911: 1958. WRD Ind. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	47	39	92	92	95	88	177	142	52	32	89
2	39	44	47	89	81	83	86	125	105	49	47	56
3	37	53	60	70	73	73	185	104	135	46	74	46
4	34	85	55	63	68	67	263	98	136	45	44	40
5	33	119	49	57	65	63	225	95	94	42	38	54
6	33	137	46	51	67	64	172	99	104	43	36	67
7	33	120	46	49	62	99	141	83	80	42	34	47
8	34	73	64	59	54	189	113	73	64	42	33	39
9	33	57	79	141	51	134	95	71	56	41	32	34
10	31	52	60	217	51	104	85	66	52	39	33	32
11	34	69	52	1,030	50	98	79	62	54	44	38	31
12	33	82	53	588	49	100	74	62	61	45	48	47
13	34	63	58	362	49	116	70	60	53	57	41	44
14	51	58	63	194	48	97	67	58	74	48	38	35
15	52	57	76	119	48	84	66	57	212	42	81	31
16	43	53	126	90	94	78	64	55	656	38	78	30
17	39	71	99	82	128	75	63	53	471	38	53	29
18	37	75	73	70	207	74	73	52	298	83	42	30
19	37	65	60	66	169	85	220	49	163	114	39	36
20	37	58	53	61	107	91	383	48	107	82	44	47
21	37	51	49	56	117	84	233	55	87	55	48	39
22	36	46	47	53	133	100	152	67	79	47	73	34
23	37	44	46	51	250	134	144	62	75	43	55	33
24	38	43	53	51	366	118	171	59	83	43	44	31
25	38	46	79	86	352	116	195	148	138	40	38	31
26	38	47	70	133	199	89	146	157	208	38	39	36
27	38	43	56	103	129	80	125	132	110	36	39	35
28	37	41	51	80	107	87	569	82	81	34	36	33
29	43	38	50	92	-----	156	561	65	67	34	38	32
30	61	37	59	134	-----	164	278	75	58	33	52	39
31	54	-----	73	113	-----	107	-----	206	-----	33	114	-----
TOTAL	1,209	1,874	1,891	4,502	3,266	3,104	5,186	2,655	4,103	1,468	1,481	1,207
MEAN	39.0	62.5	61.0	145	117	100	173	85.6	137	47.4	47.8	40.2
MAX	61	137	126	1,030	366	189	569	206	656	114	114	89
MIN	31	37	39	49	48	63	63	48	52	33	32	29
CFSM	.52	.84	.82	1.94	1.57	1.34	2.32	1.15	1.84	.64	.64	.54
IN.	.60	.93	.94	2.24	1.63	1.55	2.59	1.32	2.05	.73	.74	.60

CAL YR 1974 TOTAL 29,771 MEAN 81.6 MAX 743 MIN 28 CFSM 1.09 IN 14.85  
WTR YR 1975 TOTAL 31,946 MEAN 87.5 MAX 1,030 MIN 29 CFSM 1.17 IN 15.93

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1200	9.25	1,240	06-16	0700	7.29	704
04-28	1700	7.71	785				

## 04095300 Trail Creek at Michigan City, Ind.

LOCATION.--Lat 41°43'00", long 86°51'35", in SW¼NE¼ 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 (1.6 km) upstream from Otter Creek, and 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.--54.1 mi<sup>2</sup> (140.1 km<sup>2</sup>).

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.02 ft (178.009 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 69.2 ft<sup>3</sup>/s (1.960 m<sup>3</sup>/s), 17.37 in/yr (411 mm/yr).

EXTREMES.--Current year: Maximum discharge, 859 ft<sup>3</sup>/s (24.3 m<sup>3</sup>/s) May 31, gage height, 9.22 ft (2.810 m); minimum daily, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Oct. 12.

Period of record: Maximum discharge, 1,110 ft<sup>3</sup>/s (31.4 m<sup>3</sup>/s) Apr. 22, 1973, gage height, 10.66 ft (3.249 m); minimum daily, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) July 20, 1971.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	39	41	86	75	80	81	122	160	43	33	54
2	48	37	45	70	70	69	80	99	128	42	40	47
3	43	58	50	60	65	63	136	86	182	40	62	44
4	37	70	49	59	62	61	157	83	133	40	38	41
5	34	93	46	56	65	60	161	80	95	39	35	45
6	33	69	45	54	69	64	141	79	77	39	34	51
7	32	56	44	53	62	149	124	71	65	38	33	46
8	32	50	58	99	57	182	106	65	62	37	33	42
9	32	44	58	167	55	111	93	63	60	35	32	40
10	32	43	51	337	54	100	83	60	58	32	32	39
11	32	51	49	524	52	95	77	59	57	34	32	38
12	31	53	53	177	52	101	70	59	59	38	33	39
13	33	53	57	105	51	123	66	59	56	46	33	38
14	49	57	57	90	50	96	63	58	69	61	32	37
15	39	55	81	80	66	79	59	57	345	42	52	36
16	35	51	95	66	77	73	57	56	258	39	39	36
17	34	60	67	59	101	70	57	55	114	37	34	36
18	33	59	56	59	142	70	92	54	107	61	33	36
19	34	53	53	58	112	82	306	53	81	69	32	38
20	35	51	50	57	93	84	150	54	68	51	36	48
21	34	48	51	56	110	76	99	60	62	42	44	46
22	33	45	51	56	144	126	135	83	59	39	135	42
23	33	43	51	56	283	130	140	73	56	38	58	40
24	33	43	63	58	255	102	142	114	54	38	44	39
25	36	43	72	103	173	90	112	355	60	37	39	38
26	34	43	57	93	119	78	89	146	61	36	38	39
27	33	42	53	71	97	75	122	92	57	35	37	39
28	33	41	52	64	88	85	452	67	52	35	36	39
29	42	41	52	122	-----	174	239	62	49	35	38	38
30	53	40	76	104	-----	125	143	181	46	34	65	39
31	43	-----	77	80	-----	92	-----	606	-----	33	75	-----
TOTAL	1,120	1,531	1,760	3,179	2,699	2,965	3,832	3,211	2,790	1,265	1,337	1,230
MEAN	36.1	51.0	56.8	103	96.4	95.6	128	104	93.0	40.8	43.1	41.0
MAX	53	93	95	524	283	182	452	606	345	69	135	54
MIN	31	37	41	53	50	60	57	53	46	32	32	36
CFSM	.67	.94	1.05	1.90	1.78	1.77	2.37	1.92	1.72	.75	.80	.76
IN.	.77	1.05	1.21	2.19	1.86	2.04	2.63	2.21	1.92	.87	.92	.85

CAL YR 1974 TOTAL 25,065 MEAN 68.7 MAX 588 MIN 27 CFSM 1.27 IN 17.24  
WTR YR 1975 TOTAL 26,919 MEAN 73.8 MAX 606 MIN 31 CFSM 1.36 IN 18.51

PEAK DISCHARGE (BASE, 200 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-09	0200	4.26	200	04-19	0900	5.78	368	05-31	0600	9.22	859
01-11	0500	8.05	675	04-28	1600	7.04	530	06-03	1900	4.43	218
02-23	0900	5.29	310	05-25	0800	6.62	474	06-15	2200	6.48	455
03-07	2400	4.50	225								

04096100 Galena River near LaPorte, Ind.

LOCATION.--Lat 41°44'54", long 86°40'30", in SE¼ 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 (2.1 km) upstream from Indiana-Michigan State line, and 9.8 miles (15.8 km) north of Courthouse in LaPorte.

DRAINAGE AREA.--17.2 mi<sup>2</sup> (44.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 625.00 ft (190.500 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 25.1 ft<sup>3</sup>/s (0.711 m<sup>3</sup>/s), 19.82 in/yr (503 mm/yr).

EXTREMES.--Current year: Maximum discharge, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s) Jan. 10, gage height, 5.31 ft (1.618 m); minimum daily, 9.1 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Aug. 10.

Period of record: Maximum discharge, about 200 ft<sup>3</sup>/s (5.66 m<sup>3</sup>/s) Feb. 5, 1971 (gage height, unknown); minimum daily, 6.7 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Sept. 13, 1973.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	19	22	32	27	31	28	38	26	15	9.8	15
2	21	18	22	29	25	29	26	32	23	15	11	13
3	20	25	24	27	23	26	33	29	28	14	17	11
4	16	36	22	24	21	26	39	29	26	14	13	11
5	14	47	21	23	21	25	41	28	22	14	11	12
6	14	39	20	22	23	29	41	26	20	14	11	14
7	16	32	21	22	24	65	38	24	18	13	10	13
8	16	26	30	39	19	58	33	23	17	13	9.6	12
9	15	23	28	63	18	39	30	22	17	12	9.2	12
10	14	23	23	93	17	36	27	21	16	12	9.1	11
11	13	29	22	132	16	34	25	20	17	14	9.2	11
12	15	27	28	61	15	37	24	21	17	20	9.4	12
13	15	30	27	45	15	39	22	20	16	17	10	12
14	24	32	26	30	15	33	21	20	24	16	9.9	11
15	20	28	32	28	18	30	21	19	93	15	13	11
16	17	27	37	28	25	29	21	19	75	13	14	11
17	16	35	29	24	33	28	20	18	39	13	15	11
18	16	30	26	24	42	28	34	18	34	14	12	12
19	16	27	24	22	33	28	97	17	27	20	11	13
20	17	27	22	22	30	27	48	16	24	18	11	16
21	17	26	23	19	37	25	37	19	22	15	13	15
22	16	26	23	19	52	35	44	24	20	13	21	14
23	16	25	23	19	100	37	42	22	19	12	21	13
24	16	25	28	19	82	33	43	18	19	13	16	12
25	16	26	30	37	55	30	36	27	21	12	14	12
26	16	25	27	31	41	30	31	27	27	11	12	14
27	16	23	22	25	36	27	40	20	21	11	12	14
28	17	23	23	23	34	27	110	17	21	10	11	13
29	21	21	24	43	-----	35	64	17	18	11	11	14
30	30	22	29	35	-----	36	42	24	16	9.8	14	16
31	22	-----	30	29	-----	30	-----	45	-----	9.4	16	-----
TOTAL	543	822	788	1,089	897	1,022	1,158	720	783	423.2	386.2	381
MEAN	17.5	27.4	25.4	35.1	32.0	33.0	38.6	23.2	26.1	13.7	12.5	12.7
MAX	30	47	37	132	100	65	110	45	93	20	21	16
MIN	13	18	20	19	15	25	20	16	16	9.4	9.1	11
CFSM	1.02	1.59	1.48	2.04	1.86	1.92	2.24	1.35	1.52	.80	.73	.74
IN.	1.17	1.78	1.70	2.36	1.94	2.21	2.50	1.56	1.69	.92	.84	.82

CAL YR 1974 TOTAL 8,844.9 MEAN 24.2 MAX 163 MIN 7.0 CFSM 1.41 IN 19.13  
WTR YR 1975 TOTAL 9,012.4 MEAN 24.7 MAX 132 MIN 9.1 CFSM 1.44 IN 19.49

PEAK DISCHARGE (BASE, 75 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2300	5.31	162	04-19	0700	4.38	120
02-23	0600	4.24	114	04-28	0900	4.66	127
03-07	1900	3.76	88	06-15	1700	4.59	123



## 04097970 Lime Lake Outlet at Panama, Ind.

LOCATION.--Lat 41°42'46", long 85°07'10", in NW¼NW¼ sec.35, T.38 N., R.12 E., Steuben County, on right bank 10 ft (3 m) downstream from dam for Lime Lake, 30 ft (9 m) upstream from bridge on Orland Road, and 0.7 mile (1.1 km) northwest of Panama.

DRAINAGE AREA.--17.5 mi<sup>2</sup> (45.3 km<sup>2</sup>), of which 3.68 mi<sup>2</sup> (9.53 km<sup>2</sup>) 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 (289.560 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 6.95 ft<sup>3</sup>/s (0.197 m<sup>3</sup>/s), 5.39 in/yr (137 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s) Apr. 3, gage height, 4.44 ft (1.353 m); minimum daily discharge, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 10.

Period of record: Maximum discharge 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Apr. 3, 1974, gage height, 4.54 ft (1.384 m); no flow at times most years.

REMARKS.--Records good. Occasional regulation by control structure for Lime Lake.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	2.0	1.4	2.4	6.4	9.3	17	17	20	14	.77	6.3
2	.28	2.0	1.5	2.4	6.2	9.1	19	17	18	13	1.4	6.2
3	.26	2.9	1.4	2.5	6.0	8.9	23	17	16	13	2.3	6.3
4	.28	3.5	1.4	2.4	5.9	8.7	23	16	15	12	2.5	6.3
5	.27	4.0	1.3	2.4	6.1	8.6	22	16	15	12	2.9	6.9
6	.23	4.0	1.3	2.4	6.4	8.4	22	22	14	10	3.8	6.7
7	.18	3.8	1.4	2.4	6.3	9.5	21	22	13	9.8	5.1	6.9
8	.18	3.7	1.8	2.8	6.2	9.8	21	21	13	9.3	6.0	6.3
9	.15	3.6	1.7	3.4	6.1	9.5	19	21	13	8.4	4.7	6.2
10	.14	3.5	1.7	4.2	5.9	9.7	17	20	13	7.4	1.3	6.2
11	.16	3.7	1.7	6.0	5.8	9.5	16	19	16	6.9	1.4	6.5
12	.19	3.5	1.9	5.6	5.7	9.5	15	21	18	6.5	1.5	6.5
13	.31	3.6	1.9	5.3	5.5	9.3	14	21	18	6.0	1.4	5.8
14	.45	4.1	1.9	5.1	5.3	9.0	13	21	19	5.8	1.4	5.5
15	.39	3.9	2.3	4.9	5.5	8.8	12	20	21	5.5	1.8	5.4
16	.41	3.8	2.5	5.0	5.8	8.6	12	19	22	4.0	2.1	6.0
17	.36	3.8	2.5	4.9	6.4	8.4	12	19	21	.46	2.0	6.0
18	.32	2.8	2.3	5.2	6.6	8.4	13	18	20	.41	1.9	5.8
19	.32	1.8	2.3	5.4	6.5	8.7	16	18	19	.34	1.9	6.2
20	.30	1.8	2.2	5.3	6.3	8.6	16	17	18	.36	1.8	6.3
21	.30	1.6	2.6	5.2	6.2	8.8	15	17	18	.34	2.5	5.8
22	.32	1.8	2.7	5.0	6.5	9.1	15	20	18	.36	8.4	5.4
23	.30	1.9	2.4	4.9	8.4	9.4	16	20	18	.36	8.4	5.1
24	.36	1.8	2.4	4.9	9.6	10	17	20	17	.34	8.4	4.5
25	.45	1.7	2.4	5.3	9.9	9.6	16	19	18	.34	8.4	4.1
26	.48	1.8	2.4	5.3	9.8	9.1	16	18	18	.34	7.6	4.0
27	.54	1.6	2.2	5.2	9.5	8.9	16	17	17	.34	6.9	3.9
28	.52	1.4	2.2	5.1	9.4	8.9	17	16	16	.36	6.0	3.9
29	.83	1.3	2.1	6.4	-----	9.1	17	15	16	.39	5.4	3.9
30	1.3	1.3	2.1	6.6	-----	15	18	20	15	.46	5.4	4.1
31	1.6	-----	2.3	6.5	-----	18	-----	22	-----	.54	6.9	-----
TOTAL	12.50	82.0	62.2	140.4	190.2	296.2	506	586	513	149.34	122.27	169.0
MEAN	.40	2.73	2.01	4.53	6.79	9.55	16.9	18.9	17.1	4.82	3.94	5.63
MAX	1.6	4.1	2.7	6.6	9.9	18	23	22	22	14	8.4	6.9
MIN	.14	1.3	1.3	2.4	5.3	8.4	12	15	13	.34	.77	3.9
CFSM	.02	.16	.11	.26	.39	.55	.97	1.08	.98	.28	.23	.32
IN.	.03	.17	.13	.30	.40	.63	1.08	1.25	1.09	.32	.26	.36
CAL YR 1974	TOTAL 3,163.10	MEAN 8.67	MAX 28	MIN .04	CFSM .50	IN 6.72						
WTR YR 1975	TOTAL 2,829.11	MEAN 7.75	MAX 23	MIN .14	CFSM .44	IN 6.01						

04098500 Fawn River near White Pigeon, Mich.

LOCATION.--Lat 41°46'56", long 85°35'00", in SW¼ sec.10, T.8 S., R.11 W., St. Joseph County, on right bank 0.3 mile (0.5 km) downstream from bridge on county highway, 3.1 miles (5.0 km) east of White Pigeon, and 3.5 miles (5.6 km) upstream from Sherman Mill Creek.

DRAINAGE AREA.--192 mi<sup>2</sup> (497 km<sup>2</sup>).

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 (245.486 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 159 ft<sup>3</sup>/s (4.503 m<sup>3</sup>/s), 11.25 in/yr (286 mm/yr).

EXTREMES.--Current year: Maximum discharge, 358 ft<sup>3</sup>/s (10.1 m<sup>3</sup>/s) May 9, 10, gage height, 3.95 ft (1.204 m); minimum, 77 ft<sup>3</sup>/s (2.18 m<sup>3</sup>/s) Oct. 23; gage height, 2.28 ft (0.695 m).

Period of record: Maximum daily discharge, 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s) Jan. 30, 1969; minimum discharge, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s)

Aug. 5, 1964; minimum gage height, 1.72 ft (0.524 m) Jan. 10, Sept. 10, 1964.

A daily mean discharge of 750 ft<sup>3</sup>/s (21.2 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	106	93	156	200	280	227	310	227	294	91	272
2	106	116	123	142	197	268	227	307	222	291	100	264
3	96	128	128	138	192	259	222	304	225	278	113	254
4	117	132	104	160	187	254	231	298	231	268	117	250
5	88	140	109	146	183	248	231	291	239	241	123	250
6	99	144	107	118	184	243	218	313	240	214	122	254
7	91	137	109	153	176	252	235	323	244	204	121	250
8	107	146	113	159	159	255	240	348	244	201	128	242
9	88	143	112	191	155	249	240	356	242	196	130	233
10	99	133	124	195	139	246	237	355	235	188	130	226
11	87	127	133	221	145	247	235	348	237	183	134	221
12	105	136	113	232	140	246	232	344	237	177	129	208
13	84	136	132	189	140	239	230	335	237	169	122	196
14	93	133	150	180	135	235	228	326	240	159	114	189
15	104	130	122	180	135	229	225	318	262	161	119	184
16	112	137	145	190	135	222	223	308	272	160	121	179
17	84	132	163	190	140	205	222	300	287	153	122	177
18	100	138	142	200	145	222	219	290	291	147	118	174
19	89	148	141	200	150	201	282	282	277	151	114	174
20	104	122	160	195	155	208	305	273	266	141	112	173
21	94	131	139	188	164	227	312	272	259	142	117	171
22	104	135	154	197	172	216	319	268	252	141	139	167
23	81	134	149	191	206	205	321	262	248	132	146	161
24	108	124	152	191	241	207	325	252	248	127	167	149
25	104	115	154	195	264	216	321	244	241	116	192	146
26	100	119	143	190	272	231	319	240	246	114	225	148
27	97	121	128	186	283	225	310	252	244	117	254	149
28	95	126	147	182	289	222	309	258	250	112	262	148
29	90	98	163	191	---	207	308	246	272	105	264	152
30	101	125	153	202	---	214	309	240	290	103	272	148
31	105	---	138	202	---	229	---	235	---	95	278	---
TOTAL	3022	3892	4143	5650	5083	7207	7862	9098	7505	5280	4696	5909
MEAN	97.5	130	134	182	182	232	262	293	250	170	151	197
MAX	117	148	163	232	289	280	325	356	291	294	278	272
MIN	81	98	93	118	135	201	218	235	222	95	91	146
CFSM	.51	.68	.70	.95	.95	1.21	1.36	1.53	1.30	.89	.79	1.03
IN.	.59	.75	.80	1.09	.98	1.40	1.52	1.76	1.45	1.02	.91	1.14
CAL YR 1974	TOTAL	69849	MEAN 191	MAX 402	MIN 63	CFSM .99	IN 13.53					
WTR YR 1975	TOTAL	69347	MEAN 190	MAX 356	MIN 81	CFSM .99	IN 13.44					

04099000 St. Joseph River at Mottville, Mich.

LOCATION.--Lat 41°48'03", long 85°45'22", in SW¼ sec.6, T.8 S., R.12 W., Michigan meridian, St. Joseph County, on right bank 500 ft (152 m) upstream from bridge on U.S. Highway 12 at Mottville, 0.4 mile (0.6 km) downstream from Michigan Power Co. hydro-electric plant, 4 miles (6 km) upstream from Pigeon River, and at mile 96 (154 km).

DRAINAGE AREA.--1,866 mi<sup>2</sup> (4,833 km<sup>2</sup>).

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 (230.215 m) above mean sea level (Michigan Power Co. benchmark). Prior to Oct. 1, 1951, at site 0.4 mile (0.6 km) upstream at datum 4.2 ft (1.28 m) higher.

AVERAGE DISCHARGE.--52 years, 1,527 ft<sup>3</sup>/s (43.24 m<sup>3</sup>/s), 11.11 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,970 ft<sup>3</sup>/s (141 m<sup>3</sup>/s) Sept. 22, gage height, 6.61 ft (2.015 m); minimum, 132 ft<sup>3</sup>/s (3.74 m<sup>3</sup>/s) Sept. 22, gage height, 1.09 ft (0.332 m); minimum daily, 570 ft<sup>3</sup>/s (16.1 m<sup>3</sup>/s) Oct. 6.

Period of record: Maximum discharge, 10,700 ft<sup>3</sup>/s (303 m<sup>3</sup>/s) Apr. 27, 1950, gage height, 6.56 ft (1.999 m), site and datum then in use; minimum daily, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	960	1200	815	1020	1980	3250	2360	3010	2450	2230	796	2650
2	846	817	1130	1480	1960	3100	2370	2880	2440	2050	652	2880
3	844	847	1070	1390	1930	2940	2380	2900	2470	1950	824	3000
4	1110	1120	944	943	1860	2900	2370	3000	2390	2030	1180	3080
5	576	1150	979	993	1790	2670	2350	2870	2480	1710	1270	2950
6	570	1370	1280	1600	1790	2550	2380	3020	2430	1690	1400	3100
7	969	1320	945	1010	1740	2540	2320	3370	2420	1700	1040	2960
8	886	1510	857	1400	1580	2590	2410	3500	2380	1870	970	2840
9	766	1060	1190	1410	1500	2610	2410	3550	2370	1630	824	2660
10	954	1100	1130	1610	1440	2590	2440	3460	2250	1460	816	2420
11	940	1590	920	1870	1320	2540	2480	3360	2330	974	1150	2290
12	572	1310	1150	2490	1440	2490	2450	3060	2280	997	1300	2080
13	710	1140	1280	2150	1520	2460	2380	3160	2160	1240	1140	2000
14	602	1150	1020	2020	1500	2410	2250	3120	2090	1590	940	1970
15	879	1270	895	1920	1390	2230	2220	2980	2160	1550	980	1980
16	768	945	1640	2020	1340	2180	2180	2860	2370	1370	589	1760
17	802	1060	1480	1930	1450	2330	2150	2760	2330	1050	1020	1700
18	886	1430	1360	1850	1470	2230	2190	2640	2350	1230	1190	1250
19	780	1210	1360	1840	1500	2200	2230	2550	2580	1200	995	2060
20	640	1280	1590	1840	1500	2180	2670	2390	2470	828	738	1990
21	784	1100	1460	1770	1580	2250	2960	2280	2320	1370	611	1810
22	804	1340	1030	1650	1620	2280	3130	2400	2320	1010	2140	1440
23	798	962	1580	1580	1780	2300	3170	2470	2140	872	1480	1360
24	771	1130	1320	1610	2290	2330	3310	2560	2230	1020	2060	1410
25	1010	1400	1280	1690	2780	2430	3260	2680	2060	1070	2290	1350
26	687	1050	1290	1720	3110	2430	3270	2580	2100	753	1930	1410
27	794	1010	1470	1760	3400	2490	3050	2560	2000	769	2600	1200
28	860	974	767	1780	3240	2480	3170	2470	2030	1030	2590	1200
29	810	1410	1120	1830	---	2450	2970	2400	2220	859	2530	1420
30	827	1100	1600	1860	---	2380	3010	2390	2240	827	2530	1040
31	841	---	1450	1970	---	2470	---	2460	---	836	2590	---
TOTAL	25046	35355	37402	52006	51800	77280	78290	87690	68860	40765	43165	61260
MEAN	808	1179	1207	1678	1850	2493	2610	2829	2295	1315	1392	2042
MAX	1110	1590	1640	2490	3400	3250	3310	3550	2580	2230	2600	3100
MIN	570	817	767	943	1320	2180	2150	2280	2000	753	589	1040
CFSM	.43	.63	.65	.90	.99	1.34	1.40	1.52	1.23	.70	.75	1.09
IN.	.50	.70	.75	1.04	1.03	1.54	1.56	1.75	1.37	.81	.86	1.22

CAL YR 1974 TOTAL 785932 MEAN 2153 MAX 6480 MIN 438 CFSM 1.15 IN 15.67  
WTR YR 1975 TOTAL 658919 MEAN 1805 MAX 3550 MIN 570 CFSM .97 IN 13.14

04099510 Pigeon Creek near Angola, Ind.  
(Formerly published as 04099500 Pigeon Creek and Hogback Lake near Angola)

LOCATION (revised).--Lat 41°38'04", long 85°06'35", in NW¼SE¼ sec.26, T.37 N., R.12 E., Steuben County, on left bank 5 ft (2 m) upstream from bridge on U.S. Highway 20, 1.3 miles (2.1 km) downstream from outlet of Hogback Lake 1.3 miles (2.1 km) southeast of Flint, and 5.8 miles (9.3 km) west of Angola.

DRAINAGE AREA.--106 mi<sup>2</sup> (275 km<sup>2</sup>), of which 22.5 mi<sup>2</sup> (58.3 km<sup>2</sup>) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint". Published as Pigeon Creek near Hogback Lake Outlet near Angola, October 1947 to September 1971, and Pigeon Creek and Hogback Lake near Angola, October 1971 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 940.00 ft (286.512 m) above mean sea level. Prior to October 1947, nonrecording gage at site 0.3 mile (0.5 km) downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 1.2 miles (1.9 km) upstream at same datum. Aug. 4, 1953 to Apr. 3, 1974, recording gage at site 1.3 miles (2.1 km) upstream at same datum. Apr. 18, 1974 to Sept. 2, 1974, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 73.9 ft<sup>3</sup>/s (2.093 m<sup>3</sup>/s), 9.74 in/yr (247 mm/yr).

EXTREMES.--Current year: Maximum discharge, 326 ft<sup>3</sup>/s (9.23 m<sup>3</sup>/s) June 6, gage height, 10.58 ft (3.225 m); minimum daily, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Oct. 18-27.  
Period of record: Maximum discharge, 744 ft<sup>3</sup>/s (21.1 m<sup>3</sup>/s) Apr. 8, 1950, gage height, 14.95 ft (4.557 m); minimum daily, 3.4 ft<sup>3</sup>/s (0.096 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	24	45	107	251	105	198	200	161	37	103
2	16	18	23	46	112	245	107	192	232	148	37	106
3	15	20	23	47	113	240	115	184	270	136	39	108
4	15	22	23	47	110	215	125	172	290	126	40	107
5	15	24	23	46	105	179	138	163	310	119	42	105
6	14	27	23	46	100	162	151	178	320	115	44	101
7	14	27	23	45	98	152	158	213	326	113	45	96
8	14	28	24	46	96	146	160	256	315	108	45	90
9	14	28	24	50	93	143	158	286	300	103	44	84
10	14	27	25	64	93	140	153	305	280	97	43	79
11	14	27	25	85	89	135	146	303	250	91	42	74
12	13	27	25	112	82	130	138	293	250	86	40	69
13	13	26	26	129	82	124	129	271	246	82	43	65
14	13	27	26	135	81	119	121	253	235	77	47	61
15	13	26	28	135	79	114	114	235	230	72	49	58
16	13	26	30	135	68	109	109	215	240	68	50	55
17	13	25	33	134	57	104	104	197	250	64	51	52
18	12	25	37	128	58	100	105	178	235	62	51	50
19	12	25	40	106	63	98	118	163	220	62	50	48
20	12	25	42	101	68	97	142	146	215	62	49	47
21	12	24	43	94	72	98	171	136	210	62	50	46
22	12	25	43	83	79	98	194	140	204	60	67	45
23	12	25	42	80	103	99	208	152	198	59	83	44
24	12	25	42	77	144	100	214	162	190	57	100	42
25	12	25	42	66	190	101	215	165	184	54	113	41
26	12	25	42	62	228	103	214	170	187	51	120	40
27	12	24	42	62	247	104	209	171	188	48	120	39
28	13	24	42	61	256	104	206	165	182	44	116	38
29	14	24	43	55	-----	104	203	150	176	42	110	37
30	15	24	43	76	-----	104	202	146	170	40	103	36
31	16	-----	44	96	-----	105	-----	165	-----	39	103	-----
TOTAL	417	742	1,015	2,494	3,073	4,123	4,632	6,123	7,103	2,508	1,973	1,966
MEAN	13.5	24.7	32.7	80.5	110	133	154	198	237	80.9	63.6	65.5
MAX	16	28	44	135	256	251	215	305	326	161	120	108
MIN	12	17	23	45	57	97	104	136	170	39	37	36
CFSM	.13	.23	.31	.76	1.04	1.25	1.45	1.87	2.24	.76	.60	.62
IN.	.15	.26	.36	.88	1.08	1.45	1.63	2.15	2.49	.88	.69	.69

CAL YR 1974 TOTAL 30,266 MEAN 82.9 MAX 338 MIN 12 CFSM .78 IN 10.62  
WTR YR 1975 TOTAL 36,169 MEAN 99.1 MAX 326 MIN 12 CFSM .93 IN 12.69

NOTE.--No gage-height record from May 28 to June 20.

04099610 Pretty Lake Inlet near Stroh, Ind.

LOCATION.--41°34'49", long 85°14'59", in SW¼NW¼ sec.15, T.36 N., R.11 E., Lagrange County, on left bank 400 ft (122 m) upstream from mouth, 2.6 miles (4.2 km) west of Stroh, and at mile 1.3 (2.1 km).

DRAINAGE AREA.--1.96 mi<sup>2</sup> (5.08 km<sup>2</sup>), of which 1.32 mi<sup>2</sup> (3.42 km<sup>2</sup>) 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 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) notch capacity. Datum of gage is 960.00 ft (292.608 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 0.48 ft<sup>3</sup>/s (0.136 m<sup>3</sup>/s), 3.33 in/yr (85 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6.7 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Apr. 2, gage height, 7.04 ft (2.146 m); minimum daily discharge, 0.15 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) July 31, Aug. 1, Sept. 9, 10, 23, 24, 28-30.

Period of record: Maximum discharge, 33 ft<sup>3</sup>/s (0.93 m<sup>3</sup>/s) Feb. 5, 1971, gage height, 9.30 ft (2.835 m); maximum gage height, 9.46 ft (2.883 m) Feb. 4, 1971 (backwater from ice); no flow for many days in most years.

REMARKS.--Records good.

REVISIONS.--WSP 1911: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.20	.21	.41	.62	.80	.62	1.1	.62	.36	.15	.25
2	.25	.20	.23	.35	.57	.69	1.6	1.1	.55	.34	.27	.20
3	.23	.51	.26	.30	.51	.60	2.4	1.1	.62	.36	.30	.20
4	.23	.52	.26	.32	.46	.52	1.4	1.0	.73	.41	.20	.18
5	.21	.62	.20	.32	.41	.55	1.2	1.1	.82	.36	.23	.25
6	.20	.44	.21	.29	.38	.59	1.1	2.6	.82	.32	.30	.21
7	.20	.36	.27	.25	.36	1.2	.95	1.2	.59	.32	.25	.18
8	.20	.32	.34	1.0	.34	.95	.90	1.0	.55	.32	.25	.16
9	.20	.32	.30	1.4	.32	.82	.86	.90	.62	.30	.23	.15
10	.20	.30	.27	1.2	.30	.69	.82	.78	.62	.27	.23	.15
11	.20	.32	.25	1.5	.28	.69	.78	.73	.90	.27	.23	.25
12	.20	.30	.30	1.1	.27	.69	.73	.90	1.1	.27	.23	.25
13	.18	.30	.32	.73	.26	.69	.62	.86	.73	.27	.23	.20
14	.21	.27	.34	.62	.25	.62	.62	.78	.65	.27	.21	.20
15	.21	.32	.62	.69	.24	.59	.59	.73	.73	.25	.34	.20
16	.21	.36	.69	.46	.25	.52	.55	.65	.90	.23	.27	.23
17	.20	.39	.52	.36	.58	.52	.55	.62	.82	.21	.23	.20
18	.16	.39	.36	.34	.52	.59	1.1	.59	.73	.21	.20	.20
19	.18	.34	.36	.34	.44	.82	1.9	.52	.62	.25	.18	.23
20	.20	.32	.34	.34	.52	.78	1.9	.49	.94	.25	.18	.21
21	.18	.32	.30	.32	.80	.78	1.7	.52	1.3	.21	.29	.20
22	.18	.30	.25	.30	1.9	.70	1.4	.78	.86	.20	.44	.16
23	.18	.30	.30	.27	3.3	.64	1.4	.65	.78	.18	.27	.15
24	.20	.30	.41	.27	2.3	.68	1.4	.52	.78	.20	.21	.15
25	.20	.27	.46	.41	1.3	.64	1.4	.49	.90	.18	.21	.21
26	.20	.25	.36	.44	1.1	.52	1.3	.52	.78	.18	.23	.21
27	.18	.23	.30	.44	1.0	.46	1.3	.46	.65	.18	.20	.18
28	.18	.23	.32	.34	.90	.65	1.2	.39	.55	.16	.16	.15
29	.21	.21	.34	.57	-----	.95	1.3	.36	.49	.16	.23	.15
30	.23	.21	.41	.78	-----	.82	1.2	.77	.39	.16	.25	.15
31	.21	-----	.41	.73	-----	.73	-----	.86	-----	.15	.25	-----
TOTAL	6.29	9.72	10.51	17.19	20.48	21.49	34.79	25.07	22.14	7.80	7.45	5.81
MEAN	.20	.32	.34	.55	.73	.69	1.16	.81	.74	.25	.24	.19
MAX	.27	.62	.69	1.5	3.3	1.2	2.4	2.6	1.3	.41	.44	.25
MIN	.16	.20	.20	.25	.24	.46	.55	.36	.39	.15	.15	.15
CFSM	.10	.16	.17	.28	.37	.35	.59	.41	.38	.13	.12	.10
IN.	.12	.18	.20	.33	.39	.41	.66	.48	.42	.15	.14	.11
CAL YR 1974	TOTAL 243.12	MEAN .67	MAX 4.2	MIN .16	CFSM .34	IN 4.61						
WTR YR 1975	TOTAL 188.74	MEAN .52	MAX 3.3	MIN .15	CFSM .27	IN 3.58						



04099750 Pigeon River near Scott, Ind.

LOCATION.--Lat 41°44'56", long 85°34'35", in SE¼NW¼ sec.14, T.38 N., R.8 E., Lagrange County, on right bank 20 ft (6 m) downstream from bridge on County Road 750 North, 1,200 ft (366 m) downstream from Page ditch, 0.7 mile (1.1 km) south of Indiana-Michigan state line, and 1.2 miles (1.9 km) northwest of Scott.

DRAINAGE AREA.--361 mi<sup>2</sup> (935 km<sup>2</sup>), of which 53.9 mi<sup>2</sup> (139.6 km<sup>2</sup>) 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 (248.412 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 333 ft<sup>3</sup>/s (9.43 m<sup>3</sup>/s), 12.53 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 785 ft<sup>3</sup>/s (22.2 m<sup>3</sup>/s) May 7, gage height, 4.84 ft (1.475 m); minimum daily, 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s) Oct. 25.

Period of record: Maximum discharge, 1,450 ft<sup>3</sup>/s (41.1 m<sup>3</sup>/s) Feb. 1, 1969, gage height, 6.34 ft (1.932 m); minimum daily, 42 ft<sup>3</sup>/s (1.19 m<sup>3</sup>/s) Oct. 21, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2111: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	140	148	228	425	573	381	642	464	509	169	347
2	122	135	149	222	405	573	377	591	454	481	192	323
3	119	143	149	220	385	562	412	561	462	462	270	302
4	120	181	147	218	370	547	454	544	504	473	272	292
5	117	217	143	213	350	529	469	530	612	461	237	294
6	115	215	140	208	335	510	470	633	693	436	296	306
7	112	194	141	207	320	523	465	731	685	406	287	295
8	110	178	158	231	300	552	462	763	642	383	243	277
9	110	169	174	308	290	538	459	678	610	363	218	264
10	110	164	167	363	300	497	454	635	587	344	211	255
11	110	168	163	400	285	474	448	625	613	326	202	248
12	114	168	166	430	270	460	437	644	689	314	196	248
13	110	165	175	440	255	451	424	663	728	310	190	241
14	112	172	177	440	245	440	412	664	690	307	186	226
15	118	172	187	430	235	421	400	619	703	294	208	218
16	117	163	221	400	245	407	387	572	719	281	249	220
17	114	169	233	370	249	396	375	532	740	268	236	224
18	113	181	215	360	256	387	407	495	698	259	215	221
19	112	183	207	330	266	385	584	463	646	259	202	218
20	114	178	201	315	257	394	691	432	604	270	192	219
21	115	174	202	300	257	387	650	411	590	267	194	221
22	114	167	204	290	301	388	572	419	649	251	291	213
23	113	163	202	280	424	392	564	428	632	240	407	208
24	115	161	206	270	558	397	598	398	585	236	367	202
25	101	162	219	260	613	400	636	383	552	228	343	198
26	123	156	220	284	586	389	645	427	546	216	345	199
27	125	152	212	270	553	373	619	422	578	206	327	198
28	121	150	208	251	563	368	640	391	581	197	311	194
29	124	149	206	300	-----	395	686	375	575	188	312	191
30	137	148	211	420	-----	415	687	385	552	161	335	199
31	143	-----	222	460	-----	398	-----	419	-----	152	353	-----
TOTAL	3,628	5,037	5,773	9,718	9,898	13,921	15,265	16,475	18,383	9,548	8,056	7,261
MEAN	117	168	186	313	354	449	509	531	613	308	260	242
MAX	143	217	233	460	613	573	691	763	740	509	407	347
MIN	101	135	140	207	235	368	375	375	454	152	169	191
CFSM	.32	.47	.52	.87	.98	1.24	1.41	1.47	1.70	.85	.72	.67
IN.	.37	.52	.59	1.00	1.02	1.43	1.57	1.70	1.89	.98	.83	.75

CAL YR 1974 TOTAL 132,014 MEAN 362 MAX 1,080 MIN 101 CFSM 1.00 IN 13.60  
WTR YR 1975 TOTAL 122,963 MEAN 337 MAX 763 MIN 101 CFSM .93 IN 12.67



## STREAMS TRIBUTARY TO LAKE MICHIGAN

04100222 North Branch Elkhart River at Cosperville, Ind.

LOCATION.--Lat 41°28'54", long 85°28'32", in NE¼NW¼ sec.22, T.35 N., R.9 E., Noble County, on right bank at downstream side of bridge on County Road 900 North, 1,300 ft (396 m) downstream from Boyd ditch, 1.7 miles (2.7 km) upstream from Hustin ditch, and 3.1 miles (5.0 km) downstream from Waldron Lake.

DRAINAGE AREA.--142 mi<sup>2</sup> (368 km<sup>2</sup>).

PERIOD OF RECORD.--October 1971 to current year. October 1950 to September 1971 at site 3.1 miles (5.0 km) upstream, published as North Branch Elkhart River near Cosperville. Records may not be equivalent.

GAGE.--Water-stage recorder. Datum of gage is 880.12 ft (268.261 m) (revised) above mean sea level (levels by State of Indiana, Department of Natural Resources).

EXTREMES.--Current year: Maximum discharge, 321 ft<sup>3</sup>/s (9.09 m<sup>3</sup>/s) Apr. 30, gage height, 5.81 ft (1.771 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 22, 23.

Period of record: Maximum discharge, 569 ft<sup>3</sup>/s (16.1 m<sup>3</sup>/s) Mar. 10, 1974, gage height, 6.84 ft (2.085 m); minimum daily, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Nov. 21, 1971.

REMARKS.--Records good. Flow regulated at times by dam at Waldron Lake.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	23	47	83	178	236	149	317	128	184	17	29
2	23	21	44	84	167	227	142	309	140	170	23	28
3	22	29	40	83	157	218	162	298	152	158	40	27
4	21	53	39	79	149	210	184	286	165	160	42	26
5	18	57	38	74	141	202	188	275	175	159	64	29
6	18	52	37	72	137	196	184	265	186	152	71	32
7	19	46	39	71	130	207	174	255	187	142	52	30
8	18	41	48	88	120	214	164	242	184	131	38	27
9	17	38	51	135	117	212	153	227	177	122	30	25
10	16	38	49	162	112	208	143	211	168	112	26	22
11	16	39	47	184	107	201	131	198	166	104	25	24
12	15	39	49	188	100	196	117	190	170	93	23	28
13	17	37	51	184	94	192	109	179	169	91	22	26
14	19	46	54	169	93	188	104	168	172	85	22	24
15	21	40	63	154	88	178	104	157	192	77	31	22
16	18	41	82	144	91	172	104	148	209	70	36	23
17	15	43	83	135	95	165	106	138	212	65	34	23
18	15	47	74	124	121	160	127	127	209	61	32	24
19	14	49	68	118	129	162	184	116	202	60	30	25
20	17	48	64	115	121	167	220	105	195	57	27	32
21	15	43	65	105	123	168	232	97	249	52	24	29
22	13	49	63	99	142	163	240	106	252	47	26	27
23	13	46	60	96	202	166	246	109	241	42	28	26
24	16	46	70	94	244	164	264	104	234	37	26	25
25	15	47	80	103	253	161	277	98	267	33	24	22
26	15	46	79	107	251	160	278	100	253	30	27	21
27	15	44	74	105	248	156	277	96	241	25	28	20
28	15	41	71	99	243	152	302	88	227	23	27	20
29	18	42	69	141	-----	156	318	81	212	22	25	20
30	26	45	71	188	-----	157	321	82	199	20	27	21
31	25	-----	79	190	-----	156	-----	104	-----	18	29	-----
TOTAL	551	1,276	1,848	3,773	4,153	5,670	5,704	5,276	5,933	2,602	976	757
MEAN	17.8	42.5	59.6	122	148	183	190	170	198	83.9	31.5	25.2
MAX	26	57	83	190	253	236	321	317	267	184	71	32
MIN	13	21	37	71	88	152	104	81	128	18	17	20
CFSM	.13	.30	.42	.86	1.04	1.29	1.34	1.20	1.39	.59	.22	.18
IN.	.14	.33	.48	.99	1.09	1.49	1.49	1.38	1.55	.68	.26	.20
CAL YR 1974	TOTAL 49,150	MEAN 135	MAX 569	MIN 12	CFSM .95	IN 12.88						
WTR YR 1975	TOTAL 38,519	MEAN 106	MAX 321	MIN 13	CFSM .75	IN 10.09						

04100252 Forker Creek near Burr Oak, Ind.

LOCATION.--Lat 41°19'58", long 85°25'25", in SE¼NE¼ sec.12, T.33 N., R.9 E., Noble County, on right bank 300 ft (91 m) downstream from bridge on State Highway 9, 400 ft (122 m) downstream from Miller Lake outlet, 0.8 mile (1.3 km) northeast (corrected) of Burr Oak, and 4.5 miles (7.2 km) south of Albion.

DRAINAGE AREA.--19.2 mi<sup>2</sup> (49.7 km<sup>2</sup>).

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 889.00 ft (270.967 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--6 years, 16.5 ft<sup>3</sup>/s (0.467 m<sup>3</sup>/s), 11.67 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 115 ft<sup>3</sup>/s (3.26 m<sup>3</sup>/s) June 16, gage height, 3.85 ft (1.174 m); minimum daily, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Oct. 8-12.

Period of record: Maximum discharge, 158 ft<sup>3</sup>/s (4.47 m<sup>3</sup>/s) Mar. 9, 1974, gage height, 4.44 ft (1.353 m); maximum gage height, 4.47 ft (1.362 m) June 7, 1973; minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Sept. 10, 1972.

REMARKS.--Records good. Occasional regulation at Miller Lake outlet.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	1.6	2.4	11	50	40	20	66	62	38	3.1	3.3
2	.54	1.3	2.0	13	45	33	20	56	60	31	3.7	3.1
3	.49	4.1	1.9	15	36	27	33	47	58	25	5.0	3.2
4	.49	6.2	1.9	14	29	23	42	39	57	22	4.4	3.2
5	.49	7.0	1.6	12	25	21	48	33	55	19	4.5	3.6
6	.49	6.5	1.6	11	22	19	48	28	54	16	4.5	3.6
7	.49	5.7	1.6	10	19	19	43	25	48	14	3.5	3.1
8	.44	4.7	2.4	14	17	22	37	22	40	12	2.9	2.8
9	.44	4.7	2.8	20	14	23	31	21	33	11	2.5	2.4
10	.44	4.1	2.4	36	11	24	26	19	28	9.3	2.1	2.0
11	.44	4.7	2.4	54	9.7	23	23	18	31	7.6	2.2	2.3
12	.44	3.8	2.8	62	8.8	22	21	17	36	7.1	2.7	2.4
13	.54	3.3	3.3	56	7.8	21	17	17	35	6.8	2.5	1.8
14	.77	5.4	4.1	44	7.1	20	15	16	41	6.4	2.3	1.4
15	.77	3.8	7.7	34	7.0	19	13	15	86	5.7	4.6	1.3
16	.77	3.3	9.0	25	7.1	18	12	14	110	5.2	4.3	1.4
17	.77	2.8	10	20	8.6	17	11	13	95	5.0	4.0	1.5
18	.68	2.8	11	17	13	17	19	12	81	4.6	3.6	1.5
19	.68	2.8	12	13	19	19	52	11	56	7.3	3.2	1.7
20	.60	3.3	11	9.9	22	21	80	11	47	9.4	2.9	2.0
21	.60	2.9	10	8.1	24	23	81	11	40	8.7	2.5	1.7
22	.60	2.6	8.6	7.0	29	23	80	18	35	8.2	3.1	1.5
23	.60	2.4	8.1	6.2	48	23	76	21	33	7.8	2.8	1.4
24	.60	2.4	9.5	6.0	74	22	82	37	39	7.5	2.8	1.3
25	.54	2.4	10	6.6	83	22	80	45	50	7.0	2.5	1.1
26	.54	2.0	11	6.5	74	20	71	53	78	6.2	2.9	.87
27	.54	2.0	11	6.7	61	19	63	52	90	5.6	2.5	.84
28	.77	1.9	11	7.4	50	16	66	43	75	5.1	2.6	.75
29	.87	1.6	10	20	-----	18	73	35	57	4.5	2.7	.63
30	1.9	1.9	10	45	-----	19	74	35	46	4.0	3.0	.69
31	1.6	-----	11	55	-----	20	-----	57	-----	3.6	4.0	-----
TOTAL	20.53	104.0	204.1	665.4	821.1	673	1,357	907	1,656	330.6	99.9	58.38
MEAN	.66	3.47	6.58	21.5	29.3	21.7	45.2	29.3	55.2	10.7	3.22	1.95
MAX	1.9	7.0	12	62	83	40	82	66	110	38	5.0	3.6
MIN	.44	1.3	1.6	6.0	7.0	16	11	11	28	3.6	2.1	.63
CFSM	.03	.18	.34	1.12	1.53	1.13	2.35	1.53	2.88	.56	.17	.10
IN.	.04	.20	.40	1.29	1.59	1.30	2.63	1.76	3.21	.64	.19	.11

CAL YR 1974 TOTAL 6,497.69 MEAN 17.8 MAX 151 MIN .37 CFSM .93 IN 12.59  
WTR YR 1975 TOTAL 6,897.01 MEAN 18.9 MAX 110 MIN .44 CFSM .98 IN 13.36

NOTE.--No gage-height record May 17 to June 19.

## STREAMS TRIBUTARY TO LAKE MICHIGAN

04100465 Turkey Creek at Syracuse, Ind.

LOCATION.--Lat 41°25'35", long 85°45'16", in NE¼SE¼ sec.6, T.34 N., R.7 E., Kosciusko County, on right bank 75 ft (23 m) upstream from Main Street bridge in Syracuse and 1,500 ft (457 m) downstream from dam at outlet of Syracuse Lake.

DRAINAGE AREA.--43.8 mi<sup>2</sup> (113.4 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 848.00 ft (258.470 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 35.0 ft<sup>3</sup>/s (0.991 m<sup>3</sup>/s), 10.85 in/yr (276 mm/yr).

EXTREMES.--Current year: Maximum discharge, 92 ft<sup>3</sup>/s (2.61 m<sup>3</sup>/s) June 16, gage height, 3.90 ft (1.189 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Oct. 6, 13.

Period of record: Maximum discharge, 129 ft<sup>3</sup>/s (3.65 m<sup>3</sup>/s) Mar. 8, 1974, gage height, 4.54 ft (1.384 m); maximum gage height, 4.59 ft (1.399 m) May 24, 1970; minimum daily discharge 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Oct. 17, 1971.

REMARKS.--Records good. Flow occasionally regulated by dam on Syracuse Lake.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.4	24	20	57	66	63	85	30	67	4.1	8.3
2	2.7	3.5	25	21	54	65	64	84	41	49	6.8	10
3	2.5	6.3	25	26	54	62	66	83	49	32	6.5	13
4	2.5	5.5	25	32	53	64	67	82	63	31	5.1	12
5	2.0	5.9	25	32	53	64	66	81	65	26	5.3	14
6	1.9	5.3	25	32	53	63	65	80	65	8.7	4.6	12
7	2.4	5.1	18	32	52	66	65	79	60	8.8	4.4	12
8	2.4	4.8	17	34	51	67	64	77	56	8.8	4.4	12
9	2.4	3.8	18	38	51	66	63	75	56	7.1	3.8	12
10	2.5	3.6	18	50	49	66	63	74	54	5.7	4.5	12
11	2.6	5.0	18	64	50	65	55	70	63	5.7	4.6	14
12	2.0	4.5	18	62	51	65	36	70	64	5.6	4.3	13
13	1.9	4.5	18	59	50	65	36	67	61	5.5	4.4	12
14	3.0	5.0	17	56	50	64	37	46	65	6.0	4.7	11
15	3.0	12	19	54	49	63	37	46	82	5.8	6.9	12
16	3.0	19	20	54	49	62	37	45	92	5.7	5.1	12
17	2.9	22	20	52	57	62	37	44	88	5.5	4.6	11
18	2.9	26	19	52	69	62	43	44	83	5.6	4.7	11
19	2.3	26	19	51	64	65	46	44	78	4.7	4.9	11
20	2.0	26	18	52	68	65	45	24	75	4.4	4.6	9.5
21	2.6	26	18	51	68	65	43	23	71	4.7	4.6	9.2
22	2.9	26	17	51	70	64	50	25	68	4.8	5.0	9.9
23	3.3	25	18	51	76	63	57	24	67	4.8	4.1	10
24	3.5	25	19	50	78	65	64	24	67	4.8	4.0	10
25	3.8	26	19	51	75	65	70	24	69	5.0	5.2	10
26	3.1	27	19	51	72	64	68	30	69	4.0	6.9	9.9
27	3.2	26	19	51	66	63	69	27	68	3.8	6.1	9.1
28	4.4	26	18	50	67	63	84	25	68	4.2	5.8	8.8
29	5.2	25	18	60	-----	64	89	24	68	4.3	6.4	9.3
30	4.4	24	18	66	-----	64	87	24	67	4.2	7.8	9.5
31	4.3	-----	20	61	-----	64	-----	29	-----	4.2	8.8	-----
TOTAL	90.3	454.2	609	1,466	1,656	1,991	1,736	1,579	1,972	347.4	163.0	329.5
MEAN	2.91	15.1	19.6	47.3	59.1	64.2	57.9	50.9	65.7	11.2	5.26	11.0
MAX	5.2	27	25	66	78	67	89	85	92	67	8.8	14
MIN	1.9	3.5	17	20	49	62	36	23	30	3.8	3.8	8.3
CFSM	.07	.34	.45	1.08	1.35	1.47	1.32	1.16	1.50	.26	.12	.25
IN.	.08	.39	.52	1.25	1.41	1.69	1.47	1.34	1.67	.30	.14	.28
CAL YR 1974	TOTAL 14,595.8	MEAN 40.0	MAX 125	MIN 1.9	CFSM .91	IN 12.40						
WTR YR 1975	TOTAL 12,393.4	MEAN 34.0	MAX 92	MIN 1.9	CFSM .78	IN 10.53						

## 04100500 Elkhart River at Goshen, Ind.

LOCATION.--Lat 41°35'36", long 85°50'55", in NE¼ sec. 8, T.36 N., R.6 E., Elkhart County, on right bank 20 ft (6 m) downstream from River Avenue bridge at Goshen, 0.4 mile (0.6 km) (revised) upstream from Rock Run, and at mile 16.1 (25.9 km).

DRAINAGE AREA.--594 mi<sup>2</sup> (1,538 km<sup>2</sup>).

PERIOD OF RECORD.--April 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 769.43 ft (234.522 m) above mean sea level. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 502 ft<sup>3</sup>/s (14.2 m<sup>3</sup>/s), 11.48 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft<sup>3</sup>/s (53.5 m<sup>3</sup>/s) June 16, gage height, 5.58 ft (1.701 m); minimum daily, 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s) Oct. 26.

Period of record: Maximum discharge, 5,440 ft<sup>3</sup>/s (154 m<sup>3</sup>/s) Apr. 4, 1950, gage height, 10.15 ft (3.094 m); maximum gage height, 10.33 ft (3.149 m) July 10, 1951; minimum daily discharge, 7.0 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) Aug. 11, 1964, result of extreme regulation.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	147	211	362	652	929	626	1,340	693	698	179	222
2	148	145	216	372	627	880	623	1,240	674	664	249	215
3	144	162	217	361	602	840	731	1,170	890	633	447	205
4	139	205	211	361	579	784	857	1,110	1,040	597	369	204
5	134	251	203	353	571	745	863	1,050	991	568	302	216
6	129	277	197	341	560	740	832	995	964	540	283	227
7	132	260	208	338	489	814	810	936	907	515	302	217
8	130	242	225	374	436	1,110	794	883	853	490	271	209
9	128	229	237	516	462	1,020	769	836	818	461	246	199
10	127	218	206	655	473	850	738	793	793	430	232	196
11	127	222	212	856	415	779	703	759	911	408	237	193
12	122	219	219	1,030	471	750	667	763	1,390	396	219	202
13	123	215	222	818	412	765	623	729	1,360	399	212	200
14	130	222	227	568	382	730	588	683	1,070	385	212	195
15	131	215	245	539	394	689	565	645	1,430	363	262	190
16	132	213	286	597	400	655	541	616	1,860	339	267	192
17	136	225	314	626	416	635	526	584	1,660	321	246	193
18	127	242	311	576	577	621	624	552	1,290	314	227	193
19	124	251	297	551	633	630	1,140	527	1,060	317	215	194
20	127	253	290	575	564	670	1,330	506	946	301	208	195
21	124	248	283	447	578	650	997	497	876	285	203	193
22	121	238	284	475	721	640	940	517	817	269	200	192
23	125	230	279	449	1,100	630	1,100	501	806	254	201	191
24	126	233	291	434	1,480	621	1,150	492	860	249	195	185
25	121	230	322	462	1,430	626	1,230	512	935	239	190	183
26	120	223	326	496	1,180	607	1,160	719	937	226	193	188
27	121	221	313	450	1,020	588	1,120	646	869	218	192	190
28	121	219	316	425	906	592	1,410	526	789	213	182	171
29	131	211	312	540	-----	652	1,740	503	773	205	193	174
30	145	208	319	831	-----	724	1,510	609	736	200	204	172
31	146	-----	343	743	-----	669	-----	719	-----	187	229	-----
TOTAL	4,044	6,674	8,142	16,521	18,530	22,635	27,307	22,958	29,998	11,684	7,367	5,896
MEAN	130	222	263	533	662	730	910	741	1,000	377	238	197
MAX	153	277	343	1,030	1,480	1,110	1,740	1,340	1,860	698	447	227
MIN	120	145	197	338	382	588	526	492	674	187	179	171
CFSM	.22	.37	.44	.90	1.11	1.23	1.53	1.25	1.68	.63	.40	.33
IN.	.25	.42	.51	1.03	1.16	1.42	1.71	1.44	1.88	.73	.46	.37

CAL YR 1974 TOTAL 208,883 MEAN 572 MAX 2,500 MIN 117 CFSM .96 IN 13.08  
WTR YR 1975 TOTAL 181,756 MEAN 498 MAX 1,860 MIN 120 CFSM .84 IN 11.38

PEAK DISCHARGE (BASE, 1,800 FT<sup>3</sup>/S).--June 16 (1500) 1,890 ft<sup>3</sup>/s (5.58 ft).

## STREAMS TRIBUTARY TO LAKE MICHIGAN

04101000 St. Joseph River at Elkhart, Ind.

LOCATION.--Lat 41°41'30", long 85°58'30", in SW¼ sec.5, T.37 N., R.5 E., Elkhart County, on left bank 200 ft (61 m) downstream from mouth of Elkhart River, 200 ft (61 m) upstream from Main Street bridge in Elkhart, 2,000 ft (610 m) downstream from Christiana Creek, and 0.5 mile (0.8 km) downstream from Elkhart Hydroelectric Plant.

DRAINAGE AREA.--3,370 mi<sup>2</sup> (8,728 km<sup>2</sup>).

PERIOD OF RECORD.--August 1947 to current year. Gage heights at site 0.8 mile (1.3 km) downstream at different datum from September 1924 to March 1926 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 3,069 ft<sup>3</sup>/s (86.9 m<sup>3</sup>/s), 12.37 in/yr (314 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,890 ft<sup>3</sup>/s (195 m<sup>3</sup>/s) Apr. 30, gage height, 21.81 ft (6.648 m); minimum daily, 1,040 ft<sup>3</sup>/s (29.5 m<sup>3</sup>/s) Oct. 6.

Period of record: Maximum discharge, 18,400 ft<sup>3</sup>/s (521 m<sup>3</sup>/s) Apr. 5, 1950, gage height, 27.82 ft (8.480 m); minimum daily, 336 ft<sup>3</sup>/s (9.52 m<sup>3</sup>/s) Aug. 5, 1964.

REMARKS.--Records good. The flow is regulated by Elkhart Hydroelectric Plant.

REVISIONS.--WSP 2111: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,620	1,670	1,600	2,200	3,780	5,580	4,190	6,080	4,410	4,050	1,470	3,830
2	1,660	1,520	1,930	2,540	3,660	5,310	4,090	5,790	4,310	3,860	1,480	3,940
3	1,490	1,500	1,840	2,410	3,590	5,200	4,310	5,640	4,530	3,690	2,140	4,070
4	1,300	1,760	1,670	2,160	3,480	4,930	4,460	5,720	4,740	3,690	2,410	4,100
5	1,240	1,750	1,700	2,050	3,380	4,760	4,480	5,530	4,810	3,490	2,160	4,070
6	1,040	2,130	1,880	2,390	3,370	4,580	4,480	5,560	4,880	3,120	2,400	4,170
7	1,650	2,240	1,770	2,760	3,260	4,750	4,380	5,850	4,750	3,220	2,150	4,050
8	1,380	2,180	1,630	1,920	2,990	5,130	4,340	5,920	4,550	3,260	1,840	3,930
9	1,510	2,100	2,020	2,860	2,750	5,100	4,360	6,030	4,510	2,980	1,690	3,720
10	1,480	1,870	1,920	3,340	2,660	4,880	4,330	5,850	4,290	2,850	1,720	3,490
11	1,530	2,230	1,720	4,020	2,720	4,650	4,340	5,640	4,450	2,240	2,090	3,200
12	1,110	2,110	1,960	4,720	2,970	4,600	4,270	5,450	5,160	1,990	2,040	3,100
13	1,210	2,040	1,990	4,020	2,860	4,510	4,180	5,320	4,970	2,480	2,050	2,790
14	1,190	1,630	1,990	3,540	2,760	4,390	3,980	5,270	4,650	2,770	1,800	2,920
15	1,400	1,890	1,740	3,980	2,740	4,240	3,860	5,110	5,350	2,710	2,030	2,850
16	1,320	1,760	2,470	3,920	2,580	3,880	3,830	4,900	6,050	2,470	1,650	2,620
17	1,320	1,900	2,520	3,570	2,740	3,640	3,690	4,720	5,810	2,200	1,870	2,560
18	1,400	2,180	2,450	3,780	2,990	3,980	3,920	4,500	5,200	2,070	2,240	2,300
19	1,320	2,000	2,350	3,520	3,150	3,970	5,440	4,320	5,130	2,260	1,850	2,490
20	1,320	2,020	2,890	3,360	3,010	3,970	5,920	4,170	4,790	1,920	1,520	2,970
21	1,190	2,020	2,860	3,160	3,080	3,990	5,660	3,910	4,580	2,240	1,450	2,520
22	1,340	2,060	1,850	3,290	3,500	4,070	5,720	4,040	4,370	2,660	2,730	2,510
23	1,340	1,880	2,510	3,090	4,240	4,050	5,840	4,040	4,230	1,240	2,440	2,230
24	1,300	1,990	2,360	3,020	5,330	4,070	5,990	4,150	4,260	1,820	2,970	2,230
25	1,390	2,120	2,310	3,170	5,650	4,170	6,080	4,320	4,360	1,930	3,280	2,170
26	1,310	1,930	2,270	3,260	5,800	4,150	5,950	4,640	4,170	1,590	3,050	2,230
27	1,360	1,770	2,400	3,210	5,830	4,150	5,790	4,440	4,040	1,560	3,280	1,980
28	1,500	1,770	2,020	3,140	5,610	4,150	6,310	4,170	3,740	1,780	3,610	1,960
29	1,390	2,050	1,910	3,550	-----	4,300	6,510	4,000	4,030	1,640	3,580	2,300
30	1,410	1,950	2,560	3,870	-----	4,280	6,360	4,120	4,130	1,490	3,760	1,980
31	1,540	-----	2,460	3,880	-----	4,330	-----	4,410	-----	1,480	3,830	-----
TOTAL	42,560	58,020	65,550	99,700	100,480	137,760	147,060	153,610	139,250	76,750	72,580	89,280
MEAN	1,373	1,934	2,115	3,216	3,589	4,444	4,902	4,955	4,642	2,476	2,341	2,976
MAX	1,660	2,240	2,890	4,720	5,830	5,580	6,510	6,080	6,050	4,050	3,830	4,170
MIN	1,040	1,500	1,600	1,920	2,580	3,640	3,690	3,910	3,740	1,240	1,450	1,960
CFSM	.41	.57	.63	.95	1.07	1.32	1.45	1.47	1.38	.73	.69	.88
IN.	.47	.64	.72	1.10	1.11	1.52	1.62	1.70	1.54	.85	.80	.99
CAL YR 1974	TOTAL 1,383,537	MEAN 3,791	MAX 11,100	MIN 799	CFSM 1.12	IN 15.27						
WTR YR 1975	TOTAL 1,182,600	MEAN 3,240	MAX 6,510	MIN 1,040	CFSM .96	IN 13.05						



04101500 St. Joseph River at Niles, Mich.

LOCATION.--Lat 41°49'45", long 86°15'35", in SW¼ sec.26, T.7 S., R.17 W., Berrien County, on right bank 100 ft (30 m) upstream from Main Street bridge at Niles, 0.6 mile (1.0 km) downstream from dam at French Paper Co., 1 mile (2 km) upstream from Dowagiac River, and at mile 44 (71 km).

DRAINAGE AREA.--3,666 mi<sup>2</sup> (9,495 km<sup>2</sup>).

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 (192.944 m) above mean sea level. Prior to Oct. 1, 1968, at datum 2.00 ft (0.610 m) higher. Oct. 1, 1930, to Feb. 11, 1931, nonrecording gage on Main Street bridge, on Feb. 12 to June 30, 1931, nonrecording gage 50 ft (15 m) upstream from present site (gage heights referred to mean sea level). Since Apr. 13, 1970, auxiliary water-stage recorder 1.1 mile (1.8 km) 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 (13 km) downstream from base gage at different datum.

AVERAGE DISCHARGE.--45 years, 3,143 ft<sup>3</sup>/s (89.01 m<sup>3</sup>/s), 11.64 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,590 ft<sup>3</sup>/s (243 m<sup>3</sup>/s) Apr. 19, gage height, 9.12 ft (2.780 m); minimum daily, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) Oct. 6.

Period of record: Maximum discharge, 20,200 ft<sup>3</sup>/s (572 m<sup>3</sup>/s) Apr. 5, 1950, gage height, 15.10 ft (4.602 m), present datum; minimum daily, 420 ft<sup>3</sup>/s (11.9 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	1670	2130	2560	3810	5440	4300	6480	4530	3970	2070	3810
2	1670	2070	1800	2400	3640	5280	4210	5960	4410	4120	1810	4220
3	1850	2000	1960	2450	3600	4890	4380	5480	4490	3810	2120	3840
4	2000	2000	2300	2590	3450	4960	4410	5530	4900	3800	2470	4130
5	1650	2530	1750	2190	3450	4540	4500	5500	5010	3740	2550	4160
6	1100	2040	1830	2240	3290	4660	4550	5400	5250	3350	2480	4280
7	1470	2390	2190	2760	3390	4890	4400	5600	4760	3500	2640	3950
8	1770	2360	1900	2810	3040	5050	4310	5690	4500	3310	2110	3930
9	1800	2680	1870	2450	2870	5120	4350	5820	4320	3780	2080	3830
10	1920	2090	2100	3580	2930	4990	4320	5710	4300	2730	2010	3640
11	1350	2230	2170	4370	2800	4550	4270	5480	4370	2810	2620	3500
12	1740	2500	2020	5420	2970	4610	4230	5350	5000	2760	2240	3140
13	1410	2310	2040	4830	2930	4460	4190	5050	5070	2630	2480	3150
14	2010	2360	2360	3650	2800	4460	4060	5290	5030	2670	2370	3090
15	1240	2150	2110	3370	2940	4140	3880	4950	5280	3150	2290	2810
16	1760	2170	2160	3790	2720	4060	3670	4880	6720	2850	2170	2950
17	1460	2040	2660	3280	2980	3620	3690	4800	6550	2750	1900	2950
18	1530	2320	2640	3630	3060	3910	3760	4460	5370	2430	2350	2590
19	1660	2250	2540	3550	3300	3910	6140	4360	5200	2900	2190	2480
20	1810	2130	2700	3260	3110	3930	7090	4290	4940	2660	2030	3310
21	1350	2300	3080	3190	3130	4040	5630	3990	4880	2040	1930	2680
22	1830	2170	2280	3690	3570	4060	5730	4060	4510	2870	2460	2510
23	1500	2420	2190	2960	4520	4110	5800	4080	4280	2540	3290	2510
24	1780	2050	2640	3080	5910	4100	6080	4210	4480	2090	2410	2470
25	1660	2140	2450	3120	5660	3980	5970	4200	5050	1770	3350	2440
26	1760	2260	2420	3280	5740	4280	5860	4700	4660	2210	3620	2290
27	1560	1970	2420	3280	5750	4170	5760	4490	4620	1790	2860	2390
28	1540	1900	2550	3130	5350	4230	6600	4450	4230	1950	3880	2180
29	1940	2050	2140	3560	---	4250	7140	3900	4330	2110	3780	2090
30	1800	2370	2180	4110	---	4430	6730	4270	3520	1850	3760	2430
31	1720	---	2640	3870	---	4210	---	4580	---	1850	4240	---
TOTAL	51580	65920	70220	102450	102710	137330	150010	153010	144560	86790	80560	93750
MEAN	1664	2197	2265	3305	3668	4430	5000	4936	4819	2800	2599	3125
MAX	2010	2680	3080	5420	5910	5440	7140	6480	6720	4120	4240	4280
MIN	1100	1670	1750	2190	2720	3620	3670	3900	3520	1770	1810	2090
CFSM	.45	.60	.62	.90	1.00	1.21	1.36	1.35	1.31	.76	.71	.85
IN.	.52	.67	.71	1.04	1.04	1.39	1.52	1.55	1.47	.88	.82	.95

CAL YR 1974 TOTAL 1500870 MEAN 4112 MAX 11700 MIN 1100 CFSM 1.12 IN 15.23  
WTR YR 1975 TOTAL 1238890 MEAN 3394 MAX 7140 MIN 1100 CFSM .93 IN 12.57



## STREAMS TRIBUTARY TO LAKE ERIE

04177720 Fish Creek at Hamilton, Ind.

LOCATION.--Lat 41°31'55", long 84°54'12", in SE¼SW¼ sec.34, T.36 N., R.14 E., Steuben County, on left bank 6 ft (2 m) upstream from bridge on County Road 775 South, 0.5 mile (0.8 km) downstream from Hamilton Lake outlet, and 0.5 mile (0.8 km) southeast of Hamilton.

DRAINAGE AREA.--37.5 mi<sup>2</sup> (97.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.00 ft (267.005 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 28.3 ft<sup>3</sup>/s (0.801 m<sup>3</sup>/s), 10.25 in/yr (260 mm/yr).

EXTREMES.--Current year: Maximum discharge, 247 ft<sup>3</sup>/s (7.00 m<sup>3</sup>/s) Feb. 24, gage height, 7.96 ft (2.426 m); minimum daily, 2.3 ft (0.065 m<sup>3</sup>/s) Oct. 2.

Period of record: Maximum discharge, 314 ft<sup>3</sup>/s (8.89 m<sup>3</sup>/s) July 4, 1973, gage height, 8.80 ft (2.682 m); minimum daily, 0.52 ft<sup>3</sup>/s (0.015 m<sup>3</sup>/s) Aug. 31, 1971.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	4.3	3.7	21	64	66	31	71	113	32	4.0	25
2	2.3	3.8	4.1	19	50	51	31	54	112	19	4.0	20
3	2.4	6.1	3.8	19	40	42	62	45	106	15	5.5	15
4	2.7	8.2	3.6	18	34	35	67	43	97	21	4.7	13
5	2.8	9.4	3.5	16	31	30	69	36	87	16	8.9	15
6	2.9	8.2	3.4	15	30	28	62	183	77	13	13	16
7	3.1	7.0	3.8	14	25	46	53	223	60	13	8.8	12
8	3.2	5.8	5.9	27	22	55	45	189	47	14	7.5	9.8
9	3.1	4.9	5.8	95	18	47	39	131	39	11	6.5	7.8
10	3.2	4.4	5.4	123	16	44	35	92	33	12	5.5	6.4
11	3.2	4.3	5.2	178	14	39	31	71	45	8.1	4.7	8.2
12	3.5	5.7	5.8	159	15	38	27	68	58	7.7	4.3	11
13	4.0	5.3	6.1	113	14	38	23	60	50	7.0	4.2	8.0
14	5.0	5.4	7.0	76	13	37	21	51	44	6.6	4.1	6.2
15	5.1	4.8	10	52	14	35	20	43	63	6.2	15	5.2
16	5.6	4.3	20	38	15	35	19	34	81	5.9	18	5.1
17	6.0	5.7	20	28	27	35	17	29	66	5.6	15	5.0
18	5.6	6.6	18	25	47	37	52	26	54	6.9	11	5.2
19	5.8	6.0	15	21	44	45	199	22	43	11	9.1	6.2
20	7.0	5.8	14	18	40	51	211	33	43	12	7.3	8.3
21	7.6	4.6	14	15	46	50	165	33	46	9.8	9.1	7.2
22	9.1	3.5	13	13	76	46	125	41	42	8.5	85	5.9
23	9.4	3.8	12	12	188	40	103	37	36	8.1	94	5.0
24	9.1	4.0	16	11	242	43	115	33	54	8.3	73	4.4
25	6.7	3.8	20	15	223	41	105	35	99	7.0	53	3.5
26	7.3	3.7	18	16	165	34	82	49	75	5.6	45	3.2
27	7.0	3.7	17	14	116	28	64	36	58	4.7	37	3.1
28	6.9	3.5	15	13	86	27	82	28	47	4.2	28	2.9
29	8.3	3.3	14	73	-----	39	96	22	47	3.9	24	2.7
30	11	3.3	16	100	-----	38	84	30	38	3.8	23	2.6
31	8.7	-----	20	83	-----	33	-----	98	-----	3.9	32	-----
TOTAL	170.0	153.2	339.1	1,440	1,715	1,253	2,135	1,946	1,860	310.8	664.2	248.9
MEAN	5.48	5.11	10.9	46.5	61.3	40.4	71.2	62.8	62.0	10.0	21.4	8.30
MAX	11	9.4	20	178	242	66	211	223	113	32	94	25
MIN	2.3	3.3	3.4	11	13	27	17	22	33	3.8	4.0	2.6
CFSM	.15	.14	.29	1.24	1.63	1.08	1.90	1.67	1.65	.27	.57	.22
IN.	.17	.15	.34	1.43	1.70	1.24	2.12	1.93	1.85	.31	.66	.25

CAL YR 1974 TOTAL 11,852.3 MEAN 32.5 MAX 310 MIN 1.4 CFSM .87 IN 11.76  
WTR YR 1975 TOTAL 12,235.2 MEAN 33.5 MAX 242 MIN 2.3 CFSM .89 IN 12.14

PEAK DISCHARGE (BASE, 100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	1400	7.00	183	05-07	0300	7.67	228
01-29	2000	5.68	104	06-01	2200	5.96	119
02-24	1500	7.96	247	06-24	2400	6.02	123
04-19	2300	7.43	212				

LOCATION.--Lat 41°23'08", long 84°48'06", in SW<sub>4</sub>SW<sub>4</sub> sec.18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 miles (5.6 km) northeast of Newville and 6.5 miles (10.5 km) northwest of Hicksville, Ohio.

Period of record: Maximum discharge, 9,710 ft<sup>3</sup>/s (275 m<sup>3</sup>/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Sept. 10, 16, 1964.

REVISIONS.--WSP 2112: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	59	87	510	1,390	2,500	562	1,230	640	299	77	372
2	43	58	89	467	1,180	1,700	501	1,190	908	254	74	473
3	45	69	75	359	860	1,300	570	1,110	1,210	208	85	465
4	44	116	74	312	648	1,000	798	995	1,230	375	85	425
5	42	151	78	278	530	750	1,010	808	1,230	703	85	384
6	39	169	91	231	468	620	1,060	1,400	1,350	658	157	385
7	36	172	97	228	395	658	1,000	1,960	1,210	491	107	344
8	36	166	103	398	331	883	864	2,140	978	381	81	285
9	40	144	113	1,350	308	922	747	2,220	718	346	68	241
10	49	127	121	1,780	359	891	647	2,140	544	284	63	209
11	46	116	147	2,190	343	769	568	1,850	499	229	107	197
12	42	106	143	2,350	329	671	503	1,440	714	194	104	316
13	38	100	136	2,500	283	647	446	1,050	737	171	88	330
14	37	101	145	2,400	249	599	398	807	670	161	76	272
15	36	98	200	2,200	240	540	362	683	871	152	99	209
16	35	97	402	1,900	233	485	334	591	1,260	146	164	176
17	35	97	450	1,600	251	504	317	516	1,170	140	144	157
18	37	97	413	1,180	497	676	345	458	923	151	118	149
19	38	106	343	811	626	800	914	406	701	187	100	145
20	39	117	257	605	678	872	1,430	380	546	240	88	146
21	40	119	251	541	768	850	1,710	423	441	237	83	153
22	39	118	241	443	1,030	786	1,980	416	397	183	478	167
23	40	115	219	392	1,860	755	2,120	470	340	149	971	165
24	46	111	245	346	2,370	685	2,070	512	306	131	851	150
25	48	107	343	339	2,600	622	1,840	445	494	119	584	137
26	47	104	369	372	2,770	592	1,540	544	723	109	454	127
27	46	101	336	411	2,890	560	1,270	562	518	101	434	120
28	46	97	301	370	2,740	504	1,180	495	385	95	352	113
29	47	93	271	761	-----	495	1,240	416	319	89	294	108
30	51	89	316	1,390	-----	528	1,210	357	320	85	281	105
31	53	-----	447	1,470	-----	582	-----	305	-----	80	292	-----
TOTAL	1,296	3,320	6,903	30,484	27,226	24,746	29,536	28,319	22,352	7,148	7,044	7,025
MEAN	41.8	111	223	983	972	798	985	914	745	231	227	234
MAX	53	172	450	2,500	2,890	2,500	2,120	2,220	1,350	703	971	473
MIN	35	58	74	228	233	485	317	305	306	80	63	105
CFSM	.07	.18	.37	1.61	1.59	1.31	1.61	1.50	1.22	.38	.37	.38
IN.	.08	.20	.42	1.86	1.66	1.51	1.80	1.73	1.36	.44	.43	.43
CAL YR 1974	TOTAL 208,528		MEAN 571		MAX 3,610		MIN 34		CFSM .94		IN 12.72	
WTR YR 1975	TOTAL 195,399		MEAN 535		MAX 2,890		MIN 35		CFSM .88		IN 11.92	

## STREAMS TRIBUTARY TO LAKE ERIE

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 (213 m) upstream from highway bridge, 0.4 mile (0.6 km) south of Cedarville, 0.5 mile (0.8 km) upstream from Cedar Creek, 0.6 mile (1.0 km) downstream from Cedarville Dam, and at mile 13.9 (22.4 km).

DRAINAGE AREA.--763 mi<sup>2</sup> (1,976 km<sup>2</sup>).

PERIOD OF RECORD.--January 1931 to May 1932, October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.94 ft (231.020 m) above mean sea level. Jan. 1, 1931, to May 31, 1932, non-recording gage on downstream side of highway bridge 700 ft (213 m) downstream from present site at datum approximately 20 ft (6 m) lower.

AVERAGE DISCHARGE.--20 years (1955 to current year), 603 ft<sup>3</sup>/s (17.08 m<sup>3</sup>/s), 10.73 in/yr (273 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 3,270 ft<sup>3</sup>/s (92.6 m<sup>3</sup>/s) Feb. 28, maximum gage height, 9.88 ft (3.011 m) Jan. 11; minimum daily discharge, 42 ft<sup>3</sup>/s (1.19 m<sup>3</sup>/s) Nov. 13.  
Period of record: Maximum discharge, 10,100 ft<sup>3</sup>/s (286 m<sup>3</sup>/s) May 1, 1956, gage height, 18.07 ft (5.508 m), from floodmarks; minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) May 22, 27, 1958.

REMARKS.--Records fair. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	90	102	729	1,460	3,060	812	1,380	1,110	504	98	351
2	47	91	96	732	1,300	2,650	702	1,400	1,090	429	94	426
3	59	124	91	555	960	1,960	840	1,180	1,070	346	100	498
4	70	171	79	424	750	1,270	1,250	1,220	1,370	460	105	498
5	68	179	62	390	640	964	1,230	1,010	1,650	720	76	567
6	67	197	79	346	530	771	1,280	1,100	1,830	660	105	465
7	58	196	116	236	465	1,060	1,240	1,970	1,360	540	177	419
8	53	185	158	693	420	1,210	1,120	2,180	1,080	550	145	416
9	55	183	114	1,730	390	1,160	820	2,400	948	420	78	277
10	61	145	126	1,980	435	1,120	678	2,390	756	370	66	265
11	76	134	131	2,340	420	1,080	678	2,350	762	290	97	418
12	83	230	193	2,390	380	876	606	1,830	1,140	230	118	430
13	55	42	156	2,410	340	956	639	1,420	988	220	136	403
14	62	111	181	2,180	310	792	567	944	868	200	109	391
15	70	97	292	2,070	295	759	473	777	1,030	190	173	306
16	54	96	597	2,220	292	633	507	675	1,470	190	141	226
17	57	139	660	2,050	340	729	486	603	1,230	180	134	222
18	60	124	549	1,550	600	1,020	458	561	1,220	220	172	185
19	44	129	439	984	705	1,220	1,140	475	932	230	134	204
20	52	108	358	636	760	1,240	1,200	1,440	729	300	85	163
21	73	123	275	534	900	1,130	1,710	880	741	290	74	146
22	75	120	248	528	1,200	948	1,930	1,060	588	230	282	121
23	73	122	331	425	1,990	1,000	2,130	1,220	896	200	828	161
24	77	134	369	423	2,500	852	2,500	784	824	170	828	136
25	79	90	600	431	2,850	868	2,380	696	960	150	684	171
26	62	77	564	458	3,100	717	1,640	735	690	140	576	159
27	63	94	472	438	3,200	753	1,750	717	510	130	447	150
28	95	98	399	483	3,270	708	1,550	630	852	120	460	141
29	93	90	358	1,120	-----	780	1,540	543	627	110	390	135
30	91	92	432	1,450	-----	924	1,360	451	579	110	309	131
31	88	-----	687	1,540	-----	642	-----	765	-----	100	364	-----
TOTAL	2,076	3,811	9,314	34,475	30,802	33,852	35,216	35,786	29,900	8,999	7,585	8,581
MEAN	67.0	127	300	1,112	1,100	1,092	1,174	1,154	997	290	245	286
MAX	95	230	687	2,410	3,270	3,060	2,500	2,400	1,830	720	828	567
MIN	44	42	62	236	292	633	458	451	510	100	66	121
CFSM	.09	.17	.39	1.46	1.44	1.43	1.54	1.51	1.31	.38	.32	.37
IN.	.10	.19	.45	1.68	1.50	1.65	1.72	1.74	1.46	.44	.37	.42

CAL YR 1974 TOTAL 259,525 MEAN 711 MAX 4,610 MIN 42 CFSM .93 IN 12.65  
WTR YR 1975 TOTAL 240,397 MEAN 659 MAX 3,270 MIN 42 CFSM .86 IN 11.72

NOTE.--No gage-height record July 4 to Aug. 4.

04180000 Cedar Creek near Cedarville, Ind.

LOCATION.--Lat 41°13'08", long 85°04'35", in NW¼NW¼ sec.19, T.32 N., R.13 E., Allen County, on left bank at downstream side of bridge on State Highway 427, 3 miles (5 km) northwest of Cedarville, 5.8 miles (9.3 km) upstream from mouth, and 10 miles (16 km) south of Auburn.

DRAINAGE AREA.--270 mi<sup>2</sup> (699 km<sup>2</sup>).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.09 ft (237.771 m) above mean sea level. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 236 ft<sup>3</sup>/s (6.684 m<sup>3</sup>/s), 11.87 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,120 ft<sup>3</sup>/s (60.0 m<sup>3</sup>/s) June 26, gage height, 6.84 ft (2.085 m); minimum daily, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) Oct. 7.

Period of record: Maximum discharge, 4,870 ft<sup>3</sup>/s (138 m<sup>3</sup>/s) Apr. 5, 1950, gage height, 11.67 ft (3.557 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 3, 1949.

REMARKS.--Records good.

REVISIONS.--WSP 1912: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	34	37	319	432	340	240	438	874	337	47	81
2	24	33	36	269	320	277	222	342	690	269	46	69
3	24	44	39	195	254	241	417	285	768	228	66	62
4	24	99	36	157	218	213	560	260	851	292	57	80
5	25	95	35	124	203	198	492	228	913	253	51	89
6	24	83	35	108	188	190	401	255	887	203	70	135
7	23	60	34	100	153	357	329	424	511	178	51	88
8	24	50	53	260	150	618	279	320	359	176	46	70
9	26	45	58	1,050	130	399	245	245	280	156	43	62
10	26	41	55	1,050	120	319	222	203	232	135	41	55
11	26	40	53	1,330	115	272	203	177	347	122	40	78
12	26	40	51	1,120	110	259	184	179	681	115	40	144
13	25	39	54	627	105	300	169	178	433	109	38	87
14	25	41	64	450	100	263	158	159	312	107	38	65
15	33	42	106	400	98	221	153	147	910	101	53	57
16	29	38	332	250	100	236	148	135	1,170	94	124	60
17	30	39	283	170	175	249	142	124	680	88	84	55
18	27	42	194	160	627	297	169	117	433	85	68	53
19	28	46	144	140	446	365	945	111	319	91	58	53
20	29	47	114	120	317	416	1,050	643	257	111	52	70
21	28	46	100	115	439	328	657	588	482	90	49	59
22	27	44	86	110	698	294	614	815	414	81	128	50
23	28	41	76	110	1,520	270	620	557	852	75	152	49
24	29	40	137	108	1,910	256	946	357	679	70	100	46
25	30	40	298	126	1,540	266	875	257	1,630	68	84	43
26	29	39	238	180	910	226	570	230	1,790	62	85	44
27	28	37	173	139	598	197	430	198	980	58	79	42
28	27	36	136	124	399	187	838	160	645	56	62	40
29	31	34	113	510	-----	309	1,040	139	568	53	59	39
30	38	34	144	1,050	-----	380	618	173	441	51	65	41
31	36	-----	273	666	-----	284	-----	866	-----	48	75	-----
TOTAL	854	1,389	3,587	11,637	12,375	9,027	13,936	9,310	20,388	3,962	2,051	1,966
MEAN	27.5	46.3	116	375	442	291	465	300	680	128	66.2	65.5
MAX	38	99	332	1,330	1,910	618	1,050	866	1,790	337	152	144
MIN	23	33	34	100	98	187	142	111	232	48	38	39
CFSM	.10	.17	.43	1.39	1.64	1.08	1.72	1.11	2.52	.47	.25	.24
IN.	.12	.19	.49	1.60	1.71	1.24	1.92	1.28	2.81	.55	.28	.27

CAL YR 1974 TOTAL 96,914 MEAN 266 MAX 2,730 MIN 23 CFSM .99 IN 13.35  
WTR YR 1975 TOTAL 90,482 MEAN 248 MAX 1,910 MIN 23 CFSM .92 IN 12.47

PEAK DISCHARGE (BASE, 2,000 FT<sup>3</sup>/S).--June 26 (0215) 2,120 ft<sup>3</sup>/s (6.84 ft).

04181500 St. Marys River at Decatur, Ind.

LOCATION.--Lat 40°50'55", long 84°56'16", in SW¼SW¼ sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 27, 0.5 mile (0.8 km) upstream from Holthouse ditch, 1.3 miles (2.1 km) north of Decatur, and at mile 29.1 (46.8 km).

DRAINAGE AREA.--621 mi<sup>2</sup> (1,608 km<sup>2</sup>).

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 (0.8 km) upstream January 1932 to November 1954, and at present site thereafter are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft (231.782 m) above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 497 ft<sup>3</sup>/s (14.08 m<sup>3</sup>/s), 10.87 in/yr (276 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,630 ft<sup>3</sup>/s (159 m<sup>3</sup>/s) Feb. 26, gage height, 20.17 ft (6.148 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 18, 19.

Period of record: Maximum discharge, 11,300 ft<sup>3</sup>/s (320 m<sup>3</sup>/s) Feb. 10, 11, 1959; maximum gage height, 24.22 ft (7.382 m) Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 ft<sup>3</sup>/s (0.15 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	29	100	1,170	1,680	2,390	1,420	672	138	116	25	409
2	18	25	91	883	1,710	1,210	1,460	617	150	91	24	269
3	18	25	79	686	1,460	689	1,140	534	751	72	32	178
4	18	31	70	785	1,080	456	714	509	997	60	37	239
5	18	183	54	776	780	316	467	426	433	52	58	535
6	18	464	67	680	766	243	325	339	307	58	142	876
7	18	242	73	587	668	324	244	258	347	72	175	547
8	17	198	157	1,130	523	564	204	203	321	181	158	468
9	16	201	729	2,440	444	462	178	169	319	136	115	380
10	15	161	594	2,280	426	492	165	144	268	87	80	222
11	15	120	436	2,650	487	508	152	126	244	67	77	183
12	15	95	605	2,480	379	535	139	123	828	56	62	788
13	14	77	1,130	2,110	234	588	124	116	650	45	66	572
14	19	101	1,450	1,650	195	502	112	102	348	36	127	455
15	15	225	1,680	1,240	183	532	107	98	1,700	30	472	374
16	18	170	2,140	893	243	628	104	94	2,030	26	400	243
17	15	147	1,980	540	811	727	98	88	1,160	25	189	145
18	13	163	1,510	351	1,890	1,110	107	82	644	37	128	105
19	13	146	1,190	274	1,580	1,520	450	78	453	49	98	94
20	15	121	996	171	1,300	1,420	620	78	307	78	72	100
21	18	108	830	165	1,500	1,320	370	77	267	261	52	157
22	21	101	615	193	1,710	1,470	214	1,950	221	361	62	224
23	19	91	430	149	3,450	1,310	243	2,050	327	417	884	195
24	19	112	1,140	132	4,990	1,050	1,560	919	419	325	176	135
25	22	119	2,290	244	5,510	752	1,320	602	288	170	171	98
26	22	105	1,680	496	5,540	491	635	698	567	96	598	80
27	20	91	1,210	339	4,770	379	520	324	712	65	630	65
28	20	80	1,240	387	3,610	358	1,240	186	378	49	287	54
29	20	91	1,170	1,690	-----	1,870	1,260	141	262	39	198	47
30	22	106	989	2,450	-----	1,990	747	123	186	32	210	42
31	25	-----	786	1,820	-----	1,250	-----	118	-----	28	423	-----
TOTAL	554	3,928	27,511	31,841	47,919	27,456	16,439	12,044	16,022	3,217	6,228	8,279
MEAN	17.9	131	887	1,027	1,711	886	548	389	534	104	201	276
MAX	25	464	2,290	2,650	5,540	2,390	1,560	2,050	2,030	417	884	876
MIN	13	25	54	132	183	243	98	77	138	25	24	42
CFSM	.03	.21	1.43	1.65	2.76	1.43	.88	.63	.86	.17	.32	.44
IN.	.03	.24	1.65	1.91	2.87	1.64	.98	.72	.96	.19	.37	.50

CAL YR 1974 TOTAL 214,278 MEAN 587 MAX 9,660 MIN 13 CFSM .95 IN 12.84  
WTR YR 1975 TOTAL 201,438 MEAN 552 MAX 5,540 MIN 13 CFSM .89 IN 12.07

PEAK DISCHARGE (BASE, 2,900 FT<sup>3</sup>/S).--Feb. 26 (0700) 5,630 ft<sup>3</sup>/s (20.17 ft).



## STREAMS TRIBUTARY TO LAKE ERIE

297

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 (40 m) downstream from highway bridge on Anthony Boulevard, 5 miles (8 km) south of Fort Wayne, and 10.8 miles (17.4 km) upstream from mouth.

DRAINAGE AREA.--762 mi<sup>2</sup> (1,974 km<sup>2</sup>).

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 (228.286 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--45 years, 569 ft<sup>3</sup>/s (16.11 m<sup>3</sup>/s), 10.14 in/yr (258 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,020 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) Feb. 26, gage height, 13.10 ft (3.993 m); minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Oct. 11, 12.

Period of record: Maximum discharge, 13,600 ft<sup>3</sup>/s (385 m<sup>3</sup>/s) Feb. 11, 1959; maximum gage height, 19.42 ft (5.919 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Oct. 19, 1934.

REMARKS.--Records good. The flow is sometimes regulated by Grand Lake. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	23	113	1,290	1,970	3,840	1,440	849	168	142	37	501
2	18	25	117	1,240	2,000	1,850	1,680	775	183	110	35	364
3	18	28	102	829	1,770	940	1,480	656	916	88	55	243
4	17	28	97	828	1,320	614	1,030	612	1,220	73	54	287
5	18	60	100	867	965	431	646	536	528	63	51	651
6	18	457	97	780	850	336	436	440	375	71	86	1,310
7	19	331	92	681	831	492	324	358	423	88	172	748
8	18	224	143	1,340	606	749	237	287	392	221	186	518
9	18	231	740	3,250	580	621	209	238	389	200	154	440
10	17	199	797	3,290	620	541	185	202	327	125	107	288
11	15	156	492	3,550	650	558	171	176	298	87	84	318
12	15	118	575	3,250	500	599	154	165	1,010	73	178	779
13	16	102	1,190	2,690	300	691	139	158	793	64	85	806
14	20	103	1,700	2,110	260	603	122	144	425	54	91	561
15	22	220	2,090	1,570	240	558	112	130	2,070	46	288	467
16	24	218	2,680	1,160	319	650	108	123	2,480	40	610	360
17	20	177	2,560	835	839	829	102	117	1,420	36	317	233
18	20	183	1,970	500	2,440	1,290	100	110	786	34	171	154
19	19	175	1,520	350	2,130	1,780	398	103	553	46	120	117
20	18	146	1,280	230	1,530	1,840	694	102	375	58	87	112
21	17	127	1,070	187	1,620	1,470	374	94	326	139	66	125
22	20	120	815	224	2,010	1,610	272	2,380	270	342	96	209
23	23	110	572	189	4,340	1,570	269	2,500	399	433	871	255
24	24	117	1,090	144	5,560	1,260	1,920	1,120	511	425	503	195
25	24	134	2,910	181	5,950	985	2,210	734	351	282	159	137
26	24	122	2,490	439	6,010	646	1,050	852	692	149	433	107
27	24	108	1,480	444	5,920	454	678	395	869	93	935	92
28	25	97	1,340	343	5,330	403	1,590	226	461	69	443	78
29	24	97	1,320	1,790	-----	1,460	1,900	172	320	56	253	70
30	24	108	1,200	3,090	-----	2,680	1,110	150	227	46	274	64
31	23	-----	1,020	2,520	-----	1,770	-----	144	-----	41	379	-----
TOTAL	622	4,344	33,762	40,191	57,460	34,120	21,140	15,048	19,557	3,794	7,380	10,589
MEAN	20.1	145	1,089	1,296	2,052	1,101	705	485	652	122	238	353
MAX	25	457	2,910	3,550	6,010	3,840	2,210	2,500	2,480	433	935	1,310
MIN	15	23	92	144	240	336	100	94	168	34	35	64
CFSM	.03	.19	1.43	1.70	2.69	1.44	.93	.64	.86	.16	.31	.46
IN.	.03	.21	1.65	1.96	2.81	1.67	1.03	.73	.95	.19	.36	.52

CAL YR 1974 TOTAL 282,519 MEAN 774 MAX 10,600 MIN 15 CFSM 1.02 IN 13.79  
WTR YR 1975 TOTAL 248,007 MEAN 679 MAX 6,010 MIN 15 CFSM .89 IN 12.11

PEAK DISCHARGE (BASE, 4,000 FT<sup>3</sup>/S) NOTE.--No gage-height record  
May 21 to July 8.

DATE TIME G.H. DISCHARGE

02-26 0600 13.10 6,020



04182590 Harbor ditch at Fort Wayne, Ind.

LOCATION.--Lat 41°00'27", long 85°10'58", in NE¼SW¼ sec.33, T.30 N., R.12 E., Allen County, on left bank 50 ft (15 m) upstream from bridge on Baer Road, 3.2 miles (5.1 km) upstream from mouth. The stream name changes to Fairfield ditch 0.7 mile (1.1 km) downstream at bridge on Lower Huntington Road.

DRAINAGE AREA.--21.9 mi<sup>2</sup> (56.7 km<sup>2</sup>).

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 (1.1 km) downstream.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft (230.734 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 18.7 ft<sup>3</sup>/s (0.530 m<sup>3</sup>/s), 11.60 in/yr (295 mm/yr).

EXTREMES.--Current year: Maximum discharge, 497 ft<sup>3</sup>/s (14.1 m<sup>3</sup>/s) Feb. 23 or 24, gage height, 9.87 ft (3.008 m), from recorded range in stage; minimum daily, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 27.

Period of record: Maximum discharge, 728 ft<sup>3</sup>/s (20.6 m<sup>3</sup>/s) Feb. 20, 1971, gage height, 11.55 ft (3.520 m); minimum daily, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 27, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.09	.30	37	18	9.8	17	38	11	2.2	.28	16
2	.30	.07	.86	16	14	9.0	27	30	8.8	.92	2.3	8.3
3	.24	6.4	.86	14	11	6.6	37	29	38	.76	32	20
4	.24	5.3	.50	11	8.6	5.8	32	27	38	1.2	3.9	10
5	.37	13	.37	7.9	7.5	3.7	28	26	35	2.0	15	76
6	.26	2.0	.30	6.1	6.4	3.7	26	20	26	2.8	4.3	48
7	1.0	.86	1.4	5.3	6.0	60	24	19	15	2.2	1.1	24
8	.73	.45	6.9	91	5.4	39	16	16	11	1.6	.51	13
9	.45	.33	2.2	129	4.9	16	13	14	8.8	1.3	.22	6.8
10	.50	.33	1.4	129	4.5	14	12	13	11	.85	.18	2.2
11	.45	.80	1.0	140	4.1	9.8	9.9	13	117	.73	15	94
12	.45	.73	3.0	37	3.7	14	8.8	14	119	1.5	9.3	67
13	.45	.93	4.3	21	3.6	13	7.8	10	46	2.7	5.9	31
14	2.8	2.6	7.2	16	3.3	9.8	7.3	8.8	54	3.3	1.9	20
15	2.8	.80	49	9.4	6.0	8.6	7.3	9.9	234	3.0	24	3.6
16	.30	.73	45	5.8	16	8.6	6.8	8.8	163	1.5	4.3	2.6
17	.30	1.1	18	4.5	40	26	7.8	7.3	41	2.2	2.4	1.8
18	.30	.80	9.4	6.1	100	59	13	7.3	24	1.9	1.7	1.3
19	1.3	.80	6.3	4.3	32	87	41	5.9	16	18	.98	1.7
20	4.7	.80	4.9	2.7	20	31	26	8.7	12	5.0	.73	2.2
21	1.0	.50	3.9	2.7	18	18	19	4.6	9.3	1.1	.51	1.6
22	2.5	.45	3.4	2.4	50	14	20	122	13	.34	21	1.2
23	.24	.45	5.8	1.2	170	8.6	26	50	7.8	.18	20	.84
24	.28	.93	70	3.7	250	9.4	184	29	16	.28	6.8	.62
25	.45	.50	65	10	90	6.6	71	20	12	.42	2.4	.45
26	.18	.50	19	7.9	28	4.7	41	24	7.8	.22	25	.76
27	.06	.37	13	4.7	21	4.7	42	16	5.9	.10	6.4	.27
28	.08	.37	8.6	12	15	9.4	161	10	3.9	.10	3.0	.48
29	.28	.33	7.9	151	---	46	71	12	3.0	.11	25	.13
30	.61	.37	16	47	---	23	45	14	2.2	.84	14	.08
31	.13	---	27	24	---	17	---	15	---	.14	19	---
TOTAL	23.99	43.69	402.79	959.7	957.0	595.8	1047.7	642.3	1109.5	59.49	269.11	455.93
MEAN	.77	1.46	13.0	31.0	34.2	19.2	34.9	20.7	37.0	1.92	8.68	15.2
MAX	4.7	13	70	151	250	87	184	122	234	18	32	94
MIN	.06	.07	.30	1.2	3.3	3.7	6.8	4.6	2.2	.10	.18	.08
CFSM	.04	.07	.59	1.42	1.56	.88	1.59	.95	1.69	.09	.40	.69
IN.	.04	.07	.68	1.63	1.63	1.01	1.78	1.09	1.88	.10	.46	.77

CAL YR 1974 TOTAL 8083.56 MEAN 22.1 MAX 652 MIN .06 CFSM 1.01 IN 13.73  
WTR YR 1975 TOTAL 6567.00 MEAN 18.0 MAX 250 MIN .06 CFSM .82 IN 11.15

PEAK DISCHARGE (BASE, 250 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Feb. 16-25.

DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE

a unknown 9.87 497 09-11 1600 8.96 407  
06-15 1600 8.05 334

a Feb. 23 or 24.

## 04183000 Maumee River at New Haven, Ind.

LOCATION.--Lat 41°05'06", long 85°01'20", in SE¼NE¼ sec.2, T.30 N., R.13 E., Allen County, on left bank 600 ft (183 m) upstream from bridge on Landin Road, 1,400 ft (427 m) upstream from the Wabash Railroad bridge, 1.1 miles (1.8 km) northwest of New Haven, 2.8 miles (4.5 km) upstream from Sixmie Creek.

DRAINAGE AREA.--1,967 mi<sup>2</sup> (5,095 km<sup>2</sup>).

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 (220.831 m) 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 (152 m) downstream at same datum.

AVERAGE DISCHARGE.--19 years (1956 to current year), 1,588 ft<sup>3</sup>/s (45.0 m<sup>3</sup>/s), 10.96 in/yr (278 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,100 ft<sup>3</sup>/s (314 m<sup>3</sup>/s) Feb. 25, gage height, 16.86 ft (5.14 m); minimum daily, 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s) Oct. 17, 18.

Period of record: Maximum discharge, 19,100 ft<sup>3</sup>/s (541 m<sup>3</sup>/s) Feb. 16, 1950, gage height, 21.4 ft (6.523 m) at site then in use; minimum daily, 48 ft<sup>3</sup>/s (1.36 m<sup>3</sup>/s) Oct. 6, 13, 1963.

REMARKS.--Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 miles (16.6 km) upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.--WSP 2112: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	156	290	2,550	4,350	7,640	2,630	3,170	2,040	1,060	218	1,060
2	133	165	293	2,550	3,870	5,350	2,810	2,800	1,980	911	185	999
3	123	329	282	1,950	3,560	3,260	3,020	2,600	2,670	749	684	1,210
4	128	448	247	1,520	2,720	2,210	3,040	2,380	4,160	762	386	1,230
5	139	646	201	1,490	2,170	1,560	2,630	2,110	3,940	858	336	2,110
6	142	561	194	1,370	1,870	1,140	2,460	1,890	4,110	1,170	331	2,530
7	142	709	282	1,170	1,690	2,140	2,240	2,700	2,960	1,110	376	1,550
8	128	518	539	2,040	1,190	3,220	1,940	2,980	2,310	965	467	1,180
9	125	480	667	6,400	931	2,770	1,660	3,020	1,890	834	384	912
10	136	444	1,030	7,520	874	2,190	1,340	2,940	1,470	539	268	750
11	128	420	773	8,490	866	2,290	1,340	2,890	2,340	870	261	1,270
12	153	628	812	7,380	933	2,120	1,140	2,530	3,260	304	380	2,070
13	142	254	1,270	6,240	885	2,170	1,030	2,090	2,720	515	361	1,450
14	168	286	1,940	4,980	701	2,030	986	1,360	2,140	447	297	1,160
15	165	344	2,630	4,060	693	1,830	868	1,280	4,800	401	627	939
16	156	400	3,720	3,740	736	1,780	793	1,010	6,960	333	993	767
17	120	408	3,820	3,170	1,270	1,920	814	981	4,700	351	654	600
18	120	384	3,130	2,500	3,360	2,900	821	873	2,920	303	534	492
19	128	392	2,360	1,920	4,170	3,710	1,440	807	2,230	795	419	530
20	144	372	1,950	1,370	3,040	3,840	3,330	2,780	1,740	671	324	506
21	130	311	1,600	840	3,200	3,310	3,180	2,620	2,410	488	297	236
22	150	322	1,240	993	4,070	3,060	3,110	4,210	1,670	682	2,000	435
23	128	295	1,070	867	8,430	3,070	3,420	5,190	2,330	727	1,610	539
24	144	321	1,830	748	10,800	2,740	5,920	3,420	3,120	728	2,020	478
25	142	310	3,920	872	11,100	2,400	6,410	2,080	3,740	614	1,290	391
26	136	274	3,790	1,080	10,400	1,950	4,290	2,320	3,970	421	1,460	346
27	128	268	2,520	1,150	9,530	1,540	3,340	1,850	3,370	320	1,700	370
28	128	268	2,010	1,040	8,910	1,600	4,370	1,280	2,160	284	1,200	214
29	175	256	1,900	3,310	-----	2,510	5,410	1,050	1,630	301	1,060	311
30	222	248	1,900	5,800	-----	4,190	3,950	866	1,290	236	825	297
31	172	-----	2,140	5,440	-----	3,190	-----	1,300	-----	227	993	-----
TOTAL	4,411	11,217	50,350	94,550	106,319	85,630	79,732	69,377	87,030	18,976	22,940	26,932
MEAN	142	374	1,624	3,050	3,797	2,762	2,658	2,238	2,901	612	740	898
MAX	222	709	3,920	8,490	11,100	7,640	6,410	5,190	6,960	1,170	2,020	2,530
MIN	120	156	194	748	693	1,140	793	807	1,290	227	185	214
CFSM	.07	.19	.83	1.55	1.93	1.40	1.35	1.14	1.47	.31	.38	.46
IN.	.08	.21	.95	1.79	2.01	1.62	1.51	1.31	1.65	.36	.43	.51

CAL YR 1974 TOTAL 726,962 MEAN 1,992 MAX 16,600 MIN 92 CFSM 1.01 IN 13.75  
WTR YR 1975 TOTAL 657,464 MEAN 1,801 MAX 11,100 MIN 120 CFSM .92 IN 12.43

PEAK DISCHARGE (BASE, 9,500 FT<sup>3</sup>/S).--Feb. 25 (0500) 11,100 ft<sup>3</sup>/s (16.86 ft).

## STREAMS TRIBUTARY TO LAKE ERIE

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 (130 m) downstream from bridge on State Highway 49, 1 mile (2 km) north of Antwerp, 7 miles (11 km) downstream from Indiana-Ohio state line and 10 miles (16 km) upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 mi<sup>2</sup> (5,514 km<sup>2</sup>).

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft (211.805 m) above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft (122 m) upstream at same datum.

AVERAGE DISCHARGE.--50 years, 1,679 ft<sup>3</sup>/s (47.54 m<sup>3</sup>/s), 10.72 in/yr (272.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) Feb. 25, gage height, 14.47 ft (4.410 m); minimum daily, 119 ft<sup>3</sup>/s (3.37 m<sup>3</sup>/s) Oct. 5.

Period of record: Maximum discharge, 26,200 ft<sup>3</sup>/s (742 m<sup>3</sup>/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) July 24, 1933.

Flood of Mar. 27, 1913, estimated as 40,000 ft<sup>3</sup>/s (1,130 m<sup>3</sup>/s).

REMARKS.--Records good. Low flow slightly regulated by powerplant at Fort Wayne, Ind., 32 miles (51 km) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	200	294	2500	4620	9170	2630	3380	1720	1250	230	1070
2	135	160	313	2610	3880	7110	2630	2920	2030	1040	229	1090
3	135	170	290	2260	3650	4460	2850	2700	2210	854	306	1010
4	128	350	260	1740	3030	3060	2990	2360	3680	775	727	1510
5	119	540	240	1540	2330	2270	2820	2250	4200	761	392	1370
6	137	700	220	1490	2000	1840	2440	1960	4570	988	374	3100
7	142	660	240	1360	1770	1900	2350	2080	3500	1140	346	2250
8	146	780	329	1580	1500	3450	2040	2810	2590	1100	381	1500
9	135	580	550	5250	1000	3090	1840	2820	2120	917	441	1200
10	124	510	782	7110	860	2400	1500	2870	1740	737	370	948
11	135	470	991	8320	1100	2310	1440	2760	1820	720	275	816
12	128	680	760	7930	1100	2230	1320	2670	3410	645	265	2240
13	149	400	916	6740	1000	2100	1130	2200	3180	329	368	1790
14	160	290	1490	5430	880	2160	1090	1740	2390	467	351	1480
15	160	318	2060	4500	760	1900	1010	1360	3390	416	326	1190
16	190	368	3320	3980	800	1850	897	1230	7640	383	741	975
17	165	408	3700	3630	880	1850	873	1060	5990	326	944	790
18	139	419	2800	2780	2660	2680	877	981	3650	335	613	628
19	121	396	2590	2190	4090	3490	1010	901	2540	318	497	520
20	130	403	2080	1710	3430	3890	2350	3300	1930	1060	396	561
21	151	380	1740	1300	2980	3510	3120	4290	2220	628	321	504
22	130	336	1470	1010	3630	3080	3000	4170	2010	500	1420	287
23	144	343	1190	1020	8120	2910	3250	6100	1700	688	1760	477
24	151	323	1390	867	11600	2870	4870	4570	3300	699	2190	521
25	153	340	3050	846	12000	2450	6810	2740	3960	709	1690	517
26	158	332	3900	1030	11500	2160	5440	2320	4250	554	1290	407
27	160	302	2980	1210	10700	1710	3410	2220	3790	394	1730	369
28	150	296	2120	1130	10000	1610	3880	1670	2680	312	1620	383
29	140	293	1910	2130	---	1940	5500	1320	1890	285	1190	265
30	190	283	1980	5200	---	3480	4750	1100	1480	293	1080	331
31	250	---	2130	5750	---	3800	---	1040	---	243	889	---
TOTAL	4628	12030	48085	96143	111870	92730	80117	75892	91580	19866	23752	30099
MEAN	149	401	1551	3101	3995	2991	2671	2448	3053	641	766	1003
MAX	250	780	3900	8320	12000	9170	6810	6100	7640	1250	2190	3100
MIN	119	160	220	846	760	1610	873	901	1480	243	229	265
CFSM	.07	.19	.73	1.46	1.88	1.40	1.25	1.15	1.43	.30	.36	.47
IN.	.08	.21	.84	1.68	1.95	1.62	1.40	1.33	1.60	.35	.42	.53

CAL YR 1974 TOTAL 750258 MEAN 2056 MAX 17700 MIN 115 CFSM .97 IN 13.11  
WTR YR 1975 TOTAL 686792 MEAN 1882 MAX 12000 MIN 119 CFSM .88 IN 12.00

## 05515000 Kankakee River near North Liberty, Ind.

LOCATION.--Lat 41°33'50", long 86°29'50", in NW¼NE¼ 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 (4.3 km) upstream from Little Kankakee River, 4 miles (6 km) northwest of North Liberty, and at mile 126.9 (204.2 km).

DRAINAGE AREA.--174 mi<sup>2</sup> (451 km<sup>2</sup>), of which 58.2 mi<sup>2</sup> (150.7 km<sup>2</sup>) 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 (207.276 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to June 26, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 147 ft<sup>3</sup>/s (4.163 m<sup>3</sup>/s), 11.47 in/yr (291 mm/yr).

EXTREMES.--Current year: Maximum discharge, 513 ft<sup>3</sup>/s (14.5 m<sup>3</sup>/s) Jan. 11, gage height, 7.01 ft (2.137 m); minimum daily, 49 ft<sup>3</sup>/s (1.39 m<sup>3</sup>/s) Aug. 9.

Period of record: Maximum discharge, 686 ft<sup>3</sup>/s (19.4 m<sup>3</sup>/s) Oct. 10, 1954; maximum gage height, 9.04 ft (2.755 m) June 27, 1968; minimum daily discharge, 46 ft<sup>3</sup>/s (1.30 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	103	108	147	189	238	187	296	142	126	61	153
2	101	100	108	144	182	223	185	261	144	123	71	138
3	97	110	105	141	175	211	209	238	149	119	80	124
4	96	140	102	132	169	199	217	227	152	113	74	114
5	93	174	99	125	167	193	222	213	160	115	68	116
6	90	159	98	123	163	192	231	203	165	113	66	119
7	89	135	99	120	156	283	227	192	150	108	64	111
8	89	130	109	148	150	367	215	185	143	103	56	104
9	87	129	116	262	148	313	203	180	137	96	49	99
10	86	143	112	305	145	279	194	175	131	98	57	96
11	90	146	110	491	140	254	183	172	136	90	123	95
12	97	138	117	394	135	248	177	172	138	118	114	95
13	95	135	131	297	130	266	173	166	129	128	104	91
14	93	132	132	245	130	256	169	163	140	118	90	89
15	93	128	133	218	136	237	168	162	245	109	117	87
16	91	122	148	201	137	227	165	157	358	94	128	86
17	92	120	145	188	149	220	163	151	283	92	113	86
18	90	122	135	185	190	218	176	149	252	98	103	85
19	89	143	130	174	182	221	351	146	215	108	95	86
20	89	140	123	166	173	219	356	143	193	103	90	90
21	90	137	121	162	184	209	278	142	179	86	89	88
22	90	135	116	158	221	205	270	145	168	86	95	87
23	89	132	114	155	358	195	269	143	164	89	114	86
24	88	130	115	158	414	194	275	143	163	91	105	84
25	89	128	118	177	380	188	259	144	163	76	97	89
26	88	124	117	185	317	179	229	158	160	77	93	94
27	87	122	116	168	280	174	221	148	151	75	87	92
28	88	117	113	162	257	179	348	139	140	69	83	90
29	92	116	112	204	-----	206	363	135	135	59	121	90
30	105	110	119	225	-----	215	303	137	131	60	125	90
31	115	-----	142	201	-----	199	-----	141	-----	58	170	-----
TOTAL	2,872	3,900	3,663	6,161	5,557	7,007	6,986	5,326	5,116	2,998	2,902	2,954
MEAN	92.6	130	118	199	198	226	233	172	171	96.7	93.6	98.5
MAX	115	174	148	491	414	367	363	296	358	128	170	153
MIN	86	100	98	120	130	174	163	135	129	58	49	84
CFSM	.53	.75	.68	1.14	1.14	1.30	1.34	.99	.98	.56	.54	.57
IN.	.61	.83	.78	1.32	1.19	1.50	1.49	1.14	1.09	.64	.62	.63
CAL YR 1974	TOTAL 55,861		MEAN 153	MAX 361	MIN 66	CFSM .88	IN 11.94					
WTR YR 1975	TOTAL 55,442		MEAN 152	MAX 491	MIN 49	CFSM .87	IN 11.85					

05515400 Kingsbury Creek near LaPorte, Ind.

LOCATION.--Lat 41°32'49", long 86°43'48", in SW¼SE¼ sec.23, T.36 N., R.3 W., LaPorte County, on left bank at upstream side of bridge on County Road 400 South, 0.5 mile (0.8 km) east of State Highway 39, 1.5 miles (2.4 km) west of U.S. Highway 35, and 3 miles (5 km) south of LaPorte city limits.

DRAINAGE AREA.--7.08 mi<sup>2</sup> (18.34 km<sup>2</sup>), of which 4.07 mi<sup>2</sup> (10.54 km<sup>2</sup>) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1970 to current year.

AVERAGE DISCHARGE.--5 years, 4.47 ft<sup>3</sup>/s (0.127 m<sup>3</sup>/s), 8.57 in/yr (218 mm/yr).

GAGE.--Water-stage recorder. Datum of gage is 753.00 ft (229.514 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Aug. 11, gage height, 4.95 ft (1.509 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Oct. 27, Nov. 26 to Dec. 7, 9-11, 20.

Period of record: Maximum discharge, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Apr. 22, 1973, gage height, 5.44 ft (1.658 m); minimum daily, 0.83 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) Dec. 3, 1971.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.2	1.9	2.3	3.1	3.9	3.6	5.3	6.6	4.2	2.2	4.7
2	2.5	2.1	1.9	2.2	3.1	3.7	4.1	5.1	5.2	4.0	2.8	4.4
3	2.3	3.0	1.9	2.3	3.0	3.6	4.3	5.3	6.1	3.9	3.1	4.1
4	2.2	3.3	1.9	2.1	3.0	3.6	4.2	5.2	5.6	3.8	2.5	3.9
5	2.3	4.2	1.9	2.0	3.1	3.7	4.2	5.3	5.0	3.7	2.4	4.8
6	2.2	3.2	1.9	2.1	3.1	3.8	4.1	5.0	4.8	3.6	2.4	4.3
7	2.2	2.9	1.9	2.1	2.9	6.0	3.9	4.8	4.5	3.6	2.3	4.0
8	2.2	2.6	2.2	3.5	2.7	4.4	3.8	4.7	4.4	3.5	2.3	3.8
9	2.2	2.5	1.9	3.4	2.6	4.1	3.7	4.6	4.3	3.4	2.2	3.6
10	2.1	2.4	1.9	8.0	2.5	4.0	3.6	4.6	4.3	3.2	2.3	3.6
11	2.1	2.9	1.9	6.3	2.4	4.0	3.5	4.6	4.5	3.2	11	3.7
12	2.1	2.5	2.0	3.6	2.4	4.5	3.5	4.7	4.5	3.3	19	3.6
13	2.2	2.3	2.0	3.0	2.4	4.1	3.5	4.5	4.1	3.3	8.5	3.4
14	2.5	2.1	2.0	2.8	2.5	4.0	3.5	4.4	5.6	4.1	5.5	3.3
15	2.2	2.0	2.4	2.8	2.8	3.8	3.4	4.4	9.4	3.5	9.4	3.3
16	2.3	2.2	2.4	2.8	2.9	3.8	3.4	4.2	8.2	2.9	6.0	3.3
17	2.2	2.6	2.2	2.7	4.1	3.8	3.5	4.2	6.8	3.4	5.3	3.2
18	2.2	2.4	2.2	2.9	3.9	3.9	6.6	4.1	6.1	2.8	4.6	3.3
19	2.2	2.2	2.1	2.8	3.3	4.1	7.0	4.0	5.6	2.9	4.3	3.7
20	2.1	2.0	1.9	2.8	3.4	3.9	5.0	4.3	5.0	2.9	8.0	3.7
21	2.3	2.0	2.1	2.8	4.5	3.9	4.7	5.3	4.7	3.8	7.3	3.4
22	2.2	2.0	2.1	2.7	7.3	4.0	5.0	7.0	4.5	2.9	11	3.2
23	2.1	2.0	2.0	2.8	10	3.8	5.0	5.3	4.3	3.1	5.8	3.2
24	2.4	2.0	2.2	3.0	7.8	3.9	5.2	4.8	4.3	2.8	4.9	3.1
25	2.2	2.0	2.2	3.7	5.3	3.6	4.8	5.5	4.7	2.7	4.5	3.3
26	2.3	1.9	2.1	3.2	4.5	3.5	4.5	5.5	6.8	3.0	4.4	3.3
27	1.9	1.9	2.1	2.9	4.2	3.6	7.1	4.8	6.0	2.5	4.0	3.2
28	2.0	1.9	2.1	2.9	4.2	4.0	9.3	4.4	5.2	3.0	4.6	3.1
29	2.5	1.9	2.1	4.5	-----	4.6	6.3	4.3	4.8	2.3	6.9	3.1
30	2.5	1.9	2.2	3.4	-----	4.0	5.7	4.4	4.4	3.0	5.8	3.1
31	2.2	-----	2.4	3.2	-----	3.7	-----	8.5	-----	2.5	5.3	-----
TOTAL	69.1	71.1	64.0	97.6	107.0	123.3	140.0	153.1	160.3	100.8	170.6	107.7
MEAN	2.23	2.37	2.06	3.15	3.82	3.98	4.67	4.94	5.34	3.25	5.50	3.59
MAX	2.5	4.2	2.4	8.0	10	6.0	9.3	8.5	9.4	4.2	19	4.8
MIN	1.9	1.9	1.9	2.0	2.4	3.5	3.4	4.0	4.1	2.3	2.2	3.1
CFSM	.32	.33	.29	.44	.54	.56	.66	.70	.75	.46	.78	.51
IN.	.36	.37	.34	.51	.56	.65	.74	.80	.84	.53	.90	.57

CAL YR 1974 TOTAL 1,414.8 MEAN 3.88 MAX 14 MIN 1.9 CFSM .55 IN 7.43  
WTR YR 1975 TOTAL 1,364.6 MEAN 3.74 MAX 19 MIN 1.9 CFSM .53 IN 7.17

PEAK DISCHARGE (BASE, 15 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
May 31 to July 8.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
08-11	1800	4.95	31	08-20	2000	4.74	26
08-15	0700	4.18	15	08-22	0200	4.25	16



## 05515500 Kankakee River at Davis, Ind.

LOCATION.--Lat 41°24'00", long 86°42'04", in SE¼NE¼ 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 (0.8 km) downstream from Mill Creek, 4 miles (6 km) east of Hanna, and at mile 110.9 (178.4 km).

DRAINAGE AREA.--537 mi<sup>2</sup> (1,391 km<sup>2</sup>), of which 137 mi<sup>2</sup> (355 km<sup>2</sup>) 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 (202.594 m) above mean sea level. July 13, 1905, to July 21, 1906, non-recording gage at site 50 ft (15 m) downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mile (0.8 km) downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--51 years, 1924 to current year, 491 ft<sup>3</sup>/s (13.91 m<sup>3</sup>/s), 12.41 in/yr (315 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft<sup>3</sup>/s (38.9 m<sup>3</sup>/s) Apr. 29, gage height, 11.85 ft (3.612 m); minimum daily, 274 ft<sup>3</sup>/s (7.76 m<sup>3</sup>/s) Oct. 27.

Period of record: Maximum discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Dec. 15, 1927, gage height, 9.50 ft (2.896 m), site and datum then in use, from rating curve extended above 520 ft<sup>3</sup>/s (14.7 m<sup>3</sup>/s); maximum gage height at present site and datum, 12.11 ft (3.691 m) Jan. 4, 1973; minimum daily discharge, 154 ft<sup>3</sup>/s (4.36 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	324	344	434	586	799	649	1,230	546	539	281	573
2	298	319	343	436	555	737	621	1,180	518	505	293	517
3	296	327	340	425	528	697	684	1,080	572	484	359	480
4	290	393	337	410	509	652	749	1,000	634	470	345	451
5	285	449	330	400	502	623	769	931	723	450	321	455
6	281	471	328	395	494	614	763	879	921	441	309	487
7	278	444	330	390	468	711	734	810	790	430	299	460
8	275	403	335	430	462	966	698	754	687	419	293	433
9	287	378	340	560	439	957	664	711	625	408	281	422
10	281	362	340	700	430	880	634	671	587	400	275	405
11	279	382	340	880	420	809	608	638	573	395	354	399
12	279	387	345	960	410	776	585	631	593	400	415	408
13	276	378	350	900	408	800	568	616	573	430	400	396
14	294	379	370	800	399	794	554	590	606	427	368	386
15	303	375	380	700	402	753	540	575	997	411	431	380
16	294	376	390	630	429	725	531	556	1,350	393	486	377
17	290	380	410	576	463	704	526	537	1,310	380	441	373
18	291	400	395	551	636	692	564	528	1,180	377	402	372
19	289	410	385	532	628	694	1,090	518	1,040	396	377	376
20	286	400	374	504	567	687	1,320	500	908	395	363	387
21	282	390	367	485	568	666	1,260	507	817	376	425	380
22	286	380	360	475	614	652	1,160	539	736	360	463	376
23	286	370	352	460	870	636	1,140	541	686	353	559	372
24	283	360	359	457	1,080	622	1,160	513	701	356	541	367
25	285	350	373	496	1,110	615	1,150	522	760	342	471	367
26	280	346	372	541	1,030	595	1,050	655	779	330	448	377
27	274	345	370	511	935	585	982	649	709	320	424	372
28	275	343	362	485	859	589	1,240	583	647	315	402	361
29	291	341	355	540	-----	653	1,360	548	600	301	477	356
30	343	342	367	688	-----	721	1,280	535	570	290	542	355
31	345	-----	401	637	-----	687	-----	546	-----	286	577	-----
TOTAL	8,982	11,304	11,144	17,388	16,801	22,091	25,633	21,073	22,738	12,179	12,422	12,220
MEAN	290	377	359	561	600	713	854	680	758	393	401	407
MAX	345	471	410	960	1,110	966	1,360	1,230	1,350	539	577	573
MIN	274	319	328	390	399	585	526	500	518	286	275	355
CFSM	.54	.70	.67	1.04	1.12	1.33	1.59	1.27	1.41	.73	.75	.76
IN.	.62	.78	.77	1.20	1.16	1.53	1.78	1.46	1.58	.84	.86	.85
CAL YR 1974	TOTAL 196,961		MEAN 540	MAX 1,300	MIN 211	CFSM 1.01	IN 13.64					
WTR YR 1975	TOTAL 193,975		MEAN 531	MAX 1,360	MIN 274	CFSM .99	IN 13.44					



05516500 Yellow River at Plymouth, Ind.

LOCATION.--Lat 41°20'25", long 86°18'16", in SE¼ sec.13, T.33 N., R.2 E., Marshall County, on left bank 50 ft (15 m) upstream from LaPorte Street footbridge in Plymouth, 1.1 miles (1.8 km) downstream from Elmer Seltentright (formerly Baker) ditch, 8.1 miles (13.0 km) upstream from Wolf Creek, and at mile 40.3 (64.8 km).

DRAINAGE AREA.--294 mi<sup>2</sup> (761 km<sup>2</sup>), of which 22 mi<sup>2</sup> (57 km<sup>2</sup>) does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.78 ft (233.105 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 249 ft<sup>3</sup>/s (7.052 m<sup>3</sup>/s), 11.50 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft<sup>3</sup>/s (50.4 m<sup>3</sup>/s) June 17, gage height, 12.43 ft (3.789 m); minimum daily, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) Oct. 18.

Period of record: Maximum discharge, 5,390 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) Oct. 12, 13, 1954, gage height, 17.13 ft (5.221 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Dec. 3, 7, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1338: 1950-51. WSP 2115: Drainage area. WRI Ind. 1973: 1972(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	33	43	131	303	568	243	940	631	188	62	145
2	34	30	46	131	248	328	226	852	516	184	69	114
3	30	46	46	115	215	288	326	625	709	168	132	96
4	30	61	44	107	196	261	403	476	883	155	154	83
5	28	77	43	93	189	247	411	401	881	148	96	88
6	28	76	42	88	184	251	366	353	790	136	75	93
7	29	59	46	87	153	518	308	303	608	127	65	89
8	27	53	50	121	154	871	266	272	366	122	59	79
9	33	47	51	408	124	883	234	244	275	117	56	70
10	33	46	46	521	120	614	212	222	234	111	54	64
11	26	57	50	816	115	408	194	208	446	105	56	66
12	27	58	49	1,050	110	364	180	251	883	110	54	66
13	27	54	51	945	105	436	167	219	1,050	121	53	64
14	30	56	52	486	100	372	157	209	883	117	52	60
15	30	56	55	275	113	303	154	196	1,130	106	77	57
16	30	49	77	210	134	267	149	182	1,550	112	82	56
17	31	51	82	173	235	256	144	172	1,740	95	71	56
18	23	65	71	169	606	247	245	168	1,670	93	59	55
19	24	62	70	163	523	261	812	160	1,590	96	54	52
20	25	59	57	137	302	279	1,120	159	800	93	50	51
21	26	58	59	131	366	254	1,290	158	452	89	49	50
22	27	53	58	128	467	245	1,180	261	335	83	63	49
23	27	50	58	119	754	230	994	247	320	81	88	48
24	27	48	63	118	1,100	224	980	266	395	80	75	46
25	30	47	84	173	1,260	220	980	395	532	78	63	43
26	29	47	77	245	1,100	196	800	734	581	74	61	49
27	28	46	84	168	742	177	564	760	484	72	58	49
28	28	43	77	143	678	180	774	410	346	73	54	46
29	31	43	74	339	-----	284	1,070	261	261	66	60	47
30	38	42	79	705	-----	383	1,120	308	224	65	92	50
31	37	-----	104	553	-----	294	-----	608	-----	62	143	-----
TOTAL	905	1,572	1,888	9,048	10,696	10,709	16,069	11,020	21,565	3,327	2,236	1,981
MEAN	29.2	52.4	60.9	292	382	345	536	355	719	107	72.1	66.0
MAX	38	77	104	1,050	1,260	883	1,290	940	1,740	188	154	145
MIN	23	30	42	87	100	177	144	158	224	62	49	43
CFSM	.10	.18	.21	.99	1.30	1.17	1.82	1.21	2.45	.36	.25	.22
IN.	.11	.20	.24	1.14	1.35	1.36	2.03	1.39	2.73	.42	.28	.25
CAL YR 1974	TOTAL 91,019	MEAN 249	MAX 1,760	MIN 23	CFSM .85	IN 11.52						
WTR YR 1975	TOTAL 91,016	MEAN 249	MAX 1,740	MIN 23	CFSM .85	IN 11.52						

## 05517000 Yellow River at Knox, Ind.

LOCATION (revised).--Lat 41°18'10", long 86°37'14", in SW¼SW¼ sec.14, T.33 N., R.2 W., Starke County, on right bank 40 ft (12 m) upstream from bridge on U.S. Highway 35 in Knox, 1.4 miles (2.3 km) downstream from Eagle Creek, and 11.6 miles (18.7 km) upstream from mouth.

DRAINAGE AREA.--435 mi<sup>2</sup> (1,127 km<sup>2</sup>), of which 51 mi<sup>2</sup> (132 km<sup>2</sup>) does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1905 to July 1906, August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 679.93 ft (207.243 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years (1943 to current year), 385 ft<sup>3</sup>/s (10.90 m<sup>3</sup>/s), 12.02 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,490 ft<sup>3</sup>/s (70.5 m<sup>3</sup>/s) June 19, gage height, 8.82 ft (2.688 m); minimum daily, 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s) Oct. 11, 21.

Period of record: Maximum discharge, 5,660 ft<sup>3</sup>/s (160 m<sup>3</sup>/s) Oct. 15, 16, 1954, gage height, 13.75 ft (4.191 m); minimum daily, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Jan. 21-31, 1963.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1278: 1952. WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	131	143	310	720	743	477	1,590	810	435	162	289
2	110	126	145	310	498	589	436	1,390	890	395	164	276
3	112	133	143	280	434	509	453	1,200	816	367	191	238
4	110	180	143	270	391	461	554	933	971	347	236	215
5	108	194	143	250	368	427	605	707	1,160	329	254	212
6	106	206	140	230	358	417	604	608	1,250	310	207	232
7	106	194	143	220	336	470	549	538	1,090	298	186	218
8	106	174	150	320	303	725	494	482	846	287	167	204
9	106	161	158	550	297	878	454	447	568	278	164	189
10	108	156	156	660	256	1,140	420	411	469	271	159	178
11	101	156	150	950	250	908	397	379	475	263	160	173
12	103	172	153	1,200	240	656	372	390	866	257	161	181
13	103	166	153	1,100	230	607	351	417	1,110	265	163	175
14	108	166	153	970	220	635	335	384	1,380	264	160	168
15	114	161	158	710	234	573	322	356	1,740	254	203	163
16	114	161	180	498	251	502	311	346	1,920	243	230	162
17	112	164	194	437	294	469	302	333	2,200	228	212	161
18	112	174	195	368	496	450	354	316	2,420	223	192	161
19	106	177	190	350	720	451	685	299	2,420	228	177	156
20	108	177	170	327	662	473	958	288	2,060	227	169	156
21	101	169	190	298	491	475	1,230	287	1,440	227	173	154
22	108	164	180	285	546	454	1,510	381	819	223	170	152
23	108	158	175	276	746	440	1,550	460	627	214	193	150
24	110	153	200	264	1,010	427	1,450	412	729	195	206	146
25	110	150	220	269	1,270	422	1,410	477	794	203	188	148
26	110	148	200	310	1,480	404	1,310	673	885	193	183	155
27	112	148	230	349	1,470	375	1,160	884	855	189	179	157
28	110	148	230	322	1,130	362	1,060	913	725	176	168	153
29	112	143	190	354	-----	401	1,170	588	575	168	171	148
30	128	140	210	612	-----	512	1,380	482	486	171	222	156
31	138	-----	250	811	-----	550	-----	643	-----	162	265	-----
TOTAL	3,412	4,850	5,435	14,460	15,701	16,905	22,663	18,014	33,396	7,890	5,835	5,426
MEAN	110	162	175	466	561	545	755	581	1,113	255	188	181
MAX	138	206	250	1,200	1,480	1,140	1,550	1,590	2,420	435	265	289
MIN	101	126	140	220	220	362	302	287	469	162	159	146
CFSM	.25	.37	.40	1.07	1.29	1.25	1.74	1.34	2.56	.59	.43	.42
IN.	.29	.41	.46	1.24	1.34	1.45	1.94	1.54	2.86	.67	.50	.46

CAL YR 1974 TOTAL 151,438 MEAN 415 MAX 2,280 MIN 101 CFSM .95 IN 12.95  
WTR YR 1975 TOTAL 153,987 MEAN 422 MAX 2,420 MIN 101 CFSM .97 IN 13.17

PEAK DISCHARGE (BASE, 1,600 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
04-23	0500	7.73	1,610	06-19	0700	8.82	2,490
05-01	0800	7.74	1,620				

05517500 Kankakee River at Dunns Bridge, Ind.

LOCATION.--Lat 41°13'17", long 86°57'52", in NE¼SE¼ 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 (2.9 km) north of Tefft, 3.6 miles (5.8 km) (revised) upstream from Davis ditch, and at mile 90.8 (146.1 km).

DRAINAGE AREA.--1,352 mi<sup>2</sup> (3,502 km<sup>2</sup>), of which 192 mi<sup>2</sup> (497 km<sup>2</sup>) 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 (198.013 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 17, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 1,285 ft<sup>3</sup>/s (36.39 m<sup>3</sup>/s), 12.91 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,510 ft<sup>3</sup>/s (99.4 m<sup>3</sup>/s) June 19, gage height, 10.78 ft (3.286 m); minimum daily, 450 ft<sup>3</sup>/s (12.7 m<sup>3</sup>/s) Oct. 11.

Period of record: Maximum discharge, 5,300 ft<sup>3</sup>/s (150 m<sup>3</sup>/s) Oct. 22, 1954, gage height, 13.20 ft (4.023 m); minimum daily, 280 ft<sup>3</sup>/s (7.93 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	556	591	709	971	1,860	2,590	1,700	3,420	1,840	1,980	606	1,100
2	533	578	709	1,040	1,760	2,380	1,620	3,450	1,920	1,740	608	1,090
3	523	582	702	1,060	1,600	2,140	1,640	3,430	2,010	1,570	701	1,000
4	516	652	693	1,030	1,480	1,950	1,730	3,340	2,090	1,470	748	919
5	505	782	684	982	1,420	1,800	1,850	3,170	2,250	1,360	736	886
6	498	956	678	948	1,380	1,710	1,900	2,970	2,480	1,310	705	933
7	489	959	680	923	1,290	1,720	1,890	2,790	2,570	1,250	672	929
8	475	904	701	935	1,240	1,900	1,820	2,580	2,500	1,180	636	866
9	500	843	709	1,140	1,180	2,120	1,730	2,390	2,310	1,130	611	818
10	490	787	717	1,510	1,130	2,270	1,640	2,210	2,050	1,070	589	788
11	450	784	720	1,960	1,090	2,330	1,550	2,040	1,850	1,040	594	767
12	507	798	714	2,250	1,070	2,270	1,470	1,920	1,810	1,010	662	755
13	518	796	733	2,360	1,060	2,150	1,410	1,830	1,970	1,040	695	728
14	522	790	766	2,390	1,050	2,090	1,360	1,750	2,140	1,040	673	705
15	538	772	781	2,360	1,040	2,030	1,310	1,670	2,560	1,010	748	691
16	539	769	810	2,130	1,080	1,950	1,280	1,580	2,960	962	914	684
17	517	786	851	1,770	1,130	1,870	1,250	1,520	3,210	915	882	681
18	502	833	848	1,610	1,320	1,800	1,310	1,460	3,390	892	806	675
19	501	855	827	1,520	1,570	1,770	1,990	1,400	3,500	899	742	677
20	502	845	806	1,460	1,670	1,750	2,490	1,360	3,470	910	704	676
21	497	810	797	1,370	1,590	1,740	2,680	1,350	3,390	881	719	674
22	489	784	783	1,320	1,550	1,710	2,780	1,410	3,230	837	760	671
23	488	765	768	1,270	1,810	1,650	2,850	1,560	2,990	803	841	666
24	487	747	772	1,220	2,200	1,610	2,970	1,580	2,840	786	944	657
25	489	735	816	1,270	2,450	1,570	3,090	1,580	2,930	762	896	650
26	483	725	837	1,340	2,580	1,510	3,150	1,880	2,910	725	826	659
27	475	718	871	1,360	2,660	1,460	3,170	2,100	2,850	707	792	665
28	472	718	859	1,310	2,680	1,430	3,260	2,180	2,720	689	742	656
29	483	718	837	1,340	-----	1,510	3,320	2,130	2,510	654	762	647
30	557	706	849	1,580	-----	1,640	3,360	1,880	2,250	633	915	653
31	602	-----	893	1,790	-----	1,720	-----	1,790	-----	609	1,040	-----
TOTAL	15,703	23,088	23,920	45,519	43,940	58,140	63,570	65,720	77,500	31,864	23,269	22,966
MEAN	507	770	772	1,468	1,569	1,875	2,119	2,120	2,583	1,028	751	766
MAX	602	959	893	2,390	2,680	2,590	3,360	3,450	3,500	1,980	1,040	1,100
MIN	450	578	678	923	1,040	1,430	1,250	1,350	1,810	609	589	647
CFSM	.38	.57	.57	1.09	1.16	1.39	1.57	1.57	1.91	.76	.56	.57
IN.	.43	.64	.66	1.25	1.21	1.60	1.75	1.81	2.13	.88	.64	.63
CAL YR 1974	TOTAL 506,560		MEAN 1,388		MAX 3,520		MIN 450		CFSM 1.03		IN 13.94	
WTR YR 1975	TOTAL 495,199		MEAN 1,357		MAX 3,500		MIN 450		CFSM 1.00		IN 13.63	

05517530 Kankakee River near Kouts, Ind.

LOCATION.--Lat 41°15'14", long 87°02'02", in SW¼NE¼ sec.6, T.32 N., R.5 W., Jasper County, on left bank, 20 ft (6 m) downstream from bridge on State Highway 49, 4.5 miles (7.2 km) south of Kouts, 0.7 mile (1.1 km) upstream from Cook ditch, and at mile 86.7 (139.5 km).

DRAINAGE AREA.--1,376 mi<sup>2</sup> (3,564 km<sup>2</sup>), of which 194 mi<sup>2</sup> (502 km<sup>2</sup>) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.00 ft (196.596 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,560 ft<sup>3</sup>/s (101 m<sup>3</sup>/s) June 19, gage height, 11.51 ft (3.508 m); minimum daily, 460 ft<sup>3</sup>/s (13.0 m<sup>3</sup>/s) Oct. 11.

Period of record: Maximum discharge, 3,560 ft<sup>3</sup>/s (101 m<sup>3</sup>/s) June 19, 1975, gage height, 11.51 ft (3.508 m); minimum daily, 460 ft<sup>3</sup>/s (13.0 m<sup>3</sup>/s) Oct. 11, 1975.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	620	720	963	1,830	2,620	1,730	3,460	1,860	2,120	666	1,100
2	560	610	720	1,030	1,770	2,420	1,660	3,470	1,940	1,860	661	1,100
3	550	600	715	1,050	1,600	2,180	1,670	3,450	2,050	1,670	746	1,030
4	540	600	710	1,050	1,490	1,970	1,760	3,400	2,140	1,560	814	949
5	530	680	700	1,010	1,430	1,830	1,870	3,310	2,320	1,440	804	911
6	520	830	700	977	1,390	1,730	1,930	3,150	2,560	1,380	784	947
7	510	970	700	954	1,300	1,740	1,930	2,940	2,630	1,330	742	957
8	490	960	720	950	1,250	1,890	1,870	2,720	2,570	1,250	702	904
9	510	870	730	1,110	1,200	2,110	1,780	2,520	2,390	1,200	675	860
10	500	820	740	1,490	1,150	2,260	1,690	2,320	2,100	1,140	652	831
11	460	820	740	2,040	1,110	2,330	1,590	2,150	1,950	1,110	652	807
12	510	820	750	2,280	1,100	2,310	1,520	1,990	1,900	1,080	709	792
13	530	820	767	2,360	1,080	2,200	1,450	1,910	2,000	1,090	748	771
14	535	820	798	2,410	1,070	2,120	1,400	1,830	2,200	1,090	746	742
15	550	800	822	2,370	1,050	2,070	1,360	1,750	2,600	1,070	793	727
16	550	800	844	2,100	1,090	1,980	1,330	1,650	3,000	1,020	953	716
17	540	820	880	1,800	1,140	1,910	1,290	1,590	3,250	982	946	714
18	520	860	880	1,630	1,310	1,840	1,380	1,530	3,500	958	873	710
19	520	880	867	1,540	1,540	1,800	2,220	1,470	3,530	958	816	704
20	520	880	853	1,470	1,650	1,770	2,680	1,420	3,500	966	775	703
21	520	840	844	1,380	1,600	1,760	2,830	1,410	3,450	946	770	710
22	515	820	831	1,330	1,550	1,740	2,920	1,460	3,330	911	811	710
23	510	800	815	1,280	1,850	1,690	2,970	1,600	3,150	876	870	706
24	505	780	810	1,240	2,250	1,650	3,150	1,630	3,000	861	965	697
25	500	760	827	1,260	2,490	1,600	3,240	1,640	3,160	843	943	682
26	500	750	853	1,330	2,590	1,540	3,260	1,920	3,160	806	877	684
27	495	740	892	1,350	2,660	1,490	3,270	2,140	3,050	785	843	692
28	490	735	892	1,320	2,690	1,450	3,440	2,210	2,890	766	805	694
29	485	730	875	1,330	-----	1,520	3,470	2,180	2,660	729	808	682
30	510	725	870	1,540	-----	1,640	3,450	1,970	2,390	701	930	681
31	580	-----	900	1,750	-----	1,730	-----	1,850	-----	677	1,030	-----
TOTAL	16,135	23,560	24,765	45,694	44,230	58,890	66,110	68,040	80,230	34,175	24,909	23,913
MEAN	520	785	799	1,474	1,580	1,900	2,204	2,195	2,674	1,102	804	797
MAX	580	970	900	2,410	2,690	2,620	3,470	3,470	3,530	2,120	1,030	1,100
MIN	460	600	700	950	1,050	1,450	1,290	1,410	1,860	677	652	681
CFSM	.38	.57	.58	1.07	1.15	1.38	1.60	1.60	1.94	.80	.58	.58
IN.	.44	.64	.67	1.24	1.20	1.59	1.79	1.84	2.17	.92	.67	.65
WTR YR 1975	TOTAL 510,651	MEAN 1,399	MAX 3,530	MIN 460	CFSM 1.02	IN 13.81						

NOTE.--No gage-height record Oct. 1 to Dec. 12.

## ILLINOIS RIVER BASIN

05517900 Cobb ditch near Kouts, Ind.

LOCATION.--Lat 41°19'08", long 87°04'55", in SW¼SW¼ sec.11, T.33 N., R.6 W., Porter County, on left bank 15 ft (4.6 m) upstream from bridge on State Highway 8, 700 ft (213 m) upstream from mouth, and 3 miles (5 km) west of Kouts.

DRAINAGE AREA.--31.7 mi<sup>2</sup> (82.1 km<sup>2</sup>).

PERIOD OF RECORD.--July 1968 to current year. Prior to October 1971, published as State ditch near Kouts.

GAGE.--Water-stage recorder. Datum of gage is 652.00 ft (198.730 m) above mean sea level (State Highway Commission bench mark).

AVERAGE DISCHARGE.--7 years, 34.9 ft<sup>3</sup>/s (0.988 m<sup>3</sup>/s), 14.95 in/yr (380 mm/yr).

EXTREMES.--Current year: Maximum discharge, 576 ft<sup>3</sup>/s (16.3 m<sup>3</sup>/s) Jan. 11, gage height, 8.54 ft (2.603 m); minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Oct. 9-13, 21-28.

Period of record: Maximum discharge, 744 ft<sup>3</sup>/s (21.1 m<sup>3</sup>/s) Apr. 22, 1973, gage height, 9.64 ft (2.938 m); minimum daily discharge, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Oct. 23, 1968, Feb. 3, 1971.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	19	30	35	46	34	61	29	34	18	20
2	17	16	19	26	34	41	34	50	25	32	25	19
3	16	18	20	24	34	38	315	45	35	31	48	19
4	16	20	19	22	34	35	180	43	31	30	29	18
5	16	28	19	22	36	33	96	42	147	29	24	22
6	16	28	19	21	44	32	64	42	58	28	21	21
7	16	25	19	21	55	31	53	36	34	28	20	19
8	16	22	22	36	50	140	46	34	28	26	19	19
9	15	20	22	75	32	82	41	32	25	26	19	18
10	15	19	20	241	28	52	37	30	24	25	19	18
11	15	22	20	481	25	46	34	29	24	24	24	20
12	15	22	20	151	23	40	31	29	24	27	21	22
13	15	21	20	80	22	35	29	27	22	34	19	20
14	16	21	21	55	22	32	27	26	105	26	19	19
15	16	20	24	47	33	29	26	25	440	23	35	19
16	16	20	30	42	60	28	25	25	266	22	22	19
17	16	24	25	38	110	28	24	24	87	22	20	19
18	16	24	23	37	190	28	28	23	67	36	19	18
19	16	22	21	34	72	35	335	23	40	64	18	19
20	16	21	20	32	47	30	230	22	34	46	18	19
21	15	20	20	31	41	28	160	23	28	27	18	19
22	15	20	19	30	36	54	100	24	24	23	18	18
23	15	20	19	29	330	105	58	22	31	20	18	18
24	15	19	20	30	260	64	68	44	70	19	18	18
25	15	19	22	56	180	49	80	80	257	19	18	19
26	15	19	21	41	125	41	66	46	145	19	17	19
27	15	19	20	33	86	37	60	30	73	18	17	18
28	15	18	20	33	62	66	420	25	54	18	17	18
29	16	18	20	67	-----	120	250	24	44	18	18	18
30	17	18	23	45	-----	72	150	27	38	18	28	18
31	16	-----	26	37	-----	39	-----	60	-----	18	25	-----
TOTAL	486	619	652	1,947	2,106	1,536	3,101	1,073	2,309	830	669	570
MEAN	15.7	20.6	21.0	62.8	75.2	49.5	103	34.6	77.0	26.8	21.6	19.0
MAX	17	28	30	481	330	140	420	80	440	64	48	22
MIN	15	16	19	21	22	28	24	22	22	18	17	18
CFSM	.50	.65	.66	1.98	2.37	1.56	3.25	1.09	2.43	.85	.68	.60
IN.	.57	.73	.77	2.28	2.47	1.80	3.64	1.26	2.71	.97	.79	.67

CAL YR 1974 TOTAL 13,565 MEAN 37.2 MAX 290 MIN 12 CFSM 1.17 IN 15.92  
WTR YR 1975 TOTAL 15,898 MEAN 43.6 MAX 481 MIN 15 CFSM 1.38 IN 18.66

PEAK DISCHARGE (BASE, 150 FT<sup>3</sup>/S)

NOTE.--No gage-height record  
Jan. 28 to April 30,  
and July 12 to Aug. 14.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0200	8.54	576	04-03	unknown	unknown	a430	06-05	1200	6.41	318
02-18	unknown	unknown	a320	04-19	unknown	unknown	a450	06-15	1700	8.35	549
02-23	unknown	unknown	a440	04-28	unknown	unknown	a525	06-25	0130	6.78	359
03-08	unknown	unknown	a275	05-24	2400	5.50	224				

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05518000 Kankakee River at Shelby, Ind.

LOCATION (revised).--Lat 41°10'58", long 87°20'33", in SW 1/4 sec. 33, T. 32 N., R. 8 W., Lake County, on right bank 25 ft (7.6 m) upstream from Monon Railroad bridge, 1 mile (2 km) south of Shelby, 7.7 miles (12.4 km) upstream from Beaver Lake ditch, and at mile 67.9 (109.2 km).

DRAINAGE AREA.--1,779 mi<sup>2</sup> (4,608 km<sup>2</sup>), of which 201 mi<sup>2</sup> (521 km<sup>2</sup>) 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 (191.454 m) above mean sea level. Prior to Dec. 19, 1934, nonrecording gage at highway bridge about 400 ft (122 m) upstream. Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft (15 m) downstream, and Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft (61 m) upstream. All at same datum.

AVERAGE DISCHARGE.--53 years, 1,572 ft<sup>3</sup>/s (44.52 m<sup>3</sup>/s), 12.00 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,720 ft<sup>3</sup>/s (134 m<sup>3</sup>/s) June 26, gage height, 10.82 ft (3.298 m); minimum daily, 540 ft<sup>3</sup>/s (15.3 m<sup>3</sup>/s) Oct. 27.

Period of record: Maximum discharge, 7,200 ft<sup>3</sup>/s (204 m<sup>3</sup>/s) Dec. 21, 1927, gage height, 11.40 ft (3.475 m), site then in use, from rating curve extended above 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s) by gage-height relation study with site below railroad bridge; minimum daily, 260 ft<sup>3</sup>/s (7.36 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	698	720	923	1,450	2,530	3,560	2,460	4,540	2,690	3,610	839	1,410
2	685	704	933	1,530	2,580	3,460	2,450	4,470	2,660	3,280	846	1,430
3	646	723	944	1,580	2,490	3,260	2,550	4,340	2,760	2,960	906	1,370
4	646	816	933	1,570	2,350	3,030	2,680	4,440	2,920	2,650	993	1,270
5	640	989	910	1,500	2,240	2,830	2,680	4,410	3,140	2,390	982	1,220
6	640	1,170	886	1,450	2,170	2,670	2,600	4,350	3,530	2,220	958	1,270
7	628	1,270	882	1,410	2,040	2,620	2,790	4,210	3,560	2,080	913	1,280
8	613	1,220	906	1,400	1,940	2,700	2,760	4,040	3,510	1,940	862	1,220
9	598	1,140	920	1,640	1,850	2,810	2,680	3,900	3,390	1,810	819	1,160
10	601	1,070	923	2,030	1,720	2,960	2,580	3,650	3,180	1,710	796	1,110
11	589	1,030	944	2,920	1,670	3,070	2,450	3,430	2,940	1,610	813	1,090
12	557	1,040	940	3,510	1,620	3,130	2,330	3,240	2,750	1,550	842	1,070
13	560	1,020	968	3,480	1,600	3,110	2,240	3,040	2,670	1,530	899	1,040
14	589	1,020	1,010	3,370	1,590	3,030	2,140	2,890	2,890	1,530	913	1,000
15	589	1,020	1,070	3,230	1,590	2,940	2,070	2,780	3,840	1,490	1,000	968
16	595	944	1,150	3,000	1,680	2,860	1,990	2,660	4,460	1,420	1,140	954
17	592	1,030	1,220	2,850	1,730	2,780	1,930	2,510	4,600	1,350	1,200	944
18	575	1,070	1,230	2,700	1,950	2,710	2,020	2,390	4,600	1,320	1,140	937
19	569	1,100	1,220	2,500	2,100	2,660	3,350	2,260	4,580	1,370	1,060	944
20	566	1,090	1,190	2,340	2,220	2,620	3,930	2,140	4,520	1,360	1,000	958
21	569	1,060	1,180	2,200	2,310	2,550	3,990	2,050	4,450	1,300	975	944
22	569	1,030	1,160	2,090	2,310	2,520	4,040	2,070	4,350	1,240	996	930
23	563	1,010	1,140	2,010	2,630	2,490	4,050	2,160	4,280	1,180	1,070	923
24	557	989	1,160	1,940	3,120	2,420	4,220	2,250	4,240	1,140	1,160	910
25	560	968	1,200	2,020	3,400	2,390	4,420	2,340	4,450	1,100	1,180	896
26	557	951	1,230	2,140	3,510	2,310	4,390	2,570	4,700	1,060	1,130	899
27	540	937	1,280	2,120	3,550	2,220	4,360	2,810	4,630	1,020	1,070	903
28	543	937	1,290	2,070	3,570	2,130	4,560	2,920	4,430	982	1,030	893
29	577	940	1,270	2,090	-----	2,230	4,680	2,970	4,160	940	1,050	886
30	637	923	1,260	2,270	-----	2,370	4,600	2,910	3,960	903	1,180	886
31	704	-----	1,320	2,420	-----	2,430	-----	2,780	-----	862	1,320	-----
TOTAL	18,552	29,931	33,592	68,830	64,060	84,870	93,990	97,520	112,840	50,907	31,082	31,715
MEAN	598	998	1,084	2,220	2,288	2,738	3,133	3,146	3,761	1,642	1,003	1,057
MAX	704	1,270	1,320	3,510	3,570	3,560	4,680	4,540	4,700	3,610	1,320	1,430
MIN	540	704	882	1,400	1,590	2,130	1,930	2,050	2,660	862	796	886
CFSM	.34	.56	.61	1.25	1.29	1.54	1.76	1.77	2.11	.92	.56	.59
IN.	.39	.63	.70	1.44	1.34	1.77	1.97	2.04	2.36	1.06	.65	.66
CAL YR 1974	TOTAL 686,392	MEAN 1,881	MAX 4,630	MIN 510	CFSM 1.06	IN 14.35						
WTR YR 1975	TOTAL 717,889	MEAN 1,967	MAX 4,700	MIN 540	CFSM 1.11	IN 15.01						



## 05519000 Singleton ditch at Schneider, Ind.

LOCATION.--Lat 41°12'44", long 87°26'44", in SW¼NW¼ sec.22, T.32 N., R.9 W., Lake County, on left bank 15 ft (5 m) upstream from bridge on Ackerman Avenue, 0.5 mile (0.8 km) upstream from Bruce ditch, 1.5 miles (2.4 km) downstream from Cedar Creek, and 1.6 miles (2.6 km) north of Schneider.

DRAINAGE AREA.--123 mi<sup>2</sup> (319 km<sup>2</sup>).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 623.67 ft (190.095 m) above mean sea level. Prior to Oct. 1, 1949, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Oct. 1, 1949, to Aug. 13, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 104 ft<sup>3</sup>/s (2.945 m<sup>3</sup>/s), 11.48 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,350 ft<sup>3</sup>/s (38.2 m<sup>3</sup>/s) June 25, gage height, 12.37 ft (3.770 m); minimum daily, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) Oct. 3, 6, 7, 11-13.

Period of record: Maximum discharge, 1,380 ft<sup>3</sup>/s (39.1 m<sup>3</sup>/s) May 17, 1974; maximum gage height, 12.37 ft (3.770 m) June 25, 1975; minimum daily, 3.6 ft<sup>3</sup>/s (0.102 m<sup>3</sup>/s) Sept. 7, 8, 10, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1915: 1956-59. WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	23	43	180	177	197	163	416	122	198	48	58
2	24	22	48	140	161	173	167	330	106	171	50	46
3	21	26	59	119	150	151	435	284	127	149	61	42
4	22	38	56	104	141	134	414	264	148	134	50	40
5	22	75	52	91	138	124	329	267	231	120	48	48
6	21	68	51	87	115	116	277	277	230	111	46	55
7	21	56	51	83	105	166	236	229	159	106	44	47
8	22	49	61	138	102	197	213	199	131	110	42	44
9	22	44	63	267	100	160	180	173	113	122	40	42
10	22	42	59	497	94	146	160	150	103	104	40	40
11	21	58	55	1,080	110	135	142	138	115	94	42	38
12	21	67	54	960	90	138	129	130	124	86	42	38
13	21	59	53	750	82	151	119	120	102	84	40	37
14	25	59	55	520	77	132	111	114	148	78	40	35
15	23	70	70	370	98	118	106	112	662	73	79	33
16	22	68	102	270	189	110	101	102	738	68	58	35
17	24	85	90	200	277	107	96	92	481	61	46	35
18	28	85	77	161	318	113	204	87	380	159	43	35
19	30	75	72	138	206	133	1,010	82	279	221	40	38
20	25	69	65	125	172	137	728	81	224	180	45	40
21	22	62	65	108	186	129	548	81	177	108	51	36
22	22	57	60	101	273	170	433	86	154	88	44	36
23	29	59	59	100	589	186	357	82	162	77	50	35
24	27	66	67	100	554	167	1,030	80	233	72	42	35
25	26	65	88	258	412	177	746	98	1,140	67	40	34
26	25	57	140	242	320	142	553	164	1,030	63	40	35
27	24	48	81	167	258	133	550	120	722	59	38	33
28	22	46	72	137	224	133	953	102	490	57	36	31
29	24	43	69	242	-----	265	668	93	337	54	42	31
30	26	43	88	262	-----	246	525	92	258	51	46	32
31	24	-----	129	203	-----	241	-----	147	-----	50	50	-----
TOTAL	730	1,684	2,154	8,400	5,718	4,827	11,683	4,792	9,426	3,175	1,423	1,164
MEAN	23.5	56.1	69.5	271	204	156	389	155	314	102	45.9	38.8
MAX	30	85	140	1,080	589	265	1,030	416	1,140	221	79	58
MIN	21	22	43	83	77	107	96	80	102	50	36	31
CFSM	.19	.46	.57	2.20	1.66	1.27	3.16	1.26	2.55	.83	.37	.32
IN.	.22	.51	.65	2.54	1.73	1.46	3.53	1.45	2.85	.96	.43	.35

CAL YR 1974 TOTAL 49,071 MEAN 134 MAX 1,130 MIN 19 CFSM 1.09 IN 14.84  
WTR YR 1975 TOTAL 55,176 MEAN 151 MAX 1,140 MIN 21 CFSM 1.23 IN 16.69

PEAK DISCHARGE (BASE, 730 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	1900	11.80	1,240	04-28	0400	10.20	1,050
04-19	0600	10.54	1,100	06-15	1900	10.34	999
04-24	1100	10.80	1,140	06-25	1700	12.37	1,350

## ILLINOIS RIVER BASIN

311

05520000 Singleton ditch at Illinois, Ill.

LOCATION.--Lat 41°11'20", long 87°31'35", in SW¼NW¼ sec.8, T.31 N., R.15 E., Kankakee County, Illinois, 50 ft (15 m) downstream from county highway bridge and Indiana-Illinois State line, at Illinois, and beside the Cleveland, Cincinnati, Chicago, and St. Louis Railway.

DRAINAGE AREA.--220 mi<sup>2</sup> (570 km<sup>2</sup>).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.33 ft (189.077 m) above mean sea level. Prior to Aug. 28, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 180 ft<sup>3</sup>/s (5.098 m<sup>3</sup>/s), 11.11 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,150 ft<sup>3</sup>/s (60.9 m<sup>3</sup>/s) Jan. 10, gage height, 10.06 ft (3.066 m); minimum daily, 33 ft<sup>3</sup>/s (0.93 m<sup>3</sup>/s) Oct. 12, 13.

Period of record: Maximum discharge, 2,150 ft<sup>3</sup>/s (60.9 m<sup>3</sup>/s) Jan. 10, 1975; maximum gage height, 10.40 ft (3.170 m) June 13, 1972; minimum daily discharge, 6.0 ft<sup>3</sup>/s (0.17 m<sup>3</sup>/s) Sept. 8, 9, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1338: 1948(M). WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	42	81	286	239	292	225	646	163	355	86	97
2	43	43	84	237	218	259	225	506	140	280	90	85
3	40	45	108	207	204	232	639	425	170	220	102	77
4	42	70	110	180	196	213	602	404	208	190	88	73
5	41	125	100	158	191	199	518	413	242	183	84	86
6	37	130	98	151	185	190	432	478	290	180	79	101
7	35	111	95	144	182	258	356	375	250	179	76	86
8	38	95	134	196	180	310	294	318	218	185	70	77
9	38	84	137	423	181	245	255	279	190	200	68	75
10	38	80	129	1,190	185	222	229	249	170	185	68	71
11	36	105	109	1,840	195	207	205	229	163	167	73	69
12	33	129	107	1,620	170	209	186	216	170	150	69	67
13	33	116	106	1,210	155	218	170	200	150	140	67	64
14	43	110	108	1,010	145	202	158	187	220	130	67	59
15	39	118	140	714	146	187	150	183	1,120	125	111	58
16	36	115	208	467	255	175	144	169	1,350	125	97	61
17	37	140	185	369	458	171	138	153	970	150	80	60
18	41	147	154	320	521	180	343	146	770	300	77	60
19	46	132	143	281	311	210	1,560	138	589	360	73	65
20	41	127	125	241	240	219	1,150	136	461	340	89	69
21	34	116	124	224	269	210	826	136	383	202	116	65
22	34	105	113	203	359	236	633	142	315	162	86	64
23	38	100	111	189	895	251	513	139	450	144	93	62
24	42	106	123	188	878	235	1,580	135	760	136	79	60
25	41	103	155	392	666	241	1,210	145	1,350	124	74	61
26	39	97	300	372	503	202	832	214	1,110	116	74	63
27	37	86	207	271	384	185	834	184	900	110	70	59
28	35	82	136	230	334	188	1,460	150	700	103	67	55
29	39	77	130	355	-----	360	1,090	136	550	100	76	56
30	45	77	153	370	-----	354	820	127	455	94	89	58
31	43	-----	210	274	-----	263	-----	185	-----	90	97	-----
TOTAL	1,204	3,013	4,223	14,312	8,845	7,123	17,777	7,543	14,977	5,525	2,535	2,063
MEAN	38.8	100	136	462	316	230	593	243	499	178	81.8	68.8
MAX	46	147	300	1,840	895	360	1,580	646	1,350	360	116	101
MIN	33	42	81	144	145	171	138	127	140	90	67	55
CFSM	.18	.45	.62	2.10	1.44	1.05	2.70	1.10	2.27	.81	.37	.31
IN.	.20	.51	.71	2.42	1.50	1.20	3.01	1.28	2.53	.93	.43	.35

CAL YR 1974 TOTAL 85,172 MEAN 233 MAX 1,580 MIN 32 CFSM 1.06 IN 14.40  
WTR YR 1975 TOTAL 89,140 MEAN 244 MAX 1,840 MIN 33 CFSM 1.11 IN 15.07

PEAK DISCHARGE (BASE, 1,100 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-10	2200	10.06	2,150	04-28	0500	8.20	1,570
04-19	0900	8.66	1,710	06-15	2000	7.12	1,660
04-24	1300	8.90	1,790	06-25	unknown	7.83	1,880

## 05520500 Kankakee River at Mokense, Ill.

LOCATION.--Lat 41°09'36", long 87°40'07", in NE¼ sec.24, T.31 N., R.13 E., Kankakee County, on right bank at Hill Street in Mokense, 0.2 mile (0.3 km) downstream from bridge on State Highways 1 and 17, and 1.2 miles (1.9 km) upstream from Tower Creek.

DRAINAGE AREA.--2,294 mi<sup>2</sup> (5,941 km<sup>2</sup>) (revised).

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 (185.678 m) above mean sea level. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mile (0.3 km) upstream at datum 1.00 ft (0.305 m) higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--60 years (1915-75), 1,916 ft<sup>3</sup>/s (54.26 m<sup>3</sup>/s), 11.34 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,440 ft<sup>3</sup>/s (239 m<sup>3</sup>/s) Apr. 28, gage height, 5.08 ft (1.548 m); minimum, 598 ft<sup>3</sup>/s (16.9 m<sup>3</sup>/s) Oct. 27-29.

Period of record: Maximum discharge, 10,100 ft<sup>3</sup>/s (286 m<sup>3</sup>/s) Apr. 25, 1950, gage height, 5.06 ft (1.542 m), datum then in use; maximum gage height observed, 8.09 ft (2.466 m) Jan. 25, 1930, site and datum then in use (ice jam); minimum discharge observed, 306 ft<sup>3</sup>/s (8.67 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	734	772	1190	2100	3060	4480	2980	6490	3210	4800	1010	1750
2	743	782	1210	2050	3120	4350	3020	6070	3020	4130	1000	1800
3	715	802	1260	2020	3120	4160	3870	5800	3000	3920	1050	1700
4	687	894	1280	1990	3040	3940	4010	5680	3100	3460	1080	1600
5	696	1130	1260	1910	2940	3670	3990	5650	3640	3060	1130	1500
6	687	1280	1220	1850	2840	3440	3900	5720	3760	2740	1100	1550
7	678	1390	1240	1780	2500	3460	3730	5510	3730	2530	1070	1550
8	669	1410	1340	1900	2400	3530	3580	5280	3800	2410	1020	1500
9	651	1380	1340	2420	2200	3350	3440	4970	3760	2570	980	1400
10	642	1330	1300	4350	2200	3350	3290	4610	3620	2200	947	1300
11	651	1370	1300	6510	2100	3420	3140	4280	3490	2000	947	1250
12	624	1420	1310	6050	2000	3530	2960	3970	3290	1870	947	1200
13	616	1390	1310	5000	2000	3620	2840	3670	3020	1810	969	1190
14	651	1370	1320	4800	2000	3620	2800	3420	3210	1750	1000	1160
15	651	1340	1460	4600	2030	3530	2800	3210	5850	1730	1200	1120
16	651	1360	1640	4300	2200	3420	2800	3040	6700	1680	1250	1090
17	651	1420	1620	4000	2940	3310	2800	2900	6670	1580	1330	1070
18	642	1470	1580	3940	3140	3250	3440	2760	6700	2100	1330	1060
19	633	1480	1550	3600	2720	3230	6300	2590	6380	2370	1250	1080
20	624	1480	1500	3230	2640	3160	6120	2440	6120	2150	1240	1090
21	616	1430	1470	2940	2880	3120	6000	2340	6070	1870	1330	1080
22	616	1390	1430	2720	3250	3100	5850	2270	5600	1680	1190	1070
23	616	1360	1410	2550	4660	3100	5650	2200	5560	1560	1210	1060
24	624	1330	1460	2460	4950	3040	7490	2220	5530	1480	1240	1040
25	624	1310	1560	3020	4870	3000	7320	2410	7000	1410	1280	1010
26	616	1270	1560	3060	4810	2860	6510	2640	7520	1330	1300	1010
27	607	1240	1620	2860	4710	2760	6620	2680	7150	1220	1250	1010
28	598	1210	1600	2720	4610	2700	8170	2780	6400	1210	1190	1010
29	633	1190	1600	3040	---	3000	7420	2900	5800	1160	1210	1000
30	678	1200	1640	3180	---	3120	6890	3270	5400	1100	1520	1000
31	724	---	1820	3060	---	3020	---	3460	---	1060	1680	---
TOTAL	20248	38200	44400	100010	85930	104640	139730	117230	148100	65940	36250	37250
MEAN	653	1273	1432	3226	3069	3375	4658	3782	4937	2127	1169	1242
MAX	743	1480	1820	6510	4950	4480	8170	6490	7520	4800	1680	1800
MIN	598	772	1190	1780	2000	2700	2800	2200	3000	1060	947	1000
CFSM	.28	.55	.62	1.41	1.34	1.47	2.03	1.65	2.15	.93	.51	.54
IN.	.33	.62	.72	1.62	1.39	1.70	2.27	1.90	2.40	1.07	.59	.60
CAL YR 1974	TOTAL	887047	MEAN	2430	MAX	9660	MIN	576	CFSM	1.06	IN	14.38
WTR YR 1975	TOTAL	937928	MEAN	2570	MAX	8170	MIN	598	CFSM	1.12	IN	15.21

05521000 Iroquois River at Rosebud, Ind.

LOCATION.--Lat 41°02'00", long 87°10'49", in NW¼SW¼ sec.24, T.30 N., R.7 W., Jasper County, on right bank 100 ft (30 m) downstream from bridge on county road, 0.5 mile (0.8 km) north of Rosebud, 0.5 mile (0.8 km) downstream from confluence of Swain and Dexter ditches, 1.5 miles (2.4 km) upstream from Davidson ditch, 2 miles (3 km) east of Parr, and at mile 93.5 (150.4 km).

DRAINAGE AREA.--35.6 mi<sup>2</sup> (92.2 km<sup>2</sup>).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 661.47 ft (201.616 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

AVERAGE DISCHARGE.--27 years, 25.7 ft<sup>3</sup>/s (0.728 m<sup>3</sup>/s), 9.80 in/yr (249 mm/yr).

EXTREMES.--Current year: Maximum discharge, 246 ft<sup>3</sup>/s (6.97 m<sup>3</sup>/s) Jan. 11, gage height, 6.21 ft (1.893 m); minimum daily, 4.1 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 1-6, 8, and 10.

Period of record: Maximum discharge, 435 ft<sup>3</sup>/s (12.3 m<sup>3</sup>/s) May 17, 1974; maximum gage height, 8.86 ft (2.700 m) Feb. 10, 1959; minimum daily discharge, 0.5 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Oct. 11, 12, 19, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1949-60. WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	6.0	11	49	38	42	34	41	22	23	5.5	5.8
2	4.1	5.7	11	34	35	36	35	36	23	20	6.0	5.1
3	4.1	11	12	31	32	31	55	36	32	18	5.8	4.9
4	4.1	16	11	27	31	28	52	38	42	17	5.5	4.6
5	4.1	15	10	24	31	27	43	37	43	15	5.4	9.3
6	4.1	13	11	24	32	27	38	34	32	15	5.1	9.7
7	4.2	10	13	23	49	47	34	30	24	14	4.9	7.7
8	4.1	9.2	18	49	25	49	31	28	20	14	4.7	6.7
9	4.2	8.5	21	83	23	39	29	25	17	14	4.6	6.0
10	4.1	8.5	26	138	22	37	28	24	23	12	4.7	5.5
11	4.3	14	16	213	20	34	26	23	22	11	4.9	5.3
12	4.3	13	14	130	19	42	24	23	18	11	4.6	5.3
13	5.1	12	14	73	18	40	23	20	23	19	4.3	5.0
14	6.7	11	16	56	18	35	23	20	38	11	4.5	4.9
15	5.8	12	19	39	22	31	21	19	203	10	7.2	4.9
16	5.4	14	21	33	32	30	21	18	188	9.5	5.4	5.0
17	4.7	18	19	31	52	30	21	17	124	8.5	4.9	4.9
18	4.3	17	17	28	62	31	23	17	84	18	4.5	4.7
19	4.4	15	17	26	38	38	25	16	61	18	4.3	6.6
20	6.9	15	22	25	34	35	22	16	45	13	7.1	7.7
21	5.3	13	16	24	48	33	20	16	76	11	7.4	6.4
22	4.8	12	15	23	63	32	20	19	50	9.3	5.8	5.7
23	4.6	11	16	23	140	28	23	15	35	8.8	5.4	5.4
24	4.5	11	29	26	129	28	26	15	29	8.3	4.9	5.1
25	4.6	10	39	62	89	26	23	42	71	7.9	4.5	5.5
26	4.8	9.9	34	44	69	23	20	39	132	7.5	5.3	5.4
27	5.0	10	25	32	55	24	27	27	74	7.2	4.6	5.3
28	5.0	9.7	23	29	49	29	65	21	47	6.9	4.3	5.1
29	8.0	9.0	24	74	-----	61	49	23	33	6.6	5.0	5.1
30	8.3	9.2	31	59	-----	49	49	35	27	6.1	6.4	5.0
31	6.6	-----	44	42	-----	38	-----	28	-----	6.0	6.9	-----
TOTAL	154.6	348.7	615	1,574	1,275	1,080	930	798	1,658	376.6	164.4	173.6
MEAN	4.99	11.6	19.8	50.8	45.5	34.8	31.0	25.7	55.3	12.1	5.30	5.79
MAX	8.3	18	44	213	140	61	65	42	203	23	7.4	9.7
MIN	4.1	5.7	10	23	18	23	20	15	17	6.0	4.3	4.6
CFSM	.14	.33	.56	1.43	1.28	.98	.87	.72	1.55	.34	.15	.16
IN.	.16	.36	.64	1.64	1.33	1.13	.97	.83	1.73	.39	.17	.18
CAL YR 1974	TOTAL 13,201.4	MEAN 36.2	MAX 340	MIN 3.2	CFSM 1.02	IN 13.79						
WTR YR 1975	TOTAL 9,147.9	MEAN 25.1	MAX 213	MIN 4.1	CFSM .71	IN 9.56						

PEAK DISCHARGE (BASE, 150 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0330	6.21	246	06-26	0245	5.01	158
06-15	1500	6.01	230				

05522000 Iroquois River near North Marion, Ind.

LOCATION.--Lat 40°58'12", long 87°06'50", in NE¼NW¼ sec.16, T.29 N., R.6 W., Jasper County, on downstream side of county highway bridge, 1.2 miles (1.9 km) upstream from Ryan ditch, 2 miles (3 km) east of North Marion, 3.5 miles (5.6 km) northeast of Rensselaer, and at mile 87.7 (141.1 km).

DRAINAGE AREA.--144 mi<sup>2</sup> (373 km<sup>2</sup>).

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.68 ft (197.108 m) above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years (1949 to current year), 125 ft<sup>3</sup>/s (3.540 m<sup>3</sup>/s), 11.79 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 956 ft<sup>3</sup>/s (27.1 m<sup>3</sup>/s) June 17, gage height, 11.36 ft (3.463 m); minimum daily, 7.9 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Oct. 24.

Period of record: Maximum discharge, 2,040 ft<sup>3</sup>/s (57.8 m<sup>3</sup>/s) June 10, 1958, gage height, 15.09 ft (4.599 m); minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Sept. 15, 1964.

REMARKS.--Records good. Water from Oliver ditch, an upstream tributary, can be diverted to Ryan ditch and thus enter the Iroquois River below station.

REVISIONS.--WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	19	36	246	219	223	174	270	139	151	17	57
2	13	16	51	226	195	166	161	224	112	124	20	45
3	13	36	51	184	173	131	220	208	126	109	26	38
4	13	86	53	151	163	119	278	201	175	98	23	38
5	14	83	49	124	163	109	259	189	218	88	22	74
6	12	69	49	122	168	103	220	194	215	79	20	100
7	11	56	55	114	152	141	190	169	157	73	19	65
8	13	45	79	163	141	246	171	146	116	62	19	49
9	14	40	73	348	133	222	152	129	92	64	17	41
10	12	38	97	427	126	192	144	117	86	58	16	36
11	14	60	72	659	120	174	132	109	91	51	17	34
12	12	74	65	712	116	173	123	111	113	51	15	32
13	13	58	62	560	114	189	117	100	92	95	14	29
14	17	60	65	380	112	164	114	86	184	79	14	26
15	17	58	74	300	120	133	119	95	685	56	39	25
16	14	63	100	240	173	118	110	79	915	45	43	27
17	13	88	95	210	225	118	108	79	936	42	30	26
18	12	94	77	190	376	120	100	77	846	61	23	25
19	11	86	83	165	311	137	87	73	686	89	20	32
20	20	79	94	145	218	157	157	69	521	67	36	42
21	13	66	86	122	234	137	141	75	419	49	52	34
22	12	58	67	108	251	129	127	88	363	40	31	28
23	9.2	56	65	100	488	112	124	77	259	33	39	27
24	7.9	55	107	111	622	107	150	64	281	39	32	26
25	8.4	50	175	208	623	99	155	79	464	34	23	23
26	9.0	46	149	249	533	84	136	218	698	32	31	27
27	11	46	137	180	406	79	129	201	672	31	28	26
28	10	45	117	147	300	96	276	122	546	25	25	24
29	15	44	109	250	-----	219	358	107	386	23	36	22
30	36	42	138	351	-----	235	294	120	236	22	66	22
31	23	-----	180	277	-----	210	-----	182	-----	21	69	-----
TOTAL	426.5	1,716	2,710	7,769	6,975	4,642	5,026	4,058	10,829	1,891	882	1,100
MEAN	13.8	57.2	87.4	251	249	150	168	131	361	61.0	28.5	36.7
MAX	36	94	180	712	623	246	358	270	936	151	69	100
MIN	7.9	16	36	100	112	79	87	64	86	21	14	22
CFSM	.10	.40	.61	1.74	1.73	1.04	1.17	.91	2.51	.42	.20	.25
IN.	.11	.44	.70	2.01	1.80	1.20	1.30	1.05	2.80	.49	.23	.28

CAL YR 1974 TOTAL 62,523.2 MEAN 171 MAX 1,310 MIN 7.9 CFSM 1.19 IN 16.15  
WTR YR 1975 TOTAL 48,024.5 MEAN 132 MAX 936 MIN 7.9 CFSM .92 IN 12.41

PEAK DISCHARGE (BASE, 420 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-12	0400	10.33	733	06-17	0100	11.36	956
02-25	0200	9.50	641	06-26	1800	10.04	715



## 05522500 Iroquois River at Rensselaer, Ind.

LOCATION.--Lat 40°56'00", long 87°07'44", in NW¼SE¼ sec.29, T.29 N., R.6 W., Jasper County, on right bank 20 ft (6 m) downstream from bridge on State Highway 114, 0.8 mile (1.3 km) east of Rensselaer, 1.5 miles (2.4 km) downstream from Ryan ditch, 5.5 miles (8.8 km) upstream from Slough Creek, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--203 mi<sup>2</sup> (526 km<sup>2</sup>).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft (195.770 m) above mean sea level (levels by State of Indiana, Department of Natural Resources. Prior to July 8, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 163 ft<sup>3</sup>/s (4.616 m<sup>3</sup>/s), 10.90 in/yr (277 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) June 16, gage height, 12.11 ft (3.691 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 4, 7, 8, and Aug. 14.

Period of record: Maximum discharge, 2,550 ft<sup>3</sup>/s (72.2 m<sup>3</sup>/s) June 10, 1958, gage height, 16.54 ft (5.041 m); minimum daily, 2.2 ft<sup>3</sup>/s (0.062 m<sup>3</sup>/s) Sept. 9, 15, 16, 1964.

REMARKS.--Records good.

REVISIONS.--WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	32	44	309	272	321	197	329	177	199	22	75
2	15	29	55	269	238	236	175	263	138	159	21	58
3	14	48	57	207	206	187	256	239	141	138	30	47
4	13	97	59	165	193	172	338	229	190	122	31	45
5	15	90	56	132	193	156	302	212	265	107	30	85
6	15	79	57	127	195	147	240	217	259	97	24	117
7	13	64	62	120	141	207	198	188	185	89	22	78
8	13	53	87	193	130	351	172	165	135	78	20	60
9	15	47	82	485	122	306	152	147	111	79	21	50
10	14	45	85	589	114	263	143	135	101	72	20	44
11	15	64	78	918	104	238	130	126	107	67	17	42
12	15	82	74	939	100	243	119	127	133	70	16	39
13	15	65	70	767	96	263	111	118	110	107	14	35
14	20	65	73	556	94	231	107	101	298	77	13	30
15	24	64	82	365	101	186	113	110	1,050	68	40	28
16	20	70	105	238	156	166	105	93	1,270	56	46	30
17	18	90	100	180	295	165	102	91	1,230	51	31	30
18	21	98	85	159	523	167	96	89	1,050	83	24	29
19	20	91	87	139	424	186	127	85	852	107	21	35
20	28	85	85	128	286	215	127	81	650	80	36	50
21	24	74	91	117	319	193	119	85	545	66	60	41
22	20	65	75	107	373	181	110	98	469	57	40	33
23	19	62	73	108	744	156	108	89	343	44	60	31
24	17	61	115	121	901	148	129	77	412	51	40	28
25	20	57	199	240	859	136	131	87	767	45	26	25
26	21	52	162	305	721	120	116	255	1,040	41	35	27
27	25	52	147	207	559	112	115	238	923	40	32	30
28	26	52	123	166	433	131	305	146	745	32	26	25
29	34	49	114	362	-----	235	429	123	545	28	54	24
30	52	47	143	478	-----	305	420	135	348	26	102	24
31	39	-----	208	365	-----	247	-----	235	-----	26	94	-----
TOTAL	635	1,929	2,933	9,561	8,892	6,370	5,292	4,713	14,589	2,362	1,068	1,295
MEAN	20.5	64.3	94.6	308	318	205	176	152	486	76.2	34.5	43.2
MAX	52	98	208	939	901	351	429	329	1,270	199	102	117
MIN	13	29	44	107	94	112	96	77	101	26	13	24
CFSM	.10	.32	.47	1.52	1.57	1.01	.87	.75	2.39	.38	.17	.21
IN.	.12	.35	.54	1.75	1.63	1.17	.97	.86	2.67	.43	.20	.24
CAL YR 1974	TOTAL 86,351	MEAN 237	MAX 1,810	MIN 12	CFSM 1.17	IN 15.82						
WTR YR 1975	TOTAL 59,639	MEAN 163	MAX 1,270	MIN 13	CFSM .80	IN 10.93						



05523000 Bice ditch near South Marion, Ind.

LOCATION.--Lat 40°52'00", long 87°05'32", in NE¼NW¼ sec.22, T.28 N., R.6 W., Jasper County, on left bank at upstream side of bridge on State Highway 16, 2.3 miles (3.7 km) upstream from mouth, 3 miles (5 km) southeast of South Marion, and 5 miles (8 km) southeast of Rensselaer.

DRAINAGE AREA.--21.8 mi<sup>2</sup> (56.5 km<sup>2</sup>).

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 651.30 ft (198.516 m) 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 (0.610 m) higher.

AVERAGE DISCHARGE.--26 years (1949 to current year), 16.7 ft<sup>3</sup>/s (0.473 m<sup>3</sup>/s), 10.40 in/yr (264 mm/yr).

EXTREMES.--Current year: Maximum discharge, 721 ft<sup>3</sup>/s (20.4 m<sup>3</sup>/s) June 15, gage height, 9.58 ft (2.920 m); minimum daily, 0.32 ft<sup>3</sup>/s (0.009 m<sup>3</sup>/s) Oct. 9.

Period of record: Maximum discharge, 958 ft<sup>3</sup>/s (27.1 m<sup>3</sup>/s) Dec. 21, 1967, gage height, 10.89 ft (3.319 m); no flow at times during 1952, 1955, and 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1508: 1956. WSP 2115: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	.52	1.4	38	47	34	23	23	32	13	1.1	25
2	.43	.49	3.0	20	39	26	25	19	22	9.9	1.3	14
3	.37	5.1	3.6	18	32	20	40	20	19	8.3	1.8	8.6
4	.37	6.2	3.0	15	29	17	35	22	16	6.8	1.3	5.7
5	.37	4.9	2.6	11	31	16	28	19	23	5.5	1.4	25
6	.37	2.8	2.8	12	33	16	24	17	19	5.0	2.8	27
7	.37	1.7	4.2	11	21	30	20	13	13	4.6	1.8	16
8	.37	1.2	8.9	38	16	30	18	11	9.9	4.0	1.2	9.2
9	.32	1.1	5.3	67	13	25	16	9.9	8.6	3.6	1.1	6.5
10	.36	1.1	4.2	102	12	24	15	9.9	8.0	3.2	.97	5.3
11	.36	2.5	4.0	201	11	23	14	9.6	43	3.0	4.6	5.4
12	.37	3.0	4.2	62	9.8	32	13	8.9	46	2.8	2.9	13
13	.41	1.9	4.2	33	9.0	28	12	7.4	25	2.8	1.4	7.9
14	.69	2.4	5.0	20	11	24	12	7.4	91	2.8	2.5	5.7
15	.55	3.0	6.8	13	13	19	12	7.7	633	1.8	45	4.9
16	.47	3.0	9.6	8.5	20	20	12	6.5	227	2.1	16	4.7
17	.43	5.3	7.1	6.4	70	20	13	6.5	102	1.9	7.6	4.3
18	.42	4.8	5.3	7.4	87	21	14	6.5	57	6.8	4.7	4.1
19	.43	3.8	5.0	8.6	51	40	12	6.3	36	4.2	3.1	4.6
20	.44	3.6	3.8	7.1	47	31	9.4	6.3	38	3.2	2.2	5.3
21	.45	2.8	4.6	8.0	60	27	9.0	6.3	70	2.6	1.8	4.7
22	.45	2.1	4.0	6.0	102	23	10	17	30	2.1	7.5	4.1
23	.44	2.2	4.6	6.8	286	20	12	15	21	1.9	11	3.9
24	.47	2.1	33	9.6	203	20	25	50	34	1.9	3.9	3.5
25	.48	1.8	34	32	105	15	18	137	315	1.6	2.3	3.9
26	.49	1.6	17	25	75	12	14	99	198	1.5	3.3	4.8
27	.50	1.8	13	17	54	13	17	56	84	1.4	2.6	4.5
28	.49	1.6	10	16	45	21	46	32	28	1.3	1.7	4.1
29	.85	1.5	11	144	-----	57	33	24	28	1.2	8.3	3.9
30	1.8	1.5	19	89	-----	36	26	29	19	1.1	25	3.9
31	.67	-----	35	57	-----	27	-----	54	-----	1.1	40	-----
TOTAL	15.42	77.41	279.2	1,109.4	1,531.8	767	577.4	756.2	2,295.5	113.0	212.17	243.5
MEAN	.50	2.58	9.01	35.8	54.7	24.7	19.2	24.4	76.5	3.65	6.84	8.12
MAX	1.8	6.2	35	201	286	57	46	137	633	13	45	27
MIN	.32	.49	1.4	6.0	9.0	12	9.0	6.3	8.0	1.1	.97	3.5
CFSM	.02	.12	.41	1.64	2.51	1.13	.88	1.12	3.51	.17	.31	.37
IN.	.03	.13	.48	1.89	2.61	1.31	.99	1.29	3.92	.19	.36	.42

CAL YR 1974 TOTAL 7,727.64 MEAN 21.2 MAX 551 MIN .32 CFSM .97 IN 13.19  
WTR YR 1975 TOTAL 7,978.00 MEAN 21.9 MAX 633 MIN .32 CFSM 1.00 IN 13.61

PEAK DISCHARGE (BASE, 340 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-23	0600	6.49	347	06-25	1745	9.24	629
06-15	0730	9.58	721				

05523500 Slough Creek near Collegeville, Ind.

LOCATION (revised).--Lat 40°53'30", long 87°09'17", in SE¼NE¼ 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 (2.4 km) south of Collegeville, 2.2 miles (3.5 km) downstream from Bice ditch, 2.9 miles (4.7 km) upstream from Carpenter Creek, and 3.2 miles (5.1 km) upstream from mouth.

DRAINAGE AREA.--83.7 mi<sup>2</sup> (216.8 km<sup>2</sup>).

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 (193.472 m) 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 (0.914 m) higher.

AVERAGE DISCHARGE.--26 years (1948-51, 1952 to current year), 71.2 ft<sup>3</sup>/s (2.016 m<sup>3</sup>/s), 11.55 in/yr (293 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,020 ft<sup>3</sup>/s (57.2 m<sup>3</sup>/s) June 16, gage height, 15.77 ft (4.807 m); minimum daily, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Oct. 8.

Period of record: Maximum discharge, 2,390 ft<sup>3</sup>/s (67.7 m<sup>3</sup>/s) Dec. 22, 1967, gage height, 16.88 ft (5.145 m); minimum daily, 0.7 ft<sup>3</sup>/s (0.020 m<sup>3</sup>/s) Dec. 20-26, 1963.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1558: 1955(M), 1956(M), 1957. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.8	7.5	105	180	120	79	75	100	85	12	104
2	3.8	5.5	13	80	150	100	74	70	78	65	13	62
3	3.5	11	12	65	125	85	62	65	59	57	15	38
4	3.4	17	9.9	55	104	68	145	101	49	46	12	26
5	3.4	11	11	45	104	61	100	75	55	37	12	71
6	3.2	8.8	9.6	42	135	58	80	60	68	34	22	126
7	3.1	7.2	11	40	90	106	65	50	41	30	15	69
8	3.0	6.4	21	80	66	150	57	45	29	27	12	42
9	3.1	6.1	31	180	54	114	49	37	25	25	11	29
10	3.1	6.2	30	280	45	102	44	32	22	24	10	24
11	3.2	7.7	22	550	40	92	38	31	67	22	17	23
12	3.1	8.1	18	300	37	134	33	30	170	22	17	35
13	3.5	7.9	16	120	36	131	29	26	87	22	12	26
14	5.7	9.1	18	70	43	97	28	25	181	21	12	21
15	4.9	8.8	20	50	54	72	28	24	1720	20	191	19
16	4.0	8.8	28	30	90	66	26	22	1250	16	118	18
17	4.2	11	24	24	181	64	27	20	600	15	52	17
18	3.5	12	32	26	367	66	31	19	250	57	28	17
19	3.2	11	20	30	200	118	32	18	160	55	20	18
20	3.2	10	31	26	150	106	25	18	130	31	17	19
21	3.2	9.4	36	28	220	88	23	18	250	24	51	19
22	3.2	8.5	28	23	327	80	22	38	120	21	28	17
23	3.5	8.2	18	29	991	61	27	36	80	20	77	16
24	3.7	8.2	64	38	600	62	62	52	110	19	33	15
25	3.7	8.1	107	103	440	51	55	277	533	17	20	16
26	3.5	8.3	99	123	300	38	40	259	1330	16	20	18
27	3.7	7.4	46	69	200	38	49	150	700	15	20	18
28	3.7	7.8	37	58	150	58	245	90	300	14	16	17
29	5.5	7.9	35	333	---	174	160	70	180	13	21	16
30	8.6	7.0	50	385	---	130	95	66	120	13	81	16
31	7.2	---	83	230	---	95	---	173	---	13	152	---
TOTAL	121.6	260.2	988.0	3617	5479	2785	1830	2072	8864	896	1137	972
MEAN	3.92	8.67	31.9	117	196	89.8	61.0	66.8	295	28.9	36.7	32.4
MAX	8.6	17	107	550	991	174	245	277	1720	85	191	126
MIN	3.0	5.5	7.5	23	36	38	22	18	22	13	10	15
CFSM	.05	.10	.38	1.40	2.34	1.07	.73	.80	3.52	.35	.44	.39
IN.	.05	.12	.44	1.61	2.44	1.24	.81	.92	3.94	.40	.51	.43

CAL YR 1974 TOTAL 39594.6 MEAN 108 MAX 1720 MIN 3.0 CFSM 1.29 IN 17.60  
WTR YR 1975 TOTAL 29021.8 MEAN 79.5 MAX 1720 MIN 3.0 CFSM .95 IN 12.90

## 05524000 Carpenter Creek at Egypt, Ind.

LOCATION.--Lat 40°51'58", long 87°12'20", in SE¼SW¼ 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 (0.8 km) north of Egypt, 4 miles (6 km) southwest of Collegeville, and at mile 4.0 (6.4 km).

DRAINAGE AREA.--44.8 mi<sup>2</sup> (116.0 km<sup>2</sup>).

PERIOD OF RECORD.--July 1948 to December 1951, October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.79 ft (195.618 m) above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 37.6 ft<sup>3</sup>/s (1.065 m<sup>3</sup>/s), 11.40 in/yr (290 mm/yr).

EXTREMES.--Current year: Maximum discharge, 990 ft<sup>3</sup>/s (28.0 m<sup>3</sup>/s) June 15, gage height, 10.53 ft (3.210 m); minimum daily, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Oct. 22.

Period of record: Maximum discharge, 3,720 ft<sup>3</sup>/s (105 m<sup>3</sup>/s) June 10, 1958, gage height, 11.66 ft (3.554 m); no flow at times most years.

REMARKS.--Records fair.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.75	3.0	100	74	64	43	39	74	40	1.9	86
2	.31	.50	3.8	63	66	54	39	33	51	35	2.0	43
3	.29	4.2	4.9	53	56	45	53	34	40	29	3.5	24
4	.29	17	4.6	41	51	36	61	37	32	25	2.3	16
5	.29	14	4.1	32	51	33	52	31	45	21	2.0	55
6	.29	11	4.2	31	56	31	46	27	41	20	2.8	92
7	.32	6.2	6.0	27	43	42	41	22	25	17	3.6	41
8	.37	4.0	23	59	33	44	37	20	19	15	1.9	22
9	.31	2.9	26	177	28	38	33	18	16	14	1.5	15
10	.26	2.4	18	180	25	39	31	15	14	12	1.3	12
11	.23	4.0	14	463	22	35	28	16	45	10	2.3	13
12	.22	5.9	12	207	21	44	25	16	85	9.7	2.7	17
13	.29	5.6	11	97	20	44	23	12	48	9.3	1.7	9.9
14	1.0	5.9	13	66	23	40	21	11	75	9.5	1.6	7.1
15	.95	5.9	17	47	26	33	21	11	712	8.5	57	6.1
16	.53	7.0	30	30	35	31	20	9.1	478	7.4	32	5.9
17	.41	12	23	18	80	30	20	8.2	241	6.9	12	5.8
18	.30	17	17	21	133	31	23	8.4	137	9.9	6.9	5.6
19	.30	13	16	29	76	48	24	7.6	84	13	4.5	6.0
20	.27	11	18	22	64	47	17	7.8	67	9.3	3.2	6.6
21	.24	8.6	13	25	94	41	13	6.7	281	6.7	2.6	5.2
22	.20	6.5	11	17	138	40	14	130	137	4.4	2.8	4.3
23	.24	5.3	10	16	432	31	16	102	85	4.0	12	3.9
24	.31	5.1	56	21	371	34	27	70	98	3.6	10	3.4
25	.38	4.1	99	60	226	28	29	271	281	3.3	4.6	3.6
26	.36	3.2	57	60	157	20	22	144	390	2.8	5.1	4.3
27	.27	3.1	41	37	106	20	18	101	167	2.5	4.5	4.0
28	.30	3.3	31	33	80	30	54	60	92	2.3	3.4	3.5
29	.45	2.8	27	203	-----	72	79	46	61	2.0	15	3.5
30	3.1	2.5	36	191	-----	66	48	65	47	1.9	94	3.9
31	1.2	-----	70	93	-----	50	-----	134	-----	1.8	139	-----
TOTAL	14.62	194.75	719.6	2,519	2,587	1,241	978	1,512.8	3,968	356.8	439.7	528.6
MEAN	.47	6.49	23.2	81.3	92.4	40.0	32.6	48.8	132	11.5	14.2	17.6
MAX	3.1	17	99	463	432	72	79	271	712	40	139	92
MIN	.20	.50	3.0	16	20	20	13	6.7	14	1.8	1.3	3.4
CFSM	.01	.14	.52	1.81	2.06	.89	.73	1.09	2.95	.26	.32	.39
IN.	.01	.16	.60	2.09	2.15	1.03	.81	1.26	3.29	.30	.37	.44

CAL YR 1974 TOTAL 18,137.62 MEAN 49.7 MAX 797 MIN .20 CFSM 1.11 IN 15.06  
WTR YR 1975 TOTAL 15,059.87 MEAN 41.3 MAX 712 MIN .20 CFSM .92 IN 12.51

PEAK DISCHARGE (BASE, 600 FT<sup>3</sup>/S).--June 15 (1200) 990 ft<sup>3</sup>/s (10.53 ft).

LOCATION.--Lat 40°52'14", long 87°18'24", in NE¼Sec.15, T.28 N., R.8 W., Newton County, on right bank at downstream side of bridge on State Highway 55, 0.2 mile (0.3 km) north of intersection of Highways 16 and 55, 0.5 mile (0.8 km) downstream from Mosquito Creek, 0.6 mile (1.0 km) west of Foresman, 3 miles (4 km) east of Brook, and at mile 72.7 (117.0 km).

REVISIONS (WATER YEARS).--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	45	69	560	984	1,400	611	736	722	1,110	60	367
2	21	37	76	601	852	1,120	536	663	613	768	57	269
3	20	66	96	561	736	863	576	573	488	518	68	179
4	19	130	101	425	634	669	674	551	417	339	69	125
5	20	148	100	293	569	541	706	518	462	264	61	167
6	21	137	99	336	555	449	671	483	530	229	97	380
7	21	114	109	309	483	454	607	438	472	215	79	324
8	21	90	158	355	422	592	524	380	362	194	60	215
9	21	75	195	651	390	642	449	333	284	197	53	147
10	21	66	172	1,170	365	635	396	299	242	170	49	113
11	21	74	189	1,650	330	601	352	282	249	151	49	98
12	22	110	168	2,200	305	584	316	271	411	151	64	106
13	22	112	160	2,300	280	609	290	256	404	177	54	101
14	28	103	161	1,800	268	605	268	232	458	201	46	82
15	31	102	178	1,380	270	554	266	223	2,030	164	191	69
16	30	103	226	1,050	343	479	259	209	2,690	136	297	67
17	26	125	246	820	475	439	254	189	2,770	121	184	67
18	24	168	220	660	773	427	258	185	2,550	226	102	65
19	23	165	199	500	933	468	279	181	2,340	430	67	78
20	23	151	175	400	907	550	283	172	2,030	309	54	106
21	28	130	195	305	901	542	269	167	1,890	182	94	98
22	28	110	190	285	971	514	256	237	1,700	146	98	82
23	25	99	169	280	1,510	455	251	347	1,460	111	127	70
24	24	95	222	285	2,030	411	302	309	1,290	104	130	65
25	22	91	432	423	2,230	371	331	691	1,290	106	79	62
26	21	82	465	578	2,140	317	303	780	1,990	93	66	65
27	21	78	408	561	1,920	284	289	772	2,260	88	73	70
28	23	77	344	475	1,670	305	564	667	2,110	81	61	66
29	25	74	296	623	-----	508	753	508	1,820	72	79	61
30	43	71	299	999	-----	665	778	412	1,480	66	271	60
31	60	-----	407	1,090	-----	670	-----	709	-----	63	354	-----
TOTAL	777	3,028	6,524	23,925	24,246	17,723	12,671	12,773	37,814	7,182	3,193	3,824
MEAN	25.1	101	210	772	866	572	422	412	1,260	232	103	127
MAX	60	168	465	2,300	2,230	1,400	778	780	2,770	1,110	354	380
MIN	19	37	69	280	268	284	251	167	242	63	46	60
CFSM	.06	.22	.47	1.72	1.93	1.27	.94	.92	2.81	.52	.23	.28
IN.	.06	.25	.54	1.98	2.01	1.47	1.05	1.06	3.13	.60	.26	.32
CAL YR 1974	TOTAL	18										

## ILLINOIS RIVER BASIN

05524500 Iroquois River near Foresman, Ind.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAY 03...	1135	11.0	573	49	76
JULY 21...	1645	--	197	154	82

## 05525000 Iroquois River at Iroquois, Ill.

LOCATION.--Lat 40°49'25", long 87°34'55", in SE¼ 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 (152 m) upstream from Penn Central bridge and 4.5 miles (7.2 km) downstream from Indiana-Illinois State line.

DRAINAGE AREA.--686 mi<sup>2</sup> (1,777 km<sup>2</sup>).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.34 ft (187.25 m) above mean sea level. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 534 ft<sup>3</sup>/s (15.12 m<sup>3</sup>/s), 10.57 in/yr (268 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,850 ft<sup>3</sup>/s (109 m<sup>3</sup>/s) June 17, gage height, 19.49 ft (5.941 m); minimum, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) Oct. 29.

Period of record: Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) June 13, 1958, gage height, 26.31 ft (8.019 m); minimum, 5.2 ft<sup>3</sup>/s (0.15 m<sup>3</sup>/s) Sept. 13, 1964.

REMARKS.--Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	63	112	738	1400	2140	852	1030	1030	1730	77	431
2	44	63	116	819	1300	1760	778	968	988	1330	79	399
3	41	63	123	823	1150	1410	831	883	830	960	78	300
4	38	105	141	747	1000	1080	937	805	673	648	81	210
5	37	167	145	634	886	844	977	743	628	458	83	209
6	36	195	144	536	821	689	956	692	721	374	78	390
7	35	175	150	474	774	633	888	637	702	367	97	446
8	36	144	199	501	660	687	793	574	606	330	95	354
9	37	117	252	884	596	771	694	510	488	428	77	242
10	36	100	266	1410	550	814	611	456	407	360	65	174
11	36	104	247	2420	520	787	547	426	369	277	59	151
12	35	122	252	3000	470	762	495	407	430	234	61	141
13	35	148	229	3100	450	766	455	383	546	226	68	135
14	38	156	218	3000	430	779	421	360	747	243	69	129
15	41	145	225	2400	420	744	401	336	2690	249	133	112
16	46	145	258	1800	472	674	392	323	3610	212	267	102
17	47	168	302	1400	615	612	384	296	3820	181	305	95
18	43	210	306	1100	954	583	388	288	3780	163	212	93
19	39	240	283	850	1140	598	394	278	3510	369	142	135
20	36	234	246	530	1180	650	388	270	3110	533	105	190
21	33	207	232	470	1320	690	379	260	2950	382	85	169
22	31	187	226	450	1440	687	367	273	2670	264	104	145
23	35	164	238	434	2160	635	366	383	2240	198	126	124
24	36	149	268	421	2710	591	399	440	1910	162	140	109
25	34	139	480	612	2910	537	435	806	1880	143	145	96
26	32	133	619	792	2930	477	435	1150	2520	130	117	91
27	33	125	609	792	2770	427	422	1170	2540	117	97	88
28	30	120	534	729	2490	430	686	1060	2520	107	96	89
29	29	116	459	966	---	624	962	878	2370	97	157	87
30	33	113	424	1400	---	836	1040	694	2080	87	344	81
31	42	---	511	1430	---	886	---	912	---	79	396	---
TOTAL	1149	4317	8814	35662	34518	24603	18073	18691	53365	11438	4038	5517
MEAN	37.1	144	284	1150	1233	794	602	603	1779	369	130	184
MAX	47	240	619	3100	2930	2140	1040	1170	3820	1730	396	446
MIN	29	63	112	421	420	427	366	260	369	79	59	81
CFSM	.05	.21	.41	1.68	1.80	1.16	.88	.88	2.59	.54	.19	.27
IN.	.06	.23	.48	1.93	1.87	1.33	.98	1.01	2.89	.62	.22	.30

CAL YR 1974 TOTAL 257381 MEAN 705 MAX 4180 MIN 29 CFSM 1.03 IN 13.96  
WTR YR 1975 TOTAL 220185 MEAN 603 MAX 3820 MIN 29 CFSM .88 IN 11.94



05536190 (revised) Hart ditch at Munster, Ind.

LOCATION.--Lat 41°33'40", long 87°28'50", in SE¼NW¼ sec.20, T.36 N., R.9 W., Lake County, on left bank at city limits of Munster, 0.2 mile (0.3 km) downstream from Ridge Road, and 0.4 mile (0.6 km) upstream from mouth.

DRAINAGE AREA.--70.7 mi<sup>2</sup> (183.1 km<sup>2</sup>).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 591.27 ft (180.219 m) above mean sea level (levels by State of Indiana, Department of Natural Resources). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft (366 m) upstream from base gage, at same datum.

AVERAGE DISCHARGE.--33 years, 59.1 ft<sup>3</sup>/s (1.674 m<sup>3</sup>/s), 11.35 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft<sup>3</sup>/s (41.1 m<sup>3</sup>/s) Jan. 11, gage height, 6.17 ft (1.881 m); minimum daily, 4.8 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Sept. 28.

Period of record: Maximum discharge, 2,670 ft<sup>3</sup>/s (75.6 m<sup>3</sup>/s) Apr. 28, 1959; maximum gage height, 7.83 ft (2.387 m) Oct. 11, 1954; minimum daily discharge, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Dec. 24-26, 31, 1963, Jan. 1, 2, Sept. 4-9, 14-17, 1964.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	10	18	166	70	77	70	141	108	32	7.8	12
2	7.0	8.7	38	103	60	60	112	90	88	24	32	10
3	6.2	44	58	81	49	50	331	84	163	22	12	9.6
4	5.5	58	48	60	46	44	303	84	124	19	9.6	8.7
5	7.0	88	37	49	49	46	267	177	72	18	8.7	35
6	5.5	66	33	44	50	48	230	216	58	19	8.7	18
7	5.5	40	49	42	40	197	191	113	44	17	7.8	12
8	5.5	30	133	108	34	225	132	84	36	16	7.0	8.7
9	5.5	24	94	239	30	103	100	66	30	15	6.2	7.0
10	6.2	27	51	800	25	86	84	52	27	14	6.2	7.0
11	5.5	64	44	1,300	23	74	68	44	40	10	22	9.6
12	7.0	62	46	630	24	86	56	40	27	14	12	7.0
13	24	46	54	250	22	81	49	36	33	24	7.8	6.2
14	18	40	62	116	19	64	44	33	173	16	8.7	6.2
15	12	36	149	88	43	56	43	32	820	9.6	8.7	6.2
16	10	37	185	68	86	49	40	29	720	8.7	8.7	6.2
17	8.7	54	105	50	312	49	37	27	330	7.8	8.7	8.7
18	8.7	56	68	43	370	54	158	24	202	63	7.0	9.6
19	8.7	44	50	37	168	70	625	22	121	87	5.5	20
20	7.8	37	42	33	112	77	351	33	86	36	14	10
21	7.0	30	43	30	171	74	163	28	141	25	21	8.7
22	7.8	27	37	27	275	81	124	25	88	20	36	7.8
23	12	24	40	26	533	72	121	24	64	18	9.6	7.0
24	9.6	23	49	49	527	108	468	23	59	16	7.8	6.2
25	7.8	20	58	174	283	81	479	37	199	12	6.2	6.2
26	7.8	19	43	163	163	56	211	38	261	10	6.2	6.2
27	7.0	18	49	84	118	54	354	34	121	9.6	5.5	5.5
28	10	17	40	62	103	81	739	25	77	8.7	7.0	4.8
29	23	16	43	143	-----	202	409	24	52	7.8	20	9.6
30	12	17	70	180	-----	138	205	109	42	7.8	34	7.0
31	12	-----	113	93	-----	77	-----	241	-----	7.0	22	-----
TOTAL	289.9	1,082.7	1,949	5,338	3,805	2,620	6,564	2,035	4,406	614.0	384.4	286.7
MEAN	9.35	36.1	62.9	172	136	84.5	219	65.6	147	19.8	12.4	9.56
MAX	24	88	185	1,300	533	225	739	241	820	87	36	35
MIN	5.5	8.7	18	26	19	44	37	22	27	7.0	5.5	4.8
CFSM	.13	.51	.89	2.43	1.92	1.20	3.10	.93	2.08	.28	.18	.14
IN.	.15	.57	1.03	2.81	2.00	1.38	3.45	1.07	2.32	.32	.20	.15

CAL YR 1974 TOTAL 29,098.6 MEAN 79.7 MAX 1,240 MIN 4.8 CFSM 1.13 IN 15.31  
WTR YR 1975 TOTAL 29,374.7 MEAN 80.5 MAX 1,300 MIN 4.8 CFSM 1.14 IN 15.46

PEAK DISCHARGE (BASE, 800 FT<sup>3</sup>/S).--Jan. 11 (1100) about 1,450 ft<sup>3</sup>/s (6.17 ft); June 15 (2200) about 1,050 ft<sup>3</sup>/s (4.22 ft).

05536195 (revised) Little Calumet River at Munster, Ind.

LOCATION.--Lat 41°34'07", long 87°31'18", in SE¼NW¼ sec.13, T.36 N., R.10 W., Lake County, on left bank 200 ft (61 m) upstream from Hohman Street bridge at north city limits of Munster, 0.4 mile (0.6 km) upstream from Indiana-Illinois State line, and 4.6 miles (7.4 km) upstream from mouth of Thorn Creek.

DRAINAGE AREA.--90.0 mi<sup>2</sup> (233 km<sup>2</sup>). 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 (177.003 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 70.1 ft<sup>3</sup>/s (1.985 m<sup>3</sup>/s), 10.58 in/yr (269 mm/yr).

EXTREMES.--Current year: Maximum discharge, 831 ft<sup>3</sup>/s (23.5 m<sup>3</sup>/s) Jan. 11, gage height, 12.86 ft (3.920 m); minimum daily, 6.4 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Sept. 24.

Period of record: Maximum discharge, 1,510 ft<sup>3</sup>/s (42.8 m<sup>3</sup>/s) Apr. 28, 1959, gage height, 13.67 ft (4.167 m); maximum gage height, 14.43 ft (4.398 m) Dec. 25, 1965; minimum daily discharge, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Aug. 20, 1964.

REMARKS.--Records fair. Flow from eastern portion of Little Calumet River basin is diverted to Lake Michigan by Burns ditch.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	15	28	158	102	130	101	334	180	49	12	22
2	17	14	56	129	84	110	115	238	139	40	32	18
3	14	55	73	96	70	100	261	203	201	34	28	14
4	12	77	70	73	68	90	299	186	196	29	18	11
5	12	127	53	54	66	80	295	227	139	26	16	35
6	11	110	46	59	69	78	277	267	109	25	14	30
7	10	81	51	53	64	195	258	194	84	24	14	22
8	10	63	119	84	51	251	209	149	66	25	12	18
9	10	51	121	212	44	169	168	121	55	21	12	13
10	10	48	71	488	37	144	146	100	47	22	10	11
11	10	49	61	700	34	129	119	85	61	20	16	12
12	9.4	96	62	500	35	128	99	73	50	19	20	12
13	20	74	65	360	33	122	85	66	49	54	13	8.1
14	41	66	79	290	28	105	81	59	156	38	12	7.3
15	17	56	129	220	46	92	70	55	576	20	13	7.1
16	18	54	198	150	83	88	66	48	646	17	13	6.9
17	14	72	146	135	287	79	61	43	488	20	14	7.5
18	13	78	101	94	374	84	141	38	363	61	12	10
19	13	66	80	78	256	93	457	35	278	119	13	23
20	12	54	63	67	175	99	379	41	208	82	150	15
21	11	44	63	59	200	98	259	55	250	60	79	11
22	11	38	54	52	263	100	225	41	170	49	115	9.2
23	13	34	57	47	439	95	204	40	180	42	33	8.6
24	13	31	66	50	489	144	334	37	108	36	21	6.4
25	12	30	75	160	390	113	408	50	118	28	12	6.6
26	13	29	54	188	250	87	290	62	320	22	12	6.8
27	12	27	57	117	200	76	346	54	190	19	9.8	6.6
28	12	23	52	86	160	99	584	44	110	15	8.6	7.5
29	28	22	52	170	-----	182	493	36	80	15	15	10
30	21	23	75	195	-----	175	374	96	64	14	36	13
31	17	-----	117	132	-----	129	-----	298	-----	13	45	-----
TOTAL	459.4	1,607	2,394	5,256	4,397	3,664	7,204	3,375	5,681	1,058	830.4	388.6
MEAN	14.8	53.6	77.2	170	157	118	240	109	189	34.1	26.8	13.0
MAX	41	127	198	700	489	251	584	334	646	119	150	35
MIN	9.4	14	28	47	28	76	61	35	47	13	8.6	6.4
CFSM	.16	.60	.86	1.89	1.74	1.31	2.67	1.21	2.10	.38	.30	.14
IN.	.19	.66	.99	2.17	1.82	1.51	2.98	1.40	2.35	.44	.34	.16
CAL YR 1974	TOTAL 36,696.4	MEAN 101	MAX 835	MIN 7.7	CFSM 1.12	IN 15.17						
WTR YR 1975	TOTAL 36,314.4	MEAN 99.5	MAX 700	MIN 6.4	CFSM 1.11	IN 15.01						

## ILLINOIS RIVER BASIN

05536275 (revised) Thorn Creek at Thornton, Ill.

LOCATION.--Lat 41°34'05", long 87°36'30", near center of N½ 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 (2 km) downstream from North Creek, and at mile 4.2 (6.8 km).

DRAINAGE AREA.--104 mi<sup>2</sup> (269 km<sup>2</sup>).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin.

GAGE.--Water-stage recorder. Datum of gage is 586.43 ft (178.744 m) above mean sea level. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 98.2 ft<sup>3</sup>/s (2.781 m<sup>3</sup>/s), 12.82 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s) Jan. 11, gage height, 11.60 ft (3.536 m); minimum daily, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) Sept. 15.

Period of record: Maximum discharge, 4,700 ft<sup>3</sup>/s (133 m<sup>3</sup>/s) July 13, 1957, gage height, 16.00 ft (4.877 m); minimum daily, 4.4 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Sept. 11, 1949.

Flood of Apr. 5, 1947, reached a stage of 14.34 ft (4.371 m), from floodmark, discharge, 4,200 ft<sup>3</sup>/s (119 m<sup>3</sup>/s).

REMARKS.--Records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	38	41	167	93	112	110	466	258	45	25	38
2	26	37	103	111	82	94	142	244	167	39	60	28
3	26	111	96	89	73	81	340	186	285	36	49	25
4	27	93	66	72	68	72	330	167	239	33	32	23
5	30	185	52	57	78	67	324	378	144	28	28	86
6	27	88	48	55	86	68	330	387	100	32	25	49
7	27	58	71	53	61	299	322	199	74	30	25	28
8	28	46	149	145	58	279	233	145	57	31	25	23
9	28	39	95	235	49	140	171	113	49	42	27	24
10	31	39	63	807	46	114	141	95	42	36	23	24
11	31	145	53	1430	48	102	119	83	52	31	23	27
12	32	84	73	582	48	111	104	73	44	30	24	30
13	40	58	65	231	45	105	90	65	55	71	25	23
14	88	62	90	148	43	90	81	59	192	42	30	22
15	39	51	174	110	82	80	78	60	1000	30	29	21
16	33	49	184	88	125	73	77	56	1050	30	26	23
17	32	77	121	75	442	69	76	52	377	28	23	24
18	31	63	84	78	500	73	213	46	206	61	23	29
19	31	52	70	72	230	91	767	45	140	106	24	90
20	32	46	60	59	158	97	367	56	159	50	66	55
21	29	42	62	59	225	99	193	69	174	29	59	35
22	30	40	55	54	366	105	152	52	98	26	132	31
23	28	40	58	50	693	88	181	48	150	29	39	32
24	25	38	81	66	725	150	486	57	90	33	26	32
25	28	36	75	280	377	118	348	91	217	28	23	32
26	30	35	60	179	225	90	194	102	309	26	24	32
27	31	34	56	104	161	86	365	57	144	24	24	30
28	33	34	50	83	135	128	991	45	96	26	25	30
29	62	32	53	241	---	302	494	44	67	23	44	32
30	52	34	84	202	---	208	374	201	53	23	105	42
31	44	---	132	118	---	134	---	673	---	23	81	---
TOTAL	1062	1786	2524	6100	5322	3725	8193	4414	6088	1121	1194	1020
MEAN	34.3	59.5	81.4	197	190	120	273	142	203	36.2	38.5	34.0
MAX	88	185	184	1430	725	302	991	673	1050	106	132	90
MIN	25	32	41	50	43	67	76	44	42	23	23	21
CFSM	.33	.57	.78	1.89	1.83	1.15	2.63	1.37	1.95	.35	.37	.33
IN.	.38	.64	.90	2.18	1.90	1.33	2.93	1.58	2.18	.40	.43	.36

CAL YR 1974 TOTAL 50993 MEAN 140 MAX 2470 MIN 25 CFSM 1.35 IN 18.24  
WTR YR 1975 TOTAL 42549 MEAN 117 MAX 1430 MIN 21 CFSM 1.13 IN 15.22

PEAK DISCHARGE (BASE, 900 FT<sup>3</sup>/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-11	0530	11.60	1,630	06-15	2345	10.85	1,410
04-28	0915	9.57	1,100				

05536290 (revised) Little Calumet River at South Holland, Ill.

LOCATION.--Lat 41°36'05", long 87°34'38", in SW¼SW¼ 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 (1.0 km) downstream from Thorn Creek, 1.6 miles (2.6 km) east of South Holland, and at mile 21.7 (34.8 km).

DRAINAGE AREA.--205 mi<sup>2</sup> (531 km<sup>2</sup>).

PERIOD OF RECORD.--October 1947 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) above mean sea level (Illinois Department of Transportation 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 (9.8 km) downstream; prior to Nov. 17, 1947, nonrecording gage at same site read twice daily.

AVERAGE DISCHARGE.--28 years, 177 ft<sup>3</sup>/s (5.013 m<sup>3</sup>/s), 11.72 in/yr (298 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,480 ft<sup>3</sup>/s (70.2 m<sup>3</sup>/s) Jan. 11, gage height, 16.14 ft (4.919 m); minimum daily, 34 ft<sup>3</sup>/s (0.96 m<sup>3</sup>/s) Sept. 28.

Period of record: Maximum discharge, 4,440 ft<sup>3</sup>/s (126 m<sup>3</sup>/s) July 14, 1957, gage height, 20.11 ft (6.130 m); minimum daily, 7.9 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Oct. 6, 1950.

Flood of Apr. 6, 1947, reached a stage of 19.24 ft (5.864 m), from floodmarks, discharge, 4,760 ft<sup>3</sup>/s (135 m<sup>3</sup>/s).

REMARKS.--Records good. Flow from upper Little Calumet River basin is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 miles (12.9 km) 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 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	58	84	399	209	289	216	923	557	110	49	83
2	59	54	173	313	172	233	229	551	352	95	89	62
3	52	166	209	233	152	195	559	415	495	85	109	56
4	48	236	162	188	140	174	678	380	499	77	63	50
5	52	390	128	143	146	154	651	576	310	67	57	129
6	49	268	113	143	167	150	641	737	219	69	54	108
7	44	176	131	136	124	465	628	437	165	67	53	64
8	46	134	303	248	118	587	492	311	133	67	50	52
9	44	110	271	425	109	359	376	244	114	72	51	50
10	47	101	173	1300	94	267	303	201	103	68	49	48
11	46	292	140	2360	90	240	247	172	121	63	47	48
12	45	232	160	1640	87	243	205	149	113	55	66	55
13	56	167	155	805	81	237	173	136	113	95	55	40
14	184	157	206	538	75	200	153	123	345	81	54	38
15	85	136	331	371	111	174	144	120	1590	61	56	36
16	68	122	423	280	211	161	135	109	1930	55	51	38
17	61	169	340	215	682	148	128	100	1100	53	53	39
18	55	169	233	195	968	153	298	95	637	91	48	46
19	52	144	187	174	582	182	1210	88	445	209	47	118
20	51	126	152	141	351	191	890	96	350	151	137	84
21	48	108	151	131	434	193	509	141	420	98	125	49
22	45	96	138	118	599	204	419	102	298	84	420	40
23	47	91	141	106	1170	189	405	96	306	79	91	40
24	48	87	176	115	1340	308	759	93	219	80	59	38
25	47	79	190	427	939	265	842	146	313	68	51	35
26	50	78	149	410	601	189	545	179	602	60	50	37
27	53	77	146	249	435	158	747	124	361	55	47	35
28	54	72	128	182	362	223	1740	101	236	50	46	34
29	102	65	125	376	---	484	1220	96	165	51	63	36
30	108	66	180	441	---	428	842	307	129	50	220	49
31	66	---	281	283	---	281	---	1060	---	50	185	---
TOTAL	1890	4226	5879	13085	10549	7724	16384	8408	12740	2416	2595	1637
MEAN	61.0	141	190	422	377	249	546	271	425	77.9	83.7	54.6
MAX	184	390	423	2360	1340	587	1740	1060	1930	209	420	129
MIN	44	54	84	106	75	148	128	88	103	50	46	34
CFSM	.30	.69	.93	2.06	1.84	1.21	2.66	1.32	2.07	.38	.41	.27
IN.	.34	.77	1.07	2.37	1.91	1.40	2.97	1.53	2.31	.44	.47	.30

CAL YR 1974 TOTAL 100938 MEAN 277 MAX 2840 MIN 37 CFSM 1.35 IN 18.32  
WTR YR 1975 TOTAL 87533 MEAN 240 MAX 2360 MIN 34 CFSM 1.17 IN 15.88





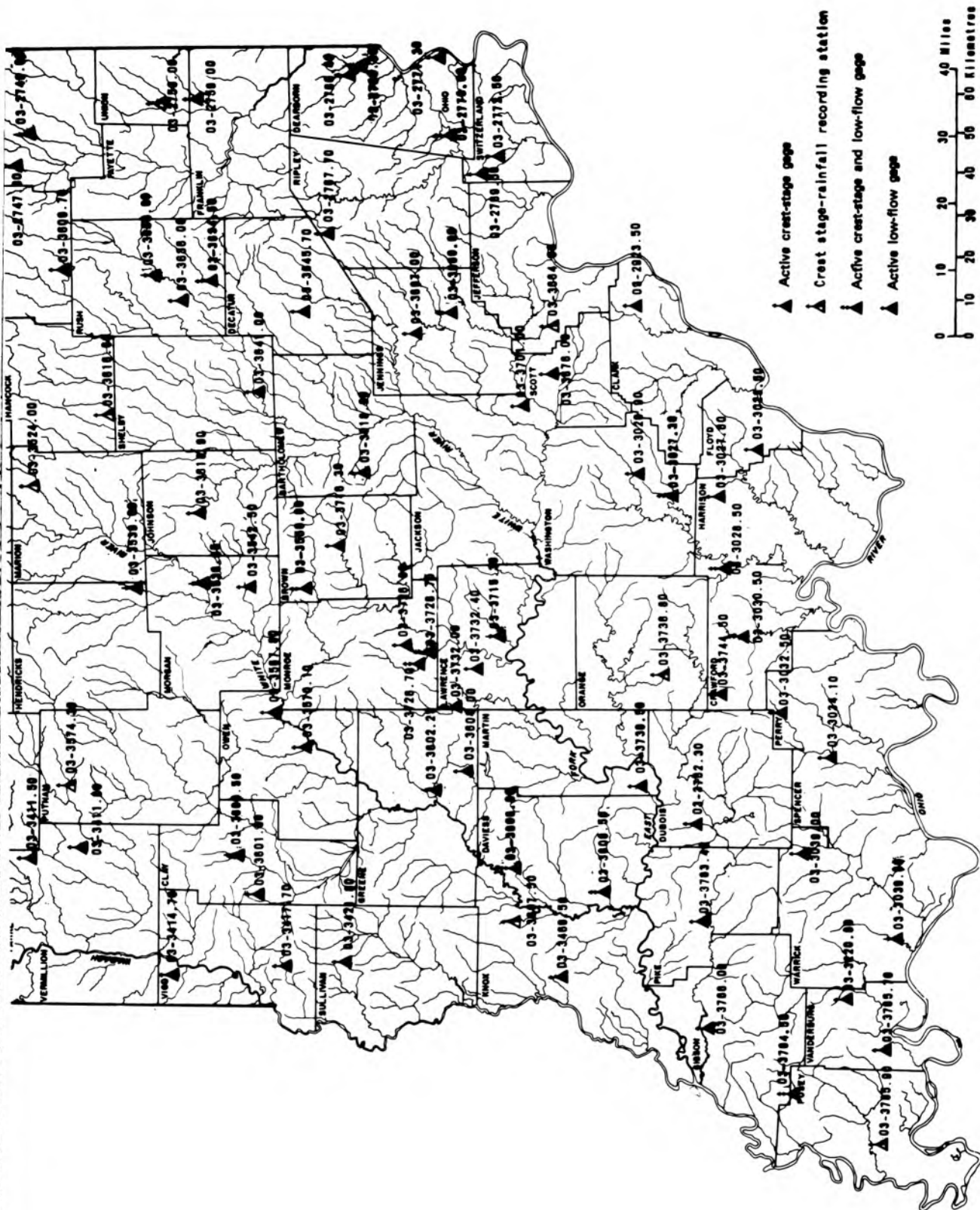


Figure 3.-- Location of partial-record stations in Indiana



### Low-flow partial-record stations

Discharge measurements made at low-flow partial-record stations during Water Year 1975

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
OHIO RIVER BASIN						
Great Miami River						
03274710	Nettle Creek near Hagerstown, Ind.	Lat 39°55'30", long 85°10'39", in W <sup>1</sup> / <sub>4</sub> sec.15, T.17 N., R.12 E., Wayne County, at bridge on Leavell Road, 1.3 miles northwest of Hagerstown.	17.7	1971-75	07-25-75 08-27-75	6.31 5.38
03274900	Greens Fork at Greens Fork, Ind.	Lat 39°53'35", long 85°02'39", in NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.26, T.17 N., R.13 E., Wayne County, at bridge on State Highway 38, at west edge of Greens Fork.	66.7	1969-75	07-25-75 08-27-75	7.72 4.47
Tanners Creek						
03276630	Tanners Creek near Guilford, Ind.	Lat 39°09'15", long 84°53'50", in E <sup>1</sup> / <sub>4</sub> 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	1969-75	07-30-75 08-29-75	.15 .07
03302850	Whiskey Run at Milltown, Ind.	Lat 86°21'08", long 86°17'01", in SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.10, T.2 S., R.2 E., Crawford County, at county road bridge, 0.25 miles south of State Highway 64, and 0.8 mile north of intersection of Main Street and Station Street in Milltown.	39.8	1975	08-28-75	.16
03303250	Deer Creek near Cannelton, Ind.	Lat 37°58'16", long 86°38'39", in SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.20, T.6 S., R.2 W., Perry County, at county road bridge, 6.8 miles northeast of Cannelton.	8.7	1975	10-08-74 07-10-75 08-28-75	1.54 .08 .00
03303950	Otter Creek near Degonia Springs, Ind.	Lat 38°02'24", long 87°12'22", in SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.32, T.5 S., R.7 W., Warrick County, at bridge on State Highway 62, 1.5 miles southwest of DeGonia Springs.	about 30	1974-75	07-30-75 08-27-75	2.06 1.12
Wabash River						
03322860	Loblolly Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.32, T.25 N., R.14 E., Adams County, 200 ft upstream from Limberlost Creek, 500 ft upstream from bridge on U.S. Highway 27 and at south edge of Geneva (corrected).	67.2	1969-75	07-17-75 09-02-75	2.41 4.77
03322880	Limberlost Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.32, T.25 N., R.14 E., Adams County, 50 ft upstream from mouth, at south edge of Geneva (corrected).	41.7	1969-75	07-17-75 09-02-75	.86 2.60
03324700	Treaty Creek at Wabash, Ind.	Lat 40°47'31", long 85°48'36", in SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.14, T.27 N., R.6 E., Wabash County, at bridge on Waterworks Road, 0.5 mile southeast of Wabash.	30.1	1969-75	07-18-75 09-04-75	1.65 3.17
03325700	Halfway Creek near Albany, Ind.	Lat 40°19'37", long 85°12'56", in NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.29, T.22 N., R.12 E., Delaware County, at bridge on County Road 15 East, 1.0 mile north of State Highway 67, 1.5 miles northeast of Albany.	about 19	1974-75	07-25-75 09-02-75	.45 2.70
03326480	Lugar Creek at Marion, Ind.	Lat 40°32'20", long 85°37'40", in SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.9, T.24 N., R.8 E., Grant County, at bridge on Stone Road, 2.0 miles east of Marion.	about 30	1972-75	07-16-75 09-04-75	1.92 2.10
03327590	Eel River near Columbia City, Ind.	Lat 41°08'33", long 85°27'25", in NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 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	1969-75	07-08-75 08-27-75	34.1 21.8

Discharge measurements made at low-flow partial-record stations during Water Year 1975--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
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 intersection with State Highway 5, at southeast edge of South Whitley.	30.7	1969-75	07-08-75 08-27-75	6.44 26.0
03328420	Paw Paw Creek near Roann, Ind.	Lat 40°53'40", long 85°53'19", in SW¼NW¼ sec.8, T.28 N., R.5 E., 3.5 miles northwest of intersection of State Highways 115 and 15.	about 31	1973-75	07-18-75 09-04-75	2.12 2.96
03329100	Crooked Creek near Royal Center, Ind.	Lat 40°48'23", long 86°29'31", in NW¼ sec.11, T.27 N., R.1 W., Cass County, at culverts on 625 Road West, 4 miles south of Royal Center.	35.9	1968-75	07-10-75 08-28-75	20.9 20.1
03329150	Crooked Creek near Logansport, Ind.	Lat 40°45'51", long 86°29'54", in NW¼ 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	1968-75	07-10-75 08-28-75	32.0 40.8
03329510	Deer Creek near Lincoln, Ind.	Lat 40°36'11", long 86°12'10", in NW¼ sec.21, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, 1 mile south of Lincoln.	56.5	1968-75	07-11-75 09-04-75	5.62 18.3
03329530	South Fork Deer Creek at Galveston, Ind.	Lat 49°34'54", long 86°11'23", in SE¼ sec.28, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, at Galveston.	31.6	1968-75	07-11-75 09-04-75	3.58 11.1
03331350	Big Yellow Creek near Mentone, Ind.	Lat 41°10'18", long 86°07'16", in NW¼NE¼ sec.6, T.31 N., R.4 E., Fulton County, at bridge on State Highway 25, 4.5 miles west of Mentone.	43.7	1969-75	07-08-75 08-27-75	20.1 4.46
03331375	Chippewanuck Creek near Rochester, Ind.	Lat 41°06'43", long 86°11'09", in NW¼NW¼ sec.27, T.31 N., R.3 E., Fulton County, at bridge on State Highway 25, 3.5 miles north of Rochester.	43.7	1969-75	07-08-75 08-27-75	25.2 13.2
03332250	Indian Creek near Thornhope, Ind.	Lat 40°55'12", long 86°31'42", in NE¼SE¼NE¼ 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, 1970-75	07-10-75 08-28-75	24.8 16.1
03332350	Big Monon Creek near Medaryville, Ind.	Lat 41°03'21", long 86°50'02", in NW¼NW¼ sec.13, T.30 N., R.4 W., Pulaski County, at bridge on State Highway 14, 3 miles east of intersection of U.S. Highway 421 and State Highway 14, 3.5 miles southeast of Medaryville.	69.6	1968-69 1971-75	07-10-75 08-28-75	44.7 26.2
03332550	Pike Creek near Norway, Ind.	Lat 40°46'51", long 86°44'42", in NE¼NE¼NW¼ sec.22, T.27 N., R.3 W., White County, at bridge on State Highway 39, 2 miles north of U.S. Highway 24.	about 29	1974-75	07-10-75 08-28-75	24.6 14.7
03332800	Big Creek near Monticello, Ind.	Lat 40°40'16", long 86°47'14", in SW¼NW¼SW¼ sec.29, T.26 N., R.3 W., White County, at bridge on county road, 4.8 miles east of State Highway 43 in Chalmers.	55.3	1968-69 1971-75	07-10-75 08-28-75	21.7 10.8
03334700	Middle Fork Wildcat Creek near Rossville, Ind.	Lat 40°25'47", long 86°36'15", in NE¼NE¼ sec.23, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 1.0 mile northwest of Rossville.	54.0	1969-75	07-09-75 09-03-75	11.1 49.2
03334750	Campbells Run near Rossville, Ind.	Lat 40°24'46", long 86°35'41", in SE¼NW¼ 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	1969-75	07-09-75 09-03-75	2.49 9.51
03335680	Indian Creek near Greenhill, Ind.	Lat 40°25'03", long 87°02'31", in SE¼SW¼SE¼ 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	1972-75	07-08-75 08-27-75	3.17 .92
03335800	Big Shawnee Creek near Attica, Ind.	Lat 40°14'30", long 87°14'12", in NW¼ 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	1968-75	07-08-75	18.5
03339300	Prairie Creek at Thorntown, Ind.	Lat 40°07'46", long 86°36'01", in SE¼SE¼ sec.35, T.20 N., R.2 W., Boone County, at bridge on State Highway 47, at east edge of Thorntown.	46.9	1969-75	07-08-75 08-28-75 09-05-75	8.70 39.7 19.4
03339460	Walnut Fork Sugar Creek near Crawfordsville, Ind.	Lat 40°02'49", long 86°51'33", in SE¼NW¼ sec.34, T.19 N., R.4 W., Montgomery County, at bridge on State Highway 32, 2.5 miles east of Crawfordsville.	44.8	1969-75	07-16-75 08-28-75 09-05-75	3.41 26.4 7.07
03340200	Mill Creek near Wallace, Ind.	Lat 39°58'03", long 87°10'28", in SW¼SW¼SE¼ sec.26, T.18 N., R.7 W., Fountain County, at bridge on State Highway 234, 1.4 miles west of State Highway 341.	about 41	1974-75	07-08-75 09-04-75	6.03 5.73
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	1968-75	07-25-75 08-26-75 08-29-75	2.81 22.3 1.79
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	1972-75	07-25-75 08-26-75	8.04 3.94

Discharge measurements made at low-flow partial-record stations during Water Year 1975--Continued

			Measurements			
Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of Record	Date	Discharge (ft <sup>3</sup> /s)
OHIO RIVER BASIN--Continued						
Wabash River--Continued						
03353665	Stotts Creek near Martinsville, Ind.	Lat 39°30'02", long 86°19'57", in NE¼ 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, 1968-75	07-09-75 08-27-75	22.5 .64
03353900	East Fork White Lick Creek at Morresville, Ind.	Lat 39°38'47", long 86°20'47", in SE¼ 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, 1968-75	07-02-75 08-27-75	7.68 5.47
03360050	Birch Creek near Ashboro, Ind.	Lat 39°24'14", long 87°06'41", in NE¼SE¼SE¼ sec.7, T.11 N., R.6 W., Clay County, at bridge on State Highway 59, 0.5 mile northwest of Ashboro.	about 41	1974-75	07-09-75 09-04-75	.68 6.40
03360225	Plummer Creek near Bloomfield, Ind.	Lat 38°59'33", long 86°55'44", in NE¼ 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, 1968-75	07-11-75 08-26-75	3.86 2.79
03360850	Veales Creek near Washington, Ind.	Lat 38°36'15", long 87°11'39", in NE¼NE¼SW¼ sec.16, T.2 N., R.7 W., Daviess County, at bridge on State Highway 57, 3.7 miles southwest of Washington.	about 32	1974-75	07-09-75 08-26-75	1.71 1.08
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, 1969-75	07-25-75 08-27-75	5.26 3.85
03363400	Flatrock River at Rushville, Ind.	Lat 39°36'15", long 85°26'39", in NW¼SW¼ 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	1969-75	07-30-75 08-27-75	11.0 9.30
03371530	Leatherwood Creek at Bedford, Ind.	Lat 38°50'23", long 86°28'38", in SE¼SW¼NW¼ 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	1972-75	07-11-75 08-26-75	1.17 .43
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	1972-75	07-09-75 08-26-75	19.7 22.4
04100375	Solomon Creek near Syracuse, Ind.	Lat 41°27'03", long 85°42'43", in NE¼NE¼NE¼ sec.33, T.35 N., R.7 E., Elkhart County, at bridge on U.S. Highway 6, 0.75 mile west of State Highway 13.	about 34	1974-75	07-09-75 08-26-75	18.1 11.6
04101300	Judy Creek at Roseland, Ind.	Lat 41°43'18", long 86°15'02", in NE¼NW¼ sec.25, T.38 N., R.2 E., St. Joseph County, at bridge on U.S. Highway 31, 150 ft south of Interstates 80 and 90 at the north edge of Roseland.	about 37	1973-75	07-10-75 08-28-75	9.62 7.35
STREAMS TRIBUTARY TO LAKE ERIE						
Maumee River						
04177800	Fish Creek near Artic, Ind.	Lat 41°29'15", long 84°50'13", in SE¼ sec.18, T.35 N., R.15 E., DeKalb County, at bridge on County Road 12, 1.7 miles northeast of Artic.	95.6	1968-75	07-10-75 09-03-75	36.6 52.4
04177900	Big Run at Butler, Ind.	Lat 41°26'09", long 84°52'08", in NE¼ sec.1, T.34 N., R.14 E., DeKalb County, at bridge on State Highway 1, 0.6 mile north of Butler.	17.0	1968-75	07-10-75 09-03-75	2.60 2.28
04178400	Bear Creek at Saint Joe, Ind.	Lat 41°18'58", long 84°53'31", in NE¼SW¼SE¼ sec.15, T.33 N., R.14 E., DeKalb County, at bridge on State Highway 1, 0.3 mile east of Saint Joe.	27.2	1972-75	07-10-75 09-03-75	6.16 3.49
04179310	Cedar Creek at Waterloo, Ind.	Lat 41°26'14", long 85°01'03", in NW¼ sec.3, T.34 N., R.13 E., DeKalb County, at bridge on U.S. Highway 427, 0.3 mile northeast of Waterloo.	48.8	1968-75	07-10-75 09-03-75	23.3 10.2
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	1972-75	07-10-75 09-03-75	31.5 11.6
04181300	Yellow Creek near Decatur, Ind.	Lat 40°48'10", long 84°53'00", in NW¼NE¼NE¼ 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	1972-75	07-17-75 09-02-75	.16 .86

Discharge measurements made at low-flow partial-record stations during Water Year 1975--Continued

			Measurements			
Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Discharge (ft <sup>3</sup> /s)
STREAMS TRIBUTARY TO LAKE ERIE--Continued						
Maumee River--Continued						
04191340	Flatrock Creek near Townley, Ind.	Lat 41°00'51", long 84°51'06", in SE¼ 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	1968-75	07-17-75 09-02-75	.39 10.2
UPPER MISSISSIPPI RIVER BASIN						
Illinois River						
05515218	Potato Creek at North Liberty, Ind.	Lat 41°32'28", long 86°25'38", in NE¼NE¼SE¼ sec.29, T.36 N., R.1 E., St. Joseph County, at bridge on State Highway 23, 0.5 mile north of State Highway 4 in North Liberty.	about 27	1973-75	07-09-75 08-28-75	14.3 12.2

Discharge measurements made at high-flow, low-flow partial-record stations during Water Year 1975 (and some made in 1974 water year)

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
OHIO RIVER BASIN						
03277000	Laughery Creek near Farmers Retreat, Ind.	Lat 38°57'08", long 85°04'15", in NW¼SE¼ 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.	642	1941-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-18-73 10-26-74 08-29-75	5.16 44.7 1.39
03302730	South Fork Blue River near Palmyra, Ind.	Lat 38°28'07", long 86°04'55", in NE¼NW¼ sec.4, T.15 N., R.4 E., Washington County, at bridge on Old Palmyra Road, 0.2 mile north of State Highway 135, and 4.7 miles north of the intersection of U.S. Highway 150 and State Highway 135 in Palmyra.	64.3	1974-75	11-20-74 11-20-74 11-21-74 01-10-75 01-11-75 03-13-75 04-24-75 04-25-75 07-10-75 08-28-75	118 95.1 68.4 589 706 409 8,300 1,680 .86 .0
03303050	Bird Hollow Creek at English, Ind.	Lat 38°21'02", long 86°28'01", in SE¼NE¼NW¼ sec.13, T.2 S., R.1 W., Crawford County, at bridge on State Highway 37, 0.7 mile north of State Highway 64.	9.31	1974-75	10-09-74 11-20-74 11-20-74 11-21-74 01-10-75 01-10-75 01-11-75 03-13-75 04-25-75 07-10-75 08-28-75	1.08 33.6 31.2 17.3 700 694 79.8 41.0 5,520 .08 .01
03323150	Rock Creek near Rockford, Ind.	Lat 40°44'31", long 85°18'24", in NW¼NE¼ sec.5, T.26 N., R.11 E., Wells County, at bridge on State Highway 124, 1.3 miles south of Rockford, and 3.5 miles east of State Highway 3.	77 <sup>c</sup>	1974-75	07-17-75 07-17-75 09-04-75	5.04 21.6
03324050	Clear Creek near Huntington, Ind.	Lat 40°54'57", long 85°32'42", in NW¼NW¼ sec.5, T.28 N., R.9 E., Huntington County, at bridge on State Highway 16, 0.8 mile west of State Highway 5, and 3.4 miles northwest of Huntington.	49 <sup>c</sup>	1974-75	07-17-75 09-04-75	1.59 16.2
03332300	Little Indian Creek near Royal Center, Ind.	Lat 40°52'53", long 86°35'26", in NE¼NW¼ 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.	35.0	1959-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-03-73 08-28-75	27.3 13.0
03332400	Big Monon Creek near Francesville, Ind.	Lat 40°59'03", long 86°51'43", in NW¼NE¼ 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.	152	1959-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-09-73 09-18-75	46.7 53.0
03334000	Wildcat Creek near Owasco, Ind.	Lat 40°27'50", long 86°38'15", in SE¼SE¼ sec.4, T.23 N., R.2 W., Carroll County, on left bank 500 ft downstream from bridge on State Highway 39, 0.5 miles northwest of Owasco, and 15 miles upstream from South Fork Wildcat Creek.	396	1943-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-03-73 08-29-75	107 265
03355000	Bear Creek near Trevlac, Ind.	Lat 39°16'40", long 86°20'45", in NE¼NE¼ 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.	6.94	1952-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-22-74	.46
03360600	Smothers Creek near Plainville, Ind.	Lat 38°48'43", long 87°07'48", in SE¼NE¼ sec.1, T.4 N., R.7 W., Daviess County, at county road bridge, 1.3 miles northeast of State Highway 57 in Plainville.	33 <sup>c</sup>	1974-75	01-11-75 07-09-75 08-26-75	617 3.98 2.19
03363450	Little Flatrock Creek at Milroy, Ind.	Lat 39°29'49", long 85°28'24", in NE¼NW¼ sec.13, T.12 N., R.9 E., Rush County, at bridge on State Highway 244, 800 ft east of State Highway 3, and at west edge of Milroy.	34.8	1974-75	07-30-75 08-27-75	.18 .09
03366000	Graham Creek near Vernon, Ind.	Lat 38°55'47", long 85°33'45", in NW¼SE¼ 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.	77.2	1955-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-21-74	15.1
03372670	Jackson Creek near Bloomington, Ind.	Lat 39°07'17", long 86°30'50", in SW¼SW¼ sec.15, T.8 N., R.1 W., Monroe County, at bridge on Rhorer Road 0.95 mile east of State Highway 37 on the south side of Bloomington.	4.66	1974-75 <sup>a</sup>	04-01-74 04-24-74 05-21-74 07-08-74 05-14-75 07-02-75 09-10-75 09-10-75	7.0 2.63 1,920 .37 .20 <sup>c</sup> .03 <sup>c</sup> .04 .0
03372675	Jackson Creek at Clear Creek, Ind.	Lat 39°06'01", long 86°32'18", in SE¼NE¼ sec.29, T.8 N., R.1 W., Monroe County, at bridge on Rogers Street, 400 ft north of State Highway 37 and 0.5 mile south of Clear Creek Road in Clear Creek.	10.8	1975		



Discharge measurements made at high-flow, low-flow partial-record stations during Water Year 1975 (and some made in 1974 water year)--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
OHIO RIVER BASIN--Continued						
03373200	Indian Creek near Springville, Ind.	Lat 38°57'01", long 86°40'30", in SE¼SW¼ 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.	60.7	1961-73 <sup>a</sup>	10-15-74 08-27-75	12.4 .65
03378450	Black River near Poseyville, Ind.	Lat 38°12'00", long 87°46'51", on line between SW¼SW¼ sec.5, and SE¼SE¼ sec.6, T.4 S., R.12 W., Posey County, at bridge on State Highway 165, 500 ft south of Gibson-Posey County line, and 2.0 miles north of State Highway 68 in Poseyville.	22.9	1974-75	01-11-75 01-12-75 04-25-75 07-12-75 08-27-75	110 56.3 1,020 1.12 1.11
STREAMS TRIBUTARY TO LAKE MICHIGAN						
04100800	Yellow Creek at Dunlap, Ind.	Lat 41°38'44", long 85°56'00", in NE¼NE¼ sec. 27, T.37 N., R.5 E., Elkhart County, at bridge on U.S. Highway 33, at northwest edge of Dunlap.	33 <sup>c</sup>	1974-75	07-09-75 08-26-75	8.11 8.24
04179500	Cedar Creek at Auburn, Ind.	Lat 41°21'57", long 85°03'08", in NE¼NW¼ 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.	87.3	1943-73 <sup>a</sup> 1974-75 <sup>b</sup>	12-30-74 05-21-75 09-03-75	62.7 39.0 14.3
ILLINOIS RIVER BASIN						
05516000	Yellow River near Bremen, Ind.	Lat 41°25'11", long 86°10'14", in NW¼NW¼ 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.	135	1955-73 <sup>a</sup> 1974-75 <sup>b</sup>	10-19-73 09-24-75	11.5 13.7
05516950	Eagle Creek near Grovertown, Ind.	Lat 41°18'44", long 86°31'27", in SE¼NE¼ sec.16, T.33 N., R.1 W., Starke County, at bridge on State Highway 23, 0.3 mile south of County Road 100 North, and 5.2 miles south of U.S. Highway 30 in Grovertown.	32 <sup>c</sup>	1973-75	01-10-75 06-05-75 07-09-75 08-28-75	56.0 69.4 27.0 19.0

<sup>a</sup>Recording

<sup>b</sup>Non-recording

<sup>c</sup>About



## Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

## Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
GREAT MIAMI RIVER BASIN							
03274730	Whitewater River tributary near Hagerstown, Ind.	Lat 39°54'38", long 85°05'56", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.23, T.17 N., R.12 E., Wayne County, at culvert on State Highway 38, 0.7 mile east of Hagerstown.	0.20	1973-75	11-04-74	5.94	10
03274880	Greens Fork tributary near Lynn, Ind.	Lat 40°01'14", long 84°56'24", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.18 N., R.14 E., Randolph County, at culvert on U.S. Highway 27, 1.9 miles south of intersection of U.S. Highways 27 and 36 in Lynn.	1.0	1973-75	02-23-75	5.49	85
03275800	West Run near Liberty, Ind.	Lat 39°38'24", long 84°57'18", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.14 N., R.2 W., Union County, at culvert on State Highway 44, 4.8 miles east of Fayette-Union County Line, 1.1 miles west of Liberty.	.30	1972-75	04-27-75	8.00	135
03275900	Templeton Creek near Fairfield, Ind.	Lat 39°31'20", long 84°56'51", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.10 N., R.2 W., Franklin County, at culvert on State Highway 101, 0.25 mile south of Franklin-Union County Line.	6.0	1973-75	01-10-75	7.73	140
TANNERS CREEK BASIN							
03276640	Tanners Creek tributary near Lawrenceburg, Ind.	Lat 39°09'18", long 84°52'20", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.6 N., R.1 W., Dearborn County, at culvert 0.25 mile east of Salt Fork Road on State Highway 1.	.25	1973-75	02-23-75	11.54	72
LAUGHERY CREEK BASIN							
03276770	Laughery Creek tributary near Napoleon, Ind.	Lat 39°13'18", long 85°20'07", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.9 N., R.11 E., Ripley County, at culvert on U.S. Highway 421, 1.1 miles north of Napoleon.	.10	1973-75	02-23-75	6.75	32
03276950	Uhlman Creek tributary near Avonburg, Ind.	Lat 38°53'33", long 85°11'04", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.4 N., R.12 E., Switzerland County, at culvert on State Highway 129, 1.5 miles north of State Highway 250 at Pleasant.	.10	1973-75	02-23-75	6.24	20
OHIO RIVER BASIN							
03277030	Ohio River tributary near Rising Sun, Ind.	Lat 38°59'36", long 84°51'16", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.4 N., R.1 W., Ohio County, at culvert on State Highway 56, 3.3 miles north of State Highway 262 in Rising Sun.	.10	1973-75	04-24-75	8.15	15
INDIAN-KENTUCK RIVER BASIN							
03277250	Indian Creek tributary near Bennington, Ind.	Lat 38°52'25", long 85°07'24", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.4 N., R.3 W., Switzerland County, at culvert on State Highway 250, 3.7 miles east of State Highway 129 at Pleasant.	.10	1973-75	04-24-75	6.31	54
FOURTEENMILE CREEK BASIN							
03292350	Flag Run tributary near New Washington, Ind.	Lat 38°31'08", long 85°32'29", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.1 N., R.9 E., Clark County, at culvert on State Highway 62, 3.0 miles south of New Washington.	.20	1973-75	04-24-75	6.49	24
INDIAN CREEK BASIN							
03302350	Georgetown Creek tributary near Georgetown, Ind.	Lat 38°17'30", long 85°56'26", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.25 N., R.5 E., Floyd County, at culvert on State Highway 64, 1.8 miles east of Georgetown.	.20	1973-75	04-24-75	11.11	410

## Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
BLUE RIVER BASIN							
03302690	Middle Fork Blue River tributary near Farabee, Ind.	Lat 38°32'44", long 86°02'14", in NE¼SW¼SE¼ sec.2, T.1 N., R.4 E., Washington County, at culvert on State Highway 60, 3.3 miles west of State Highway 56.	0.10	1972-75	04-24-75	6.49	28
03302760	Licking Creek near Palmyra, Ind.	Lat 38°23'20", long 86°04'29", in SE¼SW¼NW¼ sec.28, T.1 S., R.4 E., Harrison County, at culvert on U.S. Highway 150, 2.1 miles east of intersection of U.S. Highway 150 and State Highway 135 in Palmyra.	.75	1973-75	04-24-75	8.58	140
ANDERSON RIVER BASIN							
03303250	Sigler Creek tributary at Uniontown, Ind.	Lat 38°13'21", long 86°41'50", in NW¼SW¼SW¼ sec.25, T.3 S., R.3 W., Perry County, at culvert on State Highway 145, 0.1 mile south of State Highway 62 and U.S. Highway 460.	.20	1973-75	04-24-75	7.19	58
CROOKED CREEK BASIN							
03303410	East Fork Crooked Creek tributary near Fulda, Ind.	Lat 38°05'18", long 86°49'12", in NW¼NW¼NE¼ sec.14, T.5 S., R.4 W., Spencer County, at culvert on State Highway 545, 1.6 miles south of Fulda.	.25	1973-75	04-24-75	8.76	112
LITTLE PIGEON CREEK BASIN							
03303900	Little Red Creek tributary near Heilman, Ind.	Lat 38°11'35", long 87°05'22", in NE¼SE¼SE¼ sec.5, T.4 S., R.6 W., Warrick County, at culvert on State Highway 161, 2.4 miles north of Heilman.	.25	1973-75	04-24-75	7.92	77
PICEON CREEK BASIN							
03322080	Bluegrass Creek tributary near Daylight, Ind.	Lat 38°06'09", long 87°29'02", in NW¼SE¼NW¼ sec.12, T.5 S., R.10 W., Vanderburgh County, at culvert on State Highway 57, 0.9 mile north of Daylight.	.60	1973-75	04-24-75	8.52	139
WABASH RIVER BASIN							
03322940	March Ditch near Reiffsburg, Ind.	Lat 40°39'19", long 85°06'20", in NW¼NW¼NW¼ sec.6, T.25 N., R.13 E., Wells County, at culvert on State Highway 118, 1.9 miles west of Adams-Wells County Line.	.60	1972-75	01-29-75	8.56	6
03323750	Yarger Ditch at Tocsin, Ind.	Lat 40°49'50", long 85°05'49", in NW¼NE¼ sec.6, T.27 N., R.13 E., Wells County, at culvert on U.S. Highway 224, 0.31 mile west of intersection of U.S. Highway 224 and State Highway 301.	1.00	1975	08-22-75	5.83	19
03323950	Little River tributary near Roanoke, Ind.	Lat 40°55'48", long 85°23'08", in SE¼NE¼NW¼ sec.34, T.29 N., R.10 E., Huntington County, at culvert on U.S. Highway 24, 2.3 miles southwest of Roanoke.	1.0	1972-75	09-12-75	6.39	48
03324210	Blaine Run at Blaine, Ind.	Lat 40°24'15", long 85°03'19", in NW¼SW¼NW¼ sec.35, T.23 N., R.13 E., Jay County, at culvert on State Highway 67, 0.1 mile north-east of Blaine.	.40	1972-75	06-20-75	6.37	36
03324260	Salamonie River tributary near Montpelier, Ind.	Lat 40°33'06", long 85°19'25", in NW¼NW¼NE¼ sec.7, T.24 N., R.11 E., Blackford County, at culvert on State Highway 18, 2.5 miles east of State Highway 3.	1.26	1972-75	01-29-75	6.17	62
03324350	Brook Creek tributary near Warren, Ind.	Lat 40°44'35", long 85°26'42", in SW¼SE¼SW¼ sec.31, T.27 N., R.10 E., Huntington County, at culvert on State Highway 5, 1.6 miles northwest of Interstate Highway 69.	.60	1972-75	06-15-75	7.75	96
03327510	Little Pipe Creek tributary near New Santa Fe, Ind.	Lat 40°41'38", long 86°00'34", in SW¼SE¼SW¼ sec.18, T.26 N., R.5 E., Miami County, at culvert on State Highway 21, 1.8 miles northwest of New Santa Fe.	.40	1973-75	06-14-75	7.18	56
03327530	Minnow Creek tributary near Logansport, Ind.	Lat 40°43'46", long 86°17'48", in NW¼NW¼SW¼ sec.3, T.26 N., R.2 E., Cass County, at culvert on U.S. Highway 35, 4.0 miles southeast of State Highway 29 in Logansport.	1.13	1972-75	06-14-75	6.57	71
03327790	Eel River tributary near Columbia City, Ind.	Lat 41°07'01", long 85°31'21", T.31 N., R.9 E., Columbia Township, Whitley County, at culvert on State Highway 205, 3.8 miles southwest of U.S. Highway 30 in Columbia City.	.30	1972-75	08-14-75	6.89	32

## Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
WABASH RIVER BASIN--Continued							
03327930	Koontz Ditch near Sidney, Ind.	Lat 41°07'28", long 85°44'38", in NW <sup>1</sup> SW <sup>4</sup> sec.22, T.31 N., R.7 E., Kosciusko County, at culvert on State Highway 13, 3.5 miles north of State Highway 14.	2.5	1972-75	08-14-75	9.81	450
03328020	Otter Creek tributary near North Manchester, Ind.	Lat 40°59'59", long 85°49'37", in SW <sup>1</sup> SE <sup>1</sup> SW <sup>4</sup> sec.35, T.30 N., R.6 E., Wabash County, at culvert on State Highway 114, 1.7 miles west of State Highway 13.	1.0	1972-75	05-21-75	6.07	96
03329720	Robinson Branch near Delphi, Ind.	Lat 40°37'10", long 86°37'01", in NE <sup>1</sup> SW <sup>1</sup> SW <sup>4</sup> sec.14, T.25 N., R.2 W., Carroll County, at culvert on State Highway 25, 2.0 miles northeast of State Highway 218, 3.9 miles northeast of State Highway 39 in Delphi.	5.49	1972-75	06-14-75	7.59	390
03330290	Shanton Ditch near Pierceton, Ind.	Lat 41°12'45", long 85°41'10", in NW <sup>1</sup> NE <sup>1</sup> SW <sup>4</sup> sec.22, T.32 N., R.7 E., Kosciusko County, at culvert on State Highway 13, 0.6 mile north of U.S. Highway 30.	1.0	1972-75	05-21-75	5.50	11
03331376	McMahan Ditch near Rochester, Ind.	Lat 41°06'14", long 86°11'18", in NE <sup>1</sup> NE <sup>1</sup> SE <sup>1</sup> sec.28, T.31 N., R.3 E., Fulton County, at culvert on State Highway 25, 3.0 miles north of State Highway 14 in Rochester.	2.0	1972-75	06-23-75	6.51	36
03332340	Weltzin Ditch tributary near Francesville, Ind.	Lat 40°48'00", long 86°46'33", in SW <sup>1</sup> SW <sup>1</sup> SW <sup>4</sup> sec.16, T.29 N., R.3 W., Pulaski County, at culvert on State Highway 39, 6.1 miles south of State Highway 14.	1.0	1973-75	01-10-75	5.14	7
03332780	Big Creek near Wolcott, Ind.	Lat 40°41'26", long 87°02'37", in SE <sup>1</sup> NE <sup>1</sup> NE <sup>1</sup> sec.24, T.26 N., R.6 W., White County, at culvert on U.S. Highway 231, 4.4 miles south of Wolcott.	1.5	1972-75	06-14-75	10.47	215
03333420	Grassy Fork tributary at Point Isabel, Ind.	Lat 40°25'28", long 85°49'28", in NE <sup>1</sup> SE <sup>1</sup> SE <sup>1</sup> sec.22, T.23 N., R.6 E., Grant County, at culvert on State Highway 13, 1,100 ft north of State Highway 26 in Point Isabel.	.30	1973-75	06-14-75	6.27	86
03333620	Scott Youngman Ditch near Kokomo, Ind.	Lat 40°25'10", long 86°04'39", in NW <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.28, T.23 N., R.4 E., Howard County, at culvert on State Highway 26, 2.4 miles west of State Highway 19.	1.0	1973-75	06-14-75	6.78	28
03334200	Prairie Creek tributary near Frankfort, Ind.	Lat 40°15'14", long 86°30'36", in NW <sup>1</sup> SE <sup>1</sup> NE <sup>1</sup> sec.22, T.21 N., R.1 W., Clinton County, at culvert on State Highways 38 and 39, 1.8 miles south of State Highway 28 in Frankfort.	2.00	1972-75	05-22-75	11.16	170
03334900	South Fork Wildcat Creek tributary near Monitor, Ind.	Lat 40°25'13", long 86°46'22", in NE <sup>1</sup> SE <sup>1</sup> SE <sup>1</sup> sec.20, T.23 N., R.3 W., Tippecanoe County, at culvert on State Highway 26, 0.4 mile northwest of Monitor Springs.	.40	1972-75	06-11-75	5.57	26
03335660	Ilgenfritz Ditch near Monroe, Ind.	Lat 40°20'36", long 86°47'49", in NE <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.19, T.22 N., R.3 W., Tippecanoe County, at culvert on U.S. Highway 52, 4.9 miles southeast of State Highway 38.	1.39	1972-75	05-22-75	7.05	130
03335685	Big Pine Creek tributary near Pine Village, Ind.	Lat 40°25'24", long 87°15'52", in SE <sup>1</sup> SW <sup>1</sup> SW <sup>4</sup> sec.19, T.23 N., R.7 W., Warren County, at culvert on State Highway 55, 1.9 miles south of State Highway 26 in Pine Village.	.20	1972-75	08-29-75	6.48	120
03335790	Big Shawnee Creek tributary near Attica, Ind.	Lat 40°16'48", long 87°10'29", in NE <sup>1</sup> SW <sup>1</sup> SE <sup>1</sup> sec.11, T.21 N., R.7 W., Fountain County, at culvert on State Highway 28, 1.4 miles west of State Highway 341 and 4.3 miles east of Attica.	1.00	1973-75	07-05-75	5.66	95
03339230	Woods Ditch near Frankfort, Ind.	Lat 40°13'13", long 86°27'34", in NE <sup>1</sup> NE <sup>1</sup> SW <sup>4</sup> sec.31, T.21 N., R.1 E., Clinton County, at culvert on State Highway 38, 2.2 miles southeast of State Highway 39.	1.50	1972-75	05-22-75	11.13	286
03339250	Waddle Ditch near Pike, Ind.	Lat 40°06'24", long 86°28'48", in NE <sup>1</sup> SE <sup>1</sup> SW <sup>4</sup> sec.12, T.19 N., R.1 W., Boone County, at culvert on State Highway 39, 4.1 miles north of U.S. Highway 52 in Lebanon.	1.10	1972-75	04-24-75	6.88	55
03339400	Sugar Creek tributary near Garfield, Ind.	Lat 40°05'01", long 86°48'13", in SW <sup>1</sup> SE <sup>1</sup> SW <sup>4</sup> sec.18, T.19 N., R.3 W., Montgomery County, at culvert on State Highway 47, 1.1 miles northeast of Garfield.	1.2	1972-75	04-24-75	8.04	170
03341150	Demeree Creek tributary near Byron, Ind.	Lat 39°52'39", long 87°05'56", in NW <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.33, T.17 N., R.6 W., Parke County, at culvert on State Highway 47, 0.5 mile west of Montgomery County Line.	.20	1973-75	04-24-75	6.68	59
03341180	Little Raccoon Creek tributary near Bellmore, Ind.	Lat 39°44'47", long 87°06'19", in NW <sup>1</sup> SW <sup>1</sup> SW <sup>4</sup> sec.17, T.15 N., R.6 W., Parke County, at culvert on State Highway 59, 0.8 mile south of intersection of State Highways 36 and 59.	.50	1975	04-24-75	7.58	75
03341770	Prairie Creek tributary near Pimento, Ind.	Lat 49°18'49", long 87°23'17", in NE <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.15, T.10 N., R.9 W., Vigo County, at culvert on U.S. Highways 41 and 150, 2.8 miles north of State Highway 246.	.50	1974-75	05-25-75	6.40	30

## Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
WABASH RIVER BASIN--Continued							
03342180	Kettle Creek tributary near Shelburn, Ind.	Lat 39°10'36", long 87°22'27", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.9 N., R.9 W., Sullivan County, at culvert on State Highway 48, 1.0 mile east of U.S. Highways 41 and 150.	0.50	1972-75	02-22-75	6.63	66
03346650	River Desheé tributary near Frichton, Ind.	Lat 38°40'33", long 87°25'47", in SW $\frac{1}{4}$ survey 29, Vincennes tract, Palmyra Township, Knox County, at culvert on new U.S. Highways 50 and 150, 0.5 mile southwest of Frichton.	1.2	1973-75	03-12-75	8.07	115
03346840	White River tributary at Parker City, Ind.	Lat 40°11'35", long 85°11'34", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.20 N., R.12 E., Randolph County, at culvert on State Highway 32, 3.3 miles west of intersection of State Highways 1 and 32 in farmland.	.60	1972-75	02-23-75	5.64	12
03346865	Mud Creek tributary	Lat 40°11'37", long 85°15'26", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ at culvert on State Highway 32, 0.25 mile east of County Road 650 East in Selma.	.10	1973-75	02-23-75	5.40	5
03348700	White River tributary near Strawtown, Ind.	Lat 40°06'47", long 85°57'10", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.19 N., R.5 E., Hamilton County, at culvert on State Highway 37, 0.9 mile south of intersection of State Highway 37 and Strawtown Avenue in Strawtown.	.89	1973-75	02-23-75	6.68	18
03349400	Buscher Ditch near Atlanta, Ind.	Lat 40°13'26", long 86°02'30", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.21 N., R.4 E., Tipton County, at culvert on State Highway 19, 0.5 mile northwest of the Hamilton-Tipton County Line.	2.50	1972-75	02-23-75	6.76	100
03350650	Stony Creek tributary near Lapel, Ind.	Lat 40°95'22", long 85°49'22", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.19 N., R.6 E., Madison County, at culvert on State Highway 32, 2.0 miles northeast of State Highways 13 and 32 in Lapel.	.60	1973-75	02-24-75	5.29	47
03352400	Blue Creek near Castleton, Ind.	Lat 39°53'23", long 86°02'46", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.17 N., R.4 E., Marion County, at culvert on State Highway 100, 0.1 mile south of 75th Street, 1.2 miles south of Castleton.	.95	1972-75	02-22-75	6.53	52
03353668	White Lick Creek tributary near Brownsburg, Ind.	Lat 39°53'54", long 86°23'34", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.17 N., R.1 E., Hendricks County, at culvert on State Highway 267, 4.0 miles north of U.S. Highway 136 in Brownsburg.	.20	1972-75	07-18-75	5.62	42
03354250	Sator Ditch tributary near Martinsville, Ind.	Lat 39°25'20", long 86°23'59", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.11 N., R.1 E., Morgan County, at culvert on State Highway 37, 0.3 mile southwest of State Highway 252.	.40	1975	02-23-75	10.72	20
03355000	Bear Creek near Trevlac, Ind.	Lat 39°16'40", long 86°20'45", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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.	6.94	1953-75	02-23-75	6.90	1,400
03356780	Limestone Creek tributary near Gosport, Ind.	Lat 39°21'12", long 86°40'58", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.11 N., R.2 W., Owen County, at culvert on State Highway 67, 0.9 mile west of Gosport.	.80	1972-75	04-24-75	5.83	76
03357010	White River tributary near Spencer, Ind.	Lat 39°16'09", long 86°46'45", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.30, T.9 N., R.4 W., Owen County, at culvert on State Highway 67 and U.S. Highway 231, 1.3 miles southwest of State Highway 46 in Spencer.	.20	1973-75	04-24-75	6.16	54
03357430	Owl Creek tributary near Bainbridge, Ind.	Lat 39°45'46", long 86°52'53", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.15 N., R.4 W., Putnam County, at culvert on U.S. Highway 36, 3.7 miles west of Bainbridge.	.70	1973-75	06-01-75	8.81	330
03360100	Clear Branch at Cory, Ind.	Lat 39°23'20", long 87°11'58", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.11 N., R.7 W., Clay County, at culvert on State Highway 46, 4.9 miles west of State Highway 59.	.60	1973-75	02-22-75	6.32	33
03360400	Doans Creek tributary near Doans, Ind.	Lat 38°55'12", long 86°50'54", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.6 N., R.4 W., Greene County, at culvert on State Highway 58 at Doans.	.25	1973-75	02-22-75	7.58	91
03360750	Miller Ditch tributary near Bicknell, Ind.	Lat 38°47'08", long 87°18'36", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.16, T.4 N., R.8 W., Knox County, at culvert on State Highway 159, 0.4 mile north of State Highway 67 in Bicknell.	.60	1973-75	03-11-75	5.51	41
03360850	Veales Creek tributary at Washington, Ind.	Lat 38°37'16", long 87°11'00", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.2 N., R.7 W., Daviess County, at culvert on State Highway 57, 2.3 miles south of U.S. Highway 50 in Washington.	.25	1973-75	07-19-75	7.15	128
03360970	Buck Creek tributary at Dunreith, Ind.	Lat 39°48'15", long 85°26'34", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.16 N., R.10 E., Henry County, at culvert on State Highway 3 at northwest edge of Dunreith.	1.50	1973-75	02-23-75	5.89	31
03361600	Little Sugar Creek tributary at Carrollton, Ind.	Lat 39°42'22", long 85°49'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.15 N., R.6 E., Hancock County, at culvert on U.S. Highway 52, 3.4 miles southeast of New Palestine.	.80	1973-75	02-23-75	6.01	73

## Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
WABASH RIVER BASIN--Continued							
03361890	Gilmore Creek near Bargserville, Ind.	Lat 39°30'44", long 86°08'26", in NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.1, T.12 N., R.3 E., Johnson County, at culvert on State Highway 144, 1.0 mile southeast of State Highway 135 east of Bargserville.	1.0	1973-75	02-23-75	7.04	89
03363050	Wolf Creek tributary near Columbus, Ind.	Lat 39°11'58", long 85°58'34", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.21, T.9 N., R.5 E., Bartholomew County, at culvert on State Highway 46, 2.6 miles west of U.S. Highway 31A and 1.0 mile west of Interstate Highway 65.	1.20	1974-75	09-01-74a 02-23-75	8.93 7.70	300 180
03363600	Goddard Ditch tributary near Rushville, Ind.	Lat 39°35'22", long 85°31'51", in NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.9, T.13 N., R.9 E., Rush County, at culvert on State Highway 44, 4.3 miles west of Rushville.	.50	1973-75	02-23-75	8.54	45
03364100	Tough Creek near Norristown, Ind.	Lat 39°22'19", long 85°45'38", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.28, T.11 N., R.7 E., Shelby County, at culvert 0.5 mile north of Norristown.	1.50	1973-75	02-23-75	8.29	155
03364570	Fall Fork Clifty Creek tributary near Horace, Ind.	?at 39°16'01", long 85°34'30", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.31, T.10 N., R.9 E., Decatur County, at culvert on State Highway 3, 2.8 miles south of State Highway 46, 0.4 mile north of Horace.	1.00	1973-75	02-23-75	8.00	125
03366400	Lewis Creek tributary near Kent, Ind.	Lat 38°44'13", long 85°34'39", in NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.2, T.3 N., R.8 E., Jefferson County, on State Highway 256, 2.8 miles west of Kent.	.20	1973-75	04-24-75	6.65	84
03367600	Flat Creek tributary at New Frankfort, Ind.	Lat 38°44'18", long 85°42'50", in NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.35, T.4 N., R.7 E., Scott County, at culvert on State Highway 256, 0.2 mile northwest of State Highway 203.	.30	1973-75	04-24-75	6.11	70
03369700	Sixmile Creek tributary near North Vernon, Ind.	Lat 39°01'55", long 85°38'24", in NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.21, T.7 N., R.8 E., Jennings County, at culvert on State Highway 3, 1.2 miles north of State Highway 7 in North Vernon.	.50	1973-75	02-23-75	7.08	29
03370100	Blau Ditch tributary near Crothersville, Ind.	Lat 38°48'17", long 85°50'25", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.10, T.4 N., R.6 E., Jackson County, at culvert on U.S. Highway 31, 1.4 miles north of Crothersville.	.15	1973-75	02-23-75	6.36	21
03371630	North Fork Salt Creek tributary near Nashville, Ind.	Lat 39°11'38", long 86°12'11", in NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.28, T.9 N., R.3 E., Brown County, at culvert on State Highway 46, 2.6 miles east of State Highway 135 in Nashville.	.36	1973-75	02-23-75	6.94	30
03372680	Clear Creek tributary near Bloomington, Ind.	Lat 39°04'24", long 86°32'39", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.5, T.7 N., R.1 W., Monroe County, at culvert on State Highway 37, 5.5 miles south of Bloomington.	.40	1972-75	06-11-75	6.84	65
03373240	Spring Creek tributary near Springville, Ind.	Lat 38°54'41", long 86°39'09", in SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.32, T.6 N., R.2 W., Lawrence County, at culvert on State Highway 58, 6.6 miles northwest of State Highway 37 in Oolitic.	.40	1972-75	02-22-75	7.82	162
03373680	French Lick Creek tributary near French Lick, Ind.	Lat 38°30'08", long 86°36'20", in SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.23, T.1 N., R.2 W., Orange County, at culvert on State Highway 145, 4.3 miles south of intersection of State Highways 145 and 56 in French Lick.	.30	1973-75	04-24-75	6.59	31
03373850	Slate Creek tributary near Haysville, Ind.	Lat 38°33'30", long 86°54'10", in NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.31, T.2 N., R.4 W., Martin County, at culvert on U.S. Highway 231, 5.5 miles north of intersection of U.S. Highway 231 and State Highway 56, in Haysville or 8.0 miles south of intersection of U.S. Highways 231, 150, and 50 in Loogootee.	.20	1973-75	04-24-75	7.29	112
03374495	Ritter Creek tributary near Wickliffe, Ind.	Lat 38°21'58", long 86°39'48", in SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.6, T.25 N., R.2 W., Crawford County, at culvert on State Highway 164, 2.5 miles west of State Highway 145.	.25	1973-75	04-24-75	9.01	121
03376230	Shiloh Drain near Jasper, Ind.	Lat 38°24'26", long 86°58'47", in NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.28, T.15 N., R.5 W., Dubois County, at culvert on State Highway 56, at Ireland, 2.8 miles northwest of Jasper.	.60	1973-75	04-24-75	9.26	216
03376340	Patoka River tributary near Glezen, Ind.	Lat 38°23'41", long 87°19'05", in NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.29, T.1 S., R.8 W., Pike County, at culvert on State Highway 57, 7.9 miles south of intersection of State Highways 61, 56, and 57 in Petersburg.	1.00	1973-75	04-24-75	7.80	163
03376600	Patoka River tributary near Patoka, Ind.	Lat 38°23'08", long 87°35'21", in SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.36, T.15 N., R.11 W., Gibson County, at culvert on old U.S. Highway 41, 1.2 miles south of Patoka River at Patoka.	.40	1973-75	04-24-75	9.45	155
03378570	Little Creek tributary near Kasson, Ind.	Lat 38°01'55", long 87°40'52", in NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.6, T.6 S., R.11 W., Vanderburgh County, at culvert on State Highway 66 and U.S. Highway 460, 2.8 miles northwest of Kasson.	.40	1973-75	04-24-75	11.80	269
03378590	Olive Creek tributary near Solitude, Ind.	Lat 38°00'14", long 87°53'57", in NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.17, T.6 S., R.13 W., Posey County, at culvert on State Highway 69, 0.65 mile south of Solitude.	.31	1973-75	08-03-75	9.35	175



## Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
STREAMS TRIBUTARY TO LAKE MICHIGAN							
04095250	East Branch Trail Creek tributary near Springfield, Ind.	Lat 41°41'22", long 86°46'42", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.37 N., R.3 W., LaPorte County, at culvert on U.S. Highway 20, 1.4 miles east of U.S. Highway 35.	0.25	1972-75	06-03-75	5.84	17
04099060	Pigeon Creek tributary near Ellis, Ind.	Lat 41°37'43", long 84°54'56", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.37 N., R.14 E., Steuben County, at culvert on State Highway 1, 0.25 mile south of U.S. Highway 20.	1.00	1972-75	05-30-75	7.01	32
04099745	Truesdale Ditch near Shipshewana, Ind.	Lat 41°43'36", long 85°35'38", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.38 N., R.8 E., LaGrange County, at culvert on State Highway 120, 0.6 mile west of State Highway 5.	3.5	1972-75	04-19-75	5.57	10
04100165	Wible Lake inlet near Kendallville, Ind.	Lat 41°29'15", long 85°16'13", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.35 N., R.11 E., Noble County, at culvert on State Highway 3, 1.9 miles north of U.S. Highway 6 in Kendallville.	2.0	1972-75	01-10-75	6.16	17
04100700	Christophel Ditch tributary near Wakarusa, Ind.	Lat 41°30'24", long 86°00'07", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.35 N., R.5 E., Elkhart County, at culvert on State Highway 19, 0.1 mile south of State Highway 119, 2.1 miles south of Wakarusa.	2.5	1972-75	06-15-75	7.85	46
MAUMEE RIVER BASIN							
04179510	Cecil Metcalf Ditch near Auburn, Ind.	Lat 41°21'55", long 85°01'07", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.34 N., R.13 E., DeKalb County, at culvert on State Highway 8, 2.0 miles east of State Highway 427 in Auburn.	.81	1972-75	02-23-75	6.40	30
04183050	Schumacher Ditch near New Haven, Ind.	Lat 41°03'30", long 84°58'31", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.30 N., R.15 E., at culvert on State Highway 14, 0.5 mile west of State Highway 101.	1.01	1972-75	02-23-75	6.05	10
04191310	Flatrock Creek tributary near Monroeville, Ind.	Lat 40°53'42", long 84°51'42", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.28 N., R.15 E., Adams County, at culvert on State Highway 101, 1.8 miles south of Adams-Allen County Line.	.91	1972-75	06-14-75	5.73	14
ILLINOIS RIVER BASIN							
05515215	Potato Creek tributary near North Liberty, Ind.	Lat 41°32'06", long 86°19'03", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.36 N., R.2 E., St. Joseph County, at culvert on State Highway 4, 2.4 miles west of U.S. Highway 31.	.10	1972-75	04-28-75	10.29	10
05515216	Potato Creek tributary near Lakeville, Ind.	Lat 41°32'06", long 86°20'16", on line between secs.30 and 31, T.36 N., R.2 E., St. Joseph County, at culvert on State Highway 4, 3.4 miles west of U.S. Highway 31.	5.0	1975	08-13-75	7.85	350
05516150	Walt Kimble Ditch near LaPaz, Ind.	Lat 41°26'59", long 86°14'16", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.35 N., R.2 E., Marshall County, at culvert on U.S. Highway 6, 3.8 miles east of U.S. Highway 31.	2.0	1972-75	04-28-75	6.96	47
05517400	West Arm Payne Ditch near North Judson, Ind.	Lat 41°12'55", long 86°52'13", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.16, T.32 N., R.4 W., Starke County, at bridge on State Highway 10, 1.3 miles east of U.S. Highway 421.	3.0	1973-75	06-14-75	5.56	39
05517780	Sievers Creek tributary near Valparaiso, Ind.	Lat 41°24'41", long 87°08'08", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.34 N., R.6 W., Porter County, at culvert on State Highway 2, 5.7 miles southwest of Valparaiso.	.50	1972-75	04-28-75	5.95	23
05518600	Bryant Ditch near Dinwiddie, Ind.	Lat 41°17'22", long 87°18'45", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.33 N., R.8 W., Lake County, at bridge on State Highway 2, 0.6 mile west of Interstate Highway 65.	4.0	1972-75	06-25-75	6.31	190
05524300	Yeoman Ditch tributary near Rensselaer, Ind.	Lat 40°56'27", long 87°14'10", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.21, T.29 N., R.7 W., Jasper County, at culvert on State Highway 114, 4.5 miles west of U.S. Highway 231 in Rensselaer.	.75	1972-75	06-14-75	8.39	150
05524650	Clark Ditch tributary near Morocco, Ind.	Lat 40°54'16", long 87°26'04", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.28 N., R.9 W., Newton County, at culvert on U.S. Highway 41, 2.5 miles south of State Highway 114.	1.00	1972-75	06-14-75	9.62	205
05524700	Talley Ditch near Kentland, Ind.	Lat 40°46'02", long 87°24'31", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.27 N., R.9 W., Newton County, at culvert on U.S. Highway 24, 1.6 miles east of U.S. Highways 41 and 52.	4.00	1972-75	06-14-75	10.51	700
05525400	Gretencord Ditch near Free, Ind.	Lat 40°37'08", long 87°26'44", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.25 N., R.9 W., Benton County, at culvert on State Highway 18, 2.4 miles east of State Highway 71.	1.00	1972-75	06-14-75	7.97	76

a 1974 Water Year.



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum stage and discharge at high-flow, low-flow partial-record stations  
during Water Year 1975

Station No.	Station name	Date	Gage Height (feet)	Discharge (ft <sup>3</sup> /s)
03277000	Laughery Creek near Farmers Retreat, Ind.	02-23-75	11.86	11,000
03302730	South Fork Blue River near Palmyra, Ind.	04-24-75	21.90	8,300
03303050	Bird Hollow Creek at English, Ind.	04-24-75	16.10	5,520
03323150	Rock Creek near Rockford, Ind.	02-23-75	15.89	1,600
03324050	Clear Creek near Huntington, Ind.	--	a	--
03332300	Little Indian Creek near Royal Center, Ind.	06-15-75	6.09	305
03332400	Big Monon Creek near Francesville, Ind.	02-23-75	9.66	910
03334000	Wildcat Creek at Owasco, Ind.	05-22-75	8.85	4,420
03355000	Bear Creek near Trevlac, Ind.	02-23-75	6.90	1,400
03360600	Smothers Creek near Plainville, Ind.	02-22-75	16.08	1,350
03363450	Little Flatrock River at Milroy, Ind.	02-23-75	12.90	1,800b
03366000	Graham Creek near Vernon, Ind.	02-24-75	12.12	5,310
03372670	Jackson Creek near Bloomington, Ind.	02-23-75	4.63	990
03373200	Indian Creek near Springville, Ind.	02-23-75	11.68	5,300
03378450	Black River near Poseyville, Ind.	04-24-75	16.48	4,800
04100800	Yellow Creek at Dunlap, Ind.	06-15-75	11.38	40b
04179500	Cedar Creek at Auburn, Ind.	02-23-75	7.11	700
05516000	Yellow River near Bremen, Ind.	02-24-75	10.80	966
05516950	Eagle Creek near Grovertown, Ind.	--	a	--

a Peak did not reach bottom of gage.

b Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES  
Measurements at miscellaneous sites

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Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table

Discharge measurements made at miscellaneous sites during water year 1975  
(and some made in 1974 water year)

Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Date	Measurements (ft <sup>3</sup> /s)
OHIO RIVER BASIN						
South Fork Smalls Creek	Smalls Creek	Lat 38°44'31", long 87°25'23", in Donation 73, T.4 N., R.9 W., Knox County, at bridge on old mining road, 0.2 mile upstream from small left-bank tributary, and 1.2 miles south of Bruceville.			08-22-74	0.78
South Fork Smalls Creek tributary	South Fork Smalls Creek	Lat 38°44'21", long 87°25'23", in Donation 73, T.4 N., R.9 W., Knox County, at old mining dam, 0.3 mile above mouth, and 1.4 miles south of Bruceville.		1972, 1973	08-22-74 09-12-74 09-26-74 10-01-74 10-09-74 10-18-74 10-26-74 10-30-74 11-06-74 11-20-74 12-05-74 12-10-74 12-23-74 01-08-75 01-16-75 01-30-75 02-20-75 02-28-75 03-12-75 03-18-75 04-03-75 04-17-75 04-22-75 05-08-75 05-14-75 06-19-75 06-24-75	.26 .85 .06 .13 .09 .15 .11 .24 1.37 .38 .45 .65 .41 10.8 .69 .74 .46 .95 4.52 6.47 1.35 .15 .14 .50 .07 .32 .04
White River cutoff	Williams Creek	Lat 39°53'10", long 86°08'23", in SE¼SW¼ sec. 25, T.17 N., R.3 E., Marion County, at bridge on Westfield Boulevard, 700 ft upstream from mouth, and in Indianapolis.		1958	02-24-75 02-25-75 02-25-75	4,700 5,600 6,000
Williams Creek	White River	Lat 39°53'25", long 86°08'40", in W¼ sec. 25, Marion County, at bridge on East 75th Street, 0.1 mile east of College Avenue, and in Indianapolis.		1961	02-24-75	142
White River	Wabash River	Lat 39°52'46", long 86°08'45", on line between secs. 35 and 36, T.17 N., R.3 E., Marion County, at bridge on College Avenue, 0.2 mile downstream from Williams Creek, and in Indianapolis.	1,261		02-24-75 02-25-75	11,800 14,300
Drexel Run	Mars ditch	Lat 39°44'00", long 86°15'38", in NE¼NW¼ sec. 24, T.15 N., R.2 E., Marion County, at culvert on Production Street, 1,000 ft downstream from Interstate Highway 465, 0.5 mile east of Weir Cook Municipal Airport, and in Indianapolis.	.47		06-25-75	290
STREAMS TRIBUTARY TO LAKE MICHIGAN						
Rowe-Eden ditch	Little Elkhart River	Lat 41°39'14", long 85°40'41", in SE¼SE¼ sec. 14, T.37 N., R.7 E., Elkhart County, at bridge on U.S. Highway 20, 0.4 mile upstream from mouth, and 2.0 miles southeast of Middlebury.	30.1	1973	07-09-75	19.7

## DISCONTINUED GAGING-STATION RECORDS

The following table lists all discontinued stream-gaging stations in Indiana. Continuous daily streamflow records were collected and published for the period of record shown for each station.

Station no.	Station name	County	Drainage area (mi <sup>2</sup> )	Period of Record
OHIO RIVER BASIN				
03277000	Laughery Creek near Farmers Retreat	Ohio	248	1940-73 <sup>a</sup>
03304000	Little Pigeon Creek near Tennyson	Warrick	187	1943-47
03323000	Wabash River at Bluffton	Wells	532	1930-71 <sup>c</sup>
03326000	Mississinewa River near Eaton	Delaware	310	1952-71 <sup>c</sup>
03329500	Wabash River at Delphi	Carroll	4,072	1939-71
03331000	Tippecanoe River near Warsaw	Kosciusko	126	1943-49
03332000	Tippecanoe River at Pulaski	Pulaski	1,089	1928-31
03332300	Little Indian Creek near Royal Center	White	35.0	1959-73 <sup>a</sup>
03332400	Big Monon Creek near Francesville	Pulaski	152	1959-73 <sup>a</sup>
03333500	Wildcat Creek at Greentown	Howard	168	1944-61
03334000	Wildcat Creek at Owasco	Carroll	396	1943-73 <sup>a</sup>
03339120	Coal Creek at Coal Creek	Fountain	214	1964-72
03339150	Little Vermillion River near Newport	Vermillion	237	1964-72
03340000	Sugar Creek near Byron	Parke	670	1940-71 <sup>c</sup>
03341000	Big Raccoon Creek at Mansfield	Parke	248	1939-58 <sup>b</sup>
03341200	Little Raccoon Creek near Catlin	Parke	134	1956-71 <sup>b,d</sup>
03341420	Brouillets Creek near Universal	Vermillion	321	1966-71 <sup>c</sup>
03342350	Buttermilk Creek near Paxton	Sullivan	16.5	1966-73
03348100	Killbuck Creek near Anderson	Madison	97.8	1964-68
03348500	White River near Noblesville	Hamilton	828	1915-26 1928-74 <sup>c</sup>
03350000	Cicero Creek near Cicero	Hamilton	196	1946-54
03352000	Lawrence Creek at Fort Benjamin Harrison	Marion	2.74	1952-56, 1957-69
03355000	Bear Creek near Trevlac	Brown	6.94	1952-73 <sup>a</sup>
03356500	Bean Blossom Creek near Bloomington	Monroe	112	1931-32
03366000	Graham Creek near Vernon	Jennings	77.2	1955-73 <sup>a</sup>
03357000	White River at Spencer	Owen	2,988	1925-71 <sup>b</sup>
03359500	Deer Creek near Putnamville	Putnam	59.0	1954-65, 1967-72
03367000	Muscatatuck River near Austin	Jackson	359	1932-43
03367500	Stucker Creek near Austin	Scott	127	1932
03370000	Vernon Fork near Crothersville	Jackson	391	1932
03370500	Muscatatuck River near Tampico	Washington	960	1939
03371000	Muscatatuck River near Vallonia	Jackson	1,134	1932
03371600	South Fork Salt Creek at Kurtz	Jackson	38.2	1960-71 <sup>b</sup>
03372000	North Fork Salt Creek near Belmont	Brown	120	1946-71
03372700	Clear Creek near Harrodsburg	Monroe	55.2	1960-71
03373000	Salt Creek near Peerless	Lawrence	573	1939-50, 1957-71 <sup>b</sup>
03373200	Indian Creek near Springville	Lawrence	60.7	1961-73 <sup>a</sup>
03376000	Patoka River near Jasper	Dubois	348	1943-47 <sup>d</sup>
03376300	Patoka River at Winslow	Pike	603	1963-74
STREAMS TRIBUTARY TO LAKE MICHIGAN				
04093200	Little Calumet River at Gary	Lake	5.82	1958-67, 1968-71
04098000	Fawn River at Orland	Steuben	86.4	1943-47
04099500	Pigeon Creek and Hogback Lake near Angola	Steuben	103	1945-74
04100000	Christiana Creek at Elkhart	Elkhart	127	1947-52
04100220	North Branch Elkhart River near Cosperville	Noble	134	1950-71
STREAMS TRIBUTARY TO LAKE ERIE				
04178500	St. Joseph River at Hursh	Allen	734	1950-54
04179500	Cedar Creek near Auburn	DeKalb	87.3	1943-73 <sup>a</sup>
04180500	St. Joseph River near Ft. Wayne	Allen	1,057	1905-06 1941-55
04182700	St. Marys River at Ft. Wayne	Allen	810	1905-06
UPPER MISSISSIPPI RIVER BASIN				
05516000	Yellow River near Bremen	Marshall	135	1955-73 <sup>a</sup>
05518500	Singleton ditch near Hebron	Lake	34.2	1949-51
05519500	West Creek near Schneider	Lake	54.7	1948-51, 1954-72
05521500	Oliver ditch near Aix	Jasper	79.6	1948-51

<sup>a</sup>Continued as a crest-stage and low-flow partial-record station.

<sup>b</sup>Continued as a stage only station.

<sup>c</sup>Some quality of water data available.

<sup>d</sup>Some record fragmentary.

For many years records of the water-surface elevations of many of the lakes in Indiana have been collected by the Geological Survey under cooperative agreement with the Indiana Department of Natural Resources. Basic data for a few selected lakes have been published in WSP 1363, entitled "Hydrology of Indiana Lakes." Records which have not been published are available in the files of the District Office of the Geological Survey in Indianapolis, Indiana. In general, the records are based on once-daily readings of a staff gage by a local observer and consist of daily, monthly, and yearly mean water-surface elevations as well as graphs showing the fluctuation in elevation. Discharge measurements, made at the outflow, are also available in some instances.

The lakes for which records have been collected are listed by downstream order number in the following table. The established level, sometimes referred to as the legal level, is that elevation set by the courts to which the average level of the lake is to be held; it is normally set at about the average level that has prevailed for a number of years prior to the establishment of the level. Surface area and capacity of lake is that surface area and capacity at the established level. Depth contour maps are only those surveyed by the Lake Section of Water Resources Division of the Geological Survey.

## Lakes in the Ohio River basin for which records are available

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Estab- lished Levelxx	Capacity (acre- feet)	Depth Contour Map available	Records available
LAUGHERY CREEK BASIN							
03-2768.00 Versailles Lake near Versailles	Ripley	168.0	232	-	-	-	1957-75
BAYOU DRAIN BASIN							
03-3223.00 Hovey Lake near Mount Vernon	Posey	6.36	253	-	-	-	1950-69
WABASH RIVER BASIN							
03-3275.50 Everett Lake at Levert	Allen	1.07	43	835.13	650	+	1946-66
03-3276.00 Blue Lake near Churubusco	Whitley	3.58	239	850.28	5,010	+	1946-69
03-3276.50 Shriner Lake at Tri-Lakes	Whitley	.94	111	907.04	-	-	1943-75
03-3277.00 Cedar Lake at Tri-Lakes	Whitley	.79	131	901.90	-	-	1943-49
03-3277.50 Round Lake at Tri-Lakes	Whitley	3.36	125	901.90	-	-	1943-53
03-3278.00 Wilson Lake near Larwill	Whitley	.46	29	865.39	390	+	1946-52
03-3278.50 Little Wilson Lake near Larwill	Whitley	.52	8	865.39	130	+	1946-52
03-3281.00 Long Lake at Laketon	Wabash	.55	48	751.19	760	+	1946-51
							1959-75
03-3282.50 North Little Lake at Silver Lake	Kosciusko	2.89	12	861.73	170	+	1947-75
03-3283.50 Silver Lake at Silver Lake	Kosciusko	6.31	102	861.73	1,520	+	1947-75
03-3284.00 Lukens Lake near Disko	Wabash	1.76	46	-	1,010	+	1948-49
							1959-75
03-3300.20 Crooked Lake near Wolf Lake	Noble	1.51	206	905.69	9,040	+	1943-53
03-3300.40 Big Lake near Wolf Lake	Noble	8.89	228	898.18	5,630	+	1943-75
03-3300.60 Goose Lake near Lorane	Whitley	1.51	84	910.96	2,180	+	1945-53
03-3300.80 Loon Lake at Ormas	Whitley	11.1	222	895.14	5,730	+	1943-66
03-3301.00 New Lake near Etna	Whitley	.29	50	903.91	880	+	1945-53
03-3301.20 Old Lake near Etna	Whitley	2.81	32	898.07	620	+	1949-66
03-3301.40 Smalley Lake near Washington Center	Noble	27.1	69	-	1,520	+	1943-75
03-3301.60 Gilbert Lake near Washington Center	Noble	.37	28	-	490	+	1954-75
03-3301.80 Horseshoe Lake nr Washington Center	Noble	1.62	18	901.80	250	+	1945-66
03-3302.00 Baugher Lake near Washington Center	Noble	31.0	32	878.52	390	+	1945-51
03-3302.20 Wilmot Pond at Wilmot a	Noble	35.2	10	-	-	-	1945-51
03-3302.40 Webster Lake at North Webster	Kosciusko	49.2	774	852.75	-	-	1943-75
03-3302.43 James Lake at Oswego	Kosciusko	55.9	282	836.40	7,580	+	1943-75
03-3302.60 Robinson Lake near Pierceton	Kosciusko	7.15	59	851.09	1,170	+	1946-51
03-3302.80 Troy Cedar Lake near Lorane	Whitley	5.33	93	905.41	2,540	+	1945-52
03-3303.00 Ridinger Lake near Pierceton	Kosciusko	34.6	136	843.12	2,900	+	1943-75
03-3303.20 Kuhn Lake near North Webster	Kosciusko	3.85	137	837.50	1,290	+	1945-75
03-3303.40 Big Barbee Lake near North Webster	Kosciusko	44.7	304	837.50	5,640	+	1945-75
03-3303.60 Little Barbee Lake nr North Webster	Kosciusko	49.0	74	837.50	960	+	1945-75
03-3303.80 Shoe Lake near Oswego	Kosciusko	.34	40	841.57	-	-	1946-53
							1972-74
03-3304.00 Banning Lake near North Webster	Kosciusko	.48	12	837.50	110	+	1945-75
03-3304.20 Irish Lake near North Webster	Kosciusko	50.9	182	837.50	2,330	+	1945-75
03-3304.40 Sechrist Lake near North Webster	Kosciusko	.58	105	837.50	2,490	+	1945-75
03-3304.60 Sawmill Lake near North Webster	Kosciusko	51.8	36	837.50	370	+	1945-75
03-3304.80 Tippecanoe Lake at Oswego	Kosciusko	113	768	836.40	28,380	+	1943-75
03-3304.95 Oswego Lake at Oswego	Kosciusko	113	83	836.40	780	+	1943-75
03-3310.10 Big Chapman Lake near Warsaw b	Kosciusko	4.17	581	827.75	6,080	+	1945-72
03-3310.20 Little Chapman Lake near Warsaw	Kosciusko	7.13	177	827.75	1,990	+	1945-72
03-3310.40 Pike Lake at Warsaw	Kosciusko	41.5	203	805.64	2,830	+	1954-75
03-3310.60 Fish Lake near Warsaw	Kosciusko	4.93	15	845.52	-	-	1951-66
03-3310.80 Muskelonge Lake near Warsaw	Kosciusko	11.8	32	842.67	300	+	1943-53
							1959-71
03-3311.00 Carr Lake near Claypool	Kosciusko	2.27	79	848.88	1,340	+	1947-53
03-3311.20 Sherburn Lake near Pierceton c	Kosciusko	5.51	15	881.00	230	+	1954-75
03-3311.40 Winona Lake at Warsaw	Kosciusko	32.1	562	811.06	16,680	+	1943-75
03-3311.60 Center Lake at Warsaw	Kosciusko	.73	120	803.86	2,060	+	1945-75
03-3311.80 Palestine Lake at Palestine	Kosciusko	32.4	290	-	1,170	+	1954-75
03-3312.00 Crystal Lake near Atwood	Kosciusko	.45	76	789.69	930	+	1945-51
03-3312.20 Hoffman Lake at Atwood	Kosciusko	8.07	180	785.85	3,160	+	1945-53
03-3312.40 Beaver Dam Lake near Silver Lake	Kosciusko	2.83	146	868.95	3,280	+	1947-53
03-3312.60 Loon Lake near Silver Lake	Kosciusko	3.59	40	865.74	670	+	1947-53
03-3312.80 McClures Lake near Silver Lake	Kosciusko	1.29	32	865.85	410	+	1945-52

## Lakes in the Ohio River basin for which records are available--Continued

		Drainage Area (square mile)	Surface Area (acres)	Estab- lished Levelxx	Capacity (acre- feet)	Depth Contour Map available	Records available	
Lake	County							
WABASH RIVER BASIN--Continued								
03-3313.00	Hill Lake near Silver Lake	Kosciusko	0.85	67	871.50	1,300	+	1952-75
03-3313.20	Diamond Lake near Silver Lake	Kosciusko	3.92	79	-	1,280	+	1954-75
03-3313.40	Yellow Creek Lake near Silver Lake	Kosciusko	11.1	151	860.50	4,730	+	1945-53
03-3313.60	Rock Lake near Akron	Kosciusko	2.74	56	847.29	360	+	1946-66
03-3313.70	Town Lake near Akron	Fulton	2.77	23	-	220	+	1949-50
03-3313.80	Lake Manitou at Rochester	Fulton	44.2	631	778.41	-	-	1943-75
03-3313.90	Zink Lake near Rochester	Fulton	1.11	19	810.68	-	-	1952-55
03-3314.00	Nyona Lake near Greenoak	Fulton	7.59	104	793.91	1,340	+	1946-75
03-3314.20	South Mud Lake near Fulton	Fulton	4.53	94	793.42	1,020	+	1946-66
03-3314.38	King Lake near Delong	Fulton	1.98	18	-	180	+	1971-75
03-3314.40	Maxinkuckee Lake at Culver	Marshall	13.7	1,864	733.12	45,600	+	1943-75
03-3314.60	Lost Lake near Culver d	Marshall	14.2	40	732.00	-	-	1954-75
03-3314.80	Langenbaum Lake near Monterey	Starke	.72	48	717.96	260	+	1954-66
03-3317.00	Bruce Lake at Bruce Lake	Pulaski	6.38	245	723.69	1,790	+	1943-53
03-3322.00	Fletcher Lake at Fletcher	Fulton	.67	45	783.20	880	+	1946-53
03-3709.00	Starve Hollow Lake near Vallonia	Jackson	6.67	145	-	980	+	1946-61 1963-71
03-3717.00	Ogle Lake near Nashville	Brown	1.03	20	-	250	+	1954-75

## Lakes in the St. Lawrence River basin for which records are available

## STREAMS TRIBUTARY TO LAKE MICHIGAN

04-0925.00	Wolf Lake at Hammond j	Lake	5.72	999	-	-	-	1946-49
04-0929.90	Lake George at Hobart	Lake	124	282	602.23	-	-	1946-75
04-0975.20	Lake Pleasant near Nevada Mills	Steuben	3.18	424	-	3,490	+	1954-71
04-0975.50	Lake George at Jamestown	Steuben	h14.7	488	985.28	-	-	1946-75
04-0975.96	Marsh Lake near Fremont	Steuben	14.9	-	-	-	-	1967-69
04-0976.00	Little Otter Lake near Fremont	Steuben	15.7	34	965.18	740	+	1946-53
04-0976.40	Big Otter Lake near Fremont	Steuben	21.3	69	965.18	1,780	+	1946-53
04-0976.50	Snow Lake at Lake James	Steuben	h40.2	310	964.96	7,998	+	1943-49
04-0976.60	Lake James at Lake James	Steuben	h47.8	1,034	964.96	33,585	+	1943-49
04-0976.80	Jimmerson Lake at Nevada Mills e	Steuben	h51.6	*434	964.66	4,394	+	1946-75
04-0977.80	Loon Lake near Angola	Steuben	2.13	138	1,011.98	630	+	1954-66
04-0978.50	Crooked Lake at Crooked Lake	Steuben	10.4	733	988.17	-	-	1946-75
04-0979.50	Lake Gage at Panama	Steuben	h17.3	324	954.25	-	-	1946-75
04-0979.60	Lime Lake at Panama	Steuben	h17.5	44	954.25	-	-	1946-75
04-0981.00	Wall Lake near Orland	Lagrange	1.61	141	942.25	1,640	+	1953-54
04-0981.10	Mud Lake near Orland	Steuben	1.85	25	939.01	-	-	1956-67
04-0983.00	Cedar Lake near Ontario	Lagrange	1.60	120	871.90	1,020	+	1948-51
04-0990.50	Pigeon Lake near Angola	Steuben	h35.2	61	988.24	930	+	1954-63
04-0991.00	Fox Lake near Angola	Steuben	h1.25	142	1,018.83	3,150	+	1946-53
04-0991.90	Pleasant Lake at Pleasant Lake	Steuben	h1.12	53	963.52	1,190	+	1946-66
04-0992.00	Long Lake at Moonlight	Steuben	h67.9	92	-	1,540	+	1946-75
04-0992.50	Bower Lake near Pleasant Lake	Steuben	h84.6	25	948.50	280	+	1946-71
04-0992.60	Golden Lake near Pleasant Lake	Steuben	h88.8	119	948.50	1,810	+	1946-71
04-0994.00	Silver Lake near Angola	Steuben	h3.79	238	959.40	2,540	+	1945-53
04-0994.30	Bass Lake near Angola	Steuben	h.39	61	979.68	450	+	1954-66
04-0994.40	Howard Lake near Angola	Steuben	h3.90	27	977.34	130	+	1954-63
04-0995.00	Hogback Lake near Angola	Steuben	h103	146	948.50	1,450	+	1946-75
04-0995.20	Otter Lake near Flint	Steuben	h6.91	118	934.15	1,960	+	1954-66
04-0995.40	Story Lake near Hudson	Dekalb	3.16	77	942.20	1,020	+	1946 1954-66
04-0995.60	Big Turkey Lake at Stroh	Lagrange	35.8	450	926.61	7,300	+	1945-66
04-0995.75	McClish Lake near Helmer	Lagrange	1.28	35	951.09	1,210	+	1951-74
04-0995.80	Lake of the Woods near Helmer	Lagrange	5.25	136	951.09	5,470	+	1951-74
04-0996.00	Big Long Lake near Stroh	Lagrange	4.77	388	956.21	-	-	1954-75
04-0996.20	Pretty Lake near Stroh	Lagrange	2.89	184	965.50	4,720	+	1949-53 1963-65
04-0996.40	Little Turkey Lake at Elmira	Lagrange	56.5	135	925.72	1,550	+	1945-66
04-0996.60	Royer Lake near Plato	Lagrange	4.69	69	936.50	1,630	+	1952-75
04-0996.70	Fish Lake near Plato	Lagrange	h10.6	100	936.50	4,050	+	1945-75
04-0997.00	North Twin Lake near Howe	Lagrange	1.54	135	843.56	2,120	+	1953-75
04-0997.10	South Twin Lake near Howe	Lagrange	2.22	116	843.56	3,600	+	1953-70
04-0997.40	Shipshewana Lake near Shipshewana	Lagrange	h6.74	202	852.04	1,350	+	1951-75
04-0997.60	Fish Lake near Scott	Lagrange	h6.21	139	814.42	2,560	+	1954-73
04-0997.80	Stone Lake near Scott	Lagrange	1.51	152	818.76	2,060	+	1954-73
04-0998.00	Emma Lake near Emma	Lagrange	13.6	42	880.87	700	+	1954-66
04-0998.10	Cass Lake near Shipshewana	Lagrange	.68	89	-	873	+	1970-75
04-0998.20	Hunter Lake near Middleburg	Elkhart	.51	99	856.90	1,120	+	1946-53
04-0998.40	Wolf Lake near Goshen	Elkhart	h1.29	100	813.00	-	-	1947-57
04-0998.60	Heaton Lake near Elkhart	Elkhart	9.33	87	767.30	640	+	1946-53 1969-74
04-0998.80	Simonton Lake near Elkhart	Elkhart	7.44	282	772.19	1,560	+	1946-75
04-0999.50	Indiana Lake near Bristol	Elkhart	.62	122	759.73	3,400	+	1946-53
04-1000.10	Cree Lake near Kendallville	Noble	4.85	58	945.23	910	+	1949-66
04-1000.20	Blackman Lake near Wolcottville	Lagrange	.98	67	974.20	1,210	+	1953-59
04-1000.30	Adams Lake near Wolcottville	Lagrange	5.62	308	953.59	7,690	+	1946-75
04-1000.40	Atwood Lake near Wolcottville	Lagrange	1.23	170	899.99	1,560	+	1948-53



## Lakes in the St. Lawrence River basin for which records are available--Continued

	Lake	County	Drainage Area (square mile)	Surface Area (acres)	Estab- lished Levelxx	Capacity (acre- feet)	Depth Contour Map available	Records available
	STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued							
04-1000.50	Witmer Lake near Wolcottville	Lagrange	36.1	204	897.36	7,040	+	1945-75
04-1000.60	Westler Lake near Wolcottville	Lagrange	37.8	88	897.36	1,770	+	1945-75
04-1000.70	Dallas Lake near Wolcottville	Lagrange	39.8	283	897.36	9,970	+	1945-75
04-1000.80	Martin Lake near Valentine	Lagrange	4.93	26	899.45	890	+	1945-75
04-1000.90	Olin Lake near Valentine	Lagrange	5.81	103	899.45	9,180	+	1945-75
04-1001.00	Oliver Lake near Valentine	Lagrange	11.1	362	899.45	-	-	1945-75
04-1001.10	Hackenburg Lake near Wolcottville	Lagrange	55.4	42	897.36	510	+	1945-75
04-1001.20	Messick Lake near Wolcottville	Lagrange	56.4	68	897.36	1,450	+	1945-75
04-1001.30	Jones Lake near Cosperville f	Noble	70.3	114	885.55	960	+	1948-75
04-1001.40	Bixler Lake at Kendallville	Noble	5.28	120	963.65	2,090	+	1945-75
04-1 001.50	Round Lake at Kendallville	Noble	3.47	99	954.50	2,140	+	1954-75
04-1001.60	Little Long Lake at Kendallville	Noble	4.55	71	954.50	1,750	+	1954-75
04-1001.70	Latta Lake near Rome City	Noble	2.52	42	918.71	900	+	1954-66
04-1001.80	Sylvan Lake at Rome City	Noble	33.8	575	916.20	-	-	1943-75
04-1001.90	Sacarider Lake near Kendallville	Noble	1.43	33	-	740	+	1954-63
04-1002.00	Tamarack Lake near Cosperville	Noble	15.9	50	885.55	880	+	1948-75
04-1002.10	Steinbarger Lake near Cosperville	Noble	24.3	73	885.55	1,590	+	1948-75
04-1002.20	Waldron Lake near Cosperville	Noble	134	216	885.55	3,120	+	1948-75
04-1002.30	Long Lake near Burr Oak	Noble	12.0	40	895.82	630	+	1954-71
04-1002.40	Sand Lake near Burr Oak	Noble	14.9	47	893.56	1,270	+	1946-51
04-1002.50	Rivir Lake near Burr Oak	Noble	18.6	24	-	380	+	1954-65
04-1002.58	High Lake near Wolflake	Noble	4.43	123	896.35	1,240	+	1961-75
04-1002.60	Bear Lake near Wolflake	Noble	6.98	136	894.60	3,030	+	1943-75
04-1002.80	Muncie Lake near Burr Oak	Noble	42.8	47	-	580	+	1954-75
04-1002.90	Silver Lake near Wolflake	Noble	.28	34	-	220	+	1953-63
04-1003.00	Skinner Lake near Albion	Noble	14.0	125	927.74	1,750	+	1945-72
04-1003.10	Pleasant Lake near Wolflake	Noble	.29	20	-	540	+	1952-53
04-1003.20	Upper Long Lake near Wolflake	Noble	2.08	86	891.19	1,900	+	1956-75
04-1003.30	Lower Long Lake near Albion	Noble	4.35	66	889.81	1,560	+	1946-52
04-1003.40	Eagle Lake near Kimmel	Noble	3.22	81	-	1,050	+	1946-48
04-1003.50	Diamond Lake near Wawaka	Noble	4.80	105	-	2,580	+	1946-75
04-1003.60	Sparta Lake at Kimmel	Noble	.69	31	888.50	170	+	1946-51
04-1003.70	Engle Lake near Ligonier	Noble	h4.19	48	-	670	+	1956-71
04-1003.80	Harper Lake near Washington Center	Noble	2.76	11	878.25	160	+	1946-75
04-1003.90	Knapp Lake near Washington Center	Noble	6.02	88	878.25	3,040	+	1946-75
04-1004.00	Moss Lake near Washington Center	Noble	6.12	9	878.25	80	+	1946-75
04-1004.10	Hindman Lake near Washington Center	Noble	8.66	13	878.25	140	+	1946-75
04-1004.20	Gordy Lake near Cromwell	Noble	9.40	31	876.68	680	+	1953-66
04-1004.25	Rider Lake near Cromwell	Noble	10.9	5	876.68	30	+	1953-66
04-1004.30	Duely Lake near Cromwell g	Noble	11.2	21	876.68	180	+	1953-66
04-1004.40	Village Lake near Cromwell	Noble	12.0	12	876.68	160	+	1953-66
04-1004.46	Flatbelly Lake near Syracuse	Kosciusko	4.66	326	-	-	-	1964-69
04-1004.48	Papakeeche Lake near Syracuse	Kosciusko	5.52	300	-	-	-	1964-69
04-1004.50	Wawasee Lake at Wawasee	Kosciusko	36.9	3,060	858.89	67,210	+	1943-66
04-1004.60	Syracuse Lake at Syracuse	Kosciusko	38.2	414	858.87	5,360	+	1943-75
04-1004.70	Dewart Lake near Leesburg	Kosciusko	h8.05	551	867.70	9,000	+	1945-75
04-1004.80	Wabee Lake near Milford	Kosc iusko	h14.6	187	829.79	4,750	+	1946-53

## STREAMS TRIBUTARY TO LAKE ERIE

04-1772.00	Clear Lake at Clear Lake	Steuben	6.86	800	1,037.38	24,990	+	1943-75
04-1772.10	Round Lake at Clear Lake	Steuben	7.25	30	1,037.38	3,40	+	1943-75
04-1773.00	Long Lake near Ray	Steuben	2.80	154	-	1,840	+	1961-63
04-1776.80	Ball Lake near Hamilton	Steuben	11.6	87	894.76	3,520	+	1961-75
04-1777.00	Hamilton Lake at Hamilton	Steuben	16.5	802	898.83	16,600	+	1943-75
04-1792.00	Indian Lake near Corunna	Dekalb	3.76	56	-	1,220	+	1957
04-1793.00	Cedar Lake near Waterloo	Dekalb	23.4	28	896.76	230	+	1943-56

## Lakes in the Upper Mississippi River basin for which records are available

## ILLINOIS RIVER BASIN

05-5147.40	Saugany Lake near Rolling Prairie	LaPorte	h2.34	74	781.21	2,190	+	1946-50
05-5147.41	Hudson Lake at Hudson Lake	LaPorte	7.92	432	763.09	5,060	+	1946-75
05-5147.50	North Chain Lake at Lydick	St. Joseph	h3.89	88	721.17	1,400	+	1946-53
05-5147.60	South Chain Lake at Westfield	St. Joseph	h6.32	90	717.04	270	-	1946-53
05-5147.70	Wharton Lake near South Bend	St. Joseph	1.85	-	-	-	-	1960-75
05-5149.00	Silver Lake near Rolling Prairie	LaPorte	1.72	54	795.20	-	-	1946-66
05-5152.00	Upper Fish Lake near Stillwell	LaPorte	h9.65	139	688.22	1,040	+	1946-53
05-5152.10	Lower Fish Lake near Stillwell	LaPorte	h10.4	134	688.22	870	+	1946-53
05-5152.20	Pine Lake at LaPorte	LaPorte	h10.7	564	796.20	-	-	1946-75
05-5152.30	Stone Lake at LaPorte	LaPorte	h10.7	140	796.20	-	-	1946-75
05-5152.40	Clear Lake at LaPorte	LaPorte	.65	106	798.20	760	+	1942-49
05-5156.00	Koontz Lake at Koontz Lake	Starke	h6.25	346	714.56	3,170	+	1943-75
05-5158.00	Riddles Lake near Lakeville	St. Joseph	h11.7	77	817.50	640	+	1946-73
05-5162.00	Lake of the Woods near Bremen	Marshall	h9.45	416	803.85	6,810	+	1945-75
05-5166.00	Pretty Lake near Plymouth	Marshall	.85	97	787.36	2,140	+	1954-66



## Lakes in the Upper Mississippi River basin for which records are available--Continued

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Estab- lished Levelxx	Capacity (acre- feet)	Depth Contour Map available	Records available
ILLINOIS RIVER BASIN--Continued							
05-5167.00 Myers Lake near Twin Lakes	Marshall	1.41	96	768.69	2,000	+	1945-53
05-5168.00 Mill Pond and Kreighbaum Lake near Twin Lakes	Marshall	h5.34	168	767.75	1,020	+	1945-53
05-5169.00 Eagle Lake near Ober	Starke	h25.5	24	713.25	160	+	1946-53
05-5171.00 Skitz Lake near Knox	Starke	-	1,000	-	-	-	1949-53
05-5172.00 Bass Lake at Bass Lake	Starke	5.18	1,400	713.65	-	-	1943-75
05-5176.00 Wauhob Lake near Valparaiso	Porter	.40	21	-	-	-	1946-75
05-5176.50 Long Lake near Valparaiso	Porter	1.31	65	797.66	520	+	1947-52
05-5176.70 Spectacle Lake near Valparaiso	Porter	.53	62	812.82	540	+	1946-53
05-5177.00 Flint Lake near Valparaiso	Porter	2.62	86	797.66	-	-	1946-75
05-5178.00 Eliza Lake near Beatrice	Porter	1.70	45	-	-	-	1954-74
05-5187.00 Cedar Lake at Cedar Lake	Lake	8.14	781	-	6,750	+	1943-75
05-5188.00 Dalecarlia Lake near Creston	Lake	20.1	193	-	-	-	1947-52
05-5213.00 Ringneck Lake near Medaryville	Jasper	1.94	1,400	-	-	-	1949-55
05-5257.00 J.C. Murphy Lake near Morocco	Newton	13.0	1,515	-	-	-	1952-61

+ Depth contour maps available for sale by Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.

\* Corrected

xx Elevation, in feet, above mean sea level.

a Formerly published as Rider Lake at Wilmot.

b Formerly published as Chapman Lake near Warsaw.

c Formerly published as Johnson Lake near Pierceton.

d Formerly published as Hawks Lake near Culver.

e Formerly published as Jimmerson Lake at Nevada Mills.

f Formerly published as Sanford Lake near Cosperville.

g Formerly published as Duley Lake near Cromwell, and Druley Lake near Cromwell, and Druley Lake near Cromwell.

h Contains drainage area (5 percent or greater) that does not contribute directly to surface-water runoff.

j Same as Wolf Lake at Chicago, Illinois District.

The lakes in Indiana which are not included in the cooperative stabilization program but which have been mapped for recreational purposes are shown in the following table. Surface area and capacities are related to reference mean sea level elevation at time of mapping. Additional data is shown on map which are available for sale by the Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.

Lake	County	Surface Area (acres)	Capacity (acre-feet)	Lake	County	Surface Area (acres)	Capacity (acre-feet)
OHIO RIVER BASIN							
Barr Lake	Fulton	22	470	Lake 16	Fulton	27	220
Bischoff Reservoir	Ripley	200	1,920	Larwill Lake	Whitley	9	170
Black Lake	Whitley	24	400	Lenape Lake	Greene	36	330
Bowen Lake	Scott	7	60	Lincoln Park Lake	Spencer	58	520
Brown Lake	Whitley	23	580	Little Pike Lake	Kosciusko	25	140
Caldwell Lake	Kosciusko	45	800	McColley Lake	Wabash	28	410
Crane Lake	Noble	28	360	Round Lake	Wabash	48	540
Crosley Lake	Jennings	14	130	Scales Lake	Warrick	66	520
Ferdinand Lake	Dubois	42	440	Schlam Lake	Clark	19	170
Franke Lake	Clark	9	70	Sellers Lake	Kosciusko	32	340
Hartz Lake	Starke	28	370	Shakamak Lake	Clay	56	610
Kunkel Lake	Wells	25	150	Twin Lakes	Wabash	18	190
Lake Freeman	Carroll	1,547	26,000	Whitewater Lake	Union	199	3,650
Lake Shafer	White	1,291	13,120	Yellowwood Lake	Brown	133	1,890
STREAMS TRIBUTARY TO LAKE MICHIGAN							
Appleman Lake	Lagrange	52	590	Mateer Lake	Lagrange	18	150
Bartley Lake	Noble	34	430	Miller Lake	Noble	11	160
Barton Lake	Steuben	94	1,340	Millers Lake	Noble	28	410
Bell Lake	Steuben	38	510	Mud Lake	Noble	8	70
Boner Lake	Kosciusko	40	370	Norman Lake	Noble	14	280
Bowen Lake	Noble	30	1,080	Pigeon Lake	Lagrange	61	1,160
Bristol Lake	Noble	27	740	Port Mitchell Lake	Noble	15	180
Buck Lake	Lagrange	18	150	Rainbow Lake	Lagrange	16	250
Center Lake	Steuben	46	390	Schockopee Lake	Noble	21	280
Cline Lake	Lagrange	20	350	Shock Lake	Kosciusko	37	1,210
Deer Lake	Noble	36	420	Smith Hole	Lagrange	2	10
Dock Lake	Noble	16	230	Still Lake	Lagrange	30	620
Eve Lake	Lagrange	31	670	Sweet Lake	Noble	16	210
Fish Lake	Steuben	59	750	Tamarack Lake	Noble	84	1,340
Hog Lake	LaPorte	59	690	Walters Lake	Steuben	53	550
Hog Lake	Steuben	48	570	Weir Lake	Lagrange	6	70
Lime Lake	Steuben	30	330	Wible Lake	Noble	49	650
Little Turkey Lake	Steuben	58	780	Williams Lake	Noble	46	1,070
Marl Lake	Noble	30	510	Wyland Lake	Kosciusko	6	100
STREAMS TRIBUTARY TO LAKE ERIE							
Dunton Lake	Dekalb	21	340	Mirror Lake	Steuben	9	120
Handy Lake	Steuben	16	290	Terry Lake	Dekalb	17	160
Lake Anne	Steuben	17	280				
UPPER MISSISSIPPI RIVER BASIN							
Cook Lake	Marshall	93	1,650	Gilbert Lake	Marshall	37	490
Dixon Lake	Marshall	33	480	Holem Lake	Marshall	40	390
Flat Lake	Marshall	26	210	Lawrence Lake	Marshall	69	1,580

## OBSERVATION WELL RECORDS

## ALLEN COUNTY

Allen 6 (410847N0845703.1)

LOCATION.--Lat 41°08'47", long 84°57'03", U.S. Geological Survey. Drilled observation artesian well in sand and gravel, diam 6 in (152 mm), depth 84 ft (26 m). Land surface datum about 760 ft (232 m) above mean sea level. Measuring point, top of casing 2.50 ft (0.76 m) above land surface datum.

RECORDS AVAILABLE.--1966 to current year.

EXTREMES.--Current year: Maximum water level, 8.95 ft (2.728 m) below land surface datum, May 23; minimum, 14.50 ft (4.420 m) below land surface datum, Oct. 26.

Period of record: Maximum water level, 8.20 ft (2.499 m) below land surface datum, May 1, 1970; minimum, 14.52 ft (4.426 m) below land surface datum, Oct. 26, 1974.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	14.15	14.10	14.20	12.40	10.85	10.00	10.45	10.15	10.00	10.50	11.75	11.45
10	14.15	14.10	14.05	11.30	11.10	9.80	10.45	10.65	10.30	10.90	11.80	11.20
15	14.20	14.10	13.80	10.95	11.25	10.10	10.75	10.95	9.75	11.25	11.95	11.05
20	14.25	14.10	13.35	11.10	10.95	9.80	10.90	10.35	9.90	11.20	12.15	11.10
25	14.25	14.15	13.15	11.15	9.25	10.00	10.45	9.10	9.65	11.40	11.75	11.40
BOM	14.30	14.20	12.65	11.00	9.40	10.25	9.95	9.90	9.95	11.85	11.60	11.65

## BARTHOLOMEW COUNTY

Bartholomew 4 (391627N0855344.1)

LOCATION.--Lat 39°16'27", long 85°53'44", City of Columbus. North side of Bakalar AFB by cemetery. Drilled observation artesian well in sand and gravel, diam 6 in (152 mm), depth 93 ft (28 m). Land surface datum about 656 ft (200 m) above mean sea level. Measuring point, top of shelter floor at rear of recorder, 2.55 ft (0.78 m) above land surface datum.

RECORDS AVAILABLE.--January 1965 to current year.

EXTREMES.--Current year: Maximum water level, 14.44 ft (4.401 m) below land surface datum, May 1; minimum, 18.48 ft (5.633 m) Sept. 30.

Period of record: Maximum water level, 15.11 ft (4.606 m) below land surface datum, June 11, 1968; minimum, 20.61 ft (6.282 m) below land surface datum, Jan. 26, 27, 1965.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	17.78	18.07	17.97	17.52	16.76	15.12	NR	14.48	15.32	NR	17.04	17.89
10	17.79	18.10	17.97	17.37	16.71	15.01	NR	14.60	15.47	NR	17.19	18.02
15	17.85	18.05	17.92	17.30	16.69	15.01	NR	14.72	15.57	NR	17.33	18.13
20	17.92	17.98	17.85	17.12	16.69	14.81	NR	14.85	15.71	16.59	17.48	18.24
25	17.97	17.95	17.75	16.92	16.40	14.59	NR	15.01	15.84	16.74	17.61	18.34
BOM	18.03	17.95	17.60	16.84	15.65	NR	NR	15.18	15.98	16.89	17.76	18.46

## CASS COUNTY

Cass 3 (403407N0861757.1)

LOCATION.--Lat 40°34'07", long 86°17'57". U.S. Geological Survey. Drilled observation artesian well in Dolomitic limestone, diam 6 in (152 mm), depth 130 ft (40 m), cased to 78 ft (24 m). Land surface datum about 780 ft (238 m) above mean sea level. Measuring point, top of shelter floor 2.65 ft (0.81 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 5.10 ft (1.554 m) below land surface datum, Jan. 29; minimum, 7.10 ft (2.164 m) below land surface datum, Nov. 25, 26, 28, 29.

Period of record: Maximum water level, 3.85 ft (1.173 m) below land surface datum, Feb. 2, 1968; minimum, 7.17 ft (2.185 m) below land surface datum Sept. 10, 1972.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	6.55	6.55	6.90	6.15	5.35	NR	5.50	5.90	5.90	6.00	6.35	6.40
10	6.65	6.90	6.75	5.60	NR	NR	5.40	5.85	6.05	5.90	6.55	6.40
15	6.70	6.90	6.65	5.85	NR	5.45	5.55	5.70	5.60	6.00	6.50	6.45
20	6.80	6.85	6.50	5.75	NR	5.35	5.55	5.70	6.15	5.85	6.65	6.30
25	6.75	7.00	6.45	5.40	NR	5.35	5.45	5.90	6.05	5.95	6.60	6.40
BOM	6.70	6.85	6.30	5.60	NR	5.35	5.85	5.95	6.15	6.20	6.00	6.40

## Elkhart 4 (413121N0854813.1)

LOCATION.--Lat 41°31'21", long 85°48'13", U.S. Geological Survey. Goshen Municipal Airport. Drilled observation water-table well in sand and gravel, diam 6 in (152 mm), depth 62 ft (19 m). Land surface datum about 815 ft (248 m) above mean sea level. Measuring point, top of shelter floor 2.60 ft (0.79 m) above land surface datum.

RECORDS AVAILABLE.--1966 to current year.

EXTREMES.--Current year: Maximum water level, 13.50 ft (4.115 m) below land surface datum, June 26-July 3; minimum, 15.65 ft (4.770 m) below land surface datum, Dec. 17-Jan. 10.  
Period of record: Maximum water level, 12.30 ft (3.749 m) below land surface datum, Apr. 16, 1973; minimum, 16.18 ft (4.932 m) below land surface datum, Dec. 1-5, 1971.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	15.30	15.50	15.60	15.65	15.20	NR	14.70	14.20	13.95	13.60	14.30	14.55
10	15.30	15.50	15.60	15.65	15.10	NR	14.65	14.05	13.95	13.80	14.30	14.60
15	15.35	15.50	15.65	15.55	NR	NR	14.65	13.95	13.85	13.90	14.35	14.65
20	15.40	15.55h	15.65	15.35	NR	NR	14.60	13.95	13.60	14.10	14.45	14.70
25	15.45	15.55	15.65	15.25	NR	NR	14.50	13.95	13.55	14.25	14.50	14.75
BOM	15.45	15.55	15.65	15.20	NR	14.75	14.40	13.95	13.50	14.50	14.50	14.80

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## FULTON COUNTY

## Fulton 7 (405829N0861758.1)

LOCATION.--Lat 40°58'29", long 86°17'58", U.S. Geological Survey. Drilled observation artesian well in medium-grained sand and gravel, diam 6 in (152 mm), depth 102 ft (31 m), cased to 100 ft (30 m), screened 100-102 ft (30-31 m). Land surface datum about 780 ft (238 m) above mean sea level. Measuring point, top of shelter floor 2.50 ft (0.76 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 7.60 ft (2.316 m) below land surface datum, June 17, 18; minimum, 11.70 ft (3.566 m) below land surface datum, Oct. 21-Nov. 3.  
Period of record: Maximum water level, 6.35 ft (1.935 m) below land surface datum, Apr. 23-27, 1973; minimum, 11.70 ft (3.566 m) below land surface datum, Oct. 21-Nov. 3, 1974.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	11.55	11.65	11.50	10.30	9.20	8.60	8.70	8.40	8.05	8.20	9.50	10.00
10	11.55	11.60	11.35	9.70	9.30	8.60	8.70	8.55	8.25	8.45	9.70	10.10
15	11.55	11.55	11.20	9.40	NR	8.60	8.85	8.70	7.85	8.80	9.80	9.90
20	11.60	11.45	11.10	9.40	NR	8.65	8.95	8.90	7.65	8.90	9.95	9.90
25	11.70	11.45	10.90	9.40	NR	8.60	8.95	8.45	7.80	9.05	9.95	10.00
BOM	11.70	11.45	10.50	9.40	NR	8.70	8.50	8.25	7.90	9.45	10.00	10.05

## HARRISON COUNTY

## Harrison 8 (384323N0860445.1)

LOCATION.--Lat 38°23'23", long 86°04'45", U.S. Geological Survey. Drilled observation artesian well in limestone, diam 6 in (152 mm), depth 93 ft (28 m). Land surface datum about 824 ft (251 m) above mean sea level. Measuring point, top of recorder shelter floor at front of recorder 3.08 ft (0.94 m) above land surface datum.

RECORDS AVAILABLE.--1965 to current year.

EXTREMES.--Current year: Maximum water level, 1.65 ft (0.503 m) below land surface datum, Mar. 28; minimum, 16.85e ft (5.136 m) below land surface datum, Sept. 30.  
Period of record: Maximum water level, 1.30 ft (0.396 m) below land surface datum, Apr. 22, 1972; minimum, 19.71 ft (6.008 m) below land surface datum, Nov. 5, 1966.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	15.40	14.80	11.90	4.75	2.85	4.35	3.70	3.90	7.80	10.10	13.30e	15.50e
10	15.65	13.95	10.10	3.00	4.00	4.40	4.35	4.00	8.40	10.70	13.65e	15.85e
15	15.85	13.60	9.30	3.85	3.50	2.80	5.05	4.75	7.65	11.25	14.00e	16.10e
20	15.80	13.50	8.30	3.45	4.10	2.40	5.05	5.70	8.20	11.75	14.35e	16.35e
25	16.00	13.40	7.75	3.70	2.35	2.30	2.05	6.65	8.90	12.25	14.70e	16.60e
BOM	16.30	13.05	6.30	3.10	3.20	2.35	3.30	7.30	9.45	12.85	15.15e	16.85e

e estimated

## LAKE COUNTY

## Lake 12 (411038N0872847.1)

LOCATION.--Lat 41°10'38", long 87°28'47", U.S. Geological Survey. Kankakee River State Park. Drilled observation artesian well in dolomite, diam 6 in (152 mm), depth 82 ft (25 m). Land surface datum about 630 ft (192 m) above mean sea level. Measuring point, top of casing 2.50 ft (0.76 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 0.95 ft (0.290 m) below land surface datum, Apr. 30; minimum, 8.75 ft (2.667 m) below land surface datum, Oct. 1.

Period of record: Maximum water level, 0.15 ft (0.046 m) below land surface datum, Jan. 12, 1973; minimum, 14.35 ft (4.374 m) below land surface datum, Sept. 9, 1974.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	7.75	6.10	4.30	3.30	2.25	1.90	1.85	1.05	1.65	1.65	2.25	2.10
10	NR	5.30	4.10	2.80	2.35	1.95	1.85	1.35	1.80	1.65	2.45	2.15
15	NR	5.05	3.90	2.45	2.40	1.90	2.00	1.55	1.70	1.80	2.30	2.25
20	NR	4.80	3.75	2.50	2.30	1.95	1.50	1.75	1.50	1.70	2.25	2.20
25	NR	4.70	3.65	2.40	1.85	1.95	1.20	1.85	1.40	1.90	2.20	2.35
ECM	NR	4.55	3.45	2.35	1.80	1.95	.95	1.80	1.35	2.15	2.10	2.35

## MONTGOMERY COUNTY

## Montgomery 7 (400247N0864821.1)

LOCATION.--Lat 40°02'47", long 86°48'21", U.S. Geological Survey. Drilled observation artesian well in sand and gravel of Pleistocene age, diam 6 in (152 mm), depth 111 ft (34 m), screened 107-109 ft (32.6-33.2 m). Land surface datum 804 ft (245 m) above mean sea level. Measuring point, top of recorder platform 2.38 ft (0.73 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 27.55 ft (8.397 m) below land surface datum, Apr. 18, 27-30; minimum, 30.56 ft (9.315 m) below land surface datum, Dec. 3.

Period of record: Maximum water level, 26.10 ft (7.955 m) below land surface datum, Apr. 13, 1974; minimum, 31.79 ft (9.690 m) below land surface datum, Nov. 28, 1967.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	30.00	30.20	30.40	29.70	28.40	27.85	27.90	NR	NR	29.15	29.95	NR
10	30.05	30.20	30.25	29.15	28.30	27.75	27.80	NR	NR	29.45	30.05	29.85
15	30.10	30.30	30.00	29.20	28.35	27.85	27.75	NR	NR	29.65	NR	29.80
20	30.35	30.20	29.95	28.95	28.35	27.70	27.90	NR	NR	29.60	NR	NR
25	30.30	30.35	29.95	28.65	28.00	27.75	27.75	NR	NR	29.75	NR	NR
ECM	30.30	30.25	29.80	28.70	28.00	27.75	27.55	NR	NR	NR	NR	NR

## NEWTON COUNTY

## Newton 6 (405105N0871733.1)

LOCATION.--Lat 40°51'05", long 87°17'33", U.S. Geological Survey. Drilled observation artesian well in sand and gravel of Pleistocene age, diam 6 in (152 mm), depth 80 ft (24 m), screened 76-78 ft (23-24 m). Land surface datum 654 ft (199 m) above mean sea level. Measuring point, top of recorder platform 2.25 ft (0.69 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 9.62h ft (2.932 m) below land surface datum, June 18; minimum, 15.76 ft (4.804 m) below land surface datum, Nov. 1, 2.

Period of record: Maximum water level, 8.42 ft (2.566 m) below land surface datum, Apr. 24, 1973; minimum, 15.67 ft (4.776 m) below land surface datum, Oct. 14, 1967.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	15.35	15.60	15.17	13.52	11.09	NR	10.75	10.63	NR	10.81	12.83	13.60
10	15.46	15.48	15.00	12.48	NR	10.43	10.66	10.90	10.12	11.32	13.09	13.62
15	15.51	15.45	14.82	11.73	NR	10.57	10.98	11.11	10.20	11.84	13.22	13.74
20	15.58	15.30	14.69	11.67	NR	10.64	11.24	11.36	9.76	11.75	13.35	13.75
25	15.65	15.28	14.53	11.53	NR	10.64	11.26	11.53	10.08	12.07	13.47	13.83
ECM	15.70	15.19	14.04	11.36	NR	10.79	10.75	NR	10.12	12.50	13.58	13.87

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## Owen 7 (391731N0864214.1)

LOCATION.--Lat 39°17'31", long 86°42'14", U.S. Geological Survey. Drilled observation artesian well in Mississippian limestone, diam 6 in (152 mm), depth 150 ft (46 m), cased 0-15 ft (0-5 m). Land surface datum 806.68 ft (245.876 m) above mean sea level. Measuring point, top of recorder shelf 2.38 ft (0.73 m) above land surface datum.

RECORDS AVAILABLE.--1967 to current year.

EXTREMES.--Current year: Maximum water level, 104.25 ft (31.775 m) below land surface datum, Feb. 23; minimum, 116.05 ft (35.372 m) below land surface datum, Aug. 18.

Period of record: Maximum water level, 98.77 ft (30.105 m) below land surface datum, May 24, 1968; minimum, 121.25 ft (36.957 m) below land surface datum, June 6, 1973.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	NR	NR	115.60	115.35	115.20	115.40	115.40	115.50	115.60	115.90	NR	115.90
10	NR	115.70	115.35	106.25	115.45	115.50	115.50	115.60	115.80	115.95	NR	NR
15	NR	115.60	115.30	115.10	115.30	114.80	115.55	115.55	115.80	115.95	115.95	NR
20	NR	115.65	115.45	115.45	115.40	113.25	115.20	115.65	NR	115.95	116.00	NR
25	115.85	115.10	115.35	115.50	110.25	115.30	112.10	115.75	115.85	NR	115.95	NR
BOM	115.85	115.60	113.10e	112.55	114.50	114.00	115.35	115.75	115.90	NR	115.70	NR

e estimated

## RANDOLPH COUNTY

## Randolph 3 (401532N0850853.1)

LOCATION.--Lat 40°15'32", lat 85°08'53", U.S. Geological Survey. Drilled observation artesian well in sandy limestone, diam 6 in (152 mm), depth 54 ft (16 m), cased to 33 ft (10 m). Land surface datum about 970 ft (296 m) above mean sea level. Measuring point, top of shelter floor 3.86 ft (1.18 m) above land surface datum.

RECORDS AVAILABLE.--1966 to current year.

EXTREMES.--Current year: Maximum water level, 8.35 ft (2.545 m) below land surface datum, Jan. 10, 11; minimum, 13.40 ft (4.084 m) below land surface datum, Sept. 30.

Period of record: Maximum water level, 7.98 ft (2.432 m) below land surface datum, May 27, 1968; minimum, 14.43 ft (4.398 m) below land surface datum, Oct. 4, 5, 1967.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	12.00	12.15	11.70	9.30	8.85	NR	9.45	8.85	10.65	11.25	12.65	12.90
10	12.10	11.80	10.50	8.35	NR	NR	9.60	9.50	11.00	11.50	12.80	13.05
15	12.20	11.65	9.50	9.40	NR	NR	10.00	9.70	10.55	11.90	12.70	13.20
20	12.25	11.30	9.85	9.85	NR	NR	10.05	10.05	10.70	11.95	12.90	13.15
25	12.25	11.60	9.30	9.45	NR	NR	9.20	10.45	10.80	12.25	13.00	13.25
BOM	12.35	11.45	9.25	NR	NR	8.80	8.75	10.60	11.05	12.65	12.85	13.50

## SHELBY COUNTY

## Shelby 2 (393943N0854909.1)

LOCATION.--Lat 39°39'43", 85°49'09", U.S. Geological Survey. Drilled observation artesian well in limestone, diam 6 in (152 mm), depth 150 ft (46 m). Land surface datum about 818 ft (249 m) above mean sea level. Measuring point, top of collar welded on casing at round hole drilled in recorder shelter floor 3.00 ft (0.91 m) above land surface datum.

RECORDS AVAILABLE.--1966 to current year.

EXTREMES.--Current year: Maximum water level, 16.45 ft (5.014 m) below land surface datum, Apr. 1; minimum, 21.65 ft (6.599 m) below land surface datum, Sept. 30.

Period of record: Maximum water level, 15.90 ft (4.846 m) below land surface datum, May 27, 1968; minimum, 22.20 ft (6.767 m) below land surface datum, Nov. 30, 1967.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	19.60	NR	18.35	17.20	NR	NR	17.15	17.40	18.80	19.70	20.55	21.30
10	19.75	NR	NR	NR	NR	NR	17.55	18.00	19.05	19.85	20.70	21.40
15	19.90	NR	NR	NR	NR	NR	17.95	18.25	18.85	20.05	20.85	21.45
20	20.05	NR	NR	NR	NR	16.20	18.15	18.55	19.25	20.00	21.00	21.50
25	20.10	18.35	NR	NR	NR	16.70	17.00	18.80	19.40	20.25	21.10	21.60
BOM	20.20	18.35	17.60	16.65	NR	16.30	16.75	18.85	19.55	20.50	21.15	21.65



## VANDERBURGH COUNTY

## Vanderburgh 6 (380608N0873959.1)

LOCATION.--Lat 38°06'08", long 87°39'59", U.S. Geological Survey. Drilled observation artesian well in the Patoka Formation of Late Pennsylvanian age, diam 6 in (152 mm), depth 125 ft (38 m), cased 0-80 ft (0-24 m). Land surface datum 446.58 ft (136.118 m) above mean sea level. Measuring point, top of platform, 3.47 ft (1.06 m) above land surface datum.

RECORDS AVAILABLE.--1965 to current year.

EXTREMES.--Current year: Maximum water level, 28.55 ft (8.702 m) below land surface datum, Mar. 22, 24, 28, Apr. 2, 24; minimum, 31.15 ft (9.494 m) below land surface datum, Sept. 30.

Period of record: Maximum water level, 24.88 ft (7.583 m) below land surface datum, Apr. 3, 4, 1968; minimum, 31.15 ft (9.494 m) below land surface datum, Sept. 30, 1975.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	30.35	30.25	29.90	29.55	29.25	29.00	28.95	28.70	29.15	30.25	30.30	30.85
10	30.40	30.35	29.80	29.00	29.30	28.85	28.85	28.75	29.25	30.05	30.40	31.00
15	30.40	30.25	29.55	29.25	29.15	28.90	28.90	28.75	29.25	30.20	30.55	30.95
20	30.40	30.10	29.55	29.50	29.10	28.75	28.95	28.90	29.55	30.25	30.55	30.90
25	30.45	30.10	29.55	29.30	28.85	28.60	28.60	29.15	29.75	30.30	30.70	30.95
EOY	30.45	29.85	29.50	29.55	28.85	28.65	28.75	29.15	29.95	30.50	30.75	31.00

## VIGO COUNTY

## Vigo 7 (392818N0872433.1)

LOCATION.--Lat 39°28'18", long 87°24'33", Indiana State University, Terre Haute, Ind. Drilled observation well in sand and gravel diam 6 in (152 mm), depth 70 ft (21 m). Land surface datum about 502 ft (153 m) above mean sea level. Measuring point, 3 ft (0.91 m) above land surface datum.

RECORDS AVAILABLE.--1970 to current year.

EXTREMES.--Current year: Maximum water level, 42.55 ft (12.969 m) below land surface datum, July 3-5; minimum, 46.30 ft (14.112 m) below land surface datum, Dec. 21.

Period of record: Maximum water level, 41.80 ft (12.741 m) below land surface datum, June 7, 1974; minimum, 51.90 ft (15.819 m) below land surface datum, Sept. 29-Oct. 1, 1972.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	45.30	45.85	46.10	NR	44.65	43.50	NR	43.15	43.40	42.55	43.95	44.80
10	45.35	45.80	46.20	NR	44.40	43.20	NR	43.10	43.35	42.70	44.15	44.85
15	45.50	NR	46.25	NR	44.25	43.10	NR	43.15	43.25	42.95	44.35	44.90
20	45.55	45.75	46.30	NR	44.30	42.95	NR	43.35	43.10	43.25	44.50	45.00
25	45.50	45.85	46.25	NR	44.20	43.10	NR	43.55	42.75	43.45	44.60	45.10
EOY	45.75	45.95	46.25	44.85	44.05	42.95	NR	43.50	42.60	43.70	44.80	45.15

## WAYNE COUNTY

## Wayne 6 (394426N0850806.1)

LOCATION.--Lat 39°44'26", long 85°08'06", U.S. Geological Survey. Drilled observation water-table well in sand and gravel, diam 6 in (152 mm), depth 49 ft (15 m). Land surface datum about 888 ft (271 m) above mean sea level. Measuring point is top of collar 3.25 ft (0.99 m) above land surface datum.

RECORDS AVAILABLE.--1966 to current year.

EXTREMES.--Current year: Maximum water level, 10.55 ft (3.216 m) below land surface datum, Apr. 30-May 2; minimum, 17.50 ft (5.334 m) below land surface datum, Sept. 30.

Period of record: Maximum water level, 10.55 ft (3.216 m) below land surface datum, Apr. 30-May 2, 1975; minimum, 20.74 ft (6.322 m) below land surface datum, Nov. 7, 8, 1966.

Highest water level for the day, in feet below land surface datum, for 1975 water year

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	15.80	16.45	16.85	15.70	13.90	11.80	11.75	10.80	13.50	14.70	15.90	16.85
10	15.80	16.50	16.70	15.50	13.90	12.45	12.30	11.40	13.70	14.90	16.10	17.00
15	15.90	16.55	16.45	14.85	14.05	12.65	12.90	11.95	13.90	15.10	16.20	17.15
20	16.05	16.60	16.25	14.60	14.10	12.30	13.10	12.55	14.10	15.30	16.35	17.25
25	16.15	16.70	16.10	14.60	11.05	12.05	12.85	12.95	14.30	15.50	16.50	17.35
EOY	16.35	16.80	15.90	14.40	11.35	11.65	10.55	13.30	14.50	15.75	16.65	17.50

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# CALENDAR FOR WATER YEAR 1975

1974

## OCTOBER

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S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## APRIL

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## JULY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## SEPTEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

