CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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			

NOVEMBER

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	

DECEMBER

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					

1974

JANUARY

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		

FEBRUARY

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		

MARCH

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					

1974

Water Resources Data for Indiana

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Prepared in cooperation with

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

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
1819 North Meridian Street
Indianapolis, Indiana 46202

1975

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INTRODUCTION

Water resources data for the 1974 water year for Indiana, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Records for a few pertinent gaging and water- quality stations in bordering states also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

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

Records of discharge and contents of reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 15 and 20.

COOPERATION

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

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

State Board of Health, W. T. Paynter, commissioner, and R. C. Pickard, commissioner of Environmental Management

State Highway Commission, R. A. Boehing, chairman, G. Hallock, executive director, and N. W. Steinkamp, chief engineer.

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

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

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows. 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-enterrococcus 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	To obtain SI units
	Length	
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^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	litres (l)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
cubic feet (ft^3)	28.32	litres (l)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2447	cubic metres (m^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	.02832	cubic metres per second (m^3/s)
	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 microorganisms, such as bacteria.

Ft^3/s-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 (FT^3/M^2) 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 (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

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

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

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (ft^3/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 ($CaCO_3$).

Micrograms per litre (ug/l, UG/L) is a unit expressing the concentration of chemical constituents in sollution 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 (mg/l, 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 7. Concentration of suspended sediment also is expressed in 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 7.

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

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

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

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

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

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

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

*Constituent reported in micrograms per 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)

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

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

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

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.

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.

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

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

SPECIAL NETWORK

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

DOWNSTREAM ORDER AND STATION NUMBER

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

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

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

SURFACE-WATER RECORDS

Collection and computation of data

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

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

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

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

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

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

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

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

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

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

Accuracy of data

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/fs; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/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 (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for

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
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.

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, °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 17.

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 page II of this report.

Temperature

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

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

Sediment

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

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

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

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

Publications

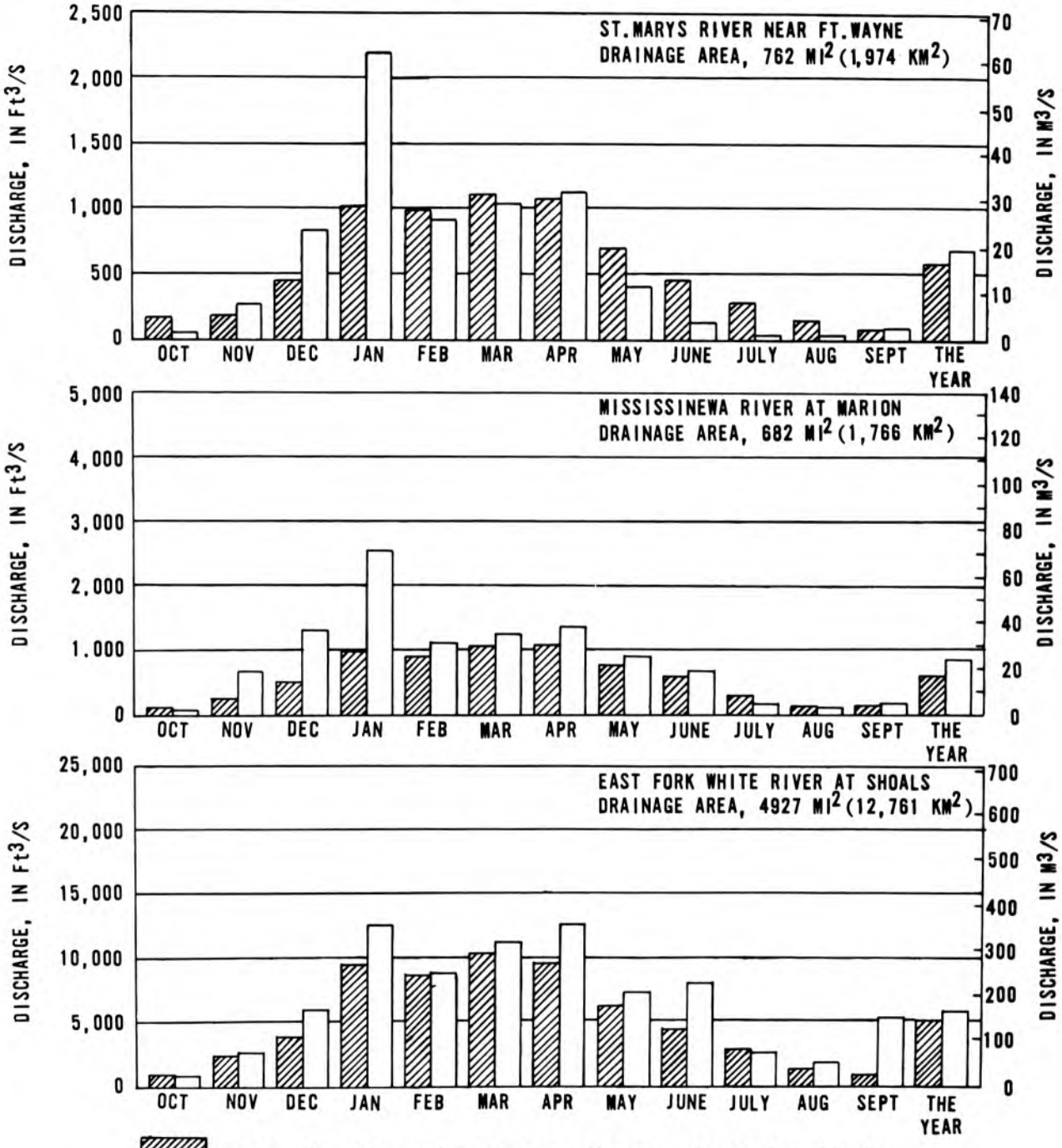
Table 5.--Water-supply paper numbers and parts, water years, 1947-67

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

Other Data Available

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

HYDROLOGIC CONDITIONS



Comparison of discharge at three long-term representative gaging stations during 1974 water year with median discharge for period 1931-60

HYDROLOGIC CONDITIONS

Precipitation was normal for the year except in the west-central region which reflected late spring and summer thunderstorms. Generally yearly precipitation totals were 1 to 2 inches below or above averages, and those for the west-central region averaging 10 and 14 inches above. Storm conditions produced peak flows from the end of November to the last day of the water year, without causing major flooding in the state. Weather pattern for the year aligned into 1 wet week followed by 3 dry weeks. Peaks above base dischages averaged about 6 for the year.

The period October to mid-November was a classic example of Indian Summer in Indiana. Temperatures were well above normal and rainfall was normal and scattered. The last week in November brought the first heavy rains to the state. Precipitation totals for this area were the greatest for November since 1957. December's precipitation occurred as snow with the totals at Evansville and Indianapolis setting new records. Warm temperatures and a light rain at Christmas time removed the snow and caused some minor flooding in the White River basin.

Temperatures during the first three weeks in January lowered to cause heavy ground freezing. Rainfall beginning on the 18th and continuing to the 23rd, provided almost 100 percent runoff. Yearly maximum discharges occurred in the Upper Wabash, Upper White, Maumee River Basin, and on those streams in the Calumet basins. February and early March were unseasonably warm with near normal rainfall. Maximum discharges occurred in the St. Joseph River basin in mid-March caused by melting snow and light rain during the first week. The end of March and the first week in April were extremely violent and precipitation during this period raised streams in the southern part of the state to flood stages. This period was followed by a long cool dry spell into early May. Precipitation from mid-May to mid-June was slightly above normal and isolated storms occurred in the Kankakee River basin in mid-May and the Lower Wabash River basin at the end of the month.

Heavy rainfall near the end of June produced maximum discharges in the middle Wabash and middle White River basins. Rainfall from the last week in June to the first week in August yielded the lowest amounts since the turn of the century at some long-term precipitation stations. Summer thunderstorms during August and September were concentrated mostly in the western part of the state. Weekly storms occurred during late August and September, and maintained streamflow well above normal and produced some yearly maximums on small streams.

Distribution of precipitation during the year, as to times and amounts, kept streamflow well above deficient range, but did not produce any record maximums. Daily runoff at Wabash River at Mount Carmel, Ill., was above one cubic foot per second per square mile of drainage area for nearly 150 consecutive days from the end of December to the middle of May.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.

Benedict, P. C., 1948, Determination of the suspended sediment discharge of streams, in Federal Interagency Sedimentation Conference, 1st, Denver, Colo., May 6-8, 1947. Proc.: Washington, D. C., U.S. Bur. Reclamation, p. 55-67.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Techniques Water-Resources Inv. book 5, chap. A1, 160 p.

Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging stream: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap A6, 13 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water: Revised edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lane, E. W., and others, 1947, Report of the subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Love, S. K., and Benedict, P. C., 1948, Discharge and sediment loads in the Boise River drainage basin, Idaho, 1939-40: U.S. Geol. Survey Water-Supply Paper 1048, 150 p.

Porterfield, George, 1972, Computations of fluvial sediment discharges, U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle size of coarse sediment, U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

1957, The development and calibration of visual accumulation tube: Rept. 11.

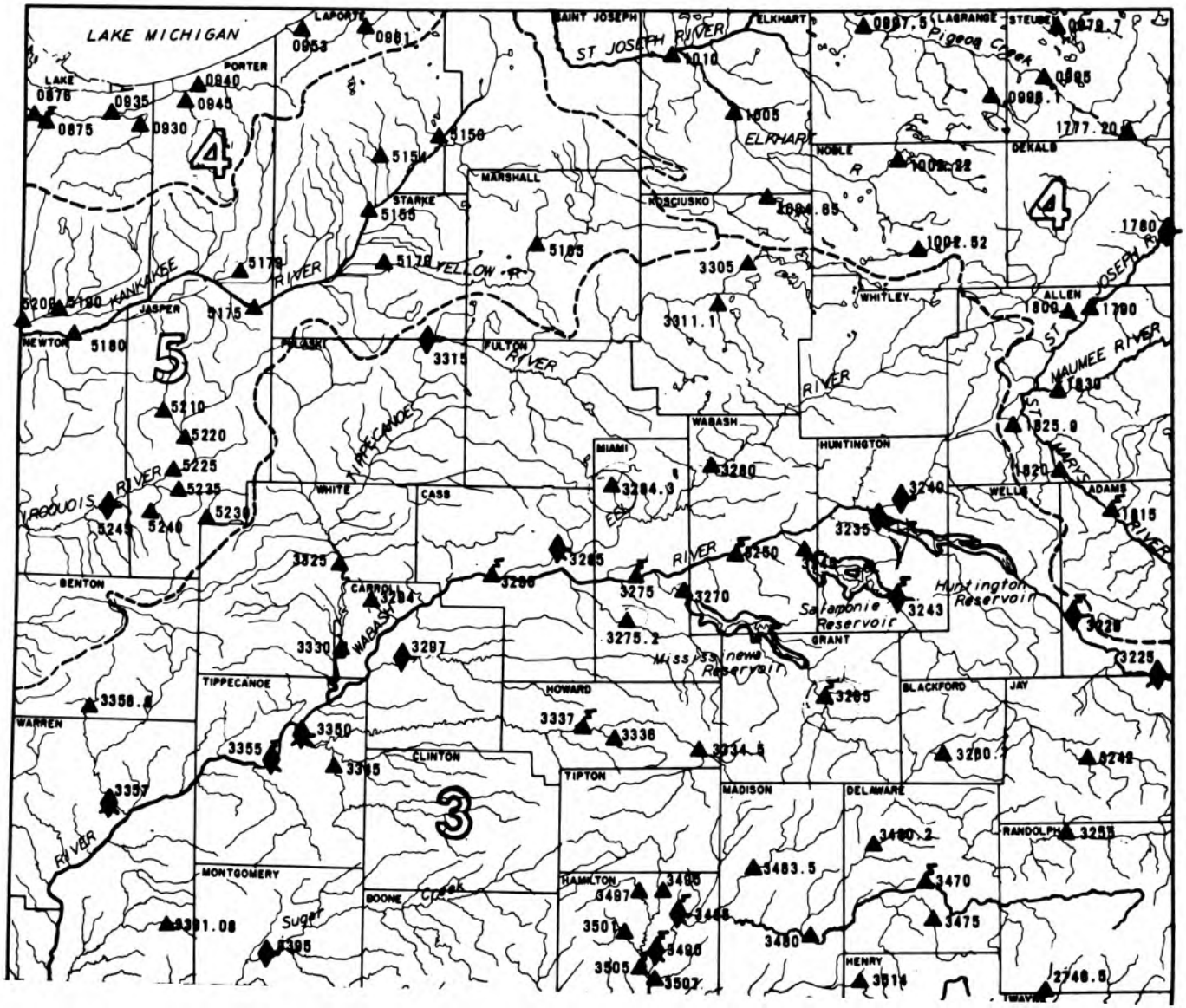
1957, Some fundamentals of particle size analysis: Rept. 12.

1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

1961, The single stage sampler for suspended sediment: Rept. 13.

1963, Determination of fluvial sediment discharge: Rept. 14.

1963, A summary of the work of the Inter-agency sedimentation project: Rept. S.


LAKE MICHIGAN
LAKE
PORTER
LAPORTE
SAINT JOSEPH
ELKHART
LAGRANGE
STEUBEN
NOBLE
DEKALB
STARKE
MARSHALL
KOSCIUSKO
WHITLEY
ALLEN
JASPER
NEWTON
PULASKI
FULTON
WABASH
HUNTINGTON
MIAMI
WELLS
ADAMS
WHITE
CASS
BENTON
CARROLL
GRANT
TIPPECANOE
HOWARD
BLACKFORD
JAY
WARREN
CLINTON
TIPTON
MADISON
DELAWARE
RANDOLPH
MONTGOMERY
BOONE
HAMILTON
HENRY
ST JOSEPH RIVER
ELKHART R
Pigeon Creek
YELLOW R
KANKAKEE RIVER
TIPPECANOE
WABASH
ROUGOIS RIVER
MAUMEE RIVER
ST MARYS RIVER
Sugar Creek
Salamonie Reservoir
Huntington Reservoir
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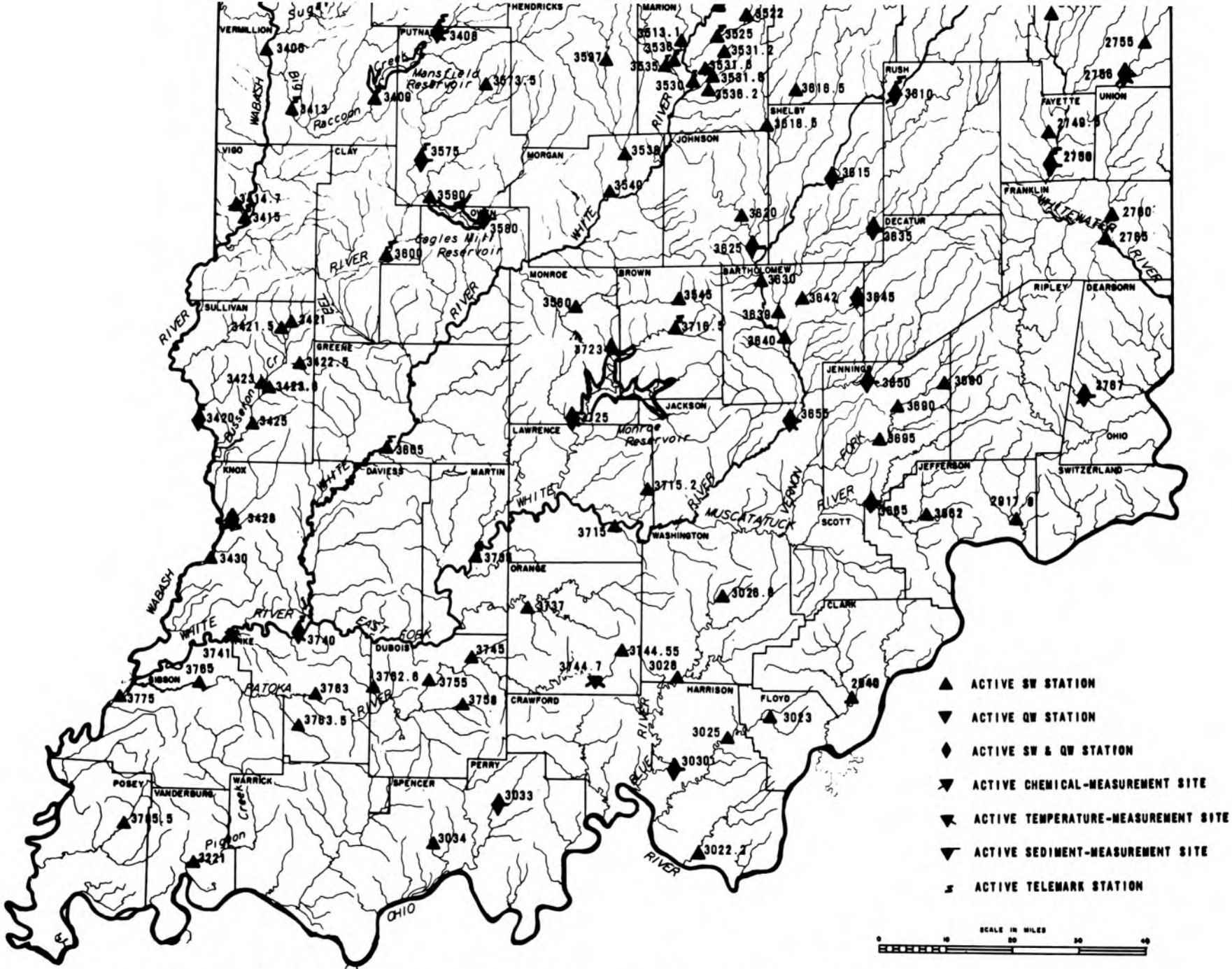

Figure 2.-- Location of stream-flow and water-quality gaging stations in Indiana

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 and 2.4 miles (3.9 km) northwest of Economy.

DRAINAGE AREA.--10.4 mi^2 (26.9 km^2).

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.

EXTREMES.--Current year: Maximum discharge, 318 ft^3/s (9.01 m^3/s), Jan. 19, gage height, 5.77 ft (1.759 m); minimum daily, 0.75 ft^3/s (0.021 m^3/s) Nov. 12, 13.
Period of record: Maximum discharge, 630 ft^3/s (17.8 m^3/s) Nov. 2, 1972, gage height, 7.24 ft (2.207 m); minimum daily, 0.35 ft^3/s (0.010 m^3/s) Nov. 18, 1971.

REMARKS.--Records good.

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	1.1	1.8	7.5	8.7	10	22	29	5.1	3.3	4.9	1.4	1.3
2	1.1	1.2	6.2	7.5	9.2	15	26	5.1	3.0	4.2	1.4	1.3
3	1.1	1.0	5.3	6.7	7.7	12	32	5.5	2.8	3.7	1.6	1.6
4	1.3	.93	6.7	5.9	6.7	12	96	4.8	2.7	3.7	1.5	1.3
5	1.6	.87	6.9	5.3	6.2	88	29	4.6	2.8	3.6	1.3	1.1
6	1.1	.81	5.0	4.9	12	34	21	4.4	2.8	3.3	1.3	1.0
7	1.1	.81	4.7	4.8	17	21	15	4.3	3.0	3.2	1.2	.97
8	1.1	.87	4.3	4.6	9.5	14	50	4.8	10	2.9	1.3	.90
9	1.1	.87	4.3	5.0	7.5	11	70	4.6	7.7	2.8	1.3	.87
10	1.0	.81	3.9	5.0	6.9	9.5	51	4.4	4.4	3.6	1.2	.87
11	1.0	.81	3.6	4.8	6.2	8.6	26	4.6	3.4	3.4	1.2	.91
12	.93	.75	3.6	5.0	9.2	8.3	19	9.8	3.1	2.6	1.2	1.0
13	1.1	.75	3.9	4.6	11	7.5	14	5.9	3.0	2.4	1.2	.96
14	1.3	.81	3.9	4.4	9.5	7.2	12	4.8	2.8	2.4	1.6	.90
15	1.1	1.2	3.4	5.3	6.9	8.3	9.8	6.9	2.8	2.3	1.3	.86
16	.93	1.6	3.2	43	6.7	13	8.6	5.5	2.7	2.2	1.2	.87
17	.93	1.1	3.0	87	6.2	9.8	8.0	5.1	2.5	2.0	1.3	.85
18	.93	1.0	2.8	93	5.9	8.9	7.7	5.7	2.4	1.9	1.2	.85
19	.93	.93	2.6	145	36	8.3	7.5	5.9	2.4	2.0	1.1	.84
20	.93	.87	3.0	77	24	7.5	6.9	5.7	2.3	1.9	1.1	.87
21	.87	1.0	2.7	71	19	7.7	6.7	4.8	2.5	1.8	.99	.87
22	.87	1.0	2.3	40	109	6.7	7.5	4.4	31	1.7	.96	.87
23	.87	.93	2.4	60	34	6.7	6.4	4.1	59	1.7	.99	.87
24	.87	2.1	2.5	35	19	6.4	5.7	4.1	18	1.7	.93	.87
25	.81	34	40	25	11	6.2	5.5	3.6	8.6	1.6	.91	.87
26	.81	24	56	39	9.5	7.5	5.5	3.4	8.4	1.6	.91	.87
27	.81	23	40	68	9.8	8.0	5.5	3.3	8.3	1.5	.94	.87
28	.87	34	23	36	27	7.5	5.3	3.3	5.8	1.5	1.2	1.0
29	.93	23	15	27	------	54	5.1	3.8	5.2	1.5	1.6	1.1
30	1.2	11	12	18	------	94	5.3	3.6	5.1	1.5	1.3	1.0
31	1.2	------	10	12	------	53	------	3.6	------	1.4	1.1	------
TOTAL	31.79	173.82	293.7	958.5	452.6	583.6	597.0	149.5	221.8	76.5	37.73	29.31
MEAN	1.03	5.79	9.47	30.9	16.2	18.8	19.9	4.82	7.39	2.47	1.22	.98
MAX	1.6	34	56	145	109	94	96	9.8	59	4.9	1.6	1.6
MIN	.81	.75	2.3	4.4	5.9	6.2	5.1	3.3	2.3	1.4	.91	.84
CFSM	.10	.56	.91	2.97	1.56	1.81	1.91	.46	.71	.24	.12	.09
IN.	.11	.62	1.05	3.43	1.62	2.09	2.14	.53	.79	.27	.13	.10

CAL YR 1973 TOTAL 4,612.30 MEAN 12.6 MAX 253 MIN 75 CFSM 1.21 IN 16.50
WTR YR 1974 TOTAL 3,605.85 MEAN 9.88 MAX 145 MIN .75 CFSM .95 IN 12.90

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	0200	5.77	318	03-05	0400	5.12	214
02-22	0300	5.17	222	04-04	0300	5.47	267

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, and 2.6 miles (4.2 km) south of Hagerstown.

DRAINAGE AREA.--58.7 mi^2 (152.0 km^2).

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).

EXTREMES.--Current year: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) Apr. 4, gage height, 9.25 ft (2.819 m); minimum daily, 15 ft^3/s (0.42 m^3/s) Aug. 25.
Period of record: Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) Apr. 13, 1972, gage height, 9.91 ft (3.021 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Aug. 29-31, Sept. 5, 19, 1971.

REMARKS.--Records good.

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	17	24	40	53	76	109	139	57	41	127	20	32
2	18	21	35	47	72	87	126	57	39	60	21	26
3	18	20	33	47	65	78	154	59	39	51	26	34
4	22	18	36	43	62	87	775	54	38	131	21	26
5	19	19	38	40	58	416	177	53	37	65	21	23
6	18	19	32	40	76	144	139	52	38	49	20	21
7	16	19	29	39	106	108	116	51	38	44	20	19
8	17	19	28	36	69	89	336	58	60	41	21	18
9	16	18	26	40	60	81	379	55	58	38	20	19
10	16	18	26	40	56	72	252	51	45	37	19	19
11	16	17	24	37	54	72	156	52	41	37	20	25
12	16	18	24	33	59	71	133	72	40	33	20	24
13	21	17	28	32	69	65	111	58	37	32	19	23
14	19	17	28	34	63	63	98	53	37	30	24	21
15	18	21	25	38	55	67	89	63	42	30	19	19
16	16	19	24	121	53	83	83	55	35	28	19	19
17	16	19	23	352	51	71	78	55	36	27	23	19
18	16	18	22	381	50	67	75	57	34	26	27	18
19	16	21	23	869	140	63	72	93	35	26	21	16
20	16	19	25	371	108	60	69	72	36	24	19	18
21	16	21	22	392	83	63	67	60	40	23	18	18
22	16	18	20	175	521	58	82	56	225	24	17	16
23	16	18	21	269	151	57	72	53	355	25	17	17
24	16	22	22	154	105	55	65	51	86	24	16	17
25	16	83	284	116	85	55	63	47	64	23	15	17
26	17	68	309	177	76	57	62	45	59	23	16	17
27	17	77	274	367	76	59	59	43	56	22	18	18
28	16	70	122	165	120	57	58	42	48	21	25	21
29	20	70	88	136	------	228	57	47	45	22	46	26
30	22	48	73	103	------	506	58	46	179	20	25	21
31	22	------	63	87	------	219	------	44	------	20	20	------
TOTAL	541	876	1,867	4,834	2,619	3,367	4,200	1,711	1,963	1,183	653	627
MEAN	17.5	29.2	60.2	156	93.5	109	140	55.2	65.4	38.2	21.1	20.9
MAX	22	83	309	869	521	506	775	93	355	131	46	34
MIN	16	17	20	32	50	55	57	42	34	20	15	16
CFSM	.30	.50	1.03	2.66	1.59	1.86	2.39	.94	1.11	.65	.36	.36
IN.	.34	.56	1.18	3.06	1.66	2.13	2.66	1.08	1.24	.75	.41	.40

CAL YR 1973 TOTAL 28,210 MEAN 77.3 MAX 1,180 MIN 16 CFSM 1.32 IN 17.88
WTR YR 1974 TOTAL 24,441 MEAN 67.0 MAX 869 MIN 15 CFSM 1.14 IN 15.49

PEAK DISCHARGE (BASE, 900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	0800	8.69	1,500	04-04	0500	9.25	1,690
02-22	0500	7.04	1,010	06-22	2400	7.48	1,140
03-05	0500	6.93	977				

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 (revised) 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^2 (23.72 km^2) (revised).

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.--6 years, 9.91 ft^3/s (0.281 m^3/s), 14.96 in/yr (380 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,560 ft^3/s (101 m^3/s) June 22, gage height, 10.13 ft (3.088 m); minimum daily, 0.98 ft^3/s (0.028 m^3/s) Oct. 24.
Period of record: Maximum discharge, 3,560 ft^3/s (101 m^3/s) June 22, 1974, gage height, 10.13 ft (3.088 m); minimum daily, 0.46 ft^3/s (0.013 m^3/s) Aug. 30 to Sept. 1, Sept. 16-19, 24, Oct. 7, 8, 1971, Sept. 1, 1972.

REMARKS.--Records good.

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	2.1	3.3	8.4	8.7	13	14	18	8.0	8.0	9.8	1.4	5.3
2	2.4	2.0	7.7	8.7	12	15	17	8.4	7.4	8.7	1.8	10
3	2.0	2.0	7.1	8.0	11	13	18	8.4	6.8	8.0	3.5	5.0
4	2.7	1.8	11	7.4	9.8	16	18	7.1	6.5	9.1	2.1	3.5
5	2.1	2.1	9.1	7.4	9.1	26	15	6.8	6.3	8.0	1.8	2.9
6	1.7	1.8	7.4	7.1	16	17	14	6.5	6.3	6.8	1.7	2.7
7	1.7	1.7	6.8	6.0	17	15	13	6.0	6.0	6.5	35	2.5
8	1.4	1.7	6.5	6.3	12	13	54	9.8	6.5	6.0	7.2	2.4
9	1.3	1.7	6.5	6.8	11	11	46	7.7	5.7	5.3	1.7	2.5
10	1.2	1.7	6.3	7.1	9.8	11	35	6.8	5.0	5.0	1.2	2.6
11	1.1	1.7	5.7	6.5	9.4	15	24	8.0	5.0	5.0	3.2	3.7
12	1.1	1.7	5.7	6.0	10	18	21	12	4.7	4.4	1.7	3.0
13	2.2	1.7	7.1	5.4	11	15	17	7.4	4.4	4.2	1.1	3.7
14	2.1	1.7	6.0	6.5	9.4	13	15	6.5	4.2	30	8.3	3.0
15	1.4	8.0	5.7	15	8.4	14	13	8.0	8.7	4.2	1.9	2.7
16	1.2	3.5	5.0	35	8.7	17	12	6.3	5.0	3.1	1.3	2.6
17	1.2	2.2	5.3	28	8.0	14	11	200	4.7	2.7	20	2.6
18	1.2	2.1	4.7	30	8.0	13	11	42	4.2	2.4	4.9	2.5
19	1.2	2.0	4.7	48	16	12	10	35	3.9	2.7	3.2	2.4
20	1.1	1.8	7.1	30	12	11	9.4	24	3.9	2.6	2.6	2.9
21	1.1	2.6	6.4	35	12	13	9.1	19	4.7	2.1	2.2	2.7
22	1.1	2.1	5.5	21	30	11	14	16	521	2.1	2.0	2.4
23	1.1	1.8	4.9	50	16	11	11	14	68	2.1	1.9	2.4
24	.98	3.5	7.1	22	14	10	9.1	12	23	2.0	1.9	2.4
25	1.1	49	30	17	12	10	8.7	11	18	1.7	1.8	2.4
26	1.2	24	34	38	12	11	8.4	10	16	1.7	1.8	2.5
27	1.4	24	25	36	14	11	8.0	9.1	14	1.7	1.7	2.8
28	1.7	20	17	23	16	10	7.7	8.7	12	1.7	1.8	12
29	1.8	12	15	19	------	13	7.4	13	11	1.7	4.9	16
30	2.4	10	12	16	------	28	8.7	10	10	1.6	3.3	4.8
31	2.2	------	11	14	------	23	------	10	------	1.4	8.2	------
TOTAL	48.48	195.2	301.7	574.9	347.6	444	483.5	557.5	810.9	154.3	37.1	118.9
MEAN	1.56	6.51	9.73	18.5	12.4	14.3	16.1	18.0	27.0	4.98	4.42	3.96
MAX	2.7	49	34	50	30	28	54	200	521	30	35	16
MIN	.98	1.7	4.7	5.4	8.0	10	7.4	6.0	3.9	1.4	1.1	2.4
CFSM	.17	.71	1.06	2.02	1.35	1.56	1.76	1.97	2.95	.54	.48	.43
IN.	.20	.79	1.23	2.33	1.41	1.80	1.96	2.26	3.29	.63	.56	.48

CAL YR 1973 TOTAL 4,332.68 MEAN 11.9 MAX 153 MIN .98 CFSM 1.30 IN 17.60
WTR YR 1974 TOTAL 4,174.08 MEAN 11.4 MAX 521 MIN .98 CFSM 1.24 IN 16.95

PEAK DISCHARGE (BASE, 180 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0700	4.68	300	07-14	0700	5.84	481
01-26	2100	4.09	181	08-07	2100	5.36	328
05-17	1900	7.96	1,480	08-17	1300	4.74	193
06-22	2000	10.13	3,560				

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, and 4.7 miles (7.6 km) upstream from Bear Creek.

DRAINAGE AREA.--529 mi^2 (1,370 km^2).

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.--46 years, 540 ft^3/s (15.29 m^3/s), 13.86 in/yr (352 mm/yr).

EXTREMES.--Current year: Maximum discharge, 30,700 ft^3/s (869 m^3/s) June 22, gage height, 16.08 ft (4.901 m); minimum daily, 119 ft^3/s (3.37 m^3/s) Oct. 12, 18, 20-22, 26, 27.
Period of record: Maximum discharge, 37,100 ft^3/s (1,050 m^3/s) Jan. 14, 1937, gage height, 16.61 ft (5.063 m); minimum daily 30 ft^3/s (0.85 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	166	389	550	830	946	1,410	473	336	689	167	251
2	158	151	341	491	770	838	1,100	440	301	464	173	242
3	158	140	316	472	706	763	1,090	461	287	389	203	367
4	173	138	326	417	628	734	4,740	420	264	351	183	282
5	146	146	331	389	578	1,590	3,350	385	255	895	176	226
6	127	138	311	383	613	1,400	1,580	375	264	501	170	207
7	124	135	287	367	912	946	1,190	353	255	394	259	193
8	124	130	260	321	741	785	2,670	410	341	346	378	183
9	124	130	251	356	642	706	3,470	448	331	315	196	183
10	124	124	246	362	564	642	4,010	387	326	301	186	179
11	122	124	234	351	537	642	2,760	363	287	296	203	186
12	119	124	230	316	523	692	1,690	477	255	264	193	222
13	130	127	242	287	585	613	1,320	457	238	242	183	203
14	143	124	242	316	592	550	1,080	390	222	418	238	203
15	135	182	230	405	530	549	927	419	356	259	196	189
16	124	179	214	808	504	649	837	395	264	234	186	179
17	122	148	203	2,630	491	636	767	869	242	222	413	176
18	119	140	199	2,930	465	579	715	1,180	222	211	218	173
19	122	140	203	5,810	585	553	675	1,020	214	207	203	167
20	119	140	211	3,940	1,070	516	626	1,020	214	203	183	173
21	119	148	203	3,810	770	550	590	698	238	196	176	170
22	119	143	192	2,130	2,680	513	678	584	5,040	193	173	161
23	122	135	199	2,730	1,990	488	729	528	7,460	193	183	158
24	122	151	211	1,990	1,100	479	616	491	1,550	193	170	161
25	122	823	592	1,280	838	453	550	430	945	186	164	158
26	119	692	2,140	1,260	727	474	521	393	772	183	164	155
27	119	657	2,430	4,350	699	496	492	363	634	179	164	155
28	122	699	1,350	2,320	815	493	467	348	540	176	207	176
29	130	564	912	1,610	------	801	451	393	474	173	230	413
30	143	472	770	1,240	------	2,360	459	405	423	170	238	273
31	151	------	664	998	------	2,550	------	389	------	170	203	------
TOTAL	4,057	7,310	14,929	45,619	22,485	24,986	41,560	15,764	23,550	9,213	6,379	6,164
MEAN	131	244	482	1,472	803	806	1,385	509	785	297	206	205
MAX	173	823	2,430	5,810	2,680	2,550	4,740	1,180	7,460	895	413	413
MIN	119	124	192	287	465	453	451	348	214	170	164	155
CFSM	.25	.46	.91	2.78	1.52	1.52	2.62	.96	1.48	.56	.39	.39
IN.	.29	.51	1.05	3.21	1.58	1.76	2.92	1.11	1.66	.65	.45	.43

CAL YR 1973 TOTAL 245,599 MEAN 673 MAX 7,920 MIN 119 CFSM 1.27 IN 17.27
WTR YR 1974 TOTAL 222,016 MEAN 608 MAX 7,460 MIN 119 CFSM 1.15 IN 15.61

PEAK DISCHARGE (BASE, 6,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	2200	10.45	7,540	06-22	2400	16.08	30,700
04-04	2200	10.74	8,040				

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, and 1.5 miles (2.4 km) upstream from Short Creek.

DRAINAGE AREA.--121 mi^2 (313 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to July 27, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 117 ft^3/s (3.313 m^3/s), 13.13 in/yr (334 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,180 ft^3/s (61.7 m^3/s) Jan. 19, gage height, 5.31 ft (1.618 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 1.

Period of record: Maximum discharge, 15,000 ft^3/s (425 m^3/s) July 20, 1969, gage height, 12.68 ft (3.865 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of contracted-opening measurement of peak flow at stage of 12.44 ft (3.792 m); minimum daily, 1.2 ft^3/s (0.034 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	87	120	160	197	280	95	56	67	14	53
2	21	22	72	103	145	176	265	89	49	40	22	44
3	19	21	65	92	130	152	254	95	45	36	46	107
4	45	20	69	80	117	164	763	81	40	49	31	58
5	21	23	67	77	107	333	339	74	45	39	24	36
6	19	20	56	74	141	234	239	72	44	34	22	30
7	19	20	49	69	244	176	193	67	44	31	20	27
8	19	20	44	69	160	148	517	89	53	28	22	27
9	18	19	42	68	130	130	577	84	44	26	20	26
10	17	19	42	67	110	120	731	72	37	25	18	25
11	17	19	38	65	104	114	694	74	36	28	34	44
12	17	19	39	61	98	114	391	114	36	24	21	45
13	39	19	49	60	127	89	285	92	34	23	31	45
14	24	19	47	61	127	84	229	74	33	85	34	36
15	21	41	43	74	104	95	193	81	51	40	19	30
16	19	26	39	239	98	110	168	67	36	27	19	26
17	18	22	35	671	92	101	148	270	33	24	80	26
18	19	21	33	571	84	92	137	244	31	21	23	24
19	19	21	34	1,380	148	87	134	191	31	22	19	25
20	19	20	40	571	220	76	124	137	31	21	18	25
21	19	25	38	705	168	92	117	107	37	18	18	23
22	20	20	36	391	648	81	152	95	121	17	17	22
23	21	20	35	523	339	81	160	95	301	21	17	21
24	19	31	40	344	211	79	124	87	148	19	18	20
25	19	239	280	244	160	69	107	72	84	18	18	20
26	19	168	615	270	137	79	101	65	67	18	17	21
27	19	215	648	736	130	87	95	61	56	17	27	22
28	19	244	327	361	184	84	92	58	47	16	58	61
29	23	164	225	290	------	360	89	79	44	15	96	70
30	22	117	197	229	------	550	95	74	90	15	47	36
31	33	------	152	193	------	438	------	65	------	15	31	------
TOTAL	673	1,679	3,583	8,858	4,623	4,792	7,793	3,020	1,804	879	901	1,075
MEAN	21.7	56.0	116	286	165	155	260	97.4	60.1	28.4	29.1	35.8
MAX	45	244	648	1,380	648	550	763	270	301	85	96	107
MIN	17	19	33	60	84	69	89	58	31	15	14	20
CFSM	.18	.46	.96	2.36	1.36	1.28	2.15	.81	.50	.23	.24	.30
IN.	.21	.52	1.10	2.72	1.42	1.47	2.40	.93	.55	.27	.28	.33

CAL YR 1973 TOTAL 48,670 MEAN 133 MAX 1,610 MIN 17 CFSM 1.10 IN 14.96
WTR YR 1974 TOTAL 39,680 MEAN 109 MAX 1,380 MIN 14 CFSM .90 IN 12.20

PEAK DISCHARGE (BASE, 2,000 FT^3/S).--Jan. 19 (1100) 2,180 ft^3/s (5.31 ft).

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, Union County, at downstream side of center pier of bridge on county road at Abington, 3 miles (5 km) downstream from Elkhorn Creek, and 8 miles (13 km) southwest of Richmond.

DRAINAGE AREA.--200 mi^2 (518 km^2).

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.--9 years, 230 ft^3/s (6.514 m^3/s), 15.62 in/yr (397 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	75	132	242	297	341	517	178	119	333	39	99
2	56	51	107	205	274	324	506	168	104	137	55	84
3	47	48	98	199	237	282	501	185	100	107	119	292
4	80	44	112	175	211	304	1,220	155	95	119	71	132
5	52	51	108	159	192	573	597	139	99	110	53	84
6	42	45	88	156	264	453	427	139	104	91	48	69
7	40	44	76	145	466	341	343	128	93	83	44	60
8	41	45	70	124	297	283	1,160	178	134	81	49	56
9	41	44	67	147	234	252	1,280	168	98	75	45	55
10	40	42	68	151	199	232	1,390	142	91	71	42	53
11	40	40	60	138	189	222	1,260	136	86	72	65	84
12	39	41	61	116	181	240	725	234	84	65	52	125
13	73	42	78	125	215	195	528	182	79	60	48	90
14	62	42	78	121	218	182	427	152	76	186	112	76
15	48	86	69	185	185	189	348	172	109	106	51	61
16	42	75	64	586	176	242	303	139	81	73	44	57
17	40	55	56	1,240	165	203	265	1,260	78	62	187	55
18	40	50	54	1,090	156	189	242	801	74	58	62	52
19	40	49	56	2,880	249	182	226	733	74	57	51	50
20	40	47	65	1,150	364	161	203	439	74	55	44	51
21	38	57	63	1,420	274	211	192	291	81	48	41	49
22	39	50	60	745	1,080	178	273	240	1,470	47	38	45
23	43	46	58	1,300	645	168	278	220	1,360	51	43	44
24	40	66	69	723	404	168	226	210	446	52	41	43
25	39	602	560	493	302	158	199	162	274	49	37	42
26	39	387	1,120	573	256	172	189	143	226	47	36	42
27	38	374	1,200	1,530	253	182	175	132	169	46	38	46
28	41	464	597	701	328	178	168	127	136	41	123	80
29	44	271	444	539	------	495	165	155	123	41	177	276
30	52	178	379	431	------	973	178	155	258	40	97	96
31	52	------	312	357	------	821	------	136	------	40	66	------
TOTAL	1,426	3,511	6,429	18,146	8,311	9,094	14,511	7,799	6,395	2,503	2,018	2,448
MEAN	46.0	117	207	585	297	293	484	252	213	80.7	65.1	81.6
MAX	80	602	1,200	2,880	1,080	973	1,390	1,260	1,470	333	187	292
MIN	38	40	54	116	156	158	165	127	74	40	36	42
CFSM	.23	.59	1.04	2.93	1.49	1.47	2.42	1.26	1.07	.40	.33	.41
IN.	.27	.65	1.20	3.38	1.55	1.69	2.70	1.45	1.19	.47	.38	.46

CAL YR 1973 TOTAL 96,806 MEAN 265 MAX 3,500 MIN 38 CFSM 1.33 IN 18.01
WTR YR 1974 TOTAL 82,591 MEAN 226 MAX 2,880 MIN 36 CFSM 1.13 IN 15.36

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	1100	9.39	4,080	06-22	2100	11.80	6,960
05-17	1900	10.85	5,810				

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

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 6,960 ft^3/s (197 m^3/s) June 22, gage height, 11.80 ft (3.597 m); minimum daily, 36 ft^3/s (1.02 m^3/s) Aug. 26.

Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) July 20, 1969, gage height, 16.18 ft (4.932 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Aug. 8, Sept. 12, 1966.

WATER TEMPERATURE, Current year: Maximum temperature, 25.0°C Aug. 28; minimum observed, freezing point Jan. 12-14, Feb. 25, 26.

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 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
30...	0935	11.0	48	10	766	7.5	17	274	334	0
DEC.										
04...	0940	10.0	88	5	660	7.7	10	269	328	0
JAN.										
09...	1600	3.0	148	10	700	8.2	3.4	274	334	0
FEB.										
08...	1315	2.0	296	5	631	7.6	12	243	296	0
MAR.										
14...	1130	6.0	175	6	677	8.1	4.0	261	318	0
APR.										
17...	1430	12.5	263	7	616	8.2	3.1	251	306	0
MAY										
17...	1100	24.5	127	7	680	7.6	13	259	316	--
JUNE										
19...	1915	19.0	77	7	700	8.3	2.7	271	331	--
JULY										
25...	1700	23.0	49	10	710	8.1	4.1	264	322	--
SEP.										
06...	1800	18.0	69	0	700	7.9	6.3	258	315	0

DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.										
30...	--	4.0	--	--	.91	--	350	73	110	17
DEC.										
04...	.10	2.6	2.7	--	.37	--	360	91	83	37
JAN.										
09...	.01	3.6	3.6	--	.29	--	350	74	80	36
FEB.										
08...	.01	3.7	3.7	--	.17	--	320	78	84	27
MAR.										
14...	.03	3.2	3.2	--	.17	--	340	77	84	31
APR.										
17...	.02	2.9	2.9	.31	.16	.10	320	64	80	28
MAY										
17...	.26	1.6	1.9	.80	.34	.26	330	67	78	32
JUNE										
19...	.32	1.9	2.2	1.5	.56	.48	330	60	85	29
JULY										
25...	.31	2.2	2.5	1.1	.41	.37	350	84	85	33
SEP.										
06...	.14	2.0	2.1	1.3	.48	.43	300	42	74	28

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.										
30...	34	.8	17	5.2	50	65	.8	8.2	1100	10
DEC.										
04...	21	.5	11	.8	30	58	.4	7.6	2900	100
JAN.										
09...	18	.4	10	5.7	29	59	.2	7.3	150	50
FEB.										
08...	12	.3	7	2.3	24	48	.4	7.8	350	20
MAR.										
14...	15	.4	9	2.6	25	55	.4	4.0	250	50
APR.										
17...	12	.3	8	1.7	20	53	.4	4.6	10	10
MAY										
17...	25	.6	14	3.2	31	58	1.2	3.1	330	40
JUNE										
19...	24	.6	13	3.3	36	54	.9	7.4	310	0
JULY										
25...	30	.7	16	4.4	46	61	2.0	7.5	250	10
SEP.										
06...	24	.6	15	3.6	35	54	1.0	8.8	510	30

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.									
30...	--	67	21	477	475	61.8	.65	18	--
DEC.									
04...	14	57	43	421	412	100	.57	12	.33
JAN.									
09...	17	50	33	442	416	177	.60	16	.03
FEB.									
08...	80	100	20	389	368	311	.53	16	.03
MAR.									
14...	0	30	50	473	388	223	.64	14	.10
APR.									
17...	0	0	71	377	364	268	.51	13	.07
MAY									
17...	17	67	50	448	397	154	.61	7.3	.85
JUNE									
19...	4	75	71	484	414	101	.66	8.3	1.1
JULY									
25...	36	98	62	502	440	66.4	.68	9.7	1.0
SEP.									
06...	50	100	50	426	394	79.4	.58	8.7	.46

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

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.0	11.5	11.0	9.0	7.0	3.0	1.5	5.5	3.0	6.5	3.5
2	20.5	19.5	11.5	10.5	8.5	6.5	3.0	1.0	5.0	4.0	10.5	6.5
3	19.5	18.5	11.5	11.0	10.0	7.5	1.5	0.5	4.0	3.0	13.0	9.0
4	19.5	18.5	11.0	9.5	11.5	10.0	2.0	1.0	3.5	1.5	13.0	11.0
5	19.5	16.0	10.5	9.5	11.5	8.0	2.0	1.5	2.0	1.0	13.0	9.5
6	17.0	16.0	9.5	7.5	8.0	6.0	3.0	1.0	3.0	1.5	12.5	8.5
7	19.0	17.0	8.5	7.0	6.0	5.5	3.0	2.0	2.5	1.0	14.5	11.0
8	19.5	18.5	8.5	7.5	6.5	5.5	3.0	2.5	2.0	0.5	15.5	12.0
9	20.5	19.0	8.5	6.5	5.5	4.5	3.0	1.0	1.5	0.5	15.5	13.0
10	19.5	18.5	6.5	6.0	5.0	4.5	1.0	0.5	1.0	0.5	15.5	11.0
11	19.5	18.0	6.5	5.5	4.5	4.0	1.5	1.0	1.5	1.0	11.0	8.5
12	19.5	18.0	8.0	6.5	4.0	2.0	1.0	0.0	4.0	1.0	9.0	7.0
13	18.5	17.0	10.5	8.0	4.0	2.5	0.5	0.0	5.5	2.5	8.0	5.0
14	18.0	16.5	13.5	10.5	6.0	4.0	1.5	0.0	5.5	3.0	8.5	5.0
15	18.0	16.0	14.0	13.0	6.0	4.5	3.5	1.5	3.0	1.0	8.0	7.0
16	16.5	13.5	13.0	8.5	4.5	3.5	2.0	1.5	4.0	1.5	8.0	6.0
17	14.0	13.0	8.5	7.0	4.0	3.0	3.0	1.5	4.0	2.0	6.0	5.5
18	14.5	13.0	9.5	7.5	3.0	2.0	5.5	3.0	5.5	2.0	8.5	5.5
19	14.0	12.5	11.0	9.5	3.0	1.5	6.5	5.5	5.5	4.5	8.5	8.0
20	15.0	13.5	11.5	10.5	3.5	3.0	7.5	5.5	5.5	3.0	10.5	6.5
21	14.0	13.0	12.0	11.5	4.0	3.0	7.5	5.5	6.5	3.0	10.0	6.5
22	13.5	12.0	11.5	10.5	3.0	1.5	8.0	5.5	6.5	3.5	9.0	5.0
23	14.0	12.5	11.0	10.0	2.0	1.0	8.0	4.5	4.5	2.0	8.5	5.0
24	14.5	13.0	13.0	11.0	3.0	1.5	5.5	4.0	3.5	1.0	5.5	3.0
25	15.0	13.5	13.0	11.0	4.5	3.0	5.5	3.0	1.5	0.0	6.0	3.0
26	15.0	14.0	11.0	10.0	6.0	3.5	8.0	3.5	2.0	0.0	8.5	5.0
27	14.0	13.0	13.5	11.0	6.5	6.0	8.0	6.0	4.5	1.0	9.5	6.5
28	14.0	13.0	13.0	9.0	7.0	5.5	6.0	5.5	6.0	4.0	11.5	8.5
29	13.0	11.0	9.0	8.0	5.5	4.0	6.5	5.0	---	---	11.5	10.5
30	12.0	11.0	9.5	7.0	5.0	4.5	6.5	4.0	---	---	10.5	7.0
31	12.0	11.5	---	---	5.0	2.0	6.5	5.0	---	---	10.5	6.5
MONTH	21.0	11.0	14.0	5.5	11.5	1.0	8.0	0.0	6.5	0.0	15.5	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	8.5	18.0	14.5	19.5	18.0	20.5	19.0	22.5	21.5	24.0	23.5
2	14.0	10.5	17.0	15.0	19.0	16.5	21.5	19.5	23.0	22.5	23.5	22.0
3	14.0	10.5	16.0	14.5	19.0	18.0	22.5	21.0	23.0	22.0	22.0	19.0
4	14.0	11.5	16.0	13.0	19.5	18.5	22.5	22.0	22.5	22.0	19.5	18.5
5	11.5	9.0	16.5	14.0	19.5	19.5	22.5	21.5	22.0	21.5	19.0	18.5
6	13.0	8.0	16.5	14.0	20.5	19.5	22.0	21.5	22.0	21.5	19.5	19.0
7	11.5	9.0	15.0	11.5	21.0	20.5	23.0	22.0	23.0	22.0	20.5	19.5
8	11.0	4.5	14.5	13.0	21.0	20.5	23.5	22.5	23.0	23.0	21.0	20.5
9	10.0	4.5	13.0	12.0	21.5	20.5	24.0	23.5	23.5	23.0	21.5	21.0
10	12.0	6.5	16.0	11.5	21.5	21.0	24.0	23.5	24.0	23.5	21.5	21.5
11	13.0	9.0	18.0	14.0	21.0	19.5	23.5	23.0	23.5	23.5	22.0	21.5
12	14.0	10.5	18.0	16.0	19.5	18.0	23.5	21.5	24.0	23.5	23.0	22.0
13	16.0	11.5	16.5	14.0	19.0	18.0	22.5	21.5	24.0	24.0	23.0	21.5
14	16.5	13.0	19.0	15.0	19.0	18.5	23.0	22.0	24.5	24.0	21.5	19.5
15	13.0	9.5	19.5	17.5	19.5	18.5	23.5	23.0	24.5	24.0	19.5	18.0
16	14.0	8.0	20.5	17.5	19.5	18.0	23.5	23.0	24.5	24.5	18.5	18.0
17	15.0	9.5	21.0	19.5	18.0	17.0	23.0	22.0	24.5	24.0	19.0	18.0
18	15.0	10.5	19.5	18.0	18.0	16.5	23.5	22.5	24.5	24.0	19.5	19.0
19	16.0	12.0	18.0	15.5	18.5	18.0	24.0	23.5	24.5	24.0	19.5	19.5
20	17.0	11.0	21.0	15.5	20.5	18.5	24.0	23.5	24.5	24.0	20.5	19.5
21	15.5	14.0	21.5	18.0	21.0	20.0	24.0	23.0	24.5	24.0	20.5	19.5
22	15.5	14.0	21.0	19.0	21.0	19.5	23.0	22.0	24.5	24.5	19.5	17.0
23	14.0	10.5	22.0	18.0	19.5	18.5	22.5	22.0	24.5	24.5	17.0	15.5
24	14.5	9.5	21.0	18.5	19.0	17.0	23.0	21.5	24.5	24.0	15.5	14.0
25	14.0	10.5	19.5	17.0	18.5	17.0	23.0	22.0	24.5	24.0	16.5	15.0
26	17.0	11.5	18.5	15.0	19.0	16.0	23.0	23.0	24.5	24.0	16.0	15.5
27	18.0	14.0	19.0	15.5	20.0	16.5	24.0	23.0	24.5	24.5	16.0	16.0
28	19.0	16.5	18.0	15.5	19.5	18.0	24.0	24.0	25.0	24.5	17.5	16.0
29	19.5	16.5	18.5	16.5	19.5	17.5	24.0	23.5	24.5	24.0	17.5	16.0
30	19.0	16.5	19.0	17.0	20.0	19.0	23.5	23.0	24.5	23.5	16.0	14.0
31	---	---	19.5	18.0	---	---	23.0	22.0	24.0	23.0	---	---
MONTH	19.5	4.5	22.0	11.5	21.5	16.0	24.0	19.0	25.0	21.5	24.0	14.0

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^2 (984 km^2).

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

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.--20 years, 374 ft^3/s (10.59 m^3/s), 13.37 in/yr (340 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,040 ft^3/s (114 m^3/s) Apr. 8, gage height, 6.99 ft (2.131 m); minimum daily, 15 ft^3/s (0.43 m^3/s) Feb. 25.
Period of record: Maximum discharge, 36,100 ft^3/s (1,020 m^3/s) Jan. 21, 1959; maximum gage height, 17.35 ft (5.288 m) May 24, 1968; minimum daily discharge, 15 ft^3/s (0.43 m^3/s) Feb. 25, 1974.

REMARKS.--Records fair. Flow regulated by Brookville Lake since January 1974.

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

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	78	95	411	346	113	34	48	45	40	43	43	83
2	93	95	350	332	113	32	41	64	40	43	43	39
3	83	81	320	328	113	31	37	64	40	43	45	1,370
4	149	77	315	328	83	31	37	64	41	45	44	1,290
5	149	75	346	328	56	33	37	64	41	44	43	38
6	93	77	337	315	35	32	37	63	41	43	44	37
7	85	71	275	263	26	32	37	63	41	43	43	37
8	83	69	216	219	25	32	1,570	65	41	43	42	37
9	77	69	195	233	24	32	2,450	64	41	43	43	37
10	72	67	186	253	23	32	262	64	41	43	43	47
11	71	65	162	247	22	39	36	64	41	43	43	64
12	68	64	157	237	21	36	37	64	41	43	43	74
13	69	64	202	237	21	34	36	63	41	43	43	62
14	103	63	223	236	21	34	36	62	41	43	43	193
15	86	109	202	528	21	34	36	62	46	43	42	267
16	77	180	192	994	21	34	36	62	42	43	42	175
17	71	109	189	1,770	20	34	36	67	42	43	46	138
18	69	95	186	1,650	19	34	36	45	41	44	46	180
19	69	86	183	2,610	21	34	36	48	41	45	42	225
20	68	81	216	2,930	17	34	36	45	41	44	42	235
21	68	83	219	2,800	19	38	37	43	42	43	41	345
22	67	90	219	1,060	28	35	38	45	100	44	41	345
23	68	81	219	99	18	35	37	40	47	44	43	187
24	69	171	226	94	17	35	37	40	41	43	36	219
25	65	811	1,060	97	15	35	37	40	42	43	34	216
26	64	1,040	1,490	107	29	35	37	40	42	44	26	208
27	62	1,050	1,910	108	35	35	37	40	42	43	32	270
28	62	1,310	1,410	110	35	36	37	40	42	44	48	324
29	63	759	802	111	------	49	38	41	42	44	68	325
30	69	522	609	111	------	43	42	41	43	43	39	324
31	74	------	422	112	------	37	------	41	------	43	72	------
TOTAL	2,444	7,609	13,449	19,193	1,011	1,081	5,294	1,653	1,307	1,345	1,345	7,391
MEAN	78.8	254	434	619	36.1	34.9	176	53.3	43.6	43.4	43.4	246
MAX	149	1,310	1,910	2,930	113	49	2,450	67	100	45	72	1,370
MIN	62	63	157	94	15	31	36	40	40	43	26	37

CAL YR 1973 TOTAL 187,865 MEAN 515 MAX 5,000 MIN 62
WTR YR 1974 TOTAL 63,122 MEAN 173 MAX 2,930 MIN 15

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, and 1.1 miles (1.8 km) south of Brookville.

DRAINAGE AREA.--1,224 mi^2 (3,170 km^2).

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.--53 years (1915-17, 1923 to current year), 1,260 ft^3/s (35.68 m^3/s), 13.98 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,500 ft^3/s (524 m^3/s) June 23, gage height, 12.38 ft (3.773 m); minimum daily, 227 ft^3/s (6.43 m^3/s) Oct. 27.

Period of record: Maximum discharge, 81,800 ft^3/s (2,317 m^3/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 ft^3/s (1,270 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 ft^3/s (1.70 m^3/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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	315	1,110	1,570	1,620	1,520	2,390	1,120	950	887	258	4,820
2	304	319	926	1,200	1,540	1,520	3,340	850	682	848	258	1,120
3	282	286	818	1,290	1,420	1,370	2,060	991	578	675	345	3,970
4	371	268	796	1,100	1,210	1,220	3,520	839	529	616	340	1,860
5	455	271	942	966	1,010	1,730	4,740	739	500	1,130	297	722
6	301	271	818	966	1,110	2,210	2,430	688	529	958	271	579
7	271	261	703	910	2,210	1,630	1,950	639	475	689	273	505
8	264	258	635	724	1,490	1,360	7,280	762	629	597	519	459
9	258	255	591	833	1,170	1,180	8,210	1,460	554	535	343	429
10	255	249	572	934	974	1,050	4,800	919	554	506	293	426
11	249	245	512	958	894	1,350	3,430	777	500	480	287	719
12	242	242	506	788	848	1,860	2,590	976	450	465	298	1,720
13	245	242	541	668	879	1,390	2,160	929	417	450	278	799
14	297	242	591	767	902	1,090	1,850	772	393	696	323	843
15	282	353	535	1,720	825	999	1,600	781	703	616	330	717
16	258	675	500	2,870	759	1,310	1,410	757	529	455	286	565
17	245	393	441	4,320	724	1,200	1,260	1,470	446	403	783	505
18	239	332	436	5,090	682	1,050	1,130	4,460	412	371	478	531
19	236	308	441	8,880	887	966	1,030	4,170	393	362	575	562
20	236	293	578	7,930	1,580	887	962	3,120	384	345	347	725
21	233	297	603	7,860	1,310	1,370	897	1,650	389	336	298	824
22	233	336	460	4,340	3,060	1,150	1,140	1,290	1,920	323	280	721
23	233	308	506	3,400	3,060	958	1,330	1,170	12,800	319	271	525
24	230	767	668	2,970	1,920	902	1,010	955	3,060	308	321	522
25	233	3,280	2,890	2,230	1,520	848	883	814	1,840	304	263	507
26	230	3,020	3,980	2,440	1,250	902	825	719	1,610	301	250	494
27	227	3,020	5,210	5,520	1,220	879	775	653	1,340	289	259	546
28	230	3,860	3,550	3,350	1,440	871	730	599	1,020	286	754	621
29	233	2,010	2,550	2,630	------	879	697	986	926	278	1,670	1,210
30	249	1,430	2,330	2,210	------	3,290	872	1,370	788	278	960	957
31	268	------	1,920	1,880	------	3,310	------	1,200	------	264	1,320	------
TOTAL	8,160	24,406	37,659	83,314	37,514	42,251	67,301	38,625	36,300	15,370	13,828	29,503
MEAN	263	814	1,215	2,688	1,340	1,363	2,243	1,246	1,210	496	446	983
MAX	455	3,860	5,210	8,880	3,060	3,310	8,210	4,460	12,800	1,130	1,670	4,820
MIN	227	242	436	668	682	848	697	599	384	264	250	426
CFSM	.21	.67	.99	2.20	1.09	1.11	1.83	1.02	.99	.41	.36	.80
IN.	.25	.74	1.14	2.53	1.14	1.28	2.05	1.17	1.10	.47	.42	.90

CAL YP 1973 TOTAL 597,785 MEAN 1,638 MAX 14,300 MIN 227 CFSM 1.34 IN 18.17
WTR YR 1974 TOTAL 434,231 MEAN 1,190 MAX 12,800 MIN 227 CFSM .97 IN 13.20

PEAK DISCHARGE (BASE, 12,000 FT^3/S).--Apr. 8 (2000) 16,300 ft^3/s (11.43 ft); June 23 (1400) 18,5000 ft^3/s (12.38 ft).

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^2 (98.7 km^2).

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.--13 years, 39.6 ft^3/s (1.121 m^3/s), 14.11 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,210 ft^3/s (119 m^3/s) Apr. 1, gage height, 8.27 ft (2.521 m); minimum daily, 0.02 ft^3/s (0.006 m^3/s) Aug. 1, 2.
Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/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^3/s (462 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	9.0	22	27	33	39	516	60	66	3.4	.02	55
2	14	6.4	18	26	30	86	523	139	30	2.8	.02	39
3	6.4	4.2	16	21	30	52	338	164	20	2.0	.73	191
4	6.4	3.1	28	18	23	38	505	53	14	2.6	3.9	47
5	52	5.6	39	17	19	77	90	34	13	9.9	2.5	19
6	7.5	6.4	23	15	27	52	62	26	24	10	1.3	10
7	3.6	4.4	17	14	108	40	45	20	12	3.8	.73	7.3
8	5.2	3.6	15	13	42	33	608	21	9.0	2.5	.52	5.6
9	4.4	3.4	13	19	29	28	154	22	8.3	1.8	.30	4.6
10	2.6	2.8	13	44	24	32	73	18	6.6	2.1	.21	27
11	1.4	2.8	9.6	50	21	255	52	15	5.0	2.8	.29	54
12	1.1	2.3	9.9	30	19	341	42	15	4.6	3.2	.30	570
13	1.1	2.1	11	32	20	108	35	13	3.6	2.1	.22	96
14	1.5	2.0	13	24	18	61	29	11	2.9	1.4	.15	64
15	1.5	6.1	11	260	15	51	22	13	5.6	.98	.11	29
16	1.5	13	9.9	196	14	96	20	12	7.7	.85	.09	19
17	1.1	6.6	7.5	130	13	59	16	59	4.0	.85	1.4	14
18	.73	5.2	7.5	146	12	51	15	74	2.8	.85	7.1	11
19	.63	4.4	7.2	152	83	41	13	604	1.8	.52	36	8.4
20	.63	3.4	121	255	58	33	12	148	1.7	.52	7.7	7.0
21	.63	4.4	55	288	42	88	11	53	1.4	.42	3.0	7.1
22	.63	5.6	35	88	344	51	48	35	74	.33	1.6	6.5
23	.52	5.0	22	258	95	39	58	35	190	.26	.94	5.1
24	.52	44	26	96	55	35	25	24	30	.21	.68	4.4
25	.52	333	102	57	39	36	19	16	14	.15	1.4	4.1
26	.63	330	168	123	37	35	16	13	8.6	.20	.67	3.7
27	.63	278	141	217	38	30	14	11	6.1	.25	.38	3.7
28	.98	302	60	181	57	27	12	9.3	5.0	.14	53	33
29	1.1	57	88	102	------	26	11	14	5.9	.08	55	274
30	1.5	32	72	59	------	71	37	102	4.6	.04	32	48
31	2.8	------	39	44	------	65	------	201	------	.03	12	------
TOTAL	131.45	1,487.8	1,219.6	3,002	1,345	2,076	3,421	2,034.3	582.2	57.08	224.26	1,667.5
MEAN	4.24	49.6	39.3	96.8	48.0	67.0	114	65.6	19.4	1.84	7.23	55.6
MAX	52	333	168	288	344	341	608	604	190	10	55	570
MIN	.52	2.0	7.2	13	12	26	11	9.3	1.4	.03	.02	3.7
CFSM	.11	1.30	1.03	2.54	1.26	1.76	2.[illegible]	1.72	.51	.05	.19	1.46
IN.	.13	1.45	1.19	2.93	1.31	2.03	3.34	1.99	.57	.06	.22	1.63

CAL YR 1973 TOTAL 21,512.54 MEAN 58.9 MAX 1,190 MIN .01 CFSM 1.55 IN 21.00
WTR YR 1974 TOTAL 17,248.19 MEAN 47.3 MAX 608 MIN .02 CFSM 1.24 IN 16.84

PEAK DISCHARGE (BASE, 2,500 FT^3/S).--Apr. 1 (2115) 4,210 ft^3/s (8.27 ft).

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
25...	1030	14.5	.63	470	11.6	113	7.7	6.8	176	214	0
NOV.											
13...	1340	7.5	2.9	570	13.8	115	8.2	2.4	192	234	0
DEC.											
18...	1100	.0	7.2	600	18.2	--	8.0	4.6	235	287	--
JAN.											
09...	1100	1.0	18	595	--	--	8.3	2.2	222	271	0
FEB.											
07...	1530	3.0	82	372	--	--	7.8	3.8	124	151	0
MAR.											
13...	1400	8.0	91	398	--	--	8.0	2.7	136	166	0
APR.											
17...	1030	11.0	17	500	13.2	--	8.3	1.8	189	230	0
MAY											
16...	1650	24.0	11	480	7.8	--	8.0	3.4	174	212	--
JUNE											
19...	1430	22.0	1.9	440	9.0	--	7.8	5.1	166	202	0
JULY											
25...	1200	26.0	.14	430	8.7	--	7.7	5.9	152	185	--
SEP.											
06...	1245	17.5	11	420	9.1	--	8.1	2.4	157	192	0

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.											
25..	--	.14	250	75	82	11	14	.4	11	4.7	20
NOV.											
13...	--	.06	270	81	88	13	20	.5	13	4.7	24
DEC.											
18...	1.1	.00	320	88	100	18	20	.5	12	4.9	16
JAN.											
09...	1.1	.04	290	68	80	22	14	.4	9	4.2	17
FEB.											
07...	.20	.02	180	55	55	10	8.4	.3	9	2.5	12
MAR.											
13...	1.0	.12	190	52	60	9.3	6.8	.2	7	2.5	12
APR.											
17...	.19	.03	250	59	76	14	9.6	.3	8	1.2	9.0
MAY											
16...	.01	.03	240	70	73	15	12	.3	10	2.3	12
JUNE											
19...	.02	.02	230	59	67	14	14	.4	12	2.6	16
JULY											
25...	.06	.04	200	48	60	12	13	.4	12	4.3	14
SEP.											
06...	.49	.14	200	43	62	11	10	.3	10	3.6	13

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

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 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)
OCT.										
25...	73	.2	2.0	1200	--	--	336	312	.57	.46
NOV.										
13...	89	.4	1.7	180	011	028	352	356	1.62	.48
DEC.										
18...	80	.3	12	--	--	--	433	393	8.48	.59
JAN.										
09...	76	.1	5.6	8200	--	8110	392	353	18.8	.53
FEB.										
07...	44	.3	6.6	4200	--	83100	230	213	50.9	.31
MAR.										
13...	48	.2	7.2	4600	--	1600	249	228	61.2	.34
APR.										
17...	65	.3	2.1	838	83	28	296	291	13.6	.40
MAY										
16...	65	.2	.7	750	46	82	384	285	11.4	.52
JUNE										
19...	50	.4	1.4	890	35	75	346	265	1.77	.47
JULY										
25...	46	1.9	4.8	14000	30	530	302	247	.11	.41
SEP.										
06...	42	.6	8.3	6000	330	260	267	245	7.93	.36

DATE	TIME	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.							
25...	1030	5	.02	--	40	.10	.43
NOV.							
13...	1340	10	.01	40	89	.10	.19

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)
OCT.											
25...	1030	350	2	7.7	.5	.03	.51	4.8	<.4	6.2	.4

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

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)	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.								
13...	1340	7.5	2.9	15	.12	--	--	--
27...	1710	13.0	121	94	31	45	53	58
DEC.								
18...	1205	.0	7.2	40	.78	--	--	--
JAN.								
09...	1100	1.0	18	21	1.0	--	--	--
FEB.								
07...	1530	3.0	82	143	32	74	85	95
MAR.								
13...	1400	8.0	91	40	9.8	--	--	--
APR.								
17...	1040	11.0	17	28	1.3	--	--	--
MAY								
16...	1650	24.0	11	7	.21	--	--	--
JUNE								
19...	1430	22.0	1.9	9	.05	--	--	--
JULY								
25...	1200	26.0	.14	7	<.01	--	--	--
SEP.								
06...	1240	17.5	11	27	.80	--	--	--

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.							
13...	--	--	--	--	--	--	--
27...	68	72	74	75	76	79	100
DEC.							
18...	--	--	-	--	--	--	--
JAN.							
09...	--	--	--	--	--	--	--
FEB.							
07...	97	98	99	100	--	--	--
MAR.							
13...	--	--	--	--	--	--	--
APR.							
17...	--	--	--	--	--	--	--
MAY							
16...	--	--	--	--	--	--	--
JUNE							
19...	--	--	--	--	--	--	--
JULY							
25...	--	--	--	--	--	--	--
SEP.							
06...	--	--	--	--	--	--	--

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, and 2.0 miles (3.2 km) northeast of Canaan.

DRAINAGE AREA.--27.5 mi^2 (71.2 km^2).

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.--5 years, 28.3 ft^3/s (0.801 m^3/s), 13.98 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,780 ft^3/s (78.7 m^3/s) Apr. 1, gage height, 7.13 ft (2.173 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s); minimum daily, 0.02 ft^3/s (0.0006 m^3/s) July 30 to Aug. 1.
Period of record: Maximum discharge, 3,210 ft^3/s (90.9 m^3/s) Feb. 22, 1971, gage height, 11.02 ft (3.359 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s); no flow for many days in 1970, 1972.

REMARKS.--Records good.

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	.30	3.2	16	24	31	32	144	22	105	1.2	.02	67
2	1.8	2.0	12	19	30	75	284	60	47	.85	.09	134
3	.82	1.2	10	18	24	48	177	98	29	.64	7.3	154
4	.61	.94	17	15	19	36	179	41	20	.52	8.3	50
5	1.8	.94	22	13	17	53	83	29	13	.47	1.5	23
6	1.1	1.1	14	12	21	72	58	23	11	1.8	.64	13
7	.75	1.1	11	11	39	61	44	17	7.9	1.4	.37	9.0
8	.61	.94	9.4	11	25	43	325	21	7.3	3.4	.26	6.9
9	.50	.85	8.6	14	21	35	131	25	7.6	1.2	.26	5.1
10	.40	.70	7.9	49	19	69	75	18	4.9	.64	.26	43
11	.35	.70	6.9	63	16	206	53	16	4.9	2.5	.33	40
12	.30	.64	5.7	34	14	318	43	16	4.4	1.0	.26	310
13	.35	.58	7.9	27	14	137	34	12	3.7	.52	.14	82
14	.40	.58	8.3	24	12	78	28	11	3.2	.29	.10	52
15	.30	7.9	6.6	144	10	62	22	27	3.2	21	.07	27
16	.30	7.6	5.7	138	11	107	19	16	3.2	16	.05	19
17	.26	3.2	5.2	101	9.4	67	16	84	2.7	2.5	17	13
18	.22	2.2	5.0	84	9.0	57	14	83	2.2	1.2	42	9.8
19	.18	1.8	11	104	50	45	13	37	2.1	.85	79	7.9
20	.18	1.6	62	137	39	34	11	26	2.0	.58	6.3	6.9
21	.18	2.1	37	166	31	61	10	19	1.6	.37	2.7	7.6
22	.15	2.5	27	74	245	39	69	16	70	.29	1.6	5.4
23	.15	2.1	19	175	86	33	44	15	9.4	.26	.94	4.0
24	.15	11	22	90	54	29	25	13	5.1	.17	.64	3.5
25	.15	128	61	56	35	28	19	8.6	3.4	.12	.47	3.2
26	.12	152	79	104	31	27	17	6.9	2.5	.09	.33	3.0
27	.15	119	75	135	30	23	14	6.0	2.1	.06	.29	3.0
28	.15	134	41	138	41	22	12	5.1	2.0	.05	134	35
29	.15	39	81	91	------	23	11	78	2.7	.03	39	170
30	.18	23	61	58	------	30	13	198	2.1	.02	63	43
31	.35	------	38	42	------	34	------	366	------	.02	14	------
TOTAL	13.41	652.47	793.2	2,171	983.4	1,984	1,987	1,413.6	385.2	60.04	421.22	1,350.3
MEAN	.43	21.7	25.6	70.0	35.1	64.0	66.2	45.6	12.8	1.94	13.6	45.0
MAX	1.8	152	81	175	245	318	325	366	105	21	134	310
MIN	.12	.58	5.0	11	9.0	22	10	5.1	1.6	.02	.02	3.0
CFSM	.02	.79	.93	2.55	1.28	2.33	2.41	1.66	.47	.07	.49	1.64
IN.	.02	.88	1.07	2.94	1.33	2.68	2.69	1.91	.52	.08	.57	1.83

CAL YR 1973 TOTAL 12,232.51 MEAN 33.5 MAX 360 MIN .01 CFSM 1.22 IN 16.55
WTR YR 1974 TOTAL 12,214.84 MEAN 33.5 MAX 366 MIN .02 CFSM 1.22 IN 16.52

PEAK DISCHARGE (BASE, 600 FT^3/S, revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1215	4.98	657	05-30	0245	5.25	834	08-18	2245	5.99	1,440
11-27	2315	4.90	608	05-31	1230	5.81	1,280	09-12	1000	5.47	1,000
03-11	1500	5.47	1,000	06-22	0245	5.03	688	09-29	0145	4.98	657
04-01	2315	7.13	2,780								

03293800 Deam Lake near Sellersburg, Ind.

LOCATION.--Lat 38°27'50", long 85°51'30", in NE¼NW¼ sec.4, T.1 S., R.6 E., Clark County, in intake tower of reservoir on Big Run, 1 mile (1.6 km) above mouth, and 7.2 miles (11.6 km) northwest of Sellersburg.

DRAINAGE AREA.--3.74 mi^2 (9.68 km^2).

PERIOD OF RECORD.--January 1965 to September 1974 (discontinued)

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.--Current year: Maximum contents, 3,298 acre-ft (4.07 hm^3) May 31, June 1, gage height, 37.22 ft (11.345 m); minimum, 733 acre-ft (0.90 hm^3) Oct. 29, gage height, 19.39 ft (5.910 m).
Period of record: Maximum contents, 3,534 acre-ft (4.36 hm^3) in February 1971, Apr. 16, 1972, gage height, 38.28 ft (11.668 m); minimum contents since reaching minimum pool elevation of 535.00 ft (163.068 m), 944 acre-ft (1.16 hm^3) Oct. 30, 31, 1969, gage height, 21.82 ft (6.651 m).

REMARKS.--Reservoir is formed by earth-fill dam. Releases normally controlled by a sluice gate into 42-inch (1,067 mm) diameter pipe. Minimum design capacity is 2,850 acre-ft (3.51 hm^3), elevation, 535 ft (163.1 m). Capacity at uncontrolled spillway elevation, 551.1 ft (169.19 m) is 8,440 acre-ft (10.4 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on Jan. 14, 1965.

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

Month-end gage heights and contents, water year October 1973 to September 1974

Date	Gage Height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	28.23	1,693	-
Oct. 31	19.49	741	-952
Nov. 30	21.52	917	+176
Dec. 31	22.81	1,041	+124
Calendar year 1973	-	-	-1,981
Jan. 31	27.47	1,591	+550
Feb. 28	28.65	1,751	+160
Mar. 31	32.79	2,422	+671
Apr. 30	35.33	2,916	+494
May 31	37.22	3,298	+382
June 30	35.53	2,956	-342
July 31	35.15	2,880	-76
Aug. 31	35.47	2,944	+64
Sept. 30	33.97	2,644	-300
Water year 1974	-	-	+951

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 11.9 miles (19.1 km) upstream from mouth.

DRAINAGE AREA.--189 mi^2 (490 km^2).

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

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 430 ft (131 m), from topographic map.

AVERAGE DISCHARGE.--20 years, 209 ft^3/s (5.919 m^3/s), 15.02 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,660 ft^3/s (104 m^3/s) May 31, gage height, 17.30 ft (5.273 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 24.

Period of record: Maximum discharge, 19,600 ft^3/s (555 m^3/s) Jan. 22, 1959, gage height, 30.89 ft (9.415 m), from flood-marks, from rating curve extended above 6,300 ft^3/s (178 m^3/s) on basis of contracted-opening measurements of peak flow, at site 5.2 miles (8.4 km) upstream, drainage area, 164 mi^2 (425 km^2), adjusted to gage site; no flow at times in most years.

REMARKS.--Records good. Some regulation by Deam Lake (See sta 03293800).

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

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	46	14	159	205	235	208	216	59	2,200	17	6.8	51
2	59	6.5	122	142	208	192	1,630	88	510	16	7.3	33
3	47	5.2	107	130	173	173	915	246	280	16	11	39
4	47	5.0	110	120	147	149	1,510	132	181	14	14	52
5	67	4.8	149	110	126	146	578	84	168	23	8.9	33
6	49	4.0	102	100	126	669	356	71	132	15	8.2	23
7	40	3.6	80	93	173	918	262	57	107	14	6.8	18
8	37	3.8	69	88	125	398	1,690	52	142	13	8.6	16
9	33	3.6	63	224	102	266	2,140	153	139	14	33	15
10	32	3.6	63	1,490	93	795	598	119	135	16	43	16
11	32	2.8	49	1,850	86	1,330	378	90	83	48	161	17
12	29	2.3	44	648	76	3,340	300	72	63	36	434	195
13	32	2.5	48	310	70	2,070	260	57	52	18	95	153
14	31	2.3	49	242	66	750	211	45	42	14	107	136
15	49	2.8	45	448	63	472	168	38	35	11	38	81
16	26	12	40	798	60	755	143	66	32	11	23	61
17	24	5.2	33	492	58	508	129	50	25	12	15	44
18	24	4.0	29	332	57	354	111	76	21	12	18	32
19	33	2.8	26	668	100	290	104	422	22	10	251	26
20	20	2.8	179	718	237	228	96	139	18	8.9	70	22
21	7.0	14	270	1,640	132	365	82	83	19	13	35	21
22	3.0	27	142	710	1,120	322	104	74	18	11	25	17
23	1.7	23	120	800	750	229	205	74	242	10	15	14
24	1.2	55	132	722	360	198	121	68	108	18	16	11
25	1.6	460	200	428	244	194	96	51	65	13	10	11
26	2.8	1,000	278	324	189	178	82	32	53	10	8.9	10
27	2.1	1,070	777	1,540	195	156	78	22	34	8.6	8.2	9.6
28	1.9	1,360	290	852	197	138	68	19	26	6.2	30	22
29	1.5	435	478	748	------	147	61	22	23	5.2	182	178
30	1.4	224	640	442	------	400	55	423	20	4.2	163	129
31	1.6	------	304	320	------	300	------	2,540	------	5.2	95	------
TOTAL	782.8	4,761.6	5,197	17,734	5,568	16,638	12,747	5,524	4,995	443.3	1,947.7	1,485.6
MEAN	25.3	159	168	572	199	537	425	178	167	14.3	62.8	49.5
MAX	67	1,360	777	1,850	1,120	3,340	2,140	2,540	2,200	48	434	195
MIN	1.2	2.3	26	88	57	138	55	19	18	4.2	6.8	9.6
CFSM	.13	.84	.89	3.03	1.05	2.84	2.25	.94	.88	.08	.33	.26
IN.	.15	.94	1.02	3.49	1.10	3.27	2.51	1.09	.98	.09	.38	.29

CAL YR 1973 TOTAL 94,385.5 MEAN 259 MAX 4,380 MIN 1.2 CFSM 1.37 IN 18.58
WTR YR 1974 TOTAL 77,824.0 MEAN 213 MAX 3,340 MIN 1.2 CFSM 1.13 IN 15.32

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-27	0700	14.62	2,720	04-08	2300	16.51	3,380
03-12	0700	16.80	3,480	05-31	1400	17.30	3,660
04-02	1000	14.30	2,600				

03302220 Buck Creek near New Middletown, Ind.

LOCATION.--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, 0.5 mile (0.8 km) downstream from South Fork Buck Creek, 3.6 miles (5.8 km) southwest of New Middletown, and 14.6 miles (23.5 km) upstream from mouth.

DRAINAGE AREA.--65.2 mi^2 (168.9 km^2), of which 28.1 mi^2 (72.8 km^2) 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.--5 years, 87.5 ft^3/s (2.478 m^3/s), 18.23 in/yr (463 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,650 ft^3/s (103 m^3/s) Mar. 6, gage height, 9.14 ft (2.786 m); daily, 1.8 ft^3/s (0.051 m^3/s) Aug. 1.
Period of record: Maximum discharge, 12,700 ft^3/s (360 m^3/s) Apr. 2, 1970, gage height, 14.40 ft (4.389 m); minimum daily, 0.90 ft^3/s (0.03 m^3/s) Sept. 13, 1972.

REMARKS.--Records good.

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

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	84	12	111	95	103	55	160	28	97	13	1.8	101
2	18	7.6	88	76	92	52	395	142	74	12	1.9	76
3	16	6.2	74	70	74	48	756	132	53	10	38	65
4	15	5.0	74	63	61	44	696	74	47	9.6	17	60
5	8.7	5.6	72	57	55	44	282	60	61	13	7.6	50
6	7.3	5.9	58	53	54	1,060	167	51	45	54	5.3	43
7	7.3	5.6	49	47	48	395	126	43	71	102	4.4	37
8	9.5	5.3	45	42	43	230	242	43	141	37	6.2	32
9	8.7	5.3	43	114	39	160	190	47	101	38	4.3	30
10	7.3	5.0	40	756	35	127	138	40	172	25	6.7	31
11	6.2	4.7	35	636	33	324	111	36	101	18	112	34
12	5.9	4.7	32	282	31	652	95	34	72	13	152	80
13	5.9	5.3	34	173	29	322	78	28	56	11	49	218
14	8.3	6.6	30	132	27	212	68	26	46	9.4	28	203
15	5.3	34	27	155	26	176	58	26	41	9.6	20	98
16	3.3	46	24	152	25	332	51	23	34	10	16	65
17	2.5	17	23	123	24	206	45	21	29	7.5	13	50
18	2.5	12	23	115	23	157	41	19	26	6.4	86	40
19	2.5	11	22	142	36	132	39	17	23	5.8	43	32
20	2.3	9.1	206	171	35	105	34	16	23	5.5	23	28
21	2.3	62	152	256	35	106	33	49	20	5.1	17	26
22	2.3	43	99	186	344	90	38	51	96	4.7	13	22
23	2.3	73	74	220	178	87	34	33	74	5.2	11	19
24	2.5	330	62	184	126	76	30	24	36	5.1	23	17
25	3.0	1,160	78	138	88	69	28	19	28	4.6	30	17
26	3.3	895	169	390	73	69	27	17	23	4.1	14	24
27	3.5	608	224	463	67	64	26	16	20	3.8	78	25
28	3.5	720	133	354	62	63	24	14	18	3.5	102	28
29	3.8	254	242	270	------	88	23	16	17	4.4	227	167
30	5.0	157	208	180	------	242	22	47	14	4.5	227	73
31	6.6	------	141	135	------	144	------	201	------	2.5	165	------
TOTAL	264.6	4,515.9	2,692	6,230	1,866	5,931	4,057	1,393	1,659	457.3	1,542.2	1,791
MEAN	8.54	151	86.8	201	66.6	191	135	44.9	55.3	14.8	49.7	59.7
MAX	84	1,160	242	756	344	1,060	756	201	172	102	227	218
MIN	2.3	4.7	22	42	23	44	22	14	14	2.5	1.8	17
CFSM	.13	2.32	1.33	3.08	1.02	2.93	2.07	.69	.85	.23	.76	.92
IN.	.15	2.58	1.54	3.55	1.06	3.38	2.31	.79	.95	.26	.88	1.02

CAL YR 1973 TOTAL 32,277.5 MEAN 88.4 MAX 1,160 MIN 2.3 CFSM 1.36 IN 18.42
WTR YR 1974 TOTAL 32,399.0 MEAN 88.8 MAX 1,160 MIN 1.8 CFSM 1.36 IN 18.49

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1500	8.34	2,810	03-06	1100	9.14	3,650
01-10	1000	6.34	1,340	03-12	0900	6.65	1,520
01-26	2100	7.21	1,900	04-03	2100	9.10	3,600

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^2 (41.7 km^2).

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.--6 years, 22.4 ft^3/s (0.634 m^3/s), 18.89 in/yr (480 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,590 ft^3/s (45.0 m^3/s) Aug. 19, gage height, 5.76 ft (1.756 m); minimum daily, 0.05 ft^3/s (0.001 m^3/s) July 31 to Aug. 2.

Period of record: Maximum discharge, 5,500 ft^3/s (156 m^3/s) July 21, 1973, gage height, 9.30 ft (2.835 m), from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of contracted-opening measurement at 7.34 ft (2.237 m); no flow for many days in October 1969.

REMARKS.--Records good.

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	.84	2.8	15	21	21	15	140	4.9	29	.41	.05	7.7
2	.53	.99	12	18	19	14	158	30	14	.41	.05	8.8
3	.99	.53	9.6	14	16	13	79	22	8.8	.27	2.3	11
4	1.4	.53	15	13	13	11	252	12	9.6	.33	.84	10
5	1.2	.53	14	11	12	14	64	8.4	8.4	.53	.33	7.0
6	.53	.41	11	10	12	117	42	7.6	6.6	7.7	.27	5.2
7	.41	.41	9.2	9.2	12	59	30	5.2	8.4	3.6	4.2	4.2
8	.41	.33	8.1	8.6	10	34	215	9.2	22	.84	2.8	3.3
9	.33	.33	7.7	25	9.2	24	80	14	11	1.8	38	3.3
10	.33	.27	7.0	205	8.4	31	46	7.3	7.7	7.7	7.3	6.3
11	.33	.27	5.2	135	8.1	238	32	7.0	6.0	6.3	135	37
12	.33	.27	5.2	50	7.3	174	28	6.0	4.9	1.8	31	37
13	1.4	.27	6.3	34	6.9	82	22	3.9	3.9	.99	8.1	24
14	2.1	.27	5.2	29	6.4	47	19	3.3	3.3	.70	4.9	20
15	.84	.99	5.2	91	6.0	50	15	3.3	3.0	.53	3.3	14
16	.53	1.8	4.5	67	5.6	83	13	2.8	2.3	.41	2.5	11
17	.41	1.4	4.2	43	5.4	46	12	2.3	2.1	.33	2.1	8.8
18	.33	.99	3.3	33	5.2	33	10	2.1	1.6	.27	17	7.0
19	.33	.84	3.6	217	16	27	10	1.6	1.2	.27	100	5.6
20	.41	.70	59	98	13	21	8.8	1.6	6.0	.20	7.0	4.9
21	.41	5.6	30	101	17	37	8.1	1.4	1.8	.27	3.3	4.9
22	.53	3.6	17	51	121	26	16	1.6	7.0	.20	2.1	3.6
23	.53	3.3	13	93	49	22	15	1.8	5.2	.20	1.4	2.8
24	.33	32	17	53	32	20	10	1.2	2.8	.20	10	2.8
25	.20	64	22	35	22	18	8.8	.84	2.1	.14	2.8	2.5
26	.20	186	112	183	21	18	8.1	.70	1.6	.14	1.2	2.1
27	.41	153	64	120	17	15	7.3	.53	.99	.10	1.2	2.4
28	.53	104	33	88	16	15	6.3	.41	.84	.10	45	5.2
29	.84	31	80	57	------	24	5.6	1.8	.84	.07	37	41
30	.84	19	49	38	------	47	5.2	43	.70	.07	20	12
31	2.5	------	31	28	------	31	------	166	------	.05	11	------
TOTAL	21.30	616.43	678.3	1,978.8	507.5	1,406	1,366.2	373.78	183.67	36.93	502.04	315.4
MEAN	.69	20.5	21.9	63.8	18.1	45.4	45.5	12.1	6.12	1.19	16.2	10.5
MAX	2.5	186	112	217	121	238	252	166	29	7.7	135	41
MIN	.20	.27	3.3	8.6	5.2	11	5.2	.41	.70	.05	.05	2.1
CFSM	.04	1.27	1.36	3.96	1.12	2.82	2.83	.75	.38	.07	1.01	.65
IN.	.05	1.42	1.57	4.57	1.17	3.25	3.16	.86	.42	.09	1.16	.73

CAL YR 1973 TOTAL 9,604.97 MEAN 26.3 MAX 535 MIN .06 CFSM 1.63 IN 22.19
WTR YR 1974 TOTAL 7,986.35 MEAN 21.9 MAX 252 MIN .05 CFSM 1.36 IN 18.45

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1145	5.36	1,090	03-11	1315	4.89	908	05-31	0815	5.24	1,150
11-27	2045	5.17	947	04-01	2215	4.79	844	08-11	0400	4.58	720
01-19	0600	4.81	857	04-04	0200	5.15	1,090	08-19	0015	5.76	1,590
01-26	2015	5.06	1,020								

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, and 4.5 miles (7.2 km) north of Corydon.

DRAINAGE AREA.--129 mi^2 (334 km^2), of which 10.6 mi^2 (27.4 km^2) 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.--31 years, 167 ft^3/s (4.729 m^3/s), 17.58 in/yr (447 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,820 ft^3/s (137 m^3/s) Nov. 26, gage height, 12.89 ft (3.929 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Oct. 28, Aug. 1, 2.
Period of record: Maximum discharge, 26,700 ft^3/s (756 m^3/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 fair.

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

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	254	37	226	239	320	145	235	51	476	20	13	60
2	117	45	172	176	270	131	1,500	53	239	18	13	47
3	98	41	139	150	240	123	606	131	141	18	14	77
4	46	35	153	130	200	112	795	82	104	17	15	87
5	40	33	197	115	170	117	443	62	137	17	16	65
6	34	31	143	110	155	564	318	55	95	183	16	48
7	30	29	114	103	150	654	247	49	121	251	15	40
8	28	31	102	100	130	380	906	48	226	47	14	34
9	27	30	93	140	120	281	729	129	191	31	56	30
10	24	29	86	300	110	300	430	95	123	170	152	32
11	22	29	75	770	100	759	318	74	86	157	453	55
12	20	29	66	400	90	1,430	261	63	66	60	381	518
13	20	29	69	260	84	841	219	53	54	40	89	250
14	26	29	68	210	80	507	181	46	47	30	49	247
15	28	30	58	300	72	380	143	44	43	28	37	156
16	25	37	55	580	67	550	123	44	38	29	29	102
17	22	41	50	423	64	411	110	39	34	23	25	77
18	20	46	47	326	62	329	98	35	31	18	79	57
19	17	43	49	950	80	276	90	55	29	16	136	47
20	17	40	405	1,010	160	221	83	47	35	15	59	40
21	16	79	310	1,600	98	276	75	121	38	14	34	36
22	15	117	206	700	618	244	88	95	46	15	26	33
23	15	82	160	850	503	214	127	51	121	16	20	29
24	14	378	185	650	340	193	95	43	58	15	17	24
25	15	944	230	500	247	170	78	35	40	14	19	23
26	16	2,310	479	440	191	162	72	31	33	14	25	20
27	16	1,200	535	1,400	181	145	65	27	28	15	17	19
28	13	1,960	332	900	160	135	59	25	26	16	19	20
29	16	524	579	650	------	135	55	24	24	17	264	374
30	18	321	496	470	------	210	52	78	22	16	210	228
31	23	------	340	380	------	193	------	1,090	------	14	103	------
TOTAL	1,092	8,609	6,219	15,332	5,062	10,588	8,601	2,875	2,752	1,354	2,415	2,875
MEAN	35.2	287	201	495	181	342	287	92.7	91.7	43.7	77.9	95.8
MAX	254	2,310	579	1,600	618	1,430	1,500	1,090	476	251	453	518
MIN	13	29	47	100	62	112	52	24	22	14	13	19
CFSM	.27	2.22	1.56	3.84	1.40	2.65	2.22	.72	.71	.34	.60	.74
IN.	.31	2.48	1.79	4.42	1.46	3.05	2.48	.83	.79	.39	.70	.83

CAL YR 1973 TOTAL 84,040.55 MEAN 230 MAX 13,900 MIN 0 CFSM 1.78 IN 24.23
WTR YR 1974 TOTAL 67,774.00 MEAN 186 MAX 2,310 MIN 13 CFSM 1.44 IN 19.54

PEAK DISCHARGE (BASE, 4,500 FT^3/S).--Nov. 26 (2000) 4,820 ft^3/s (12.89 ft).

03302680 West Fork Blue River at Salem, Ind.

LOCATION.--Lat 38°36'19", long 86°05'40", in SW¼SE¼ sec.17, T.2 N., R.4 E., Washington County, on left bank just downstream from bridge on State Highway 160, 0.35 mile (0.56 km) east of County Court House in Salem, 6.0 miles (9.6 km) upstream from Hoggatt Branch, and 6.8 miles (10.9 km) from mouth.

DRAINAGE AREA.--19.0 mi^2 (49.2 km^2).

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.

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

EXTREMES.--Current year: Maximum discharge, 4,430 ft^3/s (125 m^3/s) July 10, gage height, 12.29 ft (3.746 m); minimum daily, 0.08 ft^3/s (0.002 m^3/s) Oct. 19-25, Aug. 27.
Period of record: Maximum discharge, 4,430 ft^3/s (125 m^3/s) July 10, 1974, gage height, 12.29 ft (3.746 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Sept. 24, 1970.

REMARKS.--Records fair.

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	6.1	2.9	28	29	30	24	179	10	84	3.4	.79	6.8
2	1.6	1.1	23	22	28	27	166	14	50	2.9	.69	6.8
3	1.5	.71	19	18	22	25	101	20	33	2.6	6.0	8.7
4	1.9	.62	28	15	18	23	75	13	97	10	3.9	6.5
5	2.4	.71	24	14	16	27	51	11	38	4.9	1.5	4.9
6	.80	1.1	19	12	17	64	39	10	28	33	1.2	4.0
7	.53	.90	16	11	16	61	33	8.5	30	13	.90	3.6
8	.45	.71	15	10	13	44	147	15	39	6.1	.80	3.1
9	.37	.71	13	18	12	42	110	12	26	26	5.8	2.9
10	.29	.71	12	53	11	110	68	9.0	21	535	1.9	40
11	.21	.71	11	58	10	191	48	8.5	15	51	2.1	22
12	.14	.71	9.0	37	9.2	230	39	9.0	11	24	1.6	306
13	.21	.80	11	30	8.4	119	31	6.5	8.5	16	1.2	100
14	.45	1.0	8.5	29	7.6	73	27	5.3	8.0	12	.98	55
15	.45	4.5	7.0	75	7.0	61	22	15	8.5	10	.82	31
16	.21	4.5	6.1	82	6.6	61	20	8.5	6.1	8.6	.72	21
17	.14	1.6	5.3	69	6.4	46	17	7.0	6.1	6.6	.71	17
18	.14	1.2	4.5	53	6.1	39	15	11	6.5	5.5	.68	13
19	.08	1.0	4.5	72	18	33	14	11	6.5	4.8	.57	11
20	.08	.90	30	88	13	28	12	7.5	4.9	4.9	.55	9.4
21	.08	20	24	110	14	37	11	8.0	3.4	3.8	.45	8.3
22	.08	4.9	20	72	84	28	37	7.5	22	3.1	.36	6.7
23	.08	3.1	16	112	54	26	24	6.1	48	3.0	.29	5.5
24	.08	40	25	75	42	23	17	4.9	15	2.8	.22	4.5
25	.08	108	50	54	30	21	15	3.6	10	2.3	.14	4.4
26	.14	254	75	117	25	21	13	3.4	8.0	1.9	.14	3.7
27	.14	128	75	113	24	19	12	3.1	5.7	1.9	.08	4.9
28	.21	108	52	87	23	19	11	2.6	4.5	1.7	26	122
29	.29	56	61	64	------	22	9.0	100	4.2	1.6	93	138
30	.45	37	52	50	------	31	11	789	3.6	1.4	94	39
31	1.0	------	40	39	------	26	------	258	------	1.3	10	------
TOTAL	20.68	786.09	783.9	1,688	571.3	1,601	1,574.0	1,398.0	651.5	805.1	258.09	1,009.7
MEAN	.67	26.2	25.3	54.5	20.4	51.6	52.5	45.1	21.7	26.0	8.33	33.7
MAX	6.1	254	75	117	84	230	347	789	97	535	94	306
MIN	.08	.62	4.5	10	6.1	19	9.0	2.6	3.4	1.3	.08	2.9
CFSM	.04	1.38	1.33	2.87	1.07	2.72	2.76	2.37	1.14	1.37	.44	1.77
IN.	.04	1.54	1.53	3.30	1.12	3.13	3.08	2.74	1.28	1.58	.51	1.98

CAL YR 1973 TOTAL 10,029.47 MEAN 27.5 MAX 449 MIN .08 CFSM 1.45 IN 19.64
WTR YR 1974 TOTAL 11,147.36 MEAN 30.5 MAX 789 MIN .08 CFSM 1.61 IN 21.83

PEAK DISCHARGE (BASE, 600 FT^3/S, revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1200	8.33	1,580	05-30	0100	12.02	4,140	08-29	2345	7.64	1,270
01-26	1945	6.12	699	06-04	1545	5.88	622	09-12	0945	8.78	1,820
04-01	2200	8.11	1,470	07-06	1715	6.50	828	09-28	2200	7.28	1,120
04-08	0945	7.93	1,390	07-10	1830	12.29	4,430				

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 and 0.5 mile (0.8 km) downstream from South Fork Blue River.

DRAINAGE AREA.--283 mi^2 (733 km^2), of which 76.9 mi^2 (199.2 km^2) 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.--6 years, 305 ft^3/s (8.638 m^3/s), 14.64 in/yr (372 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,220 ft^3/s (204 m^3/s) May 31, gage height, 17.52 ft (5.340 m); minimum daily, 7.9 ft^3/s (0.22 m^3/s) Oct. 28.
Period of record: Maximum discharge, 9,790 ft^3/s (277 m^3/s) Feb. 22, 1971, gage height, 20.43 ft (6.227 m); minimum daily, 6.1 ft^3/s (0.17 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	23	381	407	471	319	521	147	1,460	48	18	102
2	116	35	289	291	422	316	3,970	141	761	44	21	69
3	51	30	241	270	350	305	1,500	278	505	42	33	97
4	35	22	250	230	289	276	1,900	224	373	40	59	82
5	32	19	341	200	250	281	932	179	446	125	43	64
6	52	17	243	180	238	686	693	155	291	59	27	50
7	29	16	192	170	241	1,070	555	130	336	153	22	40
8	21	16	169	151	208	659	2,610	135	532	69	20	35
9	18	17	157	231	186	509	2,530	342	415	47	43	31
10	17	16	145	771	171	895	1,110	211	287	74	38	30
11	16	16	125	1,250	157	1,730	777	171	211	939	37	156
12	15	15	113	719	143	3,770	626	181	172	176	89	903
13	14	15	116	494	139	2,220	515	156	140	99	42	570
14	15	15	114	419	132	1,150	428	131	119	72	27	606
15	17	15	99	656	118	837	347	179	108	99	21	325
16	16	29	91	1,130	111	970	294	192	94	90	18	212
17	14	44	80	866	107	757	258	141	80	57	20	154
18	13	29	71	662	101	629	224	120	71	47	42	118
19	12	25	71	1,020	139	549	205	140	65	42	37	94
20	11	19	271	1,100	300	450	184	126	63	38	21	77
21	11	35	416	2,240	222	546	165	107	59	51	17	66
22	11	149	284	1,160	1,250	509	276	192	197	42	15	58
23	11	64	220	1,220	1,020	443	506	122	653	34	14	48
24	10	165	248	1,090	683	393	300	104	231	31	14	43
25	10	1,320	419	777	497	359	233	88	133	29	14	40
26	10	2,980	577	740	390	347	203	77	97	26	13	37
27	9.3	1,990	1,030	2,110	364	319	179	67	79	25	12	37
28	7.9	1,950	629	1,160	330	300	163	60	67	23	22	44
29	12	760	629	974	------	302	143	76	60	22	308	1,070
30	12	512	774	729	------	478	136	1,790	55	20	849	455
31	16	------	555	593	------	446	------	4,950	------	19	217	------
TOTAL	705.2	10,358	9,340	24,010	9,029	22,820	22,483	11,112	8,160	2,682	2,173	5,713
MEAN	22.7	345	301	775	322	736	749	358	272	86.5	70.1	190
MAX	116	2,980	1,030	2,240	1,250	3,770	3,970	4,950	1,460	939	849	1,070
MIN	7.9	15	71	151	101	276	136	60	55	19	12	30
CFSM	.08	1.22	1.06	2.74	1.14	2.60	2.65	1.27	.96	.31	.25	.67
IN.	.09	1.36	1.23	3.16	1.19	3.00	2.96	1.46	1.07	.35	.29	.75

CAL YR 1973 TOTAL 129,529.2 MEAN 355 MAX 7,420 MIN 7.9 CFSM 1.25 IN 17.03
WTR YR 1974 TOTAL 128,585.2 MEAN 352 MAX 4,950 MIN 7.9 CFSM 1.24 IN 16.90

PEAK DISCHARGE (BASE, 2,100 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	2200	16.61	6,510	03-12	0100	14.20	4,860	05-31	1100	17.52	7,220
01-21	0900	10.73	2,960	04-02	0900	16.23	6,240	07-11	0500	9.23	2,290
01-27	0600	10.97	3,080	04-08	2200	16.03	6,100				

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, 0.2 mile (0.3 km) upstream from bridge on State Highway 62, and 0.8 mile (1.3 km) north of White Cloud.

DRAINAGE AREA.--About 476 mi^2 (1,233 km^2), of which 192 mi^2 (497 km^2) 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 Indiana Department of Natural Resources from adjusted elevation of U.S. Coast and Geodetic Survey bench mark). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 612 ft^3/s (17.33 m^3/s), 17.46 in/yr (443 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,650 ft^3/s (245 m^3/s) May 31, gage height, 11.73 ft (3.575 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Oct. 28, 29.
Period of record: Maximum discharge, 28,500 ft^3/s (807 m^3/s) Jan. 22, 1959, gage height, 23.07 ft (7.032 m); minimum daily, 9.6 ft^3/s (0.27 m^3/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.

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	81	68	895	1,000	1,040	677	983	370	4,590	171	77	389
2	143	75	719	783	906	652	6,650	382	1,680	156	73	288
3	251	75	602	672	805	637	3,990	450	1,070	140	90	245
4	220	75	573	632	693	602	3,280	540	751	126	140	238
5	159	81	652	564	607	592	2,110	454	719	120	118	235
6	113	66	632	514	564	1,060	1,440	405	607	218	141	214
7	98	57	522	483	545	2,070	1,160	374	622	231	118	189
8	118	51	462	450	518	1,480	2,050	362	1,160	296	94	157
9	90	46	433	488	475	1,120	5,600	578	1,110	230	107	149
10	70	42	413	1,280	437	1,070	2,450	637	714	189	376	142
11	60	40	389	2,530	413	1,970	1,670	488	540	647	341	163
12	51	42	359	1,820	393	5,630	1,320	466	446	568	304	318
13	50	40	351	1,210	378	4,850	1,110	437	385	292	256	1,100
14	68	40	344	959	362	2,520	935	389	344	208	255	799
15	64	42	336	1,040	344	1,740	805	393	314	174	195	645
16	57	55	314	2,020	325	1,730	698	450	289	208	165	451
17	50	60	292	1,650	314	1,610	627	409	265	201	130	356
18	45	50	277	1,330	304	1,310	568	340	214	137	291	300
19	45	83	263	2,030	332	1,160	522	304	198	107	263	260
20	42	77	540	2,500	492	995	488	318	192	92	212	232
21	37	140	872	3,860	545	959	454	311	186	85	179	210
22	36	177	751	2,880	1,550	1,080	479	318	304	83	126	182
23	33	269	602	2,080	2,330	929	883	366	767	92	99	158
24	33	500	588	2,350	1,450	849	761	300	772	83	97	136
25	31	1,760	682	1,690	1,110	772	588	263	429	70	132	121
26	30	3,930	995	1,520	872	745	514	221	332	62	93	113
27	28	5,740	1,580	3,540	761	714	475	201	270	56	84	105
28	27	3,820	1,430	2,530	724	672	442	180	228	51	88	118
29	27	2,110	1,230	1,980	------	662	409	165	205	58	311	855
30	31	1,190	1,550	1,540	------	761	385	900	186	108	802	1,210
31	37	------	1,310	1,260	------	906	------	5,820	------	87	866	------
TOTAL	2,225	20,801	20,958	49,185	19,589	42,524	43,846	17,591	19,889	5,346	6,623	10,078
MEAN	71.8	693	676	1,587	700	1,372	1,462	567	663	172	214	336
MAX	251	5,740	1,580	3,860	2,330	5,630	6,650	5,820	4,590	647	866	1,210
MIN	27	40	263	450	304	592	385	165	186	51	73	105
CFSM	.15	1.46	1.42	3.33	1.47	2.88	3.07	1.19	1.39	.36	.45	.71
IN.	.17	1.63	1.64	3.84	1.53	3.32	3.43	1.37	1.55	.42	.52	.79

CAL YR 1973 TOTAL 304,507 MEAN 834 MAX 13,600 MIN 27 CFSM 1.75 IN 23.80
WTR YR 1974 TOTAL 258,655 MEAN 709 MAX 6,650 MIN 27 CFSM 1.49 IN 20.21

PEAK DISCHARGE (BASE, 7,500 FT^3/S).--Apr. 2 (2000) 8,170 ft^3/s (11.40 ft); May 31 (2200) 8,650 ft^3/s (11.73 ft).

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

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
03...	1035	19.0	304	86	71	--	--
NOV.							
07...	1205	6.0	56	5	.76	--	--
27...	1145	11.0	7450	983	19800	--	--
27...	1520	12.0	6080	636	10400	43	58
JAN.							
16...	1240	9.0	2150	64	372	--	--
FEB.							
20...	1320	8.0	481	16	21	--	--
JUNE							
05...	1245	19.0	670	65	118	--	--
JULY							
09...	1130	29.0	230	57	35	--	--

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.							
03...	--	--	--	--	--	--	--
NOV.							
07...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	70	84	96	98	99	99	100
JAN.							
16...	--	--	--	--	--	--	--
FEB.							
20...	--	--	--	--	--	--	--
JUNE							
05...	--	--	--	--	--	--	--
JULY							
09...	--	--	--	--	--	--	--

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, and 6.0 miles (9.7 km) upstream from Sulphur Fork Creek.

DRAINAGE AREA.--39.8 mi^2 (103.1 km^2).

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.--13 years, 53.4 ft^3/s (1.512 m^3/s), 18.22 in/yr (463 mm/yr).

EXTREMES.--Current year: Maximum discharge 954 ft^3/s (27.0 m^3/s) Nov. 26, gage height, 14.46 ft (4.407 m); no flow Nov. 8-13, Aug. 2-9.
Period of record: Maximum discharge, 6,360 ft^3/s (180 m^3/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^3/s (425 m^3/s), from rating curve extended above 7,000 ft^3/s (198 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.34	83	72	60	42	154	26	422	4.0	.03	39
2	.94	.40	46	53	53	41	524	32	388	4.0	0	272
3	1.2	.40	36	46	46	37	396	76	332	4.0	0	107
4	1.7	.34	42	40	39	34	383	58	158	23	0	59
5	1.4	.24	47	34	34	46	355	42	197	36	0	34
6	1.4	.20	39	31	33	355	258	32	156	17	0	23
7	1.5	.06	31	29	33	312	109	25	138	13	0	16
8	1.7	0	27	26	29	155	177	28	112	8.9	0	11
9	1.4	0	24	65	26	96	219	40	87	6.7	0	8.9
10	1.3	0	22	320	24	101	142	42	63	78	2.2	8.6
11	1.2	0	19	355	22	131	99	34	46	61	6.2	7.3
12	1.2	0	18	204	21	283	81	29	36	19	3.1	6.1
13	1.2	0	18	96	20	259	68	22	28	12	2.2	32
14	1.2	.64	17	73	18	138	58	17	23	7.9	1.7	53
15	1.1	.52	17	106	17	98	47	27	20	5.9	1.2	33
16	1.1	.29	16	141	16	132	41	29	17	5.4	.64	23
17	.94	.24	15	112	15	106	38	23	14	5.2	.16	17
18	.88	.24	13	86	14	84	33	18	11	5.0	32	12
19	.82	.16	12	76	38	70	30	14	10	4.6	12	9.2
20	.70	.10	106	175	53	62	27	12	10	4.6	10	7.2
21	.58	1.3	96	335	53	98	24	20	10	4.4	9.6	6.8
22	.52	1.7	61	232	209	90	73	132	9.6	4.2	8.9	5.7
23	.40	2.1	50	232	165	74	82	101	8.9	4.2	8.6	5.4
24	.29	55	67	175	104	67	60	64	7.0	4.0	8.6	5.4
25	.24	399	144	112	73	63	46	40	5.9	3.5	7.9	5.4
26	.16	615	192	140	57	60	37	27	5.0	3.0	7.3	5.4
27	.16	499	219	285	51	54	32	20	4.6	2.6	7.0	7.8
28	.16	499	126	192	46	48	27	15	4.2	2.0	35	52
29	.16	393	160	137	------	52	24	17	4.0	1.9	150	438
30	.16	272	166	97	------	58	23	78	4.0	1.3	127	171
31	.24	------	106	75	------	58	------	615	------	.52	68	------
TOTAL	26.65	2,741.27	2,035	4,152	1,369	3,304	3,667	1,755	2,331.2	356.82	509.33	1,481.2
MEAN	.86	91.4	65.6	134	48.9	107	122	56.6	77.7	11.5	16.4	49.4
MAX	1.7	615	219	355	209	355	524	615	422	78	150	438
MIN	.16	0	12	26	14	34	23	12	4.0	.52	0	5.4
CFSM	.02	2.30	1.65	3.37	1.23	2.69	3.07	1.42	1.95	.29	.41	1.24
IN.	.02	2.56	1.90	3.88	1.28	3.09	3.43	1.64	2.18	.33	.48	1.38

CAL YR 1973 TOTAL 22,861.32 MEAN 62.6 MAX 615 MIN 0 CFSM 1.57 IN 21.37
WTR YR 1974 TOTAL 23,728.47 MEAN 65.0 MAX 615 MIN 0 CFSM 1.63 IN 22.18

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

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
29...	1200	11.0	.16	15	<.01	--	--
NOV.							
28...	1240	12.0	474	106	136	74	83
DEC.							
07...	1200	5.5	31	38	3.2	--	--
JAN.							
16...	1015	5.5	139	42	16	--	--
16...	1300	4.0	144	28	11	--	--
23...	1545	--	265	77	55	60	67
JUNE							
10...	1250	21.0	60	116	19	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT.						
29...	--	--	--	--	--	--
NOV.						
28...	90	93	97	98	100	--
DEC.						
07...	--	--	--	--	--	--
JAN.						
16...	--	--	--	--	--	--
16...	--	--	--	--	--	--
23...	73	81	85	86	87	100
JUNE						
10...	--	--	--	--	--	--

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 county road bridge, 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^2 (20.36 km^2).

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.--5 years, 11.7 ft^3/s (0.331 m^3/s), 20.21 in/yr (513 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) May 31, gage height, 9.12 ft (2.780 m); no flow Oct. 1-6, 9-13, Oct. 15 to Nov. 20, June 24-30, July 1-10, 12-31, Aug. 1, 2, 4-9, 13, 14, 17, 19-27, Sept. 23-26, 29.
Period of record: Maximum discharge, 4,100 ft^3/s (116 m^3/s) Apr. 28, 1970, gage height, 9.74 ft (2.969 m), from rating curve extended above 450 ft^3/s (12.7 m^3/s) on basis of two culverts and flow-over-road measurement of peak flow at site 1.6 miles (2.6 km) downstream, drainage area, 16.0 mi^2 (41.4 km^2), adjusted to gage site; no flow many days each year.

REMARKS.--Records fair.

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	0	0	2.7	5.7	6.3	2.8	47	3.7	35	0	0	2.0
2	0	0	2.2	4.5	5.3	2.8	47	8.8	13	0	0	1.8
3	0	0	1.8	3.8	3.9	2.5	36	10	5.5	0	1.3	4.4
4	0	0	12	3.2	2.8	2.0	22	5.1	2.5	0	0	1.3
5	0	0	6.5	2.7	2.4	5.1	11	3.2	22	0	0	.61
6	0	0	2.8	2.3	2.7	236	7.3	2.3	35	0	0	.38
7	.96	0	1.8	2.0	2.3	29	6.3	1.6	32	0	0	.25
8	.16	0	1.6	2.4	1.8	14	63	6.7	34	0	0	.19
9	0	0	1.5	22	1.6	11	21	5.5	16	0	0	.16
10	0	0	1.3	163	1.5	18	13	3.3	8.5	0	16	.23
11	0	0	.96	49	1.2	89	9.6	2.5	3.3	.02	3.5	.17
12	0	0	1.1	14	1.3	71	8.3	2.0	1.7	0	.11	.25
13	0	0	1.5	9.2	1.3	21	6.7	1.2	.91	0	0	4.9
14	.03	0	.91	8.3	.96	12	5.7	.91	.57	0	0	1.4
15	0	0	1.3	41	.86	17	4.2	7.5	.50	0	.96	.44
16	0	0	1.1	33	.91	22	4.2	2.5	.23	0	.30	.28
17	0	0	.77	18	.81	11	4.2	1.5	.12	0	0	.25
18	0	0	.73	12	.86	8.3	3.5	1.1	.03	0	1.8	.16
19	0	0	.96	13	16	6.9	3.0	.77	.17	0	0	.11
20	0	0	27	59	7.3	6.3	2.4	.57	.19	0	0	.11
21	0	1.1	8.5	45	11	28	2.3	9.2	.28	0	0	.12
22	0	.21	8.3	17	44	12	41	16	.30	0	0	.02
23	0	1.5	8.3	46	15	8.3	13	8.5	.01	0	0	0
24	0	25	32	17	9.8	8.3	8.1	5.5	0	0	0	0
25	0	32	43	11	5.5	8.3	6.1	2.8	0	0	0	0
26	0	151	43	75	4.2	7.3	4.9	1.1	0	0	0	0
27	0	72	20	40	4.0	5.7	3.9	.73	0	0	0	1.5
28	0	32	11	26	3.7	5.1	3.0	.50	0	0	47	60
29	0	7.5	49	16	------	5.3	2.2	15	0	0	116	101
30	0	4.4	17	11	------	4.7	3.3	101	0	0	26	6.5
31	0	------	9.8	7.9	------	3.3	------	396	------	0	6.1	------
TOTAL	1.15	326.71	320.43	780.0	159.30	684.0	413.2	627.08	211.81	.02	219.07	188.53
MEAN	.037	10.9	10.3	25.2	5.69	22.1	13.8	20.2	7.06	.0006	7.07	6.28
MAX	.96	151	49	163	44	236	63	396	35	.02	116	101
MIN	0	0	.73	2.0	.81	2.0	2.2	.50	0	0	0	0
CFSM	.005	1.39	1.31	3.21	.72	2.81	1.76	2.57	.90	0001	.90	.80
IN.	.005	1.55	1.52	3.69	.75	3.24	1.96	2.97	1.00	0	1.04	.89

CAL YR 1973 TOTAL 4,209.13 MEAN 11.5 MAX 247 MIN 0 CFSM 1.46 IN 19.92
WTR YR 1974 TOTAL 3,931.30 MEAN 10.8 MAX 396 MIN 0 CFSM 1.37 IN 18.61

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1000	9.02	860	05-31	0730	9.12	1,090
03-06	0900	9.00	820	09-28	2315	8.68	508

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 5.94 (9.56 km).

DRAINAGE AREA.--323 mi^2 (837 km^2).

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 1.3 miles (2.1 km) upstream at same datum. Prior to October 1, 1968, water-stage recorder, and October 1, 1968, to September 30, 1971, nonrecording gage at site 1.3 miles (2.1 km) upstream, was used as base gage, and present base gage was used as auxiliary gage.

AVERAGE DISCHARGE.--14 years, 319 ft^3/s (9.034 m^3/s), 13.41 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,660 ft^3/s (104 m^3/s) May 31, gage height, 12.20 ft (3.719 m); maximum gage height, 19.16 ft (5.840 m) Jan. 18 (backwater from Ohio River); minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Oct. 24.
Period of record: Maximum discharge, 12,100 ft^3/s (343 m^3/s) May 10, 1961, gage height, 27.94 ft (8.52 m); minimum daily (unaffected by backwater), 1 ft^3/s (0.028 m^3/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 no gage-height record and 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	15	200	250	450	150	130	342	3,100	36	12	1,020
2	22	11	95	200	350	124	110	201	3,100	35	42	705
3	41	19	95	160	330	118	600	181	2,800	33	300	225
4	278	18	200	140	220	114	1,400	140	1,000	26	546	207
5	79	15	250	120	180	118	1,800	92	500	23	168	83
6	32	12	150	100	150	1,870	2,200	74	450	30	68	62
7	20	11	100	90	120	1,700	1,800	61	600	30	40	64
8	15	10	70	80	105	1,400	3,000	65	700	26	29	40
9	15	13	52	200	95	1,200	2,700	78	600	24	23	36
10	13	13	42	500	84	1,000	1,500	90	350	20	200	36
11	11	14	39	700	81	1,300	1,000	61	442	149	600	35
12	8.4	16	37	600	77	2,000	700	49	191	98	415	118
13	14	21	37	350	72	1,800	500	41	140	37	150	135
14	15	30	37	200	73	1,500	350	36	108	23	66	136
15	35	36	36	800	66	1,200	270	287	132	19	42	101
16	22	38	36	1,100	58	900	200	418	123	19	30	53
17	12	39	36	1,400	57	750	170	350	84	17	23	40
18	9.7	38	32	1,500	52	600	150	250	69	13	30	35
19	8.4	44	32	1,600	150	450	134	170	69	12	56	30
20	6.8	48	65	1,600	295	350	111	130	169	18	30	27
21	5.7	64	74	1,600	193	450	97	102	340	18	18	22
22	5.7	51	86	1,550	589	600	341	647	410	18	15	21
23	4.6	81	74	1,500	711	500	552	984	440	18	12	18
24	3.2	139	519	1,400	425	400	225	1,110	543	18	62	16
25	6.2	482	1,640	1,300	227	350	138	840	185	18	36	16
26	7.9	1,560	1,670	1,500	156	300	110	263	120	18	18	15
27	8.4	1,300	1,970	1,600	142	250	90	129	90	16	15	17
28	7.9	1,100	1,700	1,450	164	220	77	97	70	11	175	138
29	7.4	1,000	1,100	1,300	------	200	68	87	55	10	973	1,080
30	6.8	700	700	1,000	------	170	112	1,740	45	11	1,340	976
31	16	------	400	600	------	150	------	3,040	------	14	1,030	------
TOTAL	768.1	6,938	11,574	26,490	5,672	22,234	20,635	12,155	17,025	858	6,564	5,507
MEAN	24.8	231	373	855	203	717	688	392	568	27.7	212	184
MAX	278	1,560	1,970	1,600	711	2,000	3,000	3,040	3,100	149	1,340	1,080
MIN	3.2	10	32	80	52	114	68	36	45	10	12	15
CFSM	.08	.72	1.15	2.65	.63	2.22	2.13	1.21	1.76	.09	.66	.57
IN.	.09	.80	1.33	3.05	.65	2.56	2.38	1.40	1.96	.10	.76	.63

CAL YR 1973 TOTAL 145,281.7 MEAN 398 MAX 4,040 MIN 3.2 CFSM 1.23 IN 16.73
WTR YR 1974 TOTAL 136,420.1 MEAN 374 MAX 3,100 MIN 3.2 CFSM 1.16 IN 15.71

NOTE.--No gage-height record Jan. 8-13, Mar. 12 to Apr. 15, Aug. 10-12.

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^2 (678 km^2).

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.--23 years, 196 ft^3/s (5.551 m^3/s), 10.16 in/yr (258 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,030 ft^3/s (142 m^3/s) Jan. 19, gage height, 18.53 ft (5.648 m); minimum daily, 4.8 ft^3/s (0.14 m^3/s) Oct. 3.
Period of record: Maximum discharge, 8,720 ft^3/s (247 m^3/s) Jan. 22, 1959, gage height, 20.47 ft (6.239 m), from flood-marks; minimum daily, 0.8 ft^3/s (0.023 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	21	257	267	368	673	360	54	31	187	7.4	43
2	5.0	22	206	243	340	469	255	50	29	129	8.2	83
3	4.8	19	190	230	308	394	232	50	25	50	9.4	190
4	6.0	16	185	220	280	361	2,050	42	23	28	12	133
5	8.5	14	192	200	266	1,210	1,220	39	23	34	8.4	55
6	12	13	180	190	290	768	582	35	25	22	7.0	31
7	10	12	166	185	317	469	357	31	24	16	7.0	21
8	7.6	11	145	200	295	373	358	41	99	14	7.2	18
9	6.2	10	135	220	269	453	592	57	90	12	7.4	14
10	5.7	9.4	130	250	252	602	818	50	41	12	7.7	13
11	5.5	9.1	125	220	248	378	417	47	27	11	8.2	13
12	5.6	9.6	125	190	250	346	285	160	22	10	7.9	26
13	6.2	9.6	140	185	387	308	230	109	19	10	7.2	318
14	7.2	10	161	200	632	285	192	71	18	11	13	172
15	8.6	18	150	235	385	312	160	92	17	10	12	61
16	9.0	37	140	417	324	894	154	82	16	9.6	8.6	34
17	7.6	28	130	1,620	297	526	147	84	15	9.4	22	24
18	6.9	26	125	1,790	297	378	139	115	15	8.6	16	20
19	6.6	25	120	4,490	729	339	133	93	14	8.6	9.4	17
20	6.6	20	120	3,580	1,020	307	83	67	15	8.6	7.7	17
21	6.8	20	125	2,420	623	292	68	55	19	8.6	8.2	31
22	7.0	20	135	1,300	1,940	229	65	49	47	8.4	8.4	21
23	7.8	22	140	2,090	1,220	107	62	92	259	8.4	8.2	15
24	7.8	22	140	1,180	578	80	54	69	142	9.4	7.9	13
25	7.1	160	877	709	415	72	54	50	65	9.4	8.2	13
26	7.0	307	3,190	524	360	85	52	42	43	8.9	7.7	13
27	7.0	323	3,220	1,900	323	151	50	38	33	8.4	7.4	13
28	7.4	570	2,000	1,100	510	118	46	34	25	8.4	55	14
29	10	901	923	1,070	------	1,290	43	36	20	8.2	127	17
30	20	420	521	664	------	1,490	54	37	21	7.4	111	16
31	34	------	338	466	------	738	------	35	------	7.2	34	------
TOTAL	262.7	3,104.7	14,731	28,555	13,523	14,497	9,312	1,906	1,262	693.5	576.7	1,469
MEAN	8.47	103	475	921	483	468	310	61.5	42.1	22.4	18.6	49.0
MAX	34	901	3,220	4,490	1,940	1,490	2,050	160	259	187	127	318
MIN	4.8	9.1	120	185	248	72	43	31	14	7.2	7.0	13
CFSM	.03	.39	1.81	3.52	1.84	1.79	1.18	.23	.16	.09	.07	.19
IN.	.04	.44	2.09	4.05	1.92	2.06	1.32	.27	.18	.10	.08	.21

CAL YR 1973 TOTAL 114,612.4 MEAN 314 MAX 3,220 MIN 4.8 CFSM 1.20 IN 16.27
WTR YR 1974 TOTAL 89,892.6 MEAN 246 MAX 4,490 MIN 4.8 CFSM .94 IN 12.76

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0700	17.44	3,530	01-19	1800	18.53	5,030

NOTE.--No gage-height record Oct. 1 to Nov. 8.

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^2 (1,173 km^2).

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.--10 years, 371 ft^3/s (10.51 m^3/s), 11.12 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,040 ft^3/s (171 m^3/s) Jan. 20, gage height, 12.73 ft (3.880 m); minimum daily, 8.2 ft^3/s (0.23 m^3/s) Aug. 26.
Period of record: Maximum discharge, 6,620 ft^3/s (187 m^3/s) Dec. 11, 1966, gage height, 13.01 ft (3.965 m); minimum daily, 5.1 ft^3/s (0.14 m^3/s) Oct. 8, 1964.
Flood in April 1964 reached a stage of 13.13 ft (4.002 m), from floodmark, discharge, 6,900 ft^3/s (195 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	27	757	900	1,080	956	2,030	73	51	334	8.7	349
2	16	22	374	640	726	899	1,180	76	42	321	9.0	228
3	15	25	285	500	545	687	912	71	38	135	9.5	417
4	13	21	254	400	422	774	1,900	67	33	57	9.5	496
5	14	18	254	330	360	1,370	2,780	56	30	39	11	200
6	15	15	248	300	330	1,590	2,590	51	32	45	11	73
7	17	13	216	290	310	1,450	1,570	45	31	29	10	37
8	15	13	198	290	300	867	975	61	38	21	9.0	23
9	13	11	189	310	285	598	956	148	142	18	9.0	18
10	12	11	180	330	270	951	1,280	125	117	16	9.0	15
11	11	12	178	300	265	835	1,250	102	63	14	9.3	13
12	11	12	178	290	265	572	756	632	40	13	9.5	14
13	11	13	205	280	350	467	492	518	30	12	10	857
14	12	13	225	300	841	400	372	235	25	12	16	1,100
15	12	14	222	340	810	433	302	545	23	12	14	450
16	15	15	198	443	521	991	252	433	21	11	15	138
17	14	20	190	1,050	425	1,160	228	271	20	11	20	66
18	13	21	185	1,610	436	795	214	413	19	11	25	39
19	12	17	180	3,590	859	552	200	299	18	11	20	27
20	12	16	180	5,900	1,440	450	179	202	18	10	13	21
21	12	16	190	5,160	1,650	410	128	157	372	10	9.8	17
22	12	15	200	4,000	1,940	382	106	355	324	9.8	8.5	21
23	12	14	200	3,370	2,210	291	101	355	923	9.8	8.7	19
24	13	18	194	3,150	2,020	186	89	238	613	10	8.7	15
25	13	209	814	2,450	1,030	144	74	149	246	9.8	8.5	13
26	12	624	2,040	1,750	576	138	70	103	138	10	8.2	12
27	13	514	3,860	1,740	529	204	66	79	92	9.8	8.5	11
28	13	823	4,290	2,030	621	257	62	66	70	9.8	57	11
29	13	1,320	3,270	2,470	------	1,040	60	62	49	9.5	257	12
30	16	1,320	1,500	2,270	------	1,960	61	60	147	9.3	334	12
31	22	------	2,100	1,660	------	2,630	------	58	------	9.0	273	------
TOTAL	422	5,202	23,554	48,443	21,416	24,439	21,235	6,105	3,805	1,238.8	1,229.4	4,724
MEAN	13.6	173	760	1,563	765	788	708	197	127	40.0	39.7	157
MAX	22	1,320	4,290	5,900	2,210	2,630	2,780	632	923	334	334	1,100
MIN	11	11	178	280	265	138	60	45	18	9.0	8.2	11
CFSM	.03	.38	1.68	3.45	1.69	1.74	1.56	.43	.28	.09	.09	.35
IN.	.03	.43	1.93	3.98	1.76	2.01	1.74	.50	.31	.10	.10	.39

CAL YR 1973 TOTAL 180,603.0 MEAN 495 MAX 4,290 MIN 11 CFSM 1.09 IN 14.83
WTR YR 1974 TOTAL 161,813.2 MEAN 443 MAX 5,900 MIN 8.2 CFSM .98 IN 13.29

PEAK DISCHARGE (BASE, 1,900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0200	11.80	4,470	02-23	2000	9.37	2,340
01-20	0700	12.73	6,040	03-31	1100	9.91	2,700
01-29	1500	9.58	2,470	04-05	2000	10.42	3,080

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

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
09...	1300	4.0	12	8	.26	--	--
28...	1225	8.0	761	197	405	79	84
DEC.							
13...	1645	1.0	203	14	7.7	--	--
MAR.							
15...	1125	5.0	382	80	83	--	--
APR.							
19...	1200	12.0	192	69	36	--	--
MAY							
23...	1100	18.0	364	472	464	75	88
JUNE							
28...	1000	18.0	72	148	29	--	--
AUG.							
02...	1000	24.0	9.2	177	4.4	--	--

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
NOV.						
09...	--	--	--	--	--	--
28...	91	95	98	99	99	100
DEC.						
13...	--	--	--	--	--	--
MAR.						
15...	--	--	--	--	--	--
APR.						
19...	--	--	--	--	--	--
MAY						
23...	93	98	99	100	--	--
JUNE						
28...	--	--	--	--	--	--
AUG.						
02...	--	--	--	--	--	--

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 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^2 (1,857 km^2).

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, 76,450 acre-ft (94.3 hm^3) Jan. 28, elevation, 783.64 ft (238.853 m); minimum, 2,020 acre-ft (2.49 hm^3) Nov. 26, elevation, 732.05 ft (223.129 m).
Period of record: Maximum contents, 76,450 acre-ft (94.3 hm^3) Jan. 28, 1974, elevation, 783.64 ft (238.853 m); minimum, 2,020 acre-ft (2.49 hm^3) Nov. 26, 1973, elevation, 732.05 ft (223.129 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^3), elevation, 737 ft (224.6 m). Seasonal pool capacity is 12,500 acre-ft (15.4 hm^3), elevation, 749 ft (228.3 m). Capacity at flood control pool is 153,100 acre-ft (189 hm^3), elevation, 798 ft (243.2 m). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	746.84	10,610	-
Oct. 31	742.98	7,680	-2,930
Nov. 30	746.50	10,330	+2,650
Dec. 31	763.25	29,160	+18,830
Calendar year 1973	-	-	+18,930
Jan. 31	781.99	70,940	+41,780
Feb. 28	736.88	4,060	-66,880
Mar. 31	749.28	12,740	+8,680
Apr. 30	745.25	9,340	-3,400
May 31	749.35	12,800	+3,460
June 30	749.35	12,800	0
July 31	748.98	12,460	-340
Aug. 31	749.58	13,010	+550
Sept. 30	749.01	12,490	-520
Water year 1974	-	-	+1,880

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 (658 km).

DRAINAGE AREA.--721 mi^2 (1,867 km^2).

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

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 700.04 ft (213.372 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 5, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 612 ft^3/s (17.33 m^3/s), 11.52 in/yr (293 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	111	151	3,000	3,850	4,530	903	2,490	36	138	160	27	315
2	104	151	2,640	3,670	4,450	1,780	2,640	28	146	385	27	274
3	85	133	1,450	3,410	4,440	1,920	2,620	24	104	434	27	357
4	85	107	530	3,520	4,470	1,320	2,740	24	104	183	27	241
5	85	129	530	2,550	4,460	2,190	2,900	24	69	85	28	111
6	85	88	522	1,370	4,320	2,750	3,330	24	79	85	28	111
7	85	120	427	810	4,130	2,750	4,040	24	138	85	28	355
8	85	147	301	660	4,100	2,670	3,760	25	81	85	28	254
9	96	111	308	597	3,310	2,530	2,920	259	141	85	28	141
10	107	88	308	554	1,710	2,490	2,610	399	260	88	28	50
11	142	88	274	588	670	2,180	2,420	469	260	156	30	20
12	133	85	210	640	434	1,130	2,300	976	171	142	32	18
13	107	85	274	490	434	413	2,110	1,740	128	85	38	22
14	77	104	315	498	476	215	1,960	1,790	85	48	42	120
15	68	151	448	579	959	54	857	994	81	38	42	541
16	68	151	315	660	1,140	57	234	1,540	81	36	38	860
17	68	151	248	860	830	48	193	1,100	81	38	36	390
18	68	228	267	1,270	579	54	128	1,120	81	42	111	3.8
19	85	188	215	1,910	926	640	100	2,020	81	42	155	15
20	96	252	215	2,040	1,730	1,340	133	2,270	85	42	88	171
21	96	413	261	2,160	2,510	1,670	128	2,380	208	42	40	660
22	96	399	322	2,760	3,000	2,070	96	2,090	204	42	3.4	381
23	100	371	280	2,840	3,180	2,190	88	1,480	380	42	17	32
24	100	371	241	3,400	3,200	2,070	68	1,320	859	42	22	32
25	85	817	399	3,840	3,150	1,930	68	680	741	44	25	32
26	68	1,770	1,100	4,320	2,980	1,310	68	315	280	44	30	32
27	68	1,140	2,340	3,610	2,570	406	68	151	210	44	30	32
28	65	1,330	3,000	3,400	1,550	308	68	100	115	44	51	32
29	71	2,200	3,630	4,260	------	413	48	204	88	44	81	32
30	77	2,930	3,980	4,450	------	1,130	36	210	88	44	111	32
31	100	------	3,960	4,580	------	2,100	------	104	------	34	215	------
TOTAL	2,766	14,449	32,310	70,146	70,238	43,031	41,221	23,920	5,567	2,810	1,513.4	5,666.8
MEAN	89.2	482	1,042	2,263	2,509	1,388	1,374	772	186	90.6	48.8	189
MAX	142	2,930	3,980	4,580	4,530	2,750	4,040	2,380	859	434	215	860
MIN	65	85	210	490	434	48	36	24	69	34	3.4	3.8

CAL YR 1973 TOTAL 294,661.0 MEAN 807 MAX 4,230 MIN 22
WTR YR 1974 TOTAL 313,638.2 MEAN 859 MAX 4,580 MIN 3.4

03323500 Wabash River at Huntington, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 4,760 ft^3/s (135 m^3/s) Jan. 26, gage height, 14.91 ft (4.545 m); minimum daily, 3.4 ft^3/s (0.096 m^3/s) Aug. 22.

Period of record: Maximum discharge, 14,900 ft^3/s (422 m^3/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^3/s (0.068 m^3/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.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C Aug. 22; minimum, 3.0°C Dec. 27-31, Jan. 18-23, Feb. 16, 17, 27, 28.

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

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

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

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	20.5	14.0	13.0	9.0	8.5	3.5	3.5	4.5	4.5	5.5	4.0
2	21.5	19.5	14.0	13.0	8.5	8.0	3.5	3.5	4.5	4.5	6.0	5.5
3	22.0	20.5	14.0	12.5	8.0	8.0	3.5	3.5	4.5	4.5	9.5	6.0
4	21.5	20.5	13.5	12.0	8.5	8.0	3.5	3.5	4.5	4.5	10.5	9.5
5	20.5	18.5	13.0	10.5	8.5	8.5	3.5	3.5	4.5	4.5	10.5	10.5
6	19.5	18.0	11.0	9.5	8.5	7.5	4.5	3.5	4.5	4.0	10.5	10.5
7	20.5	19.0	11.0	10.0	7.5	6.5	5.0	4.0	4.0	4.0	10.5	10.5
8	21.0	20.0	11.0	10.0	6.5	6.5	5.0	3.5	4.0	4.0	10.5	10.5
9	21.5	19.5	10.0	9.5	6.5	6.0	5.0	4.0	4.0	3.5	10.5	10.5
10	21.0	19.0	9.5	9.0	6.0	5.5	5.5	5.0	3.5	3.5	10.5	10.5
11	21.0	19.0	9.5	9.0	6.0	5.5	5.0	3.5	4.5	3.5	10.5	9.0
12	20.0	19.0	9.5	9.5	7.0	6.0	5.0	3.5	4.5	4.5	9.0	8.5
13	19.5	19.0	10.5	9.5	6.5	5.5	6.0	4.0	4.5	4.5	9.0	8.0
14	19.5	18.0	10.5	10.5	5.5	5.5	5.5	4.5	4.5	4.0	11.5	7.5
15	20.5	18.5	11.5	10.5	5.5	4.0	4.5	4.5	4.0	3.5	10.5	9.0
16	19.5	16.5	11.0	9.5	5.5	4.0	4.5	4.0	3.5	3.0	9.0	8.0
17	17.0	15.5	10.0	9.5	6.0	5.5	4.0	3.5	5.0	3.0	9.0	8.0
18	16.5	15.5	10.0	9.5	6.0	5.5	3.5	3.0	5.5	4.5	10.0	8.5
19	16.5	14.5	10.0	10.0	6.0	6.0	3.0	3.0	5.5	3.5	10.0	7.0
20	17.0	15.5	10.0	10.0	6.0	5.5	3.0	3.0	3.5	3.5	7.0	7.0
21	16.5	15.0	10.5	10.0	6.0	6.0	3.0	3.0	4.0	3.5	7.0	7.0
22	16.5	14.5	10.5	10.0	6.0	5.5	3.0	3.0	4.0	3.5	7.0	7.0
23	16.5	14.5	10.5	10.0	5.5	5.5	3.5	3.0	4.5	4.0	7.0	7.0
24	16.5	15.0	10.5	10.5	6.0	5.5	3.5	3.5	4.5	4.5	7.0	6.5
25	17.0	15.5	11.0	10.5	6.0	4.0	4.0	3.5	4.5	4.0	6.5	6.0
26	16.0	15.0	10.5	10.5	4.5	3.5	4.0	4.0	4.0	3.5	6.0	6.0
27	15.5	14.5	11.5	10.5	3.5	3.0	4.0	4.0	3.5	3.0	9.0	6.0
28	15.5	15.0	11.5	11.0	3.0	3.0	4.0	4.0	4.0	3.0	8.5	8.0
29	15.0	14.0	11.0	9.5	3.0	3.0	4.5	4.0	---	---	8.0	8.0
30	14.5	14.0	9.5	9.0	3.0	3.0	4.5	4.5	---	---	8.0	8.0
31	14.5	14.0	---	---	3.5	3.0	4.5	4.5	---	---	8.0	8.0
MONTH	22.0	14.0	14.0	9.0	9.0	3.0	6.0	3.0	5.5	3.0	11.5	4.0

03323500 Wabash River at Huntington, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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.

DRAINAGE AREA.--263 mi^2 (681 km^2).

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 (2.679 m) lower and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--31 years, 225 ft^3/s (6.372 m^3/s), 11.62 in/yr (295 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,730 ft^3/s (106 m^3/s) Jan. 22, gage height, 16.41 ft (5.002 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Aug. 27.
Period of record: Maximum discharge, 5,990 ft^3/s (170 m^3/s) Jan. 4, 1950; maximum gage height, 18.43 ft (5.617 m) Feb. 11, 1959; minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Oct. 8, 1946, site and datum then in use.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

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	24	48	412	450	400	216	189	112	92	43	20	15
2	20	49	244	350	270	200	384	90	82	38	20	15
3	20	37	183	275	210	203	324	90	77	35	22	18
4	23	31	149	225	170	673	1,740	79	71	35	22	24
5	40	29	193	180	145	2,020	1,230	70	67	52	22	21
6	29	25	184	150	115	1,590	720	67	74	43	22	17
7	26	26	106	130	99	769	399	60	68	38	20	15
8	32	25	90	110	88	391	430	223	77	36	19	14
9	27	25	84	98	82	672	414	846	103	32	20	14
10	23	23	83	87	79	1,320	299	466	79	33	25	14
11	22	25	72	84	81	545	232	285	67	34	26	13
12	20	25	72	84	93	494	229	1,010	66	29	26	21
13	21	24	85	87	165	290	248	553	60	28	21	39
14	21	24	119	92	160	184	199	271	58	28	26	39
15	23	26	121	148	130	233	161	1,330	61	30	29	27
16	19	38	108	171	90	939	129	1,140	56	29	24	24
17	19	35	83	367	97	549	113	1,910	53	25	28	21
18	19	33	71	476	119	351	105	2,460	47	25	24	18
19	20	33	66	1,910	576	301	100	1,470	44	25	24	18
20	21	29	62	2,360	1,090	248	91	573	44	24	19	18
21	21	28	60	3,450	645	232	89	320	141	24	17	17
22	24	28	58	3,690	2,090	226	95	274	90	24	15	16
23	22	28	56	3,510	1,950	199	89	1,380	130	23	14	17
24	21	28	55	2,880	800	165	78	832	84	24	14	16
25	21	115	400	2,040	450	137	71	377	62	23	14	16
26	21	443	2,400	1,200	215	144	69	240	55	23	14	16
27	21	259	3,000	2,070	155	141	68	177	53	22	12	16
28	24	752	2,750	1,750	170	134	72	141	48	21	16	17
29	32	1,610	2,200	1,850	------	131	186	129	46	22	21	22
30	43	982	900	840	------	145	129	117	45	20	19	26
31	39	------	610	580	------	196	------	106	------	19	16	------
TOTAL	758	4,883	15,076	31,694	10,734	14,038	8,682	17,198	2,100	907	631	584
MEAN	24.5	163	486	1,022	383	453	289	555	70.0	29.3	20.4	19.5
MAX	43	1,610	3,000	3,690	2,090	2,020	1,740	2,460	141	52	29	39
MIN	19	23	55	84	79	131	68	60	44	19	12	13
CFSM	.09	.62	1.85	3.89	1.46	1.72	1.10	2.11	.27	.11	.08	.07
IN.	.11	.69	2.13	4.48	1.52	1.99	1.23	2.43	.30	.13	.09	.08

CAL YR 1973 TOTAL 85,664 MEAN 235 MAX 3,000 MIN 18 CFSM .89 IN 12.12
WTR YR 1974 TOTAL 107,285 MEAN 294 MAX 3,690 MIN 12 CFSM 1.12 IN 15.17

PEAK DISCHARGE (BASE, 2,800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	unknown	unknown	3,100[a]	01-22	0500	16.41	3,730

a about

NOTE.--No gage-height record Dec. 6 to Jan. 12, Jan. 27 to Feb. 16.

03324000 Little River near Huntington, Ind.--Continued

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
28...	1015	8.0	778	442	929	53	66
JAN.							
12...	1300	.5	85	29	6.7	--	--
23...	1825	--	3230	85	741	73	77
FEB.							
16...	0955	.5	90	57	14	--	--
MAR.							
16...	1110	4.0	1110	267	800	73	80
APR.							
20...	1055	12.0	93	33	8.3	--	--
JUNE							
07...	1625	23.0	67	62	11	--	--
AUG.							
22...	1535	19.0	15	45	1.8	--	--
SEP.							
24...	1040	11.0	15	44	1.8	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.							
28...	77	87	93	97	97	98	100
JAN.							
12...	--	--	--	--	--	--	--
23...	78	80	82	83	84	100	--
FEB.							
16...	--	--	--	--	--	--	--
MAR.							
16...	87	91	95	97	98	100	--
APR.							
20...	--	--	--	--	--	--	--
JUNE							
07...	--	--	--	--	--	--	--
AUG.							
22...	--	--	--	--	--	--	--
SEP.							
24...	--	--	--	--	--	--	--

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, 2.4 miles (3.9 km) downstream from Butternut Creek, 3.2 miles (5.1 km) west of Portland, and 3.7 miles (6.0 km) downstream from Little Salamonie River.

DRAINAGE AREA.--85.6 mi^2 (221.7 km^2).

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 Indiana Flood Control and Water Resources Commission). 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.--15 years, 71.4 ft^3/s (2.022 m^3/s), 11.32 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,530 ft^3/s (71.6 m^3/s) Jan. 19, gage height, 14.44 ft (4.401 m); minimum daily 1.4 ft^3/s (0.040 m^3/s) Oct. 1, 22.
Period of record: Maximum discharge, 3,460 ft^3/s (98.0 m^3/s) Mar. 5, 1963, gage height, 16.96 ft (5.169 m); minimum daily, 0.4 ft^3/s (0.01 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	16	45	50	62	197	156	16	6.9	553	3.5	33
2	3.1	15	29	41	51	98	132	13	5.2	58	3.1	48
3	3.4	7.0	24	35	39	72	155	13	5.2	26	3.9	151
4	12	5.3	22	30	32	60	1,070	12	5.4	20	3.0	63
5	8.0	3.9	26	27	30	593	254	9.3	5.7	39	2.7	23
6	4.7	4.4	22	24	28	161	174	9.3	7.9	15	3.5	12
7	2.4	4.7	15	22	26	186	98	8.9	6.3	10	3.3	8.6
8	1.9	4.4	11	21	25	62	165	19	17	7.9	3.5	4.9
9	2.3	4.2	9.3	20	24	62	308	33	12	6.9	3.3	3.9
10	1.9	3.9	10	19	23	81	253	21	8.6	6.9	2.9	4.7
11	1.8	2.9	10	21	22	50	102	16	6.3	5.7	2.2	7.5
12	1.8	2.3	8.3	17	24	43	70	212	5.4	5.2	2.5	35
13	6.4	3.6	16	18	134	34	55	85	4.7	4.2	3.5	178
14	3.6	3.9	37	20	246	28	44	40	4.4	3.9	3.5	69
15	1.8	9.0	27	39	79	38	35	106	5.4	4.2	3.3	26
16	2.1	8.0	18	131	52	320	28	65	3.3	3.9	3.7	14
17	1.8	5.6	13	694	40	110	23	63	3.5	3.9	4.7	10
18	2.3	4.4	11	912	38	66	21	111	4.2	3.9	17	7.2
19	2.3	3.6	11	2,280	347	53	19	58	4.2	4.2	46	5.7
20	2.4	3.9	12	630	358	40	16	34	7.3	3.9	7.5	6.2
21	2.1	8.0	10	458	156	38	15	24	226	2.7	4.4	14
22	1.4	5.8	9.3	283	787	35	17	21	108	3.3	3.9	5.7
23	1.6	2.6	8.8	967	205	32	16	19	246	4.7	3.7	4.4
24	1.9	12	23	217	86	28	13	16	61	4.2	2.4	4.4
25	2.3	254	894	116	56	23	11	13	28	3.1	2.1	3.9
26	2.4	200	1,720	110	48	29	11	10	22	3.3	2.2	3.9
27	2.3	153	931	618	40	66	10	9.7	18	3.1	4.5	4.2
28	4.4	242	337	207	161	49	9.3	9.3	12	2.5	112	3.7
29	11	314	139	333	------	1,060	10	9.3	9.3	2.5	239	4.4
30	10	84	86	143	------	902	18	9.3	250	3.5	127	3.3
31	6.9	------	59	91	------	420	------	8.6	------	3.5	30	------
TOTAL	113.7	1,391.4	4,593.7	8,594	3,219	5,036	3,308.3	1,093.7	1,109.2	822.1	657.8	762.6
MEAN	3.67	46.4	148	277	115	162	110	35.3	37.0	26.5	21.2	25.4
MAX	12	314	1,720	2,280	787	1,060	1,070	212	250	553	239	178
MIN	1.4	2.3	8.3	17	22	23	9.3	8.6	3.3	2.5	2.1	3.3
CFSM	.04	.54	1.73	3.24	1.34	1.89	1.29	.41	.43	.31	.25	.30
IN.	.05	.60	2.00	3.73	1.40	2.19	1.44	.48	.48	.36	.29	.33

CAL YR 1973 TOTAL 33,762.04 MEAN 92.5 MAX 1,950 MIN .72 CFSM 1.08 IN 14.67
WTR YR 1974 TOTAL 30,701.50 MEAN 84.1 MAX 2,280 MIN 1.4 CFSM .98 IN 13.34

PEAK DISCHARGE (BASE, 1,400 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	0400	13.04	2,060	03-29	1600	11.64	1,700
01-19	0900	14.44	2,530	04-04	1000	12.88	2,020
01-23	0700	10.42	1,400				

03324300 Salamonie River near Warren, Ind.

LOCATION.--Lat 40°42'45", long 85°27'13", in SE¼SE¼ sec.12, T.26 N., R.9 E., Huntington County, on right downstream side of county road bridge, 1,700 ft (518 m) downstream from small right and left bank tributaries, 4,000 ft (1,219 m) upstream from abandoned concrete and stone dam, and 2.4 miles (3.9 km) northwest of Warren.

DRAINAGE AREA.--425 mi^2 (1,101 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to July 28, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 388 ft^3/s (10.99 m^3/s), 12.40 in/yr (315 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,090 ft^3/s (229 m^3/s) Jan. 21, gage height, 14.20 ft (4.328 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Oct. 21, Aug. 26.
Period of record: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Feb. 10. 1959, gage height, 17.05 ft (5.197 m); minimum daily, 5.8 ft^3/s (0.16 m^3/s) Sept. 19, 1959.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	42	43	726	520	600	996	2,650	120	65	525	28	129
2	46	55	446	400	439	685	1,390	124	59	761	29	93
3	52	55	324	330	342	474	1,670	124	55	191	38	101
4	53	58	272	270	277	929	5,340	116	54	109	43	211
5	47	50	272	240	229	3,120	4,020	108	55	85	40	146
6	78	43	224	200	188	2,380	2,760	104	57	124	32	62
7	68	37	179	175	213	911	1,010	96	63	79	29	39
8	44	35	160	150	174	543	1,130	229	101	65	34	30
9	35	31	132	165	153	669	1,240	677	201	49	28	24
10	29	31	120	150	140	939	1,780	373	154	44	26	21
11	25	30	108	140	130	512	929	460	97	40	26	24
12	22	31	100	132	124	373	535	2,140	81	37	22	32
13	24	31	120	132	165	294	412	1,430	69	36	25	623
14	24	30	188	132	874	240	324	583	60	32	38	662
15	22	108	183	160	709	336	266	2,570	54	31	20	261
16	21	229	160	213	348	1,140	218	1,680	50	31	19	115
17	24	112	100	996	277	920	188	1,310	48	31	41	65
18	22	69	90	2,810	336	467	170	1,470	46	37	20	46
19	19	52	84	5,280	1,510	348	155	877	43	40	21	36
20	19	43	80	7,000	2,540	277	141	459	44	38	23	33
21	17	37	77	7,400	1,640	250	132	290	293	36	54	30
22	21	35	76	4,510	3,110	229	132	269	747	38	31	27
23	22	35	77	4,030	2,890	213	132	257	1,170	41	23	26
24	22	63	85	3,370	1,170	188	124	202	805	36	19	29
25	22	1,480	1,300	1,980	527	165	108	149	271	32	18	26
26	21	2,460	4,780	986	360	165	104	119	160	34	17	25
27	22	1,580	6,080	2,890	294	213	100	104	124	36	21	30
28	24	2,680	5,320	2,790	418	266	100	88	102	37	27	32
29	27	3,400	3,360	3,000	------	1,980	100	84	82	39	71	39
30	31	1,720	1,260	1,950	------	3,310	112	80	70	35	319	45
31	33	------	726	939	------	3,710	------	74	------	29	207	------
TOTAL	978	14,663	27,209	53,440	20,177	27,242	27,472	16,766	5,280	2,778	1,389	3,062
MEAN	31.5	489	878	1,724	721	879	916	541	176	89.6	44.8	102
MAX	78	3,400	6,080	7,400	3,110	3,710	5,340	2,570	1,170	761	319	662
MIN	17	30	76	132	124	165	100	74	43	29	17	21
CFSM	.07	1.15	2.07	4.06	1.70	2.07	2.16	1.27	.41	.21	.11	.24
IN.	.09	1.28	2.38	4.68	1.77	2.38	2.40	1.47	.46	.24	.12	.27

CAL YR 1973 TOTAL 177,859 MEAN 487 MAX 6,080 MIN 17 CFSM 1.15 IN 15.57
WTR YR 1974 TOTAL 200,456 MEAN 549 MAX 7,400 MIN 17 CFSM 1.29 IN 17.55

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-29	0200	10.47	3,710	01-27	1500	10.00	3,200	03-31	0600	10.60	3,860
12-27	1700	12.68	6,210	02-22	1900	10.31	3,540	04-04	1300	12.23	5,680
01-21	0100	14.20	8,090	03-05	1600	10.02	3,220				

03324300 Salamonie River near Warren, Ind.--Continued

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.												
12...	0935	18.5	24	31	2.0	--	--	--	--	--	--	--
JAN.												
13...	1040	1.0	117	9	2.8	--	--	--	--	--	--	--
25...	1120	--	2010	123	668	90	93	94	95	97	98	100
FEB.												
16...	1255	.5	364	55	54	--	--	--	--	--	--	--
MAR.												
16...	1700	4.0	1140	180	554	79	90	93	97	98	99	100
APR.												
20...	1515	14.0	144	55	21	--	--	--	--	--	--	--
JUNE												
08...	1355	22.0	78	76	16	--	--	--	--	--	--	--
AUG.												
16...	1020	24.0	17	19	.87	--	--	--	--	--	--	--
SEP.												
24...	1555	17.0	28	29	2.2	--	--	--	--	--	--	--

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^2 (1,432 km^2).

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, 127,160 acre-ft (157 hm^3) Jan.31, elevation, 772.58 ft (235.482 m); minimum, 12,520 acre-ft (15.4 hm^3) Jan. 11, elevation, 729.39 ft (222.318 m).
Period of record: Maximum contents, 157,740 acre-ft (194 hm^3) Apr. 26, 1972, elevation, 778.43 ft (237.265 m); minimum, 10,000 acre-ft (12.3 hm^3) 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^3), elevation, 730 ft (222.5 m). Seasonal pool capacity is 60,700 acre-ft (74.8 hm^3), elevation, 755 ft (230.1 m). Capacity at uncontrolled spillway elevation, 793 ft (241.7 m) is 263,600 acre-ft (325 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 17, 1967.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	751.72	51,830	-
Oct. 31	742.79	31,830	-20,000
Nov. 30	751.19	50,480	+18,650
Dec. 31	756.60	65,390	+14,910
Calendar year 1973	-	-	+21,050
Jan. 31	772.52	126,870	+61,480
Feb. 28	739.40	25,590	-101,280
Mar. 31	745.20	36,720	+11,130
Apr. 30	754.52	59,340	+22,620
May 31	755.23	61,350	+2,010
June 30	755.02	60,750	-600
July 31	755.06	60,870	+120
Aug. 31	755.35	61,700	+830
Sept. 30	753.97	57,800	-3,900
Water year 1974	-	-	+5,970

03324500 Salamonie River at Dora, Ind.

LOCATION.--Lat 40°48'42", long 85°41'02", in NE¼NE¼ sec.12, T.27 N., R.7 E., Wabash County, on right bank 1.5 miles (2.4 km) northwest of Dora and 3 miles (5 km) upstream from mouth.

DRAINAGE AREA.--557 mi^2 (1,443 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft (205.423 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1951, nonrecording gage at site 1.5 miles (2.4 km) upstream at datum 688.59 ft (209.882 m) above mean sea level (levels by Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank, 2,000 ft (610 m) upstream at datum 679.77 ft (207.194 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--50 years (1924 to current year), 507 ft^3/s (14.36 m^3/s), 12.36 in/yr (314 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,750 ft^3/s (191 m^3/s) Feb. 11, gage height, 11.03 ft (3.362 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Aug. 6.

Period of record: Maximum discharge, 16,500 ft^3/s (467 m^3/s) May 18, 1943, gage height, 14.75 ft (4.496 m), from graph based on gage readings, site and datum then in use; minimum daily, 0.70 ft^3/s (0.020 m^3/s) Oct. 30, 1968, result of abnormal regulation.

REMARKS.--Records good. Flow regulated by Salamonie Lake (See sta 03324450) about 0.5 mile (0.8 km) upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	399	1,290	1,180	1,870	3,270	406	25	255	76	17	439
2	442	398	2,110	1,720	2,230	3,170	686	25	208	440	18	282
3	341	395	2,810	2,810	2,470	2,320	691	25	164	604	18	212
4	251	392	3,080	3,110	2,620	1,620	705	25	147	553	18	197
5	251	380	3,780	3,060	2,600	1,030	726	26	138	263	18	171
6	252	356	4,210	3,700	2,590	315	738	26	125	123	11	153
7	252	355	4,020	4,710	2,820	322	744	26	100	115	12	122
8	251	354	3,020	4,830	2,950	398	749	29	101	115	17	122
9	251	352	702	4,330	2,920	73	749	27	127	115	17	66
10	251	363	164	2,660	3,500	73	998	26	182	102	17	38
11	451	383	182	436	5,370	73	835	26	182	72	29	76
12	545	381	183	60	6,460	73	1,200	27	160	52	32	168
13	543	368	183	168	6,190	2,060	2,030	172	120	37	32	465
14	540	343	183	219	5,970	3,070	2,990	966	106	35	32	596
15	660	344	222	255	5,720	2,990	3,410	870	94	26	32	596
16	749	404	266	269	5,430	2,930	2,560	197	73	22	34	596
17	510	510	229	325	2,850	2,870	970	170	67	22	62	596
18	376	506	153	1,660	918	2,810	434	90	67	22	120	452
19	376	504	194	1,670	1,330	1,470	185	89	61	22	120	388
20	376	475	173	538	2,320	185	185	449	50	22	120	234
21	372	414	156	113	2,330	46	185	892	131	22	120	307
22	372	425	154	116	883	46	185	984	468	17	120	384
23	360	422	112	116	329	47	186	644	971	20	117	372
24	333	420	116	115	335	47	101	598	1,470	20	64	206
25	333	308	373	117	337	47	25	1,830	1,450	20	28	102
26	345	100	437	122	1,340	46	25	3,310	197	20	23	117
27	366	106	99	122	2,770	46	25	3,640	194	20	40	141
28	380	120	102	118	3,370	46	25	3,740	170	20	125	171
29	403	120	317	120	------	48	25	3,930	115	17	209	171
30	402	482	483	117	------	50	25	2,210	100	16	209	147
31	400	------	734	743	------	54	------	233	------	16	290	------
TOTAL	12,176	10,879	30,237	39,629	80,822	31,645	22,798	25,327	7,793	3,046	2,121	8,087
MEAN	393	363	975	1,278	2,887	1,021	760	817	260	98.3	68.4	270
MAX	749	510	4,210	4,830	6,460	3,270	3,410	3,930	1,470	604	290	596
MIN	251	100	99	60	329	46	25	25	50	16	11	38

CAL YR 1973 TOTAL 236,627 MEAN 648 MAX 4,670 MIN 21
WTR YR 1974 TOTAL 274,560 MEAN 752 MAX 6,460 MIN 11

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 miles (11 km) downstream from Salamonie River, and at mile 387.2 (623.0 km).

DRAINAGE AREA.--1,768 mi^2 (4,579 km^2).

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.--51 years, 1,488 ft^3/s (42.14 m^3/s) 11.43 in/yr (290 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Jan. 21, gage height, 14.74 ft (4.493 m); minimum daily discharge 69 ft^3/s (1.95 m^3/s) Aug. 7.

Period of record: Maximum discharge, 49,600 ft^3/s (1,400 m^3/s) May 18, 1943; maximum gage height, 24.44 ft (7.499 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 19 ft^3/s (0.54 m^3/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^3/s (2,550 m^3/s), from rating curve extended above 49,000 ft^3/s (1,390 m^3/s).

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	627	4,890	5,790	7,210	4,740	3,100	367	715	255	79	775
2	623	646	5,160	5,700	7,410	4,920	4,480	301	716	603	82	748
3	532	632	4,950	6,490	7,280	5,230	4,200	273	579	1,190	82	566
4	380	586	3,990	7,000	7,450	4,540	6,060	253	517	1,170	81	682
5	392	560	4,370	6,000	7,340	7,750	5,940	224	495	624	81	381
6	381	537	5,080	5,500	7,250	6,140	5,360	208	393	319	79	335
7	380	492	4,790	5,800	7,180	4,960	5,630	197	434	287	69	301
8	393	529	4,000	5,700	7,560	4,150	5,920	353	415	277	78	562
9	378	547	1,690	5,000	7,080	3,950	4,620	1,710	382	271	78	405
10	384	506	741	3,860	5,610	5,260	5,320	1,620	653	268	77	195
11	491	515	723	1,490	5,740	4,030	5,240	1,080	686	250	91	129
12	751	513	622	826	7,100	2,800	5,100	1,720	667	293	106	238
13	731	510	621	890	7,010	2,630	4,700	2,540	466	248	97	813
14	707	475	770	841	6,920	4,080	5,040	3,360	424	166	100	769
15	748	503	834	917	6,880	3,760	5,460	4,230	330	127	95	1,030
16	896	563	978	1,060	6,850	4,720	3,620	3,580	287	101	103	1,650
17	758	725	666	1,330	5,030	4,220	1,750	7,150	265	100	115	1,540
18	488	735	617	2,890	1,960	3,670	1,130	5,520	257	72	181	680
19	482	833	554	7,110	2,890	2,880	622	4,700	246	93	330	438
20	502	728	514	8,250	5,620	1,960	589	3,870	222	91	278	351
21	517	795	572	10,200	6,010	1,900	572	4,090	634	87	264	853
22	517	859	672	8,780	8,270	2,280	590	3,890	1,190	85	190	1,090
23	514	833	655	8,500	6,960	2,620	537	4,490	1,620	87	150	717
24	478	823	530	7,440	5,530	2,450	440	3,770	2,230	88	127	348
25	473	1,340	1,940	6,820	4,450	2,230	264	3,540	2,950	86	80	164
26	453	2,430	5,480	6,500	4,590	2,000	250	4,090	833	87	70	162
27	472	2,080	7,760	8,880	5,730	1,050	244	4,320	657	85	72	177
28	479	3,580	6,770	6,140	5,660	628	240	4,180	560	84	130	217
29	526	4,690	6,480	7,310	------	700	406	4,400	361	84	275	230
30	563	4,800	6,300	6,580	------	1,050	470	3,430	305	79	300	218
31	563	------	5,670	6,590	------	2,400	------	757	------	78	425	------
TOTAL	16,555	33,992	89,389	166,184	174,570	105,698	87,894	84,213	20,489	7,735	4,365	16,764
MEAN	534	1,133	2,884	5,361	6,235	3,410	2,930	2,717	683	250	141	559
MAX	896	4,800	7,760	10,200	8,270	7,750	6,060	7,150	2,950	1,190	425	1,650
MIN	378	475	514	826	1,960	628	240	197	222	72	69	129
CFSM	.30	.64	1.63	3.03	3.53	1.93	1.66	1.54	.39	.14	.08	.32
IN.	.35	.72	1.88	3.50	3.67	2.22	1.85	1.77	.43	.16	.09	.35

CAL YR 1973 TOTAL 707,885 MEAN 1,939 MAX 7,760 MIN 114 CFSM 1.10 IN 14.89
WTR YR 1974 TOTAL 807,848 MEAN 2,213 MAX 10,200 MIN 69 CFSM 1.25 IN 17.00

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, and 2 miles (3 km) east of Ridgeville.

DRAINAGE AREA.--133 mi^2 (344 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 124 ft^3/s (3.512 m^3/s), 12.66 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,300 ft^3/s (93.5 m^3/s) Jan. 19, gage height, 12.01 ft (3.661 m); minimum daily, 3.8 ft^3/s (0.11 m^3/s) Aug. 26.

Period of record: Maximum discharge, 13,900 ft^3/s (394 m^3/s) June 10, 1958, gage height, 16.25 ft (4.953 m); from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 ft^3/s (0.003 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	28	68	100	133	274	293	33	24	94	4.6	136
2	10	17	53	90	115	173	230	30	20	30	5.2	57
3	10	12	46	72	90	134	387	37	19	20	7.6	223
4	16	10	46	62	73	117	956	28	19	18	7.6	79
5	17	9.3	54	57	64	769	351	26	19	21	5.0	28
6	8.9	9.3	39	53	69	290	251	27	20	16	4.6	18
7	7.8	9.8	29	49	120	179	173	25	19	14	4.8	14
8	7.0	9.8	27	47	91	136	240	30	218	12	6.0	11
9	7.4	9.8	26	45	70	110	355	34	86	12	6.0	9.2
10	7.4	9.8	26	43	61	87	365	27	37	12	5.5	9.8
11	7.4	8.9	22	41	55	75	185	27	27	11	4.8	10
12	7.8	8.1	22	38	74	72	141	88	24	9.8	4.0	14
13	9.8	8.1	30	38	237	56	111	52	21	9.2	4.2	18
14	12	8.9	49	45	278	51	95	37	19	8.2	31	18
15	8.1	12	33	53	126	59	74	52	19	7.3	14	11
16	8.1	22	28	258	99	216	62	39	18	8.2	8.5	8.2
17	8.5	12	24	1,110	79	118	53	40	16	7.9	18	8.2
18	8.5	9.8	23	1,910	73	90	51	183	16	7.3	26	7.9
19	8.1	8.9	22	2,850	466	78	47	75	15	7.6	82	7.3
20	8.0	8.9	22	1,550	427	62	42	47	15	7.6	19	7.9
21	7.4	9.3	22	901	223	64	42	37	24	6.0	9.8	9.8
22	7.2	9.3	21	513	1,220	56	45	34	42	5.0	7.0	6.8
23	7.2	8.1	21	998	389	55	43	33	238	6.0	5.7	6.0
24	7.2	11	22	418	190	47	34	32	84	6.8	5.0	6.5
25	7.0	333	794	256	121	42	31	27	43	6.2	4.6	6.8
26	7.0	270	2,060	247	94	58	32	24	30	5.7	3.8	6.5
27	7.0	207	1,520	1,370	94	99	31	22	25	5.5	5.7	6.8
28	8.5	230	665	595	288	77	31	22	22	4.8	31	7.9
29	11	298	337	495	------	1,080	30	24	21	4.2	226	9.8
30	17	110	214	271	------	953	33	53	19	4.0	80	7.9
31	13	------	139	190	------	624	------	29	------	4.6	23	------
TOTAL	285.8	1,718.1	6,504	14,765	5,419	6,301	4,814	1,274	1,219	391.9	670.0	770.3
MEAN	9.22	57.3	210	476	194	203	160	41.1	40.6	12.6	21.6	25.7
MAX	17	333	2,060	2,850	1,220	1,080	956	183	238	94	226	223
MIN	7.0	8.1	21	38	55	42	30	22	15	4.0	3.8	6.0
CFSM	.07	.43	1.58	3.58	1.46	1.53	1.20	.31	.31	.09	.16	.19
IN.	.08	.48	1.82	4.13	1.52	1.76	1.35	.36	.34	.11	.19	.22

CAL YR 1973 TOTAL 51,860.9 MEAN 142 MAX 2,060 MIN 7.0 CFSM 1.07 IN 14.51
WTR YR 1974 TOTAL 44,132.1 MEAN 121 MAX 2,850 MIN 3.8 CFSM .91 IN 12.34

PEAK DISCHARGE (BASE, 2,400 FT^3/S).--Dec. 26 (0400) 2,430 ft^3/s (11.07 ft); Jan. 19 (0300) 3,300 ft^3/s (12.01 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^2 (75.6 km^2).

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, 642 ft^3/s (18.2 m^3/s) Jan. 18, gage height, 13.38 ft (4.078 m); minimum daily, 0.87 ft^3/s (0.025 m^3/s) Aug. 22, Sept. 9.
Period of record: Maximum discharge, 670 ft^3/s (19.0 m^3/s) Apr. 20, 1972, gage height, 13.65 ft (4.161 m); minimum daily, 0.38 ft^3/s (0.011 m^3/s) Sept. 25, 1971.

REMARKS.--Records fair.

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	2.8	5.5	19	25	30	58	66	6.8	6.4	16	1.7	5.4
2	2.4	3.8	15	22	21	32	60	5.0	6.1	7.9	1.6	2.7
3	2.8	2.6	12	18	15	24	126	9.8	5.8	6.4	1.7	8.2
4	5.4	2.4	13	16	12	26	381	5.7	5.7	5.9	1.6	2.6
5	7.4	2.3	14	14	11	206	100	4.2	5.8	5.9	1.4	1.3
6	2.5	2.2	11	13	13	60	55	3.3	6.4	5.4	1.4	1.0
7	1.9	2.2	8.6	12	20	32	33	2.6	7.3	4.9	1.4	.90
8	1.7	2.2	8.4	11	14	22	66	23	17	5.0	1.3	.89
9	1.8	2.1	8.6	10	11	20	115	35	13	4.7	1.3	.87
10	1.8	2.1	8.6	10	8.9	20	87	15	9.3	4.5	1.3	.93
11	1.7	2.1	6.8	10	6.8	16	30	33	7.6	4.2	1.3	.97
12	2.0	2.1	6.5	9.7	12	15	22	237	7.1	4.0	1.3	2.9
13	2.3	2.3	13	9.9	88	12	16	76	6.2	3.8	1.2	6.4
14	3.5	2.2	17	11	100	12	14	46	5.8	3.5	1.2	2.6
15	1.8	3.2	12	12	31	14	9.8	175	6.0	3.3	1.1	1.3
16	1.8	4.3	9.7	30	21	46	8.0	66	5.7	3.2	1.2	1.2
17	1.7	2.5	8.6	125	16	21	7.1	85	5.5	3.1	1.5	1.1
18	1.7	2.2	7.8	288	17	17	6.5	105	5.4	2.9	1.8	1.0
19	1.7	2.3	7.6	448	125	14	5.5	73	5.5	3.0	5.7	1.0
20	2.1	2.3	8.8	194	94	13	5.0	36	6.1	2.7	1.5	1.4
21	1.9	2.8	7.8	188	51	13	5.0	37	48	2.5	.98	1.4
22	2.1	4.4	7.4	149	230	12	5.5	43	42	2.5	.87	1.1
23	2.1	3.8	7.8	327	63	11	5.0	20	80	2.8	.93	1.0
24	2.0	14	8.6	107	32	10	3.6	13	20	2.6	.91	1.1
25	2.1	191	296	56	22	9.7	3.6	9.9	12	2.3	.96	1.1
26	2.2	120	453	83	17	13	3.4	8.8	9.1	2.2	.89	1.1
27	2.4	78	298	226	18	19	3.4	7.8	8.2	2.1	1.0	1.2
28	2.8	137	119	155	67	15	3.4	7.4	7.3	2.0	5.0	1.6
29	3.7	114	72	175	------	218	3.6	2.2	6.8	1.8	11	2.2
30	4.9	39	49	75	------	262	8.6	7.3	16	1.7	4.9	3.4
31	2.8	------	35	44	------	160	------	7.0	------	1.7	1.6	------
TOTAL	79.8	756.9	1,569.6	2,873.6	1,166.7	1,422.7	1,258.0	1,205.8	393.1	124.5	61.54	59.86
MEAN	2.57	25.2	50.6	92.7	41.7	45.9	41.9	38.9	13.1	4.02	1.99	2.00
MAX	7.4	191	453	448	230	262	381	237	80	16	11	8.2
MIN	1.7	2.1	6.5	9.7	6.8	9.7	3.4	2.2	5.4	1.7	.87	.87
CFSM	.09	.86	1.73	3.17	1.43	1.57	1.43	1.33	.45	.14	.07	.07
IN.	.10	.96	2.00	3.66	1.49	1.81	1.60	1.54	.50	.16	.08	.08

CAL YR 1973 TOTAL 10,803.80 MEAN 29.6 MAX 453 MIN 1.7 CFSM 1.01 IN 13.76
WTR YR 1974 TOTAL 10,972.10 MEAN 30.1 MAX 453 MIN .87 CFSM 1.03 IN 13.98

PEAK DISCHARGE (BASE, 275 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-25	2200	12.97	600	03-29	0800	10.13	340
01-18	2400	13.38	642	04-04	0200	12.86	589
01-23	0200	11.92	498	05-12	0700	10.17	343
01-27	0200	10.68	386				

03326500 Mississinewa River at Marion, Ind.

LOCATION.--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 mile (2 km) upstream from Hummels Creek, and 4 miles (6 km) downstream from Lugar Creek.

DRAINAGE AREA.--682 mi^2 (1,766 km^2).

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.--51 years, 632 ft^3/s (17.90 m^3/s), 12.58 in/yr (320 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,700 ft^3/s (360 m^3/s) Jan. 20, gage height, 12.10 ft (3.688 m); minimum daily, 16 ft^3/s (0.45 m^3/s) July 19.
Period of record: Maximum discharge, 25,000 ft^3/s (708 m^3/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^3/s (510 m^3/s); minimum daily, 3.4 ft^3/s (0.096 m^3/s) Oct. 25, 1968.
Flood in March 1913 reached a stage of 19.20 ft (5.852 m) from information by Indiana Flood Control and Water Resources Commission.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	108	1,250	1,110	1,280	1,380	3,270	292	279	254	66	340
2	76	136	865	858	1,050	1,300	2,190	274	246	599	76	238
3	76	202	528	700	851	970	2,360	266	222	365	68	350
4	111	166	571	540	690	1,270	7,390	266	210	250	68	365
5	117	129	550	460	585	2,880	5,040	246	206	254	68	462
6	183	108	468	400	522	2,700	2,380	230	210	210	66	262
7	226	97	387	350	560	1,680	1,680	218	206	176	112	176
8	155	94	325	330	580	1,120	1,560	552	340	166	71	133
9	123	89	292	320	520	1,030	1,920	1,150	620	152	66	114
10	103	84	274	310	430	1,090	2,230	697	529	166	66	100
11	94	81	250	300	404	760	1,680	662	382	149	73	186
12	86	81	234	290	398	641	1,170	2,240	302	129	73	133
13	86	81	254	290	634	543	995	1,820	250	117	68	222
14	81	81	340	300	1,520	462	760	1,050	218	111	66	238
15	84	368	376	306	1,260	357	620	3,210	202	106	64	190
16	84	320	350	360	781	865	522	2,210	186	97	103	139
17	86	190	262	1,060	592	1,050	444	1,710	176	91	106	120
18	86	145	238	3,360	592	753	398	2,290	169	299	76	103
19	84	152	230	11,100	1,390	606	376	2,030	158	16	81	91
20	76	149	214	12,200	2,230	501	350	1,280	162	61	73	81
21	73	126	200	8,720	1,990	462	325	865	243	76	84	76
22	71	117	190	4,520	3,330	420	320	704	1,170	76	123	73
23	71	114	200	5,920	3,120	392	175	585	1,920	84	94	73
24	71	404	214	4,220	1,980	365	284	468	1,720	73	81	73
25	71	2,200	2,040	2,450	1,100	330	262	392	858	81	73	68
26	68	2,890	7,080	1,780	774	325	246	350	515	78	66	68
27	68	2,540	9,070	3,480	669	376	242	310	398	76	71	71
28	68	3,440	6,800	3,650	809	494	242	284	315	73	182	73
29	78	3,040	3,460	4,170	------	2,220	242	279	258	73	162	84
30	84	2,010	2,020	2,480	------	4,820	284	274	234	71	386	76
31	103	------	1,470	1,700	------	5,930	------	270	------	66	641	------
TOTAL	2,921	19,742	41,002	78,034	30,641	38,092	39,957	27,474	12,904	4,595	3,473	4,778
MEAN	94.2	658	1,323	2,517	1,094	1,229	1,332	886	430	148	112	159
MAX	226	3,440	9,070	12,200	3,330	5,930	7,390	3,210	1,920	599	641	462
MIN	68	81	190	290	398	325	175	218	158	16	64	68
CFSM	.14	.96	1.94	3.69	1.60	1.80	1.95	1.30	.63	.22	.16	.23
IN.	.16	1.08	2.24	4.26	1.67	2.08	2.18	1.50	.70	.25	.19	.26

CAL YR 1973 TOTAL 299,924 MEAN 822 MAX 9,070 MIN 12 CFSM 1.21 IN 16.36
WTR YR 1974 TOTAL 303,613 MEAN 832 MAX 12,200 MIN 16 CFSM 1.22 IN 16.56

PEAK DISCHARGE (BASE, 5,600 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0500	10.98	9,540	03-31	0630	8.61	6,520
01-20	1800	12.10	12,700	04-04	0700	9.37	7,690
01-23	0830	8.50	6,350				

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^2 (2,090 km^2).

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, 163,370 acre-ft (201 hm^3) Feb. 1, elevation, 756.34 ft (230.532 m); minimum, 23,290 acre-ft (28.7 hm^3) Dec. 18, elevation, 712.00 ft (217.018 m).
Period of record: Maximum contents, 171,990 acre-ft (212 hm^3) Apr. 3, 1973, elevation, 757.73 ft (230.956 m); minimum, 22,940 acre-ft (28.3 hm^3) Jan. 13, 1969, elevation, 711.73 ft (216.935 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^3), elevation, 712 ft (217.0 m). Seasonal pool capacity is 75,200 acre-ft (92.7 hm^3), elevation, 737 ft (224.6 m). Capacity at uncontrolled spillway elevation, 779 ft (237.4 m) is 368,400 acre-ft (454 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	734.70	68,200	-
Oct. 31	724.92	44,420	-23,780
Nov. 30	732.88	63,120	+18,700
Dec. 31	742.79	95,860	+32,740
Calendar year 1973	-	-	+64,450
Jan. 31	756.29	163,060	+67,200
Feb. 28	718.59	32,840	-130,220
Mar. 31	737.31	76,180	+43,340
Apr. 30	737.18	75,760	-420
May 31	737.12	75,570	-190
June 30	737.21	75,860	+290
July 31	737.09	75,470	-390
Aug. 31	737.25	75,980	+510
Sept. 30	736.18	72,620	-3,360
Water year 1974	-	-	-4,420

03327000 Mississinewa River at Peoria, Ind.

LOCATION.--Lat 40°43'24", long 85°57'27", in SW¼SW¼ sec.3, T.26 N., R.5 E., Miami County, on right bank at Peoria, 3,000 ft (914 m) downstream from flood control dam, 6.7 miles (10.8 km) upstream from mouth, and 6.5 miles (10.4 km) southeast of Peru.

DRAINAGE AREA.--808 mi^2 (2,092 km^2).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.00 ft (201.168 m) above mean sea level. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft (762 m) upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft (762 m) upstream at same datum.

AVERAGE DISCHARGE.--22 years, 701 ft^3/s (19.85 m^3/s), 11.64 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,790 ft^3/s (192 m^3/s) Feb. 11, gage height, 9.74 ft (2.969 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Mar. 15-20.
Period of record: Maximum discharge, 28,000 ft^3/s (793 m^3/s) June 11, 1958, gage height, 19.26 ft (5.870 m), site then in use; minimum daily, 6.2 ft^3/s (0.18 m^3/s) Oct. 3, 1969.

REMARKS.--Records good. Flow regulated by Mississinewa Lake (See sta 03326950) 0.6 mile (1.0 km) upstream, since April 1968.

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

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	357	453	3,200	158	1,820	3,570	126	306	470	232	88	525
2	357	495	4,010	1,500	2,760	2,710	133	306	249	232	64	326
3	357	494	5,100	4,200	3,160	1,740	135	306	248	335	86	225
4	590	491	5,330	5,280	3,650	825	139	306	222	404	86	288
5	713	524	5,050	3,130	4,620	436	143	306	181	352	77	319
6	780	540	2,720	1,950	5,180	136	143	306	181	281	87	291
7	779	539	834	3,960	5,110	153	438	306	190	209	77	246
8	775	535	746	4,860	5,640	315	419	309	195	168	86	175
9	770	534	563	5,100	5,820	127	426	310	428	166	86	114
10	766	498	399	4,900	5,700	129	933	517	543	165	86	117
11	656	444	313	5,030	6,210	131	784	657	524	164	88	117
12	576	443	310	3,050	6,600	132	1,200	658	447	125	86	154
13	598	440	372	1,110	6,350	132	1,810	1,240	281	102	87	171
14	601	439	403	643	6,100	72	2,960	1,650	229	91	87	249
15	431	450	403	555	5,880	35	4,990	1,660	235	87	86	368
16	371	471	441	555	5,600	35	5,860	1,670	242	87	86	364
17	416	523	439	669	2,860	35	5,770	779	242	87	107	673
18	419	546	343	1,180	1,100	35	5,660	161	198	88	120	669
19	418	544	279	766	1,120	35	5,540	161	165	87	119	310
20	417	547	278	148	2,220	35	4,500	159	164	87	119	229
21	415	579	278	154	3,380	36	2,110	159	169	87	100	184
22	415	595	278	161	1,950	217	663	161	591	88	86	186
23	413	591	278	163	408	353	569	161	808	88	86	192
24	411	587	312	1,080	160	352	404	422	1,240	88	86	168
25	427	435	804	2,640	162	968	353	907	1,500	88	86	147
26	434	129	763	3,350	1,740	2,030	353	1,310	924	88	86	147
27	432	132	135	2,050	3,970	2,590	277	1,420	591	88	86	163
28	431	147	145	130	4,210	2,170	247	3,240	421	88	214	192
29	431	149	152	130	------	1,540	248	5,620	232	88	320	184
30	430	1,540	157	131	------	1,570	285	4,920	232	88	318	200
31	429	------	158	731	------	889	------	2,030	------	88	450	------
TOTAL	15,815	14,834	34,993	59,464	103,480	23,533	47,618	32,423	12,342	4,516	3,726	7,693
MEAN	510	494	1,129	1,918	3,696	759	1,587	1,046	411	146	120	256
MAX	780	1,540	5,330	5,280	6,600	3,570	5,860	5,620	1,500	404	450	673
MIN	357	129	135	130	160	35	126	159	164	87	64	114

CAL YR 1973 TOTAL 319,084 MEAN 874 MAX 5,840 MIN 69
WTR YR 1974 TOTAL 360,437 MEAN 987 MAX 6,600 MIN 35

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, 4.3 miles (6.9 km) downstream from Mississinewa River, and at mile 370.5 (596.1 km).

DRAINAGE AREA.--2,686 mi^2 (6,956 km^2).

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.--31 years, 2,363 ft^3/s (66.92 m^3/s), 11.95 in/yr (304 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,500 ft^3/s (382 m^3/s) Feb. 12, gage height, 11.56 ft (3.523 m); minimum daily, 176 ft^3/s (4.98 m^3/s) Aug. 10.

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

Flood of Mar. 26, 1913, reached a stage of 28.1 ft (8.56 m), discharge, 115,000 ft^3/s (3,260 m^3/s), from rating curve extended above 63,000 ft^3/s (1,780 m^3/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. Revised figures of discharge in cubic feet per second, for 1973 water year, superseding those published in WRD Ind. 1973 are given herein:

Date	Discharge	Date	Discharge	Date	Discharge
1973		1973-Con.		1973-Con.	
Jan. 10	2,840	Sept. 3	560	Sept. 9	412
14	5,640	4	615	10	400
15	6,400	5	600	11	398
20	2,510	6	532	16	722
Aug. 13	660	7	450	17	758
14	1,400	8	425	18	682
Sept. 2	509				

Month	Ft^3/s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
January 1973	130,980	8,430	2,000	4,225	1.57	1.81
August 1973	70,316	7,660	307	2,268	.84	.97
September 1973	21,893	1,120	398	730	.27	.30
Water Year 1973	1,424,345	10,400	287	3,902	1.45	19.73

03327500 Wabash River at Peru, Ind.--Continued

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	1,090	1,140	7,300	5,270	8,510	8,490	2,930	874	1,620	656	205	1,260
2	1,120	1,230	8,090	6,160	9,990	7,340	4,440	815	1,160	628	201	1,370
3	1,080	1,230	9,120	9,870	10,300	7,430	4,270	782	1,070	1,420	187	880
4	1,070	1,200	8,890	11,600	10,800	5,360	5,890	763	920	1,680	194	962
5	1,260	1,160	8,710	9,470	11,600	8,650	6,050	714	821	1,400	190	979
6	1,370	1,220	8,170	5,820	12,300	6,440	5,420	677	784	803	190	772
7	1,380	1,150	5,310	8,650	12,000	5,220	5,650	647	741	696	183	663
8	1,370	1,150	4,620	9,610	12,700	4,480	6,470	738	940	558	180	761
9	1,360	1,190	2,650	9,810	12,800	3,970	4,890	1,560	860	544	183	628
10	1,340	1,170	1,360	8,990	11,300	5,230	5,910	2,310	1,220	537	176	511
11	1,270	1,040	1,090	6,320	11,100	4,360	6,130	2,020	1,370	516	190	354
12	1,370	1,050	979	5,230	13,400	3,150	5,770	2,070	1,340	510	209	400
13	1,450	1,060	971	2,380	13,100	2,490	6,630	3,440	1,050	468	209	1,140
14	1,410	1,050	1,070	1,850	12,900	4,030	7,160	4,830	793	380	201	1,140
15	1,300	1,060	1,140	1,600	12,500	3,700	10,100	5,890	741	307	201	1,310
16	1,270	1,140	1,320	1,750	12,300	4,560	9,580	5,640	669	275	197	1,850
17	1,350	1,260	1,180	1,970	8,690	4,320	7,750	8,240	633	261	228	2,250
18	1,060	1,380	934	3,910	3,350	3,700	6,770	7,060	607	259	286	2,040
19	997	1,420	820	7,680	3,480	3,330	6,170	5,220	531	252	367	928
20	999	1,420	740	7,890	6,900	2,120	5,600	4,210	516	244	533	784
21	1,030	1,390	850	11,700	9,360	2,010	3,740	4,270	611	236	443	645
22	1,030	1,520	1,030	9,480	11,000	2,320	1,570	4,130	1,570	228	378	1,340
23	1,030	1,500	920	8,690	7,770	2,900	1,470	4,440	2,420	236	318	1,180
24	1,010	1,500	864	8,060	5,740	2,810	1,190	4,180	2,990	228	290	732
25	991	1,900	2,370	9,620	4,590	3,060	919	4,380	4,560	228	259	471
26	995	2,300	7,130	9,570	5,280	4,100	834	5,190	2,860	228	221	385
27	997	2,470	8,890	12,200	9,200	4,110	776	5,880	1,480	224	233	389
28	1,020	3,540	7,040	6,440	9,960	3,370	683	6,340	1,350	220	293	440
29	1,040	4,850	6,480	7,330	------	2,600	684	9,900	851	228	580	498
30	1,090	5,410	6,530	6,680	------	2,870	964	9,430	701	212	695	474
31	1,100	------	5,690	6,750	------	3,580	------	4,480	------	205	809	------
TOTAL	36,249	50,100	122,258	222,350	272,920	132,100	136,410	121,120	37,779	14,867	9,029	27,536
MEAN	1,169	1,670	3,944	7,173	9,747	4,261	4,547	3,907	1,259	480	291	918
MAX	1,450	5,410	9,120	12,200	13,400	8,650	10,100	9,900	4,560	1,680	809	2,250
MIN	991	1,040	740	1,600	3,350	2,010	683	647	516	205	176	354
CFSM	.44	.62	1.47	2.67	3.63	1.59	1.69	1.45	.47	.18	.11	.34
IN.	.50	.69	1.69	3.08	3.78	1.83	1.89	1.68	.52	.21	.13	.38

CAL YR 1973 TOTAL 1,059,542 MEAN 2,903 MAX 10,100 MIN 287 CFSM 1.08 IN 14.67
WTR YR 1974 TOTAL 1,182,718 MEAN 3,240 MAX 13,400 MIN 176 CFSM 1.21 IN 16.38

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.

DRAINAGE AREA.--159 mi^2 (412 km^2).

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.--6 years, 152 ft^3/s (4.305 m^3/s), 12.98 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,960 ft^3/s (112 m^3/s) Jan. 21, gage height, 14.93 ft (4.551 m); minimum daily, 7.6 ft^3/s (0.22 m^3/s) Aug. 26.
Period of record: Maximum discharge, 3,960 ft^3/s (112 m^3/s) Jan. 21, 1974, gage height, 14.93 ft (4.551 m); minimum daily, 4.0 ft^3/s (0.11 m^3/s) Aug. 31, 1971.

REMARKS.--Records good.

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	21	40	573	385	505	286	864	55	66	47	10	19
2	24	43	427	294	360	254	800	53	59	43	13	15
3	24	35	352	229	239	215	662	56	56	40	15	17
4	25	29	405	179	170	558	1,110	52	53	37	13	16
5	32	24	243	155	139	1,200	1,090	49	59	36	12	14
6	34	21	158	136	127	1,030	741	48	58	34	11	12
7	35	19	133	114	117	642	543	46	62	33	10	11
8	30	19	122	100	104	482	665	106	69	31	14	11
9	26	18	112	88	89	556	642	611	70	31	12	15
10	24	17	95	80	81	626	515	514	66	30	11	14
11	23	17	88	76	74	431	343	259	57	29	13	15
12	22	18	95	70	64	264	262	265	54	27	14	23
13	23	18	89	90	90	179	201	350	50	25	11	37
14	24	24	81	80	183	141	160	172	47	24	9.8	26
15	23	40	75	78	134	146	128	598	45	24	9.3	19
16	22	113	68	87	108	259	104	781	44	23	8.8	16
17	21	78	60	190	105	211	90	856	42	22	25	13
18	21	59	53	430	130	162	85	979	40	20	24	12
19	20	46	50	1,320	337	145	82	754	38	19	25	11
20	22	40	46	2,330	677	120	75	571	37	18	18	11
21	23	38	43	3,680	530	112	73	386	48	17	11	9.6
22	21	37	60	2,910	992	101	76	284	84	16	8.5	9.6
23	22	49	57	1,940	884	93	69	349	385	19	9.8	8.8
24	24	505	502	1,340	590	83	61	455	246	20	8.6	9.2
25	26	902	1,320	765	342	75	56	193	115	17	8.0	8.4
26	27	832	1,950	766	200	76	55	135	84	16	7.6	8.4
27	29	1,250	1,970	1,240	157	74	54	110	68	15	9.0	8.8
28	30	1,510	1,390	1,060	204	77	55	92	58	13	48	9.6
29	31	1,190	790	1,050	------	560	55	87	54	13	58	12
30	34	732	642	784	------	1,120	57	82	50	12	33	13
31	39	------	547	627	------	1,320	------	74	------	11	23	------
TOTAL	802	7,763	12,596	22,673	7,732	11,598	9,773	9,422	2,264	762	503.4	424.4
MEAN	25.9	259	406	731	276	374	326	304	75.5	24.6	16.2	14.1
MAX	39	1,510	1,970	3,680	992	1,320	1,110	979	385	47	58	37
MIN	20	17	43	70	64	74	54	46	37	11	7.6	8.4
CFSM	.16	1.63	2.55	4.60	1.74	2.35	2.05	1.91	.47	.15	.10	.09
IN.	.19	1.82	2.95	5.30	1.81	2.71	2.29	2.20	.53	.18	.12	.10

CAL YR 1973 TOTAL 77,126.0 MEAN 211 MAX 2,000 MIN 17 CFSM 1.33 IN 18.04
WTR YR 1974 TOTAL 86,312.8 MEAN 236 MAX 3,680 MIN 7.6 CFSM 1.48 IN 20.19

PEAK DISCHARGE (BASE, 1,000 FT^3/S, revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-28	1100	9.75	1,550	01-27	1400	8.91	1,270	03-31	0600	9.33	1,410
12-27	0700	11.02	2,040	02-22	1300	8.41	1,130	04-04	2000	8.80	1,240
01-21	1600	14.93	3,960	03-05	2200	9.04	1,310	05-17	2200	8.19	1,070

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, and 1.2 miles (1.9 km) upstream from Pony Creek. Records include flow of Pony Creek.

DRAINAGE AREA.--417 mi^2 (1,080 km^2), includes that of Pony Creek.

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

GAGE.--Water-stage recorder. Datum of gage is 738.00 ft (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.--45 years, 352 ft^3/s (9.969 m^3/s), 11.46 in/yr (291 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,790 ft^3/s (107 m^3/s) Jan. 21, gage height, 10.25 ft (3.124 m); minimum daily, 76 ft^3/s (2.15 m^3/s) Sept. 26.
Period of record: Maximum discharge, 7,940 ft^3/s (225 m^3/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^3/s (0.45 m^3/s) Oct. 19, 1956.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	126	496	737	1,210	480	385	289	203	166	88	78
2	116	130	370	591	860	454	592	256	193	157	94	78
3	132	113	310	460	677	463	519	249	186	151	92	88
4	108	101	289	390	558	696	1,480	231	180	144	86	83
5	109	94	420	300	450	2,570	1,420	216	176	141	86	79
6	98	90	356	260	400	2,510	1,110	208	183	139	86	78
7	92	88	280	220	355	2,150	739	200	184	134	83	78
8	90	88	247	190	330	1,760	624	432	374	131	83	78
9	87	87	229	175	310	1,610	561	981	298	129	80	78
10	86	87	219	200	295	1,990	468	588	233	128	79	78
11	83	86	198	230	285	1,560	416	413	206	126	103	79
12	81	84	189	210	285	1,090	409	471	196	121	103	140
13	86	86	199	190	292	798	439	435	179	119	89	293
14	90	86	251	200	347	634	405	351	216	117	85	225
15	84	91	220	220	312	591	367	899	221	116	83	144
16	82	105	195	250	289	943	327	843	201	113	82	114
17	79	99	175	266	280	740	303	1,680	181	112	107	102
18	79	97	160	296	294	579	285	1,640	173	111	103	93
19	78	95	135	1,220	478	537	279	873	165	105	88	86
20	78	92	115	1,860	1,090	500	266	547	165	105	85	82
21	77	97	130	3,740	850	463	257	417	546	100	82	79
22	77	99	140	3,390	2,210	441	254	367	488	99	80	79
23	77	95	130	3,340	2,250	405	246	535	825	103	79	78
24	77	97	251	2,940	1,720	368	234	414	402	103	79	78
25	78	210	684	2,440	936	335	221	328	285	102	79	77
26	77	408	2,190	2,040	591	337	216	285	251	97	78	76
27	79	302	2,700	2,740	487	335	211	259	225	97	79	77
28	83	779	2,670	2,510	476	326	229	240	199	94	95	84
29	84	1,570	2,230	2,250	------	323	426	234	188	92	90	84
30	97	896	1,740	1,870	------	333	339	227	175	89	84	83
31	97	------	1,090	1,650	------	369	------	217	------	88	80	------
TOTAL	2,735	6,478	19,008	37,375	18,917	26,690	14,027	15,325	7,697	3,629	2,690	2,949
MEAN	88.2	216	613	1,206	676	861	468	494	257	117	86.8	98.3
MAX	132	1,570	2,700	3,740	2,250	2,570	1,480	1,680	825	166	107	293
MIN	77	84	115	175	280	323	211	200	165	88	78	76
CFSM	.21	.52	1.47	2.89	1.62	2.06	1.12	1.18	.62	.28	.21	.24
IN.	.24	.58	1.70	3.33	1.69	2.38	1.25	1.37	.69	.32	.24	.26

CAL YR 1973 TOTAL 159,984 MEAN 438 MAX 2,700 MIN 77 CFSM 1.05 IN 14.27
WTR YR 1974 TOTAL 157,520 MEAN 432 MAX 3,740 MIN 76 CFSM 1.04 IN 14.05

PEAK DISCHARGE (BASE, 2,200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	2000	8.50	2,840	02-22	1900	8.08	2,640
01-21	1700	10.25	3,790	03-05	1600	8.45	2,820
01-27	1200	8.56	2,870	05-17	1900	7.68	2,430

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, 1.5 miles (2.4 km) west of Deedsville.

DRAINAGE AREA.--8.87 mi^2 (22.97 km^2).

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.

EXTREMES.--Current year: Maximum discharge, 165 ft^3/s (4.67 m^3/s) May 17, gage height, 4.69 ft (1.430 m); minimum daily, 0.49 ft^3/s (0.014 m^3/s) Sept. 18-22, 24, 25.
Period of record: Maximum discharge, 283 ft^3/s (8.01 m^3/s) Feb. 4, 1971, gage height, 5.83 ft (1.777 m); minimum daily, 0.49 ft^3/s (0.014 m^3/s) Sept. 18-22, 24, 25, 1974.

REMARKS.--Records good.

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	1.6	1.3	6.1	12	19	13	16	13	4.2	2.1	.82	.74
2	2.1	1.2	4.7	11	15	13	26	10	3.6	1.9	1.2	.67
3	1.7	1.1	4.0	10	13	13	24	9.6	3.6	1.8	.90	.74
4	1.7	1.0	4.3	9.0	11	20	39	8.6	3.4	1.8	.82	.67
5	1.5	.94	5.8	8.6	10	65	34	8.0	4.2	1.8	.82	.67
6	1.5	.89	4.7	8.1	9.7	34	33	7.7	6.2	1.6	.82	.60
7	1.5	.85	3.7	7.5	8.9	20	24	7.4	5.2	1.6	.74	.55
8	1.5	.86	3.2	7.0	8.6	15	23	15	6.6	1.5	.90	.55
9	1.4	.82	2.9	6.5	7.9	21	20	20	6.6	1.5	.82	.55
10	1.4	.81	2.7	6.0	7.9	34	17	12	4.9	1.5	.82	.55
11	1.3	.82	2.1	5.6	7.5	20	16	11	4.2	1.5	.74	.60
12	1.3	.81	2.0	6.4	7.9	17	15	15	3.9	1.3	.74	.74
13	1.5	.81	3.0	5.9	10	14	18	11	3.4	1.3	.74	1.0
14	1.4	.81	2.8	5.4	12	12	17	9.3	3.4	1.3	.74	.67
15	1.3	.86	2.5	6.6	9.3	14	15	30	3.1	1.3	.74	.55
16	1.3	.84	2.2	6.8	8.7	27	13	16	2.9	1.2	.82	.55
17	1.2	.80	2.0	9.0	8.4	19	12	104	2.9	1.2	.90	.55
18	1.2	.89	1.7	9.8	8.5	15	12	88	2.7	1.2	.74	.49
19	1.1	.86	1.5	32	19	14	11	49	2.5	1.2	.67	.49
20	1.1	.82	1.4	71	26	12	11	29	2.3	1.2	.67	.49
21	1.0	.92	1.4	128	17	12	11	20	2.9	1.0	.67	.49
22	1.0	.95	1.3	77	69	12	10	16	3.9	1.3	.60	.49
23	1.0	.90	1.3	55	54	11	9.9	14	4.5	1.3	.60	.55
24	.96	.93	2.0	41	28	10	9.6	12	3.4	1.3	.60	.49
25	.97	3.1	35	27	16	9.4	9.3	9.2	2.9	1.2	.60	.49
26	.98	2.6	65	25	12	9.6	9.3	7.8	3.4	1.2	.67	.55
27	1.0	1.6	82	57	11	9.6	8.9	6.6	2.7	1.2	.74	.55
28	1.1	14	51	39	12	9.6	14	6.2	2.5	1.0	1.5	.60
29	1.1	19	33	44	------	8.9	53	5.9	2.3	1.0	1.0	.60
30	1.1	9.2	21	35	------	10	19	5.2	2.1	1.0	.82	.55
31	1.1	------	15	27	------	15	------	4.9	------	1.0	.74	------
TOTAL	39.91	71.29	371.3	799.2	447.3	529.1	550.0	581.4	110.4	42.3	24.70	17.78
MEAN	1.29	2.38	12.0	25.8	16.0	17.1	18.3	18.8	3.68	1.36	.80	.59
MAX	2.1	19	82	128	69	65	53	104	6.6	2.1	1.5	1.0
MIN	.96	.80	1.3	5.4	7.5	8.9	8.9	4.9	2.1	1.0	.60	.49
CFSM	.15	.27	1.35	2.91	1.80	1.93	2.06	2.12	.41	.15	.09	.07
IN.	.17	.30	1.56	3.35	1.88	2.22	2.31	2.44	.46	.18	.10	.07

CAL YR 1973 TOTAL 3,784.14 MEAN 10.4 MAX 82 MIN .80 CFSM 1.17 IN 15.87
WTR YR 1974 TOTAL 3,584.68 MEAN 9.82 MAX 128 MIN .49 CFSM 1.11 IN 15.03

PEAK DISCHARGE (BASE, 60 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0500	3.76	91	03-05	0900	3.42	76
01-21	0200	4.51	152	04-29	1600	3.36	79
01-27	0700	3.23	65	05-17	1400	4.69	165
02-22	1700	3.54	83				

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 6.9 miles (11.1 km) upstream from mouth.

DRAINAGE AREA.--789 mi^2 (2,044 km^2).

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.--31 years, 725 ft^3/s (20.532 m^3/s), 12.48 in/yr (317 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	297	263	1,140	1,570	2,380	1,030	964	804	562	405	190	176
2	266	270	798	1,100	1,800	997	1,360	684	523	375	199	172
3	242	282	636	1,000	1,400	976	1,360	619	498	351	207	178
4	285	259	568	904	1,160	1,150	2,300	568	483	334	199	180
5	259	239	608	700	1,000	3,660	2,760	518	494	330	192	180
6	246	226	706	550	893	4,520	2,380	488	527	315	189	173
7	239	217	574	450	800	3,450	1,740	464	527	304	187	171
8	236	211	478	400	730	2,780	1,410	613	1,030	291	192	170
9	223	211	436	360	690	2,620	1,280	2,100	1,100	283	188	168
10	217	209	411	460	650	3,290	1,100	1,760	794	278	186	168
11	211	206	387	520	620	2,860	961	1,150	653	274	186	170
12	214	209	356	480	620	2,240	909	1,070	586	263	202	197
13	220	206	373	420	620	1,740	999	1,100	535	254	213	441
14	229	209	391	390	737	1,340	963	912	500	248	193	510
15	226	217	426	430	723	1,240	859	1,250	531	242	185	486
16	217	217	391	478	648	1,820	762	2,010	516	237	183	327
17	209	223	351	524	618	1,760	691	4,370	483	229	205	270
18	203	232	322	643	622	1,350	645	6,430	447	226	199	245
19	203	226	263	1,830	845	1,170	621	3,470	422	226	214	230
20	200	223	242	4,110	1,870	1,090	591	2,080	404	224	191	219
21	200	229	270	6,840	1,730	1,010	570	1,470	583	216	182	211
22	200	226	320	7,420	3,410	959	567	1,210	1,340	214	178	205
23	198	226	280	6,360	4,820	897	540	1,340	1,390	225	174	202
24	198	236	260	5,290	3,190	819	513	1,370	1,260	226	171	202
25	198	334	805	4,090	2,240	749	489	1,030	805	221	171	200
26	195	588	3,540	3,250	1,460	723	473	860	805	215	170	200
27	200	699	5,720	4,500	1,100	719	464	761	733	208	172	202
28	209	952	5,420	4,730	1,010	701	457	695	568	204	188	212
29	214	2,350	4,060	4,270	------	690	843	661	481	205	205	224
30	223	1,950	3,020	3,540	------	755	1,050	632	441	196	201	220
31	236	------	2,300	2,920	------	916	------	602	------	192	185	------
TOTAL	6,913	12,345	35,852	70,529	38,386	50,021	30,621	43,091	20,021	8,011	5,897	6,909
MEAN	223	412	1,157	2,275	1,371	1,614	1,021	1,390	667	258	190	230
MAX	297	2,350	5,720	7,420	4,820	4,520	2,760	6,430	1,390	405	214	510
MIN	195	206	242	360	618	690	457	464	404	192	170	168
CFSM	.28	.52	1.47	2.88	1.74	2.05	1.29	1.76	.85	.33	.24	.29
IN.	.33	.58	1.69	3.33	1.81	2.36	1.44	2.03	.94	.38	.28	.33

CAL YR 1973 TOTAL 322,558 MEAN 884 MAX 5,720 MIN 192 CFSM 1.12 IN 15.21
WTR YR 1974 TOTAL 328,596 MEAN 900 MAX 7,420 MIN 168 CFSM 1.14 IN 15.49

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0500	8.16	5,840	02-23	0200	7.86	5,300
01-22	0400	9.30	7,920	05-18	1000	8.70	6,820
01-27	2100	7.79	5,170				

03328500 Eel River near Logansport, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 7,920 ft^3/s (224 m^3/s) Jan. 22, gage height, 9.30 ft (2.835 m) minimum daily, 168 ft^3/s (4.76 m^3/s) Sept. 9, 10.
Period of record: Maximum discharge, 14,200 ft^3/s (402 m^3/s) Dec. 9, 1966, gage height, 12.20 ft (3.719 m); minimum daily, 70 ft^3/s (1.98 m^3/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^3/s (481 m^3/s).

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C July 8, 15; minimum, freezing point during winter months.
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, 1,160 mg/l May 17; minimum daily, 12 mg/l Feb. 16.
Period of record: Maximum daily concentration, 1,780 mg/l June 7, 1971; minimum daily, 14 mg/l Jan. 7, Feb. 22, 23, 1972.

SEDIMENT DISCHARGE, Current year: Maximum daily load, 16,200 tons (14,700 tonnes) May 17; minimum daily, 9.5 tons (8.6 tonnes) Nov. 11.
Period of record: Maximum daily load, 20,500 tons (18,600 tonnes) June 7, 1971; minimum daily, 6.9 tons (6.3 tonnes) Aug. 31, Sept. 1, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	7.0	1.0	4.0	6.0	---	17.0	21.0	---	---	---
2	19.0	---	8.0	0.0	3.0	10.0	13.0	16.0	---	---	22.0	19.0
3	---	10.0	8.0	1.0	3.0	13.0	12.0	15.0	---	---	---	---
4	---	---	10.0	1.0	2.0	12.0	11.0	---	---	---	---	---
5	18.0	9.0	8.0	1.0	1.0	10.0	8.0	16.0	19.5	---	---	---
6	---	---	6.0	1.0	0.0	9.0	8.0	---	---	---	24.0	20.0
7	---	5.5	5.0	0.0	1.0	11.0	8.0	---	---	---	---	---
8	---	8.0	---	---	1.0	11.0	7.0	12.0	---	28.0	---	---
9	---	---	---	---	1.0	11.0	7.0	11.0	---	---	---	21.0
10	20.0	---	2.0	1.0	1.0	10.0	9.0	12.0	---	---	24.0	---
11	---	---	---	1.0	1.0	8.0	12.0	15.0	---	26.0	---	---
12	---	7.0	---	---	3.0	7.0	12.0	15.0	---	---	25.0	---
13	18.0	---	4.0	1.0	5.0	7.0	16.0	14.0	---	---	---	20.0
14	---	---	---	---	4.0	7.0	16.0	16.0	---	---	24.0	---
15	18.0	14.0	---	2.0	3.0	7.0	12.0	17.0	---	28.0	---	---
16	---	---	---	---	4.0	5.0	12.0	17.0	---	---	26.0	---
17	---	---	0.0	2.0	5.0	5.0	14.0	18.0	---	---	---	20.0
18	14.0	---	---	2.0	5.0	6.0	14.0	18.0	---	26.0	---	---
19	---	9.0	---	2.0	5.0	7.0	15.0	16.0	---	---	25.0	---
20	---	---	1.0	4.0	2.0	7.0	11.0	18.0	---	---	---	20.0
21	---	---	---	3.0	4.0	7.0	15.0	20.0	---	---	---	---
22	---	---	---	3.0	5.0	---	17.0	20.0	---	---	---	---
23	13.0	10.0	---	3.0	3.0	---	13.0	20.0	---	22.0	---	17.0
24	---	---	2.0	2.5	2.0	---	15.0	19.0	---	---	24.0	---
25	---	---	2.0	2.0	1.0	---	---	18.0	---	---	---	---
26	14.0	10.0	2.0	3.0	2.0	---	---	18.0	---	25.0	---	---
27	---	11.0	2.0	5.0	4.0	---	17.0	17.0	---	---	25.0	16.0
28	---	10.0	2.0	5.0	5.0	---	---	17.0	---	---	---	---
29	---	8.0	3.0	4.0	---	---	18.0	17.0	---	26.0	---	---
30	12.0	8.0	1.0	5.0	---	---	17.0	19.0	---	---	24.0	---
31	---	---	1.0	5.0	---	---	---	20.0	---	---	---	---
MONTH	---	---	---	2.5	3.0	---	12.5	16.5	---	---	---	---

03328500 Eel River near Logansport, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	297	71	57	263	19	13	1140	114	351
2	266	59	42	270	18	13	798	56	121
3	242	52	34	282	18	14	636	50	86
4	285	66	51	259	18	13	568	52	80
5	259	70	49	239	18	12	608	62	102
6	246	68	45	226	18	11	706	78	149
7	239	66	43	217	18	11	574	58	90
8	236	64	41	211	18	10	478	53	68
9	223	62	37	211	17	9.7	436	53	62
10	217	59	35	209	17	9.6	411	56	62
11	211	55	31	206	17	9.5	387	64	67
12	214	50	29	209	22	12	356	70	67
13	220	45	27	206	21	12	373	75	76
14	229	40	25	209	25	14	391	79	83
15	226	36	22	217	28	16	426	82	94
16	217	34	20	217	27	16	391	43	45
17	209	33	19	223	33	20	351	22	21
18	203	33	18	232	40	25	322	23	20
19	203	32	18	226	39	24	263	28	20
20	200	31	17	223	38	23	242	30	20
21	200	30	16	229	48	30	270	30	22
22	200	29	16	226	47	29	320	29	25
23	198	28	15	226	44	27	280	29	22
24	198	27	14	236	53	34	260	30	21
25	198	26	14	334	82	74	805	135	399
26	195	25	13	588	150	259	3540	522	5520
27	200	24	13	699	114	218	5720	652	10100
28	209	23	13	952	123	352	5420	422	6270
29	214	21	12	2350	367	2430	4060	208	2280
30	223	19	11	1950	251	1320	3020	127	1040
31	236	19	12	--	--	--	2300	79	491
TOTAL	6913	--	809	12345	--	5060.8	35852	--	27874

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1570	50	212	2380	96	617	1030	41	114
2	1100	39	116	1800	72	350	997	37	100
3	1000	30	81	1400	53	200	976	40	105
4	904	22	54	1160	43	135	1150	169	599
5	700	19	36	1000	36	97	3660	826	8240
6	550	25	37	893	34	82	4520	1040	12700
7	450	27	33	800	38	82	3450	559	5280
8	400	26	28	730	49	97	2780	352	2640
9	360	25	24	690	60	112	2620	315	2230
10	460	24	30	650	71	125	3290	387	3440
11	520	24	34	620	80	134	2860	253	1950
12	480	23	30	620	66	110	2240	148	895
13	420	23	26	620	22	37	1740	98	460
14	390	23	24	737	26	52	1340	73	264
15	430	24	28	723	19	37	1240	83	278
16	478	28	36	648	12	21	1820	142	716
17	524	27	38	618	14	23	1760	103	489
18	643	25	43	622	15	25	1350	53	193
19	1830	169	982	845	62	175	1170	42	133
20	4110	253	2920	1870	170	877	1090	37	109
21	6840	507	9550	1730	162	757	1010	33	90
22	7420	502	10000	3410	477	5270	959	30	78
23	6360	323	5630	4820	579	7690	897	27	65
24	5290	119	1700	3190	262	2260	819	25	55
25	4090	81	894	2240	142	859	749	23	47
26	3250	73	641	1460	93	367	723	20	39
27	4500	462	6140	1100	56	166	719	20	39
28	4730	643	8260	1010	45	123	701	20	38
29	4270	349	4100	--	--	--	690	18	34
30	3540	161	1540	--	--	--	755	33	67
31	2920	117	922	--	--	--	916	31	77
TOTAL	70529	--	54189	38386	--	20880	50021	--	41564

03328500 Eel River near Logansport, Ind.--Continued

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	964	29	75	804	59	128	562	40	61
2	1360	186	730	684	31	57	523	37	52
3	1360	206	757	619	30	50	498	34	46
4	2300	913	6250	568	30	46	483	31	40
5	2760	1090	8180	518	29	41	494	34	45
6	2380	358	2340	488	29	38	527	38	54
7	1740	156	733	464	28	35	527	36	51
8	1410	88	335	613	79	139	1030	784	2400
9	1280	56	194	2100	500	3070	1100	817	2470
10	1100	48	143	1760	341	1680	794	403	882
11	961	47	122	1150	121	376	653	118	208
12	909	46	113	1070	64	185	586	65	103
13	999	58	156	1100	74	220	535	52	75
14	963	52	135	912	57	140	500	46	62
15	859	35	81	1250	232	949	531	45	65
16	762	27	56	2010	373	2080	516	44	61
17	691	25	47	4370	1160	16200	483	43	56
18	645	26	45	6430	735	12900	447	41	49
19	621	27	45	3470	242	2270	422	40	46
20	591	28	45	2080	123	691	404	38	41
21	570	29	45	1470	80	318	583	140	338
22	567	30	46	1210	73	238	1340	672	2420
23	540	29	42	1340	126	486	1390	976	3800
24	513	27	37	1370	124	459	1260	1060	3670
25	489	26	34	1030	76	211	805	318	716
26	473	25	32	860	58	135	805	306	669
27	464	25	31	761	51	105	733	143	283
28	457	24	30	695	48	90	568	76	117
29	843	160	501	661	45	80	481	54	70
30	1050	209	611	632	44	75	441	52	62
31	--	--	--	602	42	68	--	--	--
TOTAL	30621	--	21991	43091	--	43560	20021	--	19012

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	405	48	52	190	45	23	176	49	23
2	375	43	44	199	52	28	172	48	22
3	351	38	36	207	58	32	178	47	23
4	334	36	32	199	58	31	180	46	22
5	330	42	37	192	57	30	180	44	21
6	315	41	35	189	56	29	173	43	20
7	304	40	33	187	54	27	171	43	20
8	291	39	31	192	60	31	170	43	20
9	283	37	28	188	59	30	168	43	20
10	278	36	27	186	58	29	168	43	20
11	274	35	26	186	55	28	170	47	22
12	263	34	24	202	58	32	197	70	39
13	254	33	23	213	57	33	441	123	149
14	248	32	21	193	56	29	510	140	205
15	242	31	20	185	55	27	486	123	161
16	237	31	20	183	55	27	327	101	89
17	229	31	19	205	58	32	270	91	66
18	226	31	19	199	51	27	245	84	56
19	226	31	19	214	49	28	230	78	48
20	224	31	19	191	47	24	219	72	43
21	216	34	20	182	46	23	211	65	37
22	214	36	21	178	45	22	205	58	32
23	225	42	26	174	45	21	202	52	28
24	226	42	26	171	44	20	202	48	26
25	221	41	24	171	43	20	200	45	24
26	215	41	24	170	42	19	200	43	23
27	208	40	22	172	51	24	202	49	27
28	204	40	22	188	64	32	212	55	31
29	205	47	26	205	69	38	224	58	35
30	196	47	25	201	57	31	220	55	33
31	192	46	24	185	50	25	--	--	--
TOTAL	8011	--	825	5897	--	852	6909	--	1385

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 328596
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 238001.8

03328500 Eel River near Logansport, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN.							
24...	1500	5220	112	1580	53	61	64
FEB.							
20...	1100	1990	151	811	51	64	74
MAR.							
06...	1030	4650	1060	13300	79	85	90
APR.							
05...	1300	2830	1230	9400	71	83	92

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
JAN.						
24...	73	78	80	85	91	100
FEB.						
20...	85	94	96	98	100	--
MAR.						
06...	93	95	96	96	100	--
APR.						
05...	97	98	99	100	--	--

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^2 (9,788 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft (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.--51 years (1923-73), 3,290 ft^3/s (93.2 m^3/s), 11.82 in/yr (300 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,900 ft^3/s (677 m^3/s) Jan. 21, gage height, 10.80 ft (3.292 m); minimum daily, 409 ft^3/s (11.6 m^3/s) Aug. 27.
Period of record: Maximum discharge, 89,800 ft^3/s (2,540 m^3/s) May 18, 1943, gage height, 21.32 ft (6.500 m); minimum daily, 135 ft^3/s (3.82 m^3/s) Sept. 26, 1941.
Maximum stage known, 25.3 ft (7.711 m) Mar. 26, 1913, from floodmarks, discharge, 140,000 ft^3/s (3,960 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	1,410	10,500	8,760	12,300	11,200	5,450	1,840	2,430	1,130	450	1,210
2	1,400	1,470	10,100	8,020	13,200	9,520	6,860	1,620	1,840	1,050	467	1,480
3	1,290	1,500	11,100	10,500	13,100	9,810	6,960	1,510	1,680	1,430	458	1,130
4	1,270	1,450	11,100	12,300	13,100	7,710	9,250	1,420	1,520	1,970	462	1,030
5	1,440	1,380	10,400	12,500	13,600	14,200	11,400	1,340	1,480	1,870	453	1,150
6	1,520	1,390	10,600	7,960	14,300	13,900	9,930	1,280	1,460	1,300	435	947
7	1,570	1,350	6,830	10,100	13,900	10,700	8,460	1,230	1,360	1,060	439	867
8	1,570	1,320	6,220	11,700	14,300	8,490	8,970	1,510	2,280	938	469	842
9	1,530	1,350	4,270	11,400	14,600	7,900	7,890	3,720	2,090	887	447	874
10	1,500	1,350	2,350	10,700	13,200	9,780	7,410	4,770	2,050	863	443	752
11	1,480	1,260	1,700	8,590	12,500	8,820	8,340	3,720	2,180	855	444	619
12	1,420	1,230	1,590	6,940	14,800	6,570	7,220	3,360	2,060	821	482	709
13	1,620	1,240	1,580	3,780	14,800	4,930	8,650	4,790	1,760	803	500	1,740
14	1,600	1,230	1,710	2,640	14,800	5,810	8,450	6,140	1,410	739	477	1,570
15	1,560	1,270	1,820	2,380	14,400	5,620	10,400	7,870	1,360	646	454	1,570
16	1,360	1,330	1,890	2,480	14,000	7,010	11,200	9,050	1,260	591	460	1,890
17	1,460	1,420	1,850	2,740	12,500	7,180	9,820	13,700	1,200	552	497	2,310
18	1,340	1,650	1,600	4,110	5,190	5,900	8,330	16,200	1,150	538	533	2,400
19	1,160	1,620	1,340	11,300	4,930	5,280	7,670	10,500	1,050	535	594	1,290
20	1,160	1,660	1,180	16,300	9,310	3,930	7,150	7,430	999	530	693	986
21	1,170	1,580	1,260	23,500	12,600	3,480	5,240	6,460	1,130	513	669	810
22	1,180	1,730	1,530	21,700	16,300	3,490	2,690	6,200	2,820	511	615	1,240
23	1,180	1,720	1,390	19,300	15,700	4,080	2,240	6,560	4,140	533	538	1,320
24	1,170	1,760	1,330	16,200	11,100	4,080	1,910	6,640	4,450	528	490	995
25	1,140	2,660	3,110	15,900	8,250	3,830	1,610	5,980	5,720	517	470	753
26	1,150	3,970	12,200	14,500	6,800	5,070	1,440	6,310	4,530	504	422	593
27	1,160	4,450	17,800	19,500	11,000	5,540	1,400	6,870	2,340	496	409	595
28	1,190	5,490	16,200	14,300	12,300	4,810	1,280	6,940	2,040	488	494	649
29	1,210	9,310	13,900	14,200	------	3,920	1,520	7,930	1,530	483	733	727
30	1,290	8,840	11,900	12,700	------	4,910	2,090	8,190	1,230	475	907	698
31	1,320	------	10,100	11,300	------	6,580	------	6,070	------	456	903	------
TOTAL	41,730	69,390	190,450	348,300	346,880	214,050	191,230	177,150	62,549	24,612	16,307	33,746
MEAN	1,346	2,313	6,144	11,240	12,390	6,905	6,374	5,715	2,085	794	526	1,125
MAX	1,620	9,310	17,800	23,500	16,300	14,200	11,400	16,200	5,720	1,970	907	2,400
MIN	1,140	1,230	1,180	2,380	4,930	3,480	1,280	1,230	999	456	409	593
CFSM	.36	.61	1.63	2.97	3.28	1.83	1.69	1.51	.55	.21	.14	.30
IN.	.41	.68	1.87	3.43	3.41	2.11	1.88	1.74	.62	.24	.16	.33

CAL YR 1973 TOTAL 1,565,604 MEAN 4,289 MAX 17,800 MIN 660 CFSM 1.14 IN 15.41
WTR YR 1974 TOTAL 1,716,394 MEAN 4,702 MAX 23,500 MIN 409 CFSM 1.24 IN 16.90

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^2 (17.69 km^2).

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.--6 years, 8.07 ft^3/s (0.229 m^3/s), 16.05 in/yr (408 mm/yr).

EXTREMES.--Current year: Maximum discharge, 107 ft^3/s (3.03 m^3/s) Jan. 21, gage height, 3.38 ft (1.030 m); minimum daily, 0.14 ft^3/s (0.004 m^3/s) Sept. 23.
Period of record: Maximum discharge, 157 ft^3/s (4.45 m^3/s) June 23, 1969; maximum gage height, 3.70 ft (1.128 m) July 5, 1969; minimum daily discharge, 0.14 ft^3/s (0.004 m^3/s) Sept. 23, 1974.

REMARKS.--Records fair.

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	1.5	8.5	11	17	18	9.0	27	12	5.7	4.4	.78	.22
2	1.8	6.3	10	12	15	9.3	30	13	5.3	3.9	.86	.22
3	1.2	5.1	9.3	10	12	9.0	44	12	4.7	3.6	.78	.22
4	2.4	5.0	12	9.0	9.7	23	59	12	4.6	3.6	.70	.19
5	1.1	4.8	11	8.0	8.6	34	42	12	5.9	3.4	.70	.19
6	.84	5.0	7.3	7.2	7.3	21	35	12	5.5	3.2	.63	.19
7	.92	5.1	4.4	6.6	6.5	16	30	11	6.1	3.1	.63	.19
8	.84	5.1	5.3	6.0	5.7	13	30	15	7.5	2.9	.70	.16
9	.76	4.8	4.9	5.5	5.2	23	26	11	6.5	2.8	.63	.16
10	.68	4.8	4.3	5.0	4.8	20	23	9.3	5.7	2.6	.70	.19
11	.61	5.0	3.8	4.6	4.8	15	22	13	4.9	2.5	.78	.22
12	1.0	5.1	3.6	5.6	5.3	13	22	17	4.7	2.4	.63	.39
13	3.4	5.1	3.7	5.0	9.0	10	38	12	4.4	2.2	.57	.45
14	3.2	5.3	3.7	4.4	9.3	9.0	27	11	4.2	2.1	.57	.30
15	2.3	6.1	3.5	4.4	6.9	14	22	21	4.4	2.0	.50	.22
16	2.1	6.3	3.3	5.1	6.9	17	20	15	3.9	1.9	.57	.19
17	1.9	6.3	3.2	7.1	6.7	14	19	31	3.7	1.7	.63	.19
18	1.5	7.3	3.1	14	7.3	14	18	35	3.4	1.7	.50	.20
19	1.6	7.0	2.9	32	17	11	17	31	3.4	1.7	.50	.16
20	1.6	7.0	2.8	65	15	9.5	16	24	3.2	1.5	.45	.16
21	1.6	7.8	2.7	74	17	9.0	16	17	4.2	1.3	.45	.16
22	1.8	7.6	2.6	53	41	8.6	16	22	34	1.6	.45	.16
23	1.9	7.6	2.5	44	25	7.7	15	30	24	1.5	.45	.14
24	2.1	8.0	3.3	31	18	6.5	14	19	13	1.3	.39	.16
25	2.1	14	44	27	13	6.3	14	14	8.6	1.2	.39	.16
26	2.1	12	53	28	10	6.3	13	11	6.9	1.2	.34	.16
27	2.5	10	61	35	10	6.1	13	9.0	6.1	1.1	.34	.20
28	2.7	24	43	29	10	6.1	13	8.2	5.5	1.0	.50	.31
29	2.9	20	33	30	------	8.8	13	7.5	5.1	.95	.39	.35
30	3.3	14	27	27	------	20	13	6.9	4.7	.86	.26	.31
31	5.1	------	22	22	------	29	------	6.5	------	.86	.22	------
TOTAL	59.45	240.0	407.2	633.5	325.0	418.2	707	480.4	209.8	66.07	16.99	6.52
MEAN	1.92	8.00	13.1	20.4	11.6	13.5	23.6	15.5	6.99	2.13	.55	.22
MAX	5.1	24	61	74	41	34	59	35	34	4.4	.86	.45
MIN	.61	4.8	2.5	4.4	4.8	6.1	13	6.5	3.2	.86	.22	.14
CFSM	.28	1.17	1.92	2.99	1.70	1.98	3.46	2.27	1.02	.31	.08	.03
IN.	.32	1.31	2.22	3.45	1.77	2.28	3.85	2.62	1.14	.36	.09	.04

CAL YR 1973 TOTAL 3,630.65 MEAN 9.95 MAX 70 MIN .61 CFSM 1.46 IN 19.77
WTR YR 1974 TOTAL 3,570.13 MEAN 9.78 MAX 74 MIN .14 CFSM 1.43 IN 19.44

PEAK DISCHARGE (BASE, 65 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0100	2.91	72	04-03	2100	3.25	96
01-21	0100	3.38	107				

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 4.5 miles (7.2 km) upstream from mouth.

DRAINAGE AREA.--274 mi^2 (710 km^2).

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 Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--31 years, 241 ft^3/s (6.825 m^3/s), 11.94 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,950 ft^3/s (169 m^3/s) Jan. 20, gage height, 11.21 ft (3.417 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Aug. 26, Sept. 21-26.
Period of record: Maximum discharge, 14,400 ft^3/s (408 m^3/s) June 10, 1958, gage height, 18.26 ft (5.566 m); minimum daily, 6.2 ft^3/s (0.18 m^3/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^3/s (510 m^3/s), from rating curve extended above 8,000 ft^3/s (227 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	98	755	647	710	408	1,390	157	222	142	40	35
2	46	120	564	550	603	401	1,250	150	200	130	40	34
3	56	104	472	470	506	384	982	155	190	118	42	36
4	62	86	433	410	422	765	1,600	144	177	110	40	34
5	57	74	495	350	374	2,480	1,160	134	197	105	41	32
6	52	67	422	310	354	1,690	804	130	273	97	39	31
7	52	61	331	270	337	969	655	124	231	90	38	30
8	98	59	288	240	306	695	994	254	469	85	38	29
9	74	57	269	250	273	820	994	436	418	82	38	29
10	60	53	254	210	257	1,100	700	384	312	79	41	29
11	52	52	222	180	239	705	568	294	260	76	46	29
12	48	51	207	160	237	560	514	300	245	70	44	36
13	51	51	217	150	309	454	447	257	207	66	49	49
14	51	51	217	140	447	391	398	228	187	64	47	39
15	48	85	190	145	367	391	347	514	190	63	37	41
16	46	150	170	210	312	502	300	676	167	59	35	36
17	45	122	160	321	288	472	269	1,140	152	57	50	34
18	44	102	150	579	282	426	251	1,810	142	55	40	31
19	44	86	140	2,240	415	394	237	1,250	134	55	35	29
20	42	77	150	3,860	631	344	215	792	130	55	33	28
21	42	77	135	5,100	517	334	212	576	157	51	31	27
22	42	73	120	3,370	1,310	312	225	568	525	52	31	27
23	42	70	200	2,570	1,380	297	205	572	690	58	30	27
24	42	89	269	1,880	765	269	184	1,210	506	56	29	27
25	42	470	939	1,220	539	245	169	680	341	53	28	27
26	42	1,160	2,660	975	429	248	167	476	269	50	27	27
27	45	952	3,690	1,890	381	245	160	381	225	48	28	28
28	52	1,260	3,120	1,820	394	245	157	321	192	46	41	32
29	52	2,120	1,800	1,960	------	1,150	160	300	172	45	45	39
30	60	1,420	1,160	1,320	------	2,230	162	279	157	42	45	35
31	76	------	820	945	------	2,150	------	251	------	40	42	------
TOTAL	1,606	9,297	21,019	34,742	13,384	22,076	15,876	14,943	7,737	2,199	1,190	967
MEAN	51.8	310	678	1,121	478	712	529	482	258	70.9	38.4	32.2
MAX	98	2,120	3,690	5,100	1,380	2,480	1,600	1,810	690	142	50	49
MIN	41	51	120	140	237	245	157	124	130	40	27	27
CFSM	.19	1.13	2.47	4.09	1.74	2.60	1.93	1.76	.94	.26	.14	.12
IN.	.22	1.26	2.85	4.72	1.82	3.00	2.16	2.03	1.05	.30	.16	.13

CAL YR 1973 TOTAL 128,849 MEAN 353 MAX 3,870 MIN 36 CFSM 1.29 IN 17.49
WTR YR 1974 TOTAL 145,036 MEAN 397 MAX 5,100 MIN 27 CFSM 1.45 IN 19.69

PEAK DISCHARGE (BASE, 2,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-29	1200	6.91	2,190	01-29	0200	6.97	2,230
12-27	0900	9.11	3,940	03-05	0800	7.57	2,670
01-20	2300	11.21	5,950	03-30	1500	7.08	2,310

03329700 Deer Creek near Delphi, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
04...	1255	19.0	61	98	16
DEC.					
04...	1425	--	431	94	109
FEB.					
16...	1820	--	304	30	25
MAR.					
28...	1350	8.5	227	107	66
JUNE					
21...	1140	--	176	131	62
AUG.					
30...	1310	22.5	43	50	5.8

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, and 3 miles (5 km) east of Leesburg.

DRAINAGE AREA.--113 mi^2 (293 km^2).

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.--25 years, 98.7 ft^3/s (2.795 m^3/s), 11.86 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 401 ft^3/s (11.36 m^3/s) Mar. 12, gage height, 7.92 ft (2.414 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 10-12.
Period of record: Maximum discharge, 700 ft^3/s (19.8 m^3/s) Oct. 17, 1954, gage height, 8.64 ft (2.633 m); minimum daily, 0.08 ft^3/s (0.002 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	28	70	170	378	261	188	29	137	121	23	14
2	45	47	73	190	373	259	181	77	129	116	23	14
3	27	45	76	203	356	254	177	104	118	112	23	13
4	25	28	78	209	345	259	177	102	91	107	22	13
5	24	19	79	214	335	275	191	99	76	96	22	13
6	24	19	79	214	322	291	203	94	79	49	22	13
7	24	19	80	211	310	317	216	83	86	29	22	13
8	24	19	93	209	295	340	230	58	94	29	21	13
9	15	19	104	208	281	362	232	61	101	29	21	13
10	10	19	99	197	272	375	233	76	116	30	21	13
11	10	19	97	181	261	389	222	118	118	34	21	13
12	10	19	94	167	247	398	213	144	119	50	21	13
13	11	20	94	155	232	398	213	152	116	43	21	14
14	11	21	93	147	219	392	208	159	115	28	21	14
15	12	21	90	138	206	387	209	170	117	28	20	14
16	1	29	73	132	194	378	208	177	108	27	20	14
17	1[illegible]	68	46	130	185	367	202	191	82	26	20	14
18	13	86	46	132	180	356	193	200	80	26	20	14
19	25	81	50	134	167	348	188	205	79	26	20	14
20	55	77	71	141	174	335	180	206	80	26	19	14
21	52	51	92	155	169	325	167	203	82	25	16	14
22	50	35	91	174	181	312	159	199	85	25	15	14
23	40	30	88	200	202	302	151	199	118	25	15	14
24	20	20	88	229	224	288	144	187	127	25	15	14
25	20	25	102	257	238	277	140	178	136	25	15	14
26	20	35	114	286	250	263	133	173	139	25	15	14
27	20	35	124	322	256	250	124	167	138	24	14	14
28	20	55	127	348	259	233	115	163	135	24	14	14
29	20	71	132	370	------	220	114	158	131	24	14	14
30	20	70	140	381	------	206	88	152	126	24	14	14
31	21	------	149	387	------	197	------	143	------	24	14	------
TOTAL	741	1,130	2,832	6,591	7,111	9,614	5,399	4,427	3,258	1,302	584	410
MEAN	23.9	37.7	91.4	213	254	310	180	143	109	42.0	18.8	13.7
MAX	55	86	149	387	378	398	233	206	139	121	23	14
MIN	10	19	46	130	167	197	88	29	76	24	14	13
CFSM	.21	.33	.81	1.89	2.25	2.74	1.59	1.27	.96	.37	.17	.12
IN.	.24	.37	.93	2.17	2.34	3.16	1.78	1.46	1.07	.43	.19	.13

CAL YR 1973 TOTAL 43,630 MEAN 120 MAX 304 MIN 10 CFSM 1.06 IN 14.36
WTR YR 1974 TOTAL 43,399 MEAN 119 MAX 398 MIN 10 CFSM 1.05 IN 14.29

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-05	0800	7.07	214	04-10	0600	7.20	235
01-31	0200	7.88	389	05-19	1600	7.03	208
03-12	0600	7.92	401				

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^2 (50.8 km^2).

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.--5 years, 17.2 ft^3/s (0.487 m^3/s), 11.92 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 131 ft^3/s (3.71 m^3/s) Mar. 5, gage height, 3.10 ft (0.945 m); minimum daily, 1.1 ft^3/s (0.031 m^3/s) Sept. 27.
Period of record: Maximum discharge, 141 ft^3/s (3.99 m^3/s) Apr. 21, 1970, gage height, 3.02 ft (0.920 m); maximum gage height, 3.10 ft (0.945 Mar. 5, 1974; minimum daily discharge, 0.90 ft^3/s (0.025 m^3/s) Aug. 13, Aug. 24 to Sept. 3, 1971.

REMARKS.--Records good.

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	4.8	4.8	18	30	51	28	24	18	13	9.2	2.3	1.3
2	5.0	5.3	15	16	43	27	28	17	12	8.1	2.3	1.3
3	5.3	5.3	13	16	36	28	31	16	11	7.2	2.1	1.3
4	5.3	4.8	13	17	30	45	50	16	11	6.7	1.8	1.3
5	4.8	4.5	14	15	25	109	57	15	10	6.2	1.8	1.3
6	4.2	3.7	14	15	18	100	53	14	12	5.7	1.7	1.3
7	3.7	3.5	13	18	23	87	47	13	12	5.0	1.6	1.3
8	3.3	3.3	12	16	26	74	42	17	16	4.1	1.5	1.2
9	3.1	3.1	11	15	21	70	37	23	19	3.6	1.5	1.3
10	2.9	2.7	11	12	19	71	32	22	19	3.7	1.5	1.2
11	2.7	2.7	10	10	18	62	29	27	17	3.8	1.5	1.3
12	2.9	2.5	9.3	7.0	17	57	29	43	14	3.4	1.5	2.1
13	3.1	2.5	9.6	7.0	17	48	31	42	12	3.3	1.4	3.5
14	3.3	2.3	10	8.0	19	41	31	38	17	3.3	1.3	3.4
15	3.3	2.5	10	10	18	38	29	42	25	3.4	1.3	2.7
16	3.1	2.7	8.2	10	18	40	27	39	20	3.4	1.9	2.1
17	2.9	2.5	7.8	11	17	39	24	42	17	3.3	3.2	1.9
18	2.9	2.7	7.0	12	17	37	22	43	15	3.4	2.2	1.7
19	2.7	2.7	16	27	23	36	21	39	14	3.5	1.9	1.6
20	2.5	2.7	41	54	30	33	20	32	13	3.3	1.7	1.5
21	2.5	2.7	35	122	31	32	19	27	19	3.3	1.5	1.4
22	2.3	2.9	18	120	66	31	18	29	22	3.3	1.4	1.3
23	2.3	2.9	12	118	74	29	18	36	22	3.3	1.4	1.5
24	2.3	3.3	13	94	64	27	20	30	18	3.3	1.3	1.2
25	2.1	4.5	25	73	49	24	18	24	15	3.2	1.3	1.2
26	2.1	6.5	42	61	37	23	17	19	15	3.0	1.3	1.2
27	2.3	6.7	66	80	31	23	16	17	14	2.8	1.2	1.1
28	2.3	13	70	79	29	22	17	16	12	2.7	1.2	1.2
29	2.7	23	60	71	------	22	21	15	11	2.7	1.3	1.3
30	3.5	22	48	63	------	22	20	15	10	2.5	1.3	1.2
31	3.7	------	39	59	------	23	------	14	------	2.4	1.3	------
TOTAL	99.9	154.3	690.9	1,266.0	867	1,348	848	800	457	126.1	50.5	47.2
MEAN	3.22	5.14	22.3	40.8	31.0	43.5	28.3	25.8	15.2	4.07	1.63	1.57
MAX	5.3	23	70	122	74	109	57	43	25	9.2	3.2	3.5
MIN	2.1	2.3	7.0	7.0	17	22	16	13	10	2.4	1.2	1.1
CFSM	.16	.26	1.14	2.08	1.58	2.22	1.44	1.32	.78	.21	.08	.08
IN.	.19	.29	1.31	2.40	1.65	2.56	1.61	1.52	.87	.24	.10	.09

CAL YR 1973 TOTAL 7,183.0 MEAN 19.7 MAX 105 MIN 1.4 CFSM 1.01 IN 13.63
WTR YR 1974 TOTAL 6,754.9 MEAN 18.5 MAX 122 MIN 1.1 CFSM .94 IN 12.82

PEAK DISCHARGE (BASE, 75 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	0400	3.05	126	02-22	1500	2.57	77
01-27	1500	2.62	82	03-05	0100	3.10	131

03331500 Tippecanoe River near Ora, Ind.

LOCATION.--Lat 41°09'26", long 86°33'49", in SE¼SE¼ 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, and 1.3 miles (2.1 km) southwest of Ora.

DRAINAGE AREA.--856 mi^2 (2,217 km^2).

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.--31 years, 805 ft^3/s (22.80 m^3/s), 12.77 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,700 ft^3/s (133 m^3/s) Jan. 23, gage height, 12.36 ft (3.767 m); minimum daily, 186 ft^3/s (5.27 m^3/s) Sept. 26, 27.
Period of record: Maximum discharge, 7,800 ft^3/s (221 m^3/s) Apr. 5, 1950, gage height, 14.40 ft (4.389 m) site then in use; minimum daily, 87 ft^3/s (2.46 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	304	606	1,640	2,810	1,810	1,550	1,240	1,190	722	279	202
2	370	324	576	1,450	2,610	1,720	1,590	1,130	1,100	671	285	199
3	433	355	541	1,280	2,360	1,670	1,590	1,050	1,030	628	292	205
4	389	348	520	1,130	2,140	1,720	1,800	945	962	588	283	206
5	340	345	559	1,000	1,960	2,220	2,140	863	902	555	278	206
6	314	340	574	1,040	1,830	3,180	2,240	814	993	533	273	206
7	314	321	554	980	1,700	3,650	2,160	773	1,010	515	267	200
8	309	298	526	1,000	1,610	3,500	2,040	861	1,070	500	265	199
9	293	282	505	930	1,550	3,460	1,960	1,160	1,100	468	261	197
10	279	266	488	900	1,530	3,380	1,870	1,210	1,060	475	256	195
11	274	259	472	910	1,500	3,360	1,770	1,200	988	513	258	196
12	264	253	487	880	1,420	3,220	1,720	1,510	949	466	259	233
13	266	251	480	840	1,340	2,930	1,720	1,650	902	450	256	297
14	287	243	494	840	1,370	2,630	1,760	1,550	872	432	253	290
15	306	243	492	890	1,370	2,410	1,710	1,580	852	419	243	296
16	306	245	476	1,000	1,290	2,310	1,610	1,730	906	394	238	287
17	274	248	457	1,150	1,240	2,280	1,510	1,950	997	368	242	254
18	266	259	370	1,380	1,200	2,190	1,420	2,450	1,000	355	267	226
19	240	259	400	1,680	1,250	2,100	1,350	2,830	944	350	264	213
20	233	259	315	2,100	1,530	2,030	1,270	2,640	856	344	268	200
21	227	309	270	2,620	1,600	1,960	1,200	2,260	872	338	257	194
22	227	329	290	3,900	1,850	1,900	1,160	2,190	1,040	333	240	193
23	253	329	345	4,650	2,360	1,830	1,100	2,490	1,130	335	229	192
24	266	334	500	4,480	2,600	1,750	1,040	2,740	1,090	336	219	189
25	264	324	860	4,120	2,410	1,660	974	2,530	1,020	334	213	187
26	256	350	1,530	3,580	2,120	1,590	925	2,160	975	327	207	186
27	240	365	2,380	3,220	1,920	1,550	888	1,900	985	317	204	186
28	243	389	2,610	3,230	1,870	1,510	875	1,700	952	307	204	192
29	245	588	2,350	3,250	------	1,480	1,140	1,530	867	307	207	197
30	256	654	2,070	3,070	------	1,480	1,350	1,390	787	296	209	204
31	266	------	1,860	2,940	------	1,510	------	1,290	------	283	209	------
TOTAL	8,806	9,673	24,957	62,080	50,340	69,990	45,432	51,316	29,401	13,259	7,685	6,427
MEAN	284	322	805	2,003	1,798	2,258	1,514	1,655	980	428	248	214
MAX	433	654	2,610	4,650	2,810	3,650	2,240	2,830	1,190	722	292	297
MIN	227	243	270	840	1,200	1,480	875	773	787	283	204	186
CFSM	.33	.38	.94	2.34	2.10	2.64	1.77	1.93	1.14	.50	.29	.25
IN.	.38	.42	1.08	2.70	2.19	3.04	1.97	2.23	1.28	.58	.33	.28

CAL YR 1973 TOTAL 384,903 MEAN 1,055 MAX 4,620 MIN 223 CFSM 1.23 IN 16.73
WTR YR 1974 TOTAL 379,366 MEAN 1,039 MAX 4,650 MIN 186 CFSM 1.21 IN 16.49

PEAK DISCHARGE (BASE, 2,300 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	2000	11.33	3,440	03-07	0700	11.57	3,700
01-23	0900	12.36	4,700	05-19	1100	10.73	2,860
02-24	0700	10.47	2,630	05-24	1200	10.64	2,780

03331500 Tippecanoe River near Ora, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC.					
05...	1500	6.0	570	29	45
FEB.					
14...	1620	--	1370	37	137
MAR.					
26...	1305	--	1570	43	182
MAY					
08...	1400	--	793	17	36
JUNE					
18...	1315	18.0	1110	74	222

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.

DRAINAGE AREA.--1,732 mi^2 (4,486 km^2).

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

AVERAGE DISCHARGE.--43 years, 1,496 ft^3/s (42.37 m^3/s), 11.73 in/yr (298 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 12,100 ft^3/s (343 m^3/s) Jan. 21; minimum daily, 238 ft^3/s (6.74 m^3/s) Sept. 9. Period of record: Maximum daily discharge, 16,800 ft^3/s (476 m^3/s) June 13, 1958; minimum daily, 103 ft^3/s (2.92 m^3/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 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	477	668	1,150	2,460	4,800	3,060	3,130	1,980	2,060	1,270	433	300
2	800	685	1,000	1,960	4,500	2,900	3,330	1,810	1,810	995	477	300
3	934	652	1,130	1,960	3,960	2,840	2,280	1,810	1,700	1,110	455	282
4	750	635	979	1,940	3,370	3,400	4,910	1,600	1,660	1,040	520	325
5	668	684	1,430	1,700	3,180	7,560	5,280	1,490	1,680	915	455	303
6	569	618	1,220	1,610	2,730	6,570	4,210	1,380	1,640	915	412	260
7	619	635	1,150	1,590	2,070	5,800	5,230	1,300	1,780	849	412	325
8	619	602	1,090	1,430	2,560	5,400	2,880	1,840	1,810	685	412	303
9	586	602	915	1,340	2,130	5,260	3,250	2,310	1,890	718	433	238
10	635	520	1,060	1,300	1,890	5,530	3,060	2,310	1,800	800	368	282
11	433	520	750	1,340	1,890	5,040	2,940	2,290	1,590	684	433	303
12	520	586	915	1,280	2,180	4,890	2,880	3,060	1,520	734	455	542
13	718	498	1,020	1,410	2,300	4,440	2,890	2,800	1,640	635	440	1,020
14	586	569	915	1,370	2,330	3,980	2,910	2,490	1,390	652	347	548
15	668	553	915	1,320	2,160	3,830	3,180	3,190	1,720	586	390	520
16	520	561	915	1,490	1,900	4,050	2,130	3,240	1,380	520	412	586
17	586	520	701	1,650	2,020	3,980	2,100	5,530	1,430	520	368	412
18	602	455	750	1,710	1,980	3,860	2,160	7,880	1,450	520	433	433
19	412	520	635	2,830	2,470	3,670	2,120	6,980	1,490	520	390	390
20	536	520	325	6,200	3,070	3,180	1,940	5,820	1,240	553	390	390
21	520	602	549	12,100	2,880	3,060	1,690	4,630	1,410	520	368	282
22	520	586	718	10,700	5,950	3,040	1,870	7,290	1,610	520	412	347
23	520	586	783	9,830	6,170	2,700	1,810	7,200	2,310	569	325	303
24	437	635	915	8,560	4,810	2,500	1,520	5,420	1,830	520	282	325
25	520	635	1,960	9,460	4,090	2,440	1,760	4,560	1,560	520	347	325
26	520	750	4,500	6,670	3,650	2,420	1,430	4,330	1,700	520	347	325
27	520	734	6,640	6,890	3,160	2,310	1,430	3,240	1,430	520	347	347
28	569	979	6,300	6,140	3,230	2,310	1,450	3,010	1,430	520	325	303
29	520	1,430	5,370	5,960	------	2,230	2,010	2,690	1,180	520	325	412
30	520	1,280	4,480	5,530	------	2,850	2,060	2,280	1,180	433	293	325
31	635	------	3,880	5,610	------	3,440	------	3,160	------	412	303	------
TOTAL	18,039	19,820	55,060	125,340	87,430	118,540	79,840	108,920	48,320	20,795	12,109	11,356
MEAN	582	661	1,776	4,043	3,123	3,824	2,661	3,514	1,611	671	391	379
MAX	934	1,430	6,640	12,100	6,170	7,560	5,280	7,880	2,310	1,270	520	1,020
MIN	412	455	325	1,280	1,890	2,230	1,430	1,300	1,180	412	282	238
CFSM	.34	.38	1.03	2.33	1.80	2.21	1.54	2.03	.93	.39	.23	.22
IN.	.39	.43	1.18	2.69	1.88	2.55	1.71	2.34	1.04	.45	.26	.24

CAL YR 1973 TOTAL 729,646 MEAN 1,999 MAX 9,850 MIN 325 CFSM 1.15 IN 15.67
WTR YR 1974 TOTAL 705,569 MEAN 1,933 MAX 12,100 MIN 238 CFSM 1.12 IN 15.15

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, 2 miles (3 km) downstream from Big Creek, and 5 miles (8 km) northwest of Delphi.

DRAINAGE AREA.--1,865 mi^2 (4,830 km^2).

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.--35 years (1939 to current year), 1,628 ft^3/s (46.10 m^3/s), 11.85 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,100 ft^3/s (399 m^3/s) Jan. 21, gage height, 11.80 ft (3.597 m); minimum daily, 226 ft^3/s (6.40 m^3/s) Sept. 23.
Period of record: Maximum discharge, 22,600 ft^3/s (640 m^3/s) Feb. 10, 1959, gage height, 15.10 ft (4.602 m); minimum daily, 1 ft^3/s (0.028 m^3/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 powerplant above station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	754	1,470	3,150	4,780	3,280	3,400	2,100	2,160	1,460	583	350
2	741	853	1,130	1,880	4,540	3,090	3,590	2,050	2,040	1,330	573	355
3	830	663	1,140	2,220	3,950	2,970	3,340	1,940	1,980	1,240	489	355
4	933	698	1,290	2,140	3,460	3,690	6,700	1,710	1,740	1,050	495	360
5	723	749	1,670	1,970	3,520	7,280	5,550	1,610	1,920	1,080	522	359
6	551	629	1,410	1,790	2,950	6,260	4,210	1,490	1,870	1,040	480	274
7	768	703	1,310	1,810	2,260	5,510	5,440	1,400	1,940	901	484	387
8	624	641	1,160	1,560	2,560	5,320	3,010	2,150	2,100	877	499	391
9	609	633	1,100	1,620	2,380	5,230	3,370	2,500	2,020	848	500	274
10	663	438	1,150	1,490	2,020	5,710	3,260	2,390	1,950	935	466	334
11	530	623	799	1,390	2,190	5,040	3,110	2,490	1,770	889	510	331
12	510	568	1,050	1,640	2,490	4,800	3,210	3,130	1,770	797	495	617
13	861	536	1,130	1,540	2,460	4,370	3,280	3,030	1,760	873	546	1,350
14	633	649	1,070	1,570	2,720	4,000	3,150	2,800	1,550	872	386	549
15	687	650	1,060	1,440	2,230	4,010	3,700	3,550	1,890	616	450	564
16	656	553	1,060	1,620	2,280	4,250	2,460	3,310	1,830	724	370	614
17	467	497	689	1,820	2,400	4,200	1,750	5,120	1,520	650	512	441
18	685	551	866	1,790	2,230	3,930	2,360	8,240	1,770	655	508	528
19	439	527	830	3,110	2,830	3,740	2,250	7,080	1,600	660	439	348
20	546	587	427	6,370	3,340	3,470	2,150	5,750	1,520	626	438	438
21	524	656	628	13,300	3,190	3,280	1,850	4,690	1,460	633	439	346
22	570	603	726	11,300	6,100	3,080	2,080	6,730	2,230	541	460	347
23	522	658	908	9,510	6,330	3,010	1,880	7,530	2,850	656	407	226
24	498	804	1,040	8,510	4,810	2,790	1,720	5,610	2,100	706	358	352
25	520	822	2,030	7,360	4,170	2,580	1,790	4,410	1,960	565	370	348
26	522	820	4,790	6,650	3,730	2,580	1,620	4,220	1,860	628	348	322
27	652	946	6,830	7,160	3,410	2,470	1,620	3,440	1,660	548	373	440
28	534	1,200	7,100	6,330	3,370	2,590	1,620	3,140	1,470	592	527	348
29	652	1,610	5,670	5,980	------	2,430	2,120	2,950	1,470	523	349	489
30	495	1,410	4,890	5,720	------	3,270	2,270	2,540	1,460	381	345	306
31	616	------	4,250	5,740	------	3,750	------	2,390	------	531	354	------
TOTAL	19,004	22,031	60,673	129,480	92,700	121,980	87,860	111,490	55,220	24,427	14,075	12,743
MEAN	613	734	1,957	4,177	3,311	3,935	2,929	3,596	1,841	788	454	425
MAX	933	1,610	7,100	13,300	6,330	7,280	6,700	8,240	2,850	1,460	583	1,350
MIN	439	438	427	1,390	2,020	2,430	1,620	1,400	1,460	381	345	226
CFSM	.33	.39	1.05	2.24	1.78	2.11	1.57	1.93	.99	.42	.24	.23
IN.	.38	.44	1.21	2.58	1.85	2.43	1.75	2.22	1.10	.49	.28	.25

CAL YR 1973 TOTAL 778,923 MEAN 2,134 MAX 10,500 MIN 427 CFSM 1.14 IN 15.54
WTR YR 1974 TOTAL 751,683 MEAN 2,059 MAX 13,300 MIN 226 CFSM 1.10 IN 14.99

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, and 1.5 miles (2.4 km) southeast of Jerome.

DRAINAGE AREA.--146 mi^2 (378 km^2).

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.--13 years, 128 ft^3/s (3.625 m^3/s), 11.91 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,720 ft^3/s (77.0 m^3/s) Jan. 19, gage height, 10.16 ft (3.097 m); minimum daily, 4.0 ft^3/s (0.11 m^3/s) Sept. 24, 25.

Period of record: Maximum discharge, 4,160 ft^3/s (118 m^3/s) Apr. 20, 1964; maximum gage height, 11.98 ft (3.652 m) Jan. 26, 1962; minimum daily discharge, 1.1 ft^3/s (0.031 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	48	643	387	449	250	667	75	79	70	8.6	8.2
2	18	59	478	297	355	220	638	69	68	60	8.6	6.8
3	38	48	372	260	270	194	563	72	63	51	9.1	6.8
4	53	41	325	217	207	281	2,210	61	58	45	8.6	6.4
5	91	30	382	189	164	801	1,230	55	57	44	8.6	5.7
6	63	28	283	170	151	630	711	55	77	40	8.2	5.3
7	42	27	202	148	182	400	495	50	81	36	7.7	4.9
8	31	24	165	120	153	288	572	121	188	33	8.2	4.9
9	24	23	153	100	127	233	624	537	227	31	8.2	4.5
10	20	21	139	90	108	201	501	353	151	45	8.2	4.5
11	18	19	112	80	93	159	366	234	104	44	8.6	4.9
12	16	18	103	74	97	145	292	429	96	32	8.2	21
13	15	19	114	85	273	117	236	313	81	27	7.7	23
14	17	19	129	91	354	100	193	210	70	24	7.2	13
15	16	167	121	94	210	101	154	1,070	73	23	7.2	8.2
16	15	342	105	104	164	124	124	1,010	90	20	7.2	6.4
17	14	167	92	233	137	113	107	715	71	18	11	5.7
18	13	109	86	566	124	102	97	1,070	58	17	10	5.3
19	13	84	80	2,330	253	101	90	940	52	16	8.6	4.9
20	13	67	74	2,610	472	88	81	737	49	16	6.1	4.9
21	13	63	68	2,110	328	87	78	484	50	14	5.3	4.3
22	13	58	64	1,310	808	79	81	345	93	14	4.9	4.3
23	13	51	62	1,680	710	75	76	275	523	14	4.5	4.3
24	13	181	64	1,110	409	69	65	211	403	14	4.5	4.0
25	13	1,240	687	743	264	60	59	162	214	13	4.5	4.0
26	12	1,540	1,780	613	188	65	57	133	141	12	4.3	4.3
27	13	1,100	2,420	1,490	162	69	57	113	109	11	4.9	4.5
28	14	1,520	1,490	1,230	216	72	58	98	90	11	11	5.7
29	16	1,640	983	1,300	------	313	59	96	77	9.6	8.6	6.8
30	26	964	700	856	------	859	70	112	68	9.1	7.2	6.8
31	30	------	521	609	------	1,040	------	97	------	8.6	8.2	------
TOTAL	719	9,717	12,997	21,296	7,428	7,436	10,611	10,302	3,561	822.3	233.7	204.3
MEAN	23.2	324	419	687	265	240	354	332	119	26.5	7.54	6.81
MAX	91	1,640	2,420	2,610	808	1,040	2,210	1,070	523	70	11	23
MIN	12	18	62	74	93	60	57	50	49	8.6	4.3	4.0
CFSM	.16	2.22	2.87	4.71	1.82	1.64	2.42	2.27	.82	.18	.05	.05
IN.	.18	2.48	3.31	5.43	1.89	1.89	2.70	2.62	.91	.21	.06	.05

CAL YR 1973 TOTAL 76,340.0 MEAN 209 MAX 2,420 MIN 11 CFSM 1.43 IN 19.45
WTR YR 1974 TOTAL 85,327.3 MEAN 234 MAX 2,610 MIN 4.0 CFSM 1.60 IN 21.74

PEAK DISCHARGE (BASE, 1,200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	2400	8.48	1,810	01-19	1900	10.16	2,720	01-29	0400	7.54	1,440
11-28	2300	8.96	2,030	01-23	1100	8.52	1,830	04-04	1200	9.84	2,520
12-27	0700	10.04	2,640	01-27	1400	8.16	1,680	05-15	1700	7.59	1,460

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^2 (64.0 km^2).

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.--15 years, 20.9 ft^3/s (0.592 m^3/s), 11.49 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 500 ft^3/s (14.2 m^3/s) Jan. 20, gage height, 7.90 ft (2.408 m); minimum daily, 0.35 ft^3/s (0.010 m^3/s) Sept. 22-24.
Period of record: Maximum discharge, 1,040 ft^3/s (29.4 m^3/s) Apr. 20, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 0.12 ft^3/s (0.003 m^3/s) Oct. 3, 1967.

REMARKS.--Records fair.

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

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	1.8	24	112	68	76	54	109	11	14	11	2.4	3.6
2	26	17	92	55	63	46	102	11	12	11	1.0	2.2
3	21	9.8	77	49	47	40	92	11	11	9.5	.44	2.9
4	56	7.0	73	40	35	57	242	9.5	8.6	8.5	.54	2.2
5	59	6.0	76	35	28	241	126	9.5	12	7.5	4.7	1.3
6	35	4.4	57	31	28	123	92	9.1	11	6.5	6.0	1.2
7	24	3.6	44	26	30	89	73	8.4	14	5.8	2.2	.75
8	19	3.6	37	22	24	68	106	45	19	5.2	.88	.64
9	15	2.6	34	18	20	58	94	104	34	4.5	.54	.54
10	13	1.7	28	16	18	53	75	60	25	10	.54	.64
11	12	1.5	22	15	15	41	57	40	20	6.0	1.2	.54
12	11	3.9	21	13	21	34	48	39	17	4.0	1.0	1.5
13	11	4.7	21	15	59	25	37	28	15	3.5	.88	1.3
14	10	4.7	18	16	58	22	31	24	13	3.2	.88	1.2
15	8.6	8.2	16	18	33	22	24	146	13	2.9	.75	.88
16	7.4	14	14	24	28	30	19	94	13	2.7	.88	1.0
17	6.7	7.4	12	55	22	25	17	150	12	2.4	15	1.2
18	5.6	6.0	10	117	22	23	16	162	11	1.8	11	.88
19	5.0	4.4	8.9	367	59	22	15	132	10	1.2	2.2	.75
20	4.4	3.1	8.0	444	73	18	14	96	9.0	1.2	1.2	.75
21	3.9	3.9	7.7	376	58	18	13	82	14	.88	.64	.54
22	3.1	3.3	7.7	218	173	16	14	66	17	.88	1.0	.35
23	2.9	2.4	7.8	284	107	15	13	58	64	1.8	.54	.35
24	2.2	21	9.8	159	72	14	11	48	45	1.8	.54	.35
25	1.8	252	169	116	47	12	11	39	35	1.7	.54	.44
26	1.7	221	262	126	34	13	10	33	26	1.3	.54	.64
27	1.5	161	361	259	31	14	9.9	28	21	1.2	4.4	.75
28	1.5	309	214	173	51	14	10	25	16	1.3	28	.88
29	2.0	248	144	178	------	111	10	24	13	2.2	8.2	1.7
30	5.0	146	107	121	------	221	12	21	12	4.1	3.3	1.0
31	6.3	------	86	95	------	167	------	18	------	4.7	3.3	------
TOTAL	383.4	1,505.2	2,156.9	3,549	1,332	1,706	1,502.9	1,631.5	556.6	130.26	105.23	32.97
MEAN	12.4	50.2	69.6	114	47.6	55.0	50.1	52.6	18.6	4.20	3.39	1.10
MAX	59	309	361	444	173	241	242	162	64	11	28	3.6
MIN	1.5	1.5	7.7	13	15	12	9.9	8.4	8.6	.88	.44	.35
CFSM	.50	2.03	2.82	4.62	1.93	2.23	2.03	2.13	.75	.17	.14	.04
IN.	.58	2.27	3.25	5.35	2.01	2.57	2.26	2.46	.84	.20	.16	.05

CAL YR 1973 TOTAL 13,544.60 MEAN 37.1 MAX 361 MIN 1.0 CFSM 1.50 IN 20.40
WTR YR 1974 TOTAL 14,591.96 MEAN 40.0 MAX 444 MIN .35 CFSM 1.62 IN 21.98

PEAK DISCHARGE (BASE, 260 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	1300	6.05	333	12-27	0200	6.71	385	01-27	0500	5.68	303
11-28	1600	6.55	373	01-20	2100	7.90	500	03-05	0300	5.82	314
12-25	2400	5.29	272	01-23	0200	6.12	338	04-04	0700	5.50	288

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 Continental Steel Corporation in Kokomo, 0.3 mile (0.5 km) downstream from Kokomo Creek, and 0.4 mile (0.6 km) upstream from Dixon Road bridge.

DRAINAGE AREA.--242 mi^2 (627 km^2).

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.--19 years, 226 ft^3/s (6.40 m^3/s), 12.68 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,590 ft^3/s (187 m^3/s) Jan. 20, gage height, 9.96 ft (3.036 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 22.
Period of record: Maximum discharge, 8,100 ft^3/s (229 m^3/s) Feb. 10, 1959; maximum gage height, 11.77 ft (3.587 m) Apr. 21, 1964; minimum daily discharge, 7.2 ft^3/s (0.20 m^3/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^3).

REVISIONS.--WSP 2109: Drainage area.

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	43	86	1,080	620	796	417	1,320	138	163	114	43	49
2	84	94	754	483	607	378	1,090	138	130	109	52	47
3	65	99	592	411	456	342	1,040	129	127	97	36	62
4	155	81	557	355	368	516	3,070	116	117	85	33	45
5	125	72	556	313	320	1,810	2,850	102	143	87	38	41
6	81	59	469	290	293	1,310	1,270	97	132	74	43	40
7	67	56	344	266	298	801	841	93	163	67	93	37
8	66	54	283	226	284	569	986	437	211	67	63	35
9	66	49	256	200	243	525	1,020	841	319	62	49	39
10	81	44	240	180	214	473	832	651	257	71	46	39
11	82	43	215	170	193	358	623	418	227	67	66	42
12	89	45	192	160	216	319	499	471	190	65	48	62
13	83	42	210	153	350	265	401	502	159	56	48	52
14	74	42	206	177	559	232	316	395	138	53	44	37
15	73	92	203	188	396	246	303	1,410	125	56	44	28
16	71	290	182	213	299	256	251	1,760	12[illegible]	57	49	33
17	68	288	162	313	262	254	214	1,740	129	55	63	33
18	66	186	155	950	242	237	197	1,820	110	55	46	32
19	64	146	145	3,830	367	187	191	1,640	106	55	44	32
20	61	117	135	6,070	683	106	164	1,190	105	51	42	31
21	58	112	125	5,230	590	116	159	780	157	46	43	30
22	60	91	120	3,140	1,260	105	177	569	197	52	43	27
23	56	83	122	3,180	1,370	100	156	463	505	53	43	31
24	42	191	146	2,500	771	96	142	365	585	53	39	33
25	34	1,380	1,090	1,420	494	99	122	294	335	49	38	31
26	34	2,730	3,210	1,280	356	120	116	248	243	49	41	32
27	44	2,190	4,670	2,440	306	143	110	218	193	43	50	35
28	39	2,620	3,430	2,580	335	162	119	199	163	40	365	35
29	75	3,290	1,870	2,420	------	796	129	203	133	42	82	43
30	55	1,890	1,220	1,770	------	1,780	145	198	118	44	54	32
31	76	------	851	1,110	------	2,040	------	186	------	43	55	------
TOTAL	2,137	16,562	23,790	42,638	12,928	15,158	18,853	17,811	5,809	1,917	1,843	1,145
MEAN	68.9	552	767	1,375	462	489	628	575	194	61.8	59.5	38.2
MAX	155	3,290	4,670	6,070	1,370	2,040	3,070	1,820	585	114	365	62
MIN	34	42	120	153	193	96	110	93	105	40	33	27
CFSM	.28	2.28	3.17	5.68	1.91	2.02	2.60	2.38	.80	.26	.25	.16
IN.	.33	2.55	3.66	6.55	1.99	2.33	2.90	2.74	.89	.29	.28	.18

CAL YR 1973 TOTAL 131,955 MEAN 362 MAX 4,670 MIN 34 CFSM 1.50 IN 20.28
WTR YR 1974 TOTAL 160,591 MEAN 440 MAX 6,070 MIN 27 CFSM 1.82 IN 24.69

PEAK DISCHARGE (BASE, 2,100 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1400	6.78	2,940	01-20	2100	9.96	6,590	03-31	0200	5.94	2,200
11-29	0800	7.44	3,570	01-23	1200	7.06	3,200	04-04	2200	7.74	3,870
12-27	1400	8.68	4,870	01-28	0200	6.65	2,820	05-17	0700	6.60	2,770

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, 4.2 miles (6.8 km) upstream from mouth, and 5 miles (8 km) east of Lafayette.

DRAINAGE AREA.--243 mi^2 (629 km^2).

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 (State Highway Department of Indiana bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft (12 m) downstream at same datum.

AVERAGE DISCHARGE.--31 years, 241 ft^3/s (6.825 m^3/s), 13.47 in/yr (342 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft^3/s (163 m^3/s) Jan. 19, gage height, 11.69 ft (3.563 m); minimum daily, 42 ft^3/s (1.19 m^3/s) Aug. 26, 27.

Period of record: Maximum discharge, 12,600 ft^3/s (357 m^3/s) June 10, 1958, gage height, 15.28 ft (4.657 m), from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of contracted-opening measurement at 16.8 ft (5.121 m); minimum daily, 15 ft^3/s (0.42 m^3/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^3/s (507 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	89	760	571	730	486	1,330	186	463	257	65	55
2	50	125	555	487	632	441	1,190	180	375	226	67	54
3	62	115	452	425	536	400	993	186	327	200	66	53
4	75	98	419	370	457	412	2,140	178	290	182	64	54
5	260	87	500	310	410	1,620	1,490	164	331	174	62	49
6	144	82	418	275	399	1,150	1,010	158	377	164	60	47
7	98	78	325	240	510	717	786	152	356	154	59	46
8	80	74	274	215	435	543	1,120	267	675	146	63	45
9	71	73	248	240	368	474	1,120	778	653	141	72	44
10	65	70	227	205	320	418	857	708	454	142	72	43
11	60	67	196	190	288	366	671	486	339	134	65	44
12	58	66	179	175	287	352	584	412	296	125	60	57
13	62	65	193	165	455	309	508	352	262	118	57	77
14	63	66	241	155	447	277	452	298	249	113	57	73
15	60	88	242	150	359	276	401	1,070	2,130	109	61	61
16	57	123	210	215	307	305	350	1,260	1,020	104	55	55
17	56	100	185	368	283	300	312	1,450	582	101	56	51
18	54	88	173	1,250	259	311	289	1,960	411	99	74	50
19	53	82	168	4,800	321	321	270	2,110	339	106	60	48
20	52	80	144	3,630	637	285	248	1,710	297	100	53	47
21	51	81	135	3,160	504	280	235	1,340	370	96	49	46
22	50	81	122	2,050	1,010	266	344	1,510	1,040	91	47	45
23	49	78	115	2,720	1,170	252	307	1,620	3,800	92	47	44
24	49	114	148	1,790	685	232	246	988	1,700	90	48	44
25	48	985	950	1,240	480	210	217	702	957	85	46	44
26	47	1,430	2,770	1,000	383	214	205	555	659	81	42	43
27	48	1,170	3,420	1,750	346	220	196	460	494	78	42	45
28	51	1,330	2,120	1,720	421	224	188	399	398	75	65	51
29	53	1,780	1,310	1,760	------	1,580	189	778	342	72	84	59
30	57	1,200	923	1,240	------	2,320	189	1,010	297	69	72	54
31	67	------	722	927	------	2,070	------	643	------	66	60	------
TOTAL	2,097	9,965	18,844	33,793	13,439	17,631	18,437	24,070	20,283	3,790	1,850	1,528
MEAN	67.6	332	608	1,090	480	569	615	776	676	122	59.7	50.9
MAX	260	1,780	3,420	4,800	1,170	2,320	2,140	2,110	3,800	257	84	77
MIN	47	65	115	150	259	210	188	152	249	66	42	43
CFSM	.28	1.37	2.50	4.49	1.98	2.34	2.53	3.19	2.78	.50	.25	.21
IN.	.32	1.53	2.88	5.17	2.06	2.70	2.82	3.68	3.11	.58	.28	.23

CAL YR 1973 TOTAL 116,533 MEAN 319 MAX 3,420 MIN 47 CFSM 1.31 IN 17.84
WTR YR 1974 TOTAL 165,727 MEAN 454 MAX 4,800 MIN 42 CFSM 1.87 IN 25.37

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0700	9.53	3,630	06-23	0400	10.06	4,080
01-19	1200	11.69	5,740				

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, 2.5 miles (4.0 km) upstream from mouth, 3 miles (5 km) downstream from South Fork Wildcat Creek, and 3.7 miles (6.0 km) northeast of Court House in Lafayette.

DRAINAGE AREA.--794 mi^2 (2,056 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: May 1954 to current year.
CHEMICAL ANALYSES: December 1970 to August 1974 (discontinued).
WATER TEMPERATURE: December 1970 to August 1974 (discontinued).
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.--20 years, 757 ft^3/s (21.44 m^3/s) 12.94 in/yr (329 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	157	263	4,030	2,390	2,720	1,330	4,870	556	966	618	159	259
2	140	364	2,490	2,200	2,180	1,330	4,060	525	802	556	165	234
3	163	352	1,860	1,850	1,740	1,240	3,280	534	706	513	167	198
4	209	312	1,580	1,600	1,400	1,350	5,290	508	652	473	170	211
5	469	281	1,680	1,350	1,200	4,370	4,970	476	696	444	155	186
6	450	252	1,480	1,170	1,100	4,440	4,880	448	807	416	145	159
7	332	238	1,210	1,000	1,160	3,160	3,080	428	745	399	139	148
8	266	224	986	900	1,050	2,250	3,490	601	1,300	370	159	140
9	231	214	858	810	931	1,960	3,520	2,150	1,340	353	220	128
10	221	205	783	910	819	2,080	2,900	2,140	1,120	348	213	125
11	208	195	699	750	743	1,570	2,340	1,590	899	328	185	118
12	214	189	645	670	725	1,320	1,940	1,270	828	317	174	165
13	224	186	633	610	1,090	1,140	1,640	1,160	730	296	171	205
14	238	192	707	580	1,280	977	1,390	1,120	676	280	155	214
15	231	221	692	550	1,250	926	1,180	2,360	2,750	261	156	198
16	214	328	639	540	1,020	1,050	1,030	3,510	1,660	246	145	183
17	205	429	567	840	874	1,050	899	3,920	1,070	238	166	165
18	195	484	530	2,250	792	1,050	812	5,480	854	237	216	153
19	189	377	480	9,320	909	1,010	755	5,480	731	245	192	153
20	189	322	450	10,900	1,560	893	706	4,940	672	246	156	150
21	189	302	430	11,800	1,610	791	672	3,500	857	235	142	145
22	180	283	420	10,300	2,600	765	802	3,840	1,730	222	134	140
23	177	259	410	10,100	3,490	715	760	3,660	5,730	226	134	140
24	177	279	400	7,170	2,750	667	648	2,760	3,320	233	131	138
25	174	1,630	1,550	5,400	1,850	615	597	2,010	2,140	223	130	130
26	162	3,800	6,340	3,750	1,400	615	565	1,520	1,490	213	123	143
27	159	4,080	8,680	4,910	1,210	638	539	1,240	1,170	202	122	150
28	159	4,440	8,140	5,580	1,230	686	517	1,060	936	192	287	168
29	168	5,460	7,220	6,180	------	3,840	525	1,300	801	181	888	174
30	186	5,290	4,890	4,870	------	5,990	539	1,770	696	167	400	177
31	252	------	3,130	3,800	------	6,000	------	1,230	------	159	348	------
TOTAL	6,728	31,451	64,609	115,050	40,683	55,818	59,196	63,086	38,874	9,437	6,247	4,997
MEAN	217	1,048	2,084	3,711	1,453	1,801	1,973	2,035	1,296	304	202	167
MAX	469	5,460	8,680	11,800	3,490	6,000	5,290	5,480	5,730	618	888	259
MIN	140	186	400	540	725	615	517	428	652	159	122	118
CFSM	.27	1.32	2.62	4.67	1.83	2.27	2.48	2.56	1.63	.38	.25	.21
IN.	.32	1.47	3.03	5.39	1.91	2.62	2.77	2.96	1.82	.44	.29	.23

CAL YR 1973 TOTAL 390,635 MEAN 1,070 MAX 8,680 MIN 139 CFSM 1.35 IN 18.30
WTR YR 1974 TOTAL 496,176 MEAN 1,359 MAX 11,800 MIN 118 CFSM 1.71 IN 23.25

PEAK DISCHARGE (BASE, 6,300 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1400	12.91	9,060	01-29	0400	11.03	6,620
01-21	0700	15.32	12,500				

03335000 Wildcat Creek near Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 12,500 ft^3/s (354 m^3/s) Jan. 21, gage height, 15.32 ft (4.670 m); minimum daily, 118 ft^3/s (3.34 m^3/s) Sept. 11.
Period of record: Maximum discharge, 25,000 ft^3/s (708 m^3/s) June 10, 1958, gage height, 21.52 ft (6.559 m), from rating curve extended above 18,000 ft^3/s (510 m^3/s); minimum daily, 46 ft^3/s (1.30 m^3/s) Sept. 28, 29, 1954.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 742 micromhos July 6; minimum, 146 micromhos Jan. 19.
Period of record: Maximum conductance, 901 micromhos Mar. 21, 23, 1971; minimum, 146 micromhos Jan. 19, 1974.

WATER TEMPERATURE, Current year: Maximum temperature, 30.0°C July 3; minimum, freezing point on many days during December to February.
Period of record: Maximum temperature, 31.0°C July 22, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Discharge records good, Chemical records poor. Some regulation during low flow for municipal water supply for Kokomo.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	661	627	674	652	280	260	267	224	---	---	---	---
2	644	625	661	597	301	280	262	247	---	---	---	---
3	673	610	634	576	317	301	269	261	---	---	---	---
4	680	644	631	592	329	317	285	267	---	---	---	---
5	660	501	614	579	334	329	325	270	---	---	---	---
6	586	534	614	589	339	330	331	277	---	---	---	---
7	573	518	619	605	346	337	333	286	---	---	---	---
8	541	518	611	600	358	341	346	294	---	---	---	---
9	562	540	605	587	364	318	346	285	---	---	---	---
10	592	560	605	594	364	361	355	339	---	---	---	---
11	599	586	622	576	367	306	349	339	---	---	---	---
12	624	592	634	608	379	363	352	303	---	---	---	---
13	619	611	637	614	383	378	368	309	---	---	---	---
14	655	608	611	584	382	379	369	363	---	---	---	---
15	661	631	605	547	384	378	369	357	---	---	---	---
16	649	640	619	579	379	373	358	351	---	---	---	---
17	646	634	701	617	378	334	352	344	---	---	---	---
18	643	631	687	540	388	330	355	349	---	---	---	---
19	631	592	559	540	383	375	206	146	---	---	---	---
20	619	600	569	559	376	338	184	151	---	---	---	---
21	640	619	581	569	384	338	182	173	---	---	---	---
22	640	622	592	564	399	343	181	172	---	---	---	---
23	640	619	622	594	392	358	186	174	---	---	---	---
24	640	592	625	597	391	385	190	187	---	---	---	---
25	652	574	603	405	387	250	---	---	---	---	---	---
26	600	554	420	362	240	211	---	---	---	---	---	---
27	559	549	414	294	207	197	---	---	---	---	---	---
28	614	552	295	262	213	198	---	---	---	---	---	---
29	576	554	256	236	219	210	---	---	---	---	---	---
30	617	576	261	238	247	218	---	---	---	---	---	---
31	652	589	---	---	264	248	---	---	---	---	---	---
MONTH	680	501	701	236	399	197	---	---	---	---	---	---

03335000 Wildcat Creek near Lafayette, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	592	566	619	611	---	---	---	---
2	---	---	608	581	608	592	622	617	---	---	---	---
3	---	---	608	597	625	611	631	600	---	---	---	---
4	---	---	617	608	625	617	652	634	---	---	---	---
5	---	---	619	611	628	543	637	625	---	---	---	---
6	---	---	622	603	608	552	742	640	---	---	---	---
7	---	---	625	605	611	587	690	602	---	---	---	---
8	---	---	603	504	587	515	628	614	---	---	---	---
9	---	---	532	399	536	490	631	614	---	---	---	---
10	---	---	519	395	574	540	634	617	---	---	---	---
11	---	---	552	523	574	566	637	617	---	---	---	---
12	---	---	571	554	571	569	619	605	---	---	---	---
13	---	---	584	561	605	592	622	608	---	---	---	---
14	---	---	576	543	605	521	631	608	---	---	---	---
15	---	---	549	437	538	290	628	608	---	---	---	---
16	---	---	492	408	461	374	625	608	---	---	---	---
17	---	---	515	375	543	464	619	605	---	---	---	---
18	---	---	392	351	584	543	---	602	---	---	---	---
19	---	---	423	379	592	587	---	---	---	---	---	---
20	---	---	449	374	605	587	---	---	---	---	---	---
21	---	---	473	402	614	543	---	---	---	---	---	---
22	---	---	527	349	561	299	---	---	---	---	---	---
23	---	---	468	383	304	246	---	---	---	---	---	---
24	---	---	504	219	459	314	---	---	---	---	---	---
25	---	---	540	506	502	463	---	---	---	---	---	---
26	---	---	564	540	536	502	---	---	---	---	---	---
27	---	---	574	561	561	538	---	---	---	---	---	---
28	---	---	587	571	581	561	---	---	---	---	---	---
29	---	---	587	389	600	581	---	---	---	---	---	---
30	---	---	519	407	614	600	---	---	---	---	---	---
31	---	---	566	523	---	---	---	---	---	---	---	---
MONTH	---	---	625	219	628	246	---	---	---	---	---	---

03335000 Wildcat Creek near Lafayette, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	19.5	9.0	8.0	7.5	6.5	0.5	-0.5	---	---	---	---
2	20.5	19.0	9.5	8.5	7.5	6.0	0.0	0.0	---	---	---	---
3	19.5	18.0	9.0	8.0	8.5	7.0	0.0	-0.5	---	---	---	---
4	20.0	19.0	8.0	7.0	10.0	8.5	0.0	-0.5	---	---	---	---
5	18.5	17.0	8.0	6.5	10.0	7.0	0.0	0.0	---	---	---	---
6	17.0	15.5	6.5	4.5	7.0	5.0	0.5	0.0	---	---	---	---
7	18.0	16.0	6.5	5.0	5.0	4.5	0.0	0.0	---	---	---	---
8	19.5	17.5	7.0	6.0	5.5	4.5	0.0	-0.5	---	---	---	---
9	20.0	18.0	6.0	3.5	4.5	4.0	0.0	0.0	---	---	---	---
10	20.5	18.5	4.0	2.0	4.0	2.0	0.5	0.0	---	---	---	---
11	20.5	18.5	5.0	3.0	1.5	0.5	0.5	0.0	---	---	---	---
12	19.0	18.0	7.0	5.0	2.5	1.0	0.0	0.0	---	---	---	---
13	18.0	17.0	9.5	6.5	4.0	2.5	0.0	0.0	---	---	---	---
14	17.5	15.5	11.5	9.0	3.5	3.0	0.0	0.0	---	---	---	---
15	18.0	15.5	13.5	11.5	3.0	2.5	1.0	-0.5	---	---	---	---
16	16.5	13.5	11.5	8.0	2.5	1.0	2.0	0.5	---	---	---	---
17	13.0	11.5	8.0	7.0	1.0	0.0	2.0	1.0	---	---	---	---
18	13.5	11.5	9.0	8.0	0.5	0.0	3.5	2.0	---	---	---	---
19	13.5	10.5	8.5	8.0	0.0	0.0	3.0	1.5	---	---	---	---
20	14.0	12.0	9.5	7.5	0.0	0.0	---	---	---	---	---	---
21	13.0	11.0	10.5	9.0	0.0	0.0	---	---	---	---	---	---
22	13.0	10.5	10.0	8.0	0.0	0.0	---	---	---	---	---	---
23	13.0	10.5	10.5	9.0	0.5	-0.5	---	---	---	---	---	---
24	14.0	11.0	12.0	9.5	1.0	0.0	---	---	---	---	---	---
25	15.0	13.0	12.0	10.0	1.5	0.5	---	---	---	---	---	---
26	14.0	12.0	10.0	9.5	2.5	1.0	---	---	---	---	---	---
27	12.5	11.5	11.0	10.0	2.5	1.5	---	---	---	---	---	---
28	11.5	10.0	11.0	9.5	2.0	1.5	---	---	---	---	---	---
29	10.0	9.0	9.5	7.5	2.5	2.0	---	---	---	---	---	---
30	10.0	9.5	8.0	7.0	2.0	1.0	---	---	---	---	---	---
31	9.5	9.0	---	---	1.0	0.0	---	---	---	---	---	---
MONTH	20.5	9.0	13.5	2.0	10.0	0.0	---	---	---	---	---	---

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

03335000 Wildcat Creek near Lafayette, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
12...	1010	18.5	215	33	19	--	--
NOV.							
19...	1200	8.0	380	27	28	--	--
JAN.							
24...	1245	3.5	7370	249	4950	42	45
APR.							
02...	1650	12.0	4070	281	3090	53	60
MAY							
08...	1210	13.0	543	51	75	--	--
JULY							
18...	0940	22.0	240	26	17	--	--
AUG.							
30...	1000	19.0	406	54	59	--	--
SEP.							
25...	1100	14.0	131	35	12	--	--

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.							
12...	--	--	--	--	--	--	--
NOV.							
19...	--	--	--	--	--	--	--
JAN.							
24...	49	56	62	67	68	75	100
APR.							
02...	67	73	79	82	83	86	100
MAY							
08...	--	--	--	--	--	--	--
JULY							
18...	--	--	--	--	--	--	--
AUG.							
30...	--	--	--	--	--	--	--
SEP.							
25...	--	--	--	--	--	--	--

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^2 (18,822 km^2).

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 U.S. Weather Bureau.
WATER TEMPERATURE: July 1954 to September 1964, August 1967 to current year.
SEDIMENT DISCHARGE: February 1965 to June 1968 (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.--51 years (1923 to current year), 6,396 ft^3/s (181.1 m^3/s), 11.79 in/yr (299 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	2,420	2,880	16,800	18,600	23,400	17,900	19,600	5,540	9,320	4,080	1,350	1,770
2	2,490	3,060	14,900	16,000	22,200	16,300	17,300	5,220	6,360	3,840	1,500	2,050
3	2,810	3,110	14,000	13,800	21,500	15,200	17,300	4,990	5,570	3,510	1,490	2,350
4	2,870	2,960	14,400	16,600	19,900	15,100	21,100	4,650	5,050	3,830	1,380	2,000
5	2,890	2,910	14,300	17,200	19,500	22,800	25,700	4,360	5,020	3,930	1,370	1,860
6	3,010	2,760	14,200	14,600	19,700	30,500	24,900	4,070	5,590	3,930	1,370	1,950
7	2,850	2,690	12,100	11,800	19,100	26,600	20,000	3,980	5,100	3,210	1,300	1,670
8	2,960	2,700	9,160	13,000	18,700	21,200	20,900	4,360	5,940	2,940	1,360	1,680
9	2,890	2,580	8,180	14,100	18,900	18,300	19,100	7,160	7,090	2,740	1,420	1,620
10	2,840	2,570	6,040	14,000	18,200	19,600	16,800	10,200	6,400	2,660	1,470	1,570
11	2,640	2,490	4,630	12,500	16,400	19,800	16,100	9,400	5,710	2,660	1,470	1,490
12	2,620	2,360	3,930	9,990	16,900	16,500	14,900	8,920	5,680	2,500	1,360	1,720
13	2,730	2,370	4,080	7,100	19,400	13,600	15,500	9,060	5,410	2,470	1,390	2,410
14	3,100	2,360	4,210	6,430	19,900	11,800	15,300	10,100	5,080	2,430	1,450	3,020
15	2,860	2,580	4,180	5,600	19,700	12,200	15,700	12,700	7,750	2,310	1,290	2,670
16	2,770	2,730	4,160	5,640	18,700	13,200	18,400	17,200	6,790	1,850	1,290	2,660
17	2,620	2,790	4,010	5,980	18,100	14,600	14,700	18,000	4,980	1,900	1,440	2,870
18	2,550	2,940	3,640	7,800	13,700	13,500	13,000	29,600	4,560	1,800	1,470	3,130
19	2,510	3,050	3,490	19,000	9,440	12,000	12,300	32,400	4,560	1,900	1,440	3,170
20	2,160	2,940	3,330	31,100	13,000	10,900	11,400	27,200	4,230	1,710	1,430	2,140
21	2,250	3,030	2,440	45,500	17,500	9,200	10,200	20,400	4,090	1,740	1,500	1,860
22	2,240	3,010	3,160	52,500	22,000	8,550	8,300	20,200	5,480	1,650	1,500	1,580
23	2,270	3,100	3,800	48,800	30,000	8,840	6,280	22,000	14,200	1,840	1,450	1,920
24	2,230	3,160	4,140	42,400	26,600	8,740	5,690	20,700	13,000	1,820	1,290	1,970
25	2,220	4,550	6,320	36,100	19,500	8,240	5,170	16,900	10,200	1,770	1,190	1,790
26	2,170	8,820	20,100	31,500	14,800	8,450	4,820	14,000	10,000	1,460	1,180	1,530
27	2,180	10,600	32,400	31,200	14,500	9,440	4,580	13,500	7,820	1,660	1,160	1,340
28	2,370	11,000	38,400	34,500	17,400	9,350	4,480	12,800	5,600	1,530	1,420	1,470
29	2,260	16,700	36,100	32,400	------	12,900	4,470	13,900	5,040	1,540	2,110	1,620
30	2,480	18,500	29,500	30,400	------	17,800	5,530	17,100	4,470	1,500	1,790	1,510
31	2,490	------	23,000	26,600	------	20,400	------	14,700	------	1,310	1,830	------
TOTAL	79,750	137,300	363,100	672,740	528,640	463,510	409,520	415,310	196,090	74,020	44,460	60,390
MEAN	2,573	4,577	11,710	21,700	18,880	14,950	13,650	13,400	6,536	2,388	1,434	2,013
MAX	3,100	18,500	38,400	52,500	30,000	30,500	25,700	32,400	14,200	4,080	2,110	3,170
MIN	2,160	2,360	2,440	5,600	9,440	8,240	4,470	3,980	4,090	1,310	1,160	1,340
CFSM	.35	.63	1.61	2.99	2.60	2.06	1.88	1.84	.90	.33	.20	.28
IN.	.41	.70	1.86	3.44	2.71	2.37	2.10	2.13	1.00	.38	.23	.31

CAL YR 1973 TOTAL 3,164,880 MEAN 8,671 MAX 39,500 MIN 1,640 CFSM 1.19 IN 16.20
WTR YR 1974 TOTAL 3,444,830 MEAN 9,438 MAX 52,500 MIN 1,160 CFSM 1.30 IN 17.63

03335500 Wabash River at Lafayette, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 53,400 ft^3/s (1,510 m^3/s) Jan. 22, gage height, 20.70 ft (6.309 m); minimum daily, 1,160 ft^3/s (32.9 m^3/s) Aug. 27.

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

Flood of Mar. 26, 1913, reached a stage of 32.9 ft (10.03 m), from floodmark determined by U.S. Weather Bureau, discharge, 190,000 ft^3/s (5,380 m^3/s).

WATER TEMPERATURES, Current year: Maximum temperature, 28.0°C Aug. 19-20; 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. Natural flow of stream affected by storage reservoirs and power development.

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

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	21.5	11.5	10.5	7.5	7.0	---	---	3.0	2.5	5.0	4.0
2	22.0	21.0	12.0	11.0	7.0	6.5	---	---	2.5	2.0	6.0	4.5
3	21.0	20.0	11.5	11.0	8.0	7.0	---	---	2.0	2.0	9.0	6.0
4	21.5	20.5	11.5	10.5	9.5	8.0	---	---	2.0	1.0	9.5	9.0
5	21.0	19.5	11.0	10.0	9.5	8.0	---	---	1.0	0.5	10.0	9.5
6	20.0	19.0	10.0	9.0	8.0	6.5	---	---	1.5	0.5	10.0	9.5
7	20.0	19.0	9.0	8.5	6.5	6.0	---	---	1.0	0.0	11.0	10.0
8	22.5	20.0	9.0	8.5	6.5	6.0	---	---	0.5	0.0	12.0	11.0
9	22.5	21.5	8.5	7.0	6.0	5.5	---	---	0.0	0.0	12.0	11.5
10	23.5	22.0	7.0	6.0	5.5	3.5	---	---	0.0	0.0	12.0	11.0
11	23.0	22.0	6.5	5.5	3.5	2.0	---	---	0.0	0.0	11.0	10.0
12	23.0	21.5	8.0	6.5	2.5	1.5	---	---	0.0	0.0	10.0	9.5
13	21.5	20.5	10.0	8.0	3.5	2.5	---	---	0.5	0.0	9.5	8.0
14	20.5	19.0	12.0	10.0	3.5	3.0	---	---	1.5	0.0	9.0	8.0
15	19.0	18.5	13.5	12.0	3.0	2.0	---	---	1.5	1.0	8.5	8.0
16	19.0	17.0	13.0	10.5	2.0	1.5	---	---	2.0	1.5	8.0	7.5
17	17.0	15.0	10.5	9.0	1.5	0.5	---	---	2.5	2.0	7.5	7.0
18	15.5	14.0	9.5	9.0	0.5	0.5	---	---	2.5	1.5	7.5	6.5
19	16.0	14.5	10.0	9.5	0.5	0.5	---	---	2.0	1.5	8.0	7.5
20	16.0	15.0	10.0	9.5	---	---	---	---	2.5	2.0	8.0	7.0
21	16.0	15.0	11.0	10.0	---	---	---	---	2.5	1.5	8.0	7.5
22	16.0	14.5	10.5	10.0	---	---	---	---	3.0	2.5	8.0	7.0
23	16.0	14.5	10.5	10.0	---	---	3.0	2.5	3.5	3.0	8.0	7.5
24	16.0	15.0	11.5	10.5	---	---	2.5	2.0	3.0	2.0	7.5	7.0
25	17.0	15.5	11.5	10.5	---	---	2.5	2.0	2.5	2.0	7.0	6.0
26	17.0	15.5	10.5	10.0	---	---	2.5	2.0	2.5	2.0	6.0	5.5
27	16.0	14.5	10.0	10.0	---	---	3.0	2.5	3.0	2.0	7.5	6.0
28	14.5	13.0	10.5	9.5	---	---	3.5	3.0	4.5	3.0	8.5	7.5
29	13.0	12.0	9.5	8.0	---	---	3.0	2.5	---	---	8.5	8.0
30	12.0	11.5	8.0	7.0	---	---	2.5	2.0	---	---	8.5	8.0
31	12.0	11.5	---	---	---	---	3.0	2.5	---	---	8.0	6.5
MONTH	23.5	11.5	13.5	5.5	---	---	---	---	4.5	0.0	12.0	4.0

03335500 Wabash River at Lafayette, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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^2 (102.0 km^2).

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, 1,650 ft^3/s (46.7 m^3/s) June 15, gage height, 9.72 ft (2.963 m); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Sept. 6.
Period of record: Maximum discharge, 1,650 ft^3/s (46.7 m^3/s) June 15, 1974, gage height, 9.72 ft (2.963 m); minimum daily, 0.25 ft^3/s (0.007 m^3/s) Sept. 24, 1971.

REMARKS.--Records good.

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	1.0	6.0	29	85	96	58	142	25	80	28	2.9	.63
2	3.5	3.0	26	70	84	57	137	23	67	26	4.4	.55
3	1.9	2.2	23	61	71	56	187	25	59	24	4.2	.69
4	19	1.9	50	52	67	99	243	23	53	23	2.8	.69
5	8.4	1.9	63	45	58	112	157	20	50	21	2.5	.47
6	4.5	1.7	42	40	55	85	126	19	47	20	2.1	.39
7	3.5	1.9	33	37	47	73	110	17	44	19	1.8	.44
8	2.7	2.2	29	34	44	65	149	60	42	21	1.6	.46
9	2.4	1.9	26	43	41	86	111	48	41	18	1.5	.52
10	2.2	1.3	24	39	39	86	94	39	40	15	2.0	.51
11	1.9	1.3	22	29	36	73	84	38	39	13	5.8	.69
12	1.9	1.5	21	27	43	67	83	41	38	12	2.4	9.8
13	8.0	1.5	25	25	58	59	91	35	40	11	1.6	199
14	9.5	1.7	22	25	56	55	80	35	72	9.8	1.4	50
15	5.7	2.7	20	26	44	64	65	49	713	9.0	1.3	25
16	4.2	2.2	17	27	43	85	56	43	185	8.8	1.2	15
17	3.5	1.2	16	28	41	69	50	59	121	8.0	3.5	11
18	3.0	1.5	14	37	42	64	45	86	94	8.6	1.7	8.4
19	2.4	1.5	16	98	87	57	41	180	81	16	1.2	6.8
20	2.4	1.3	18	399	89	50	39	178	71	11	.87	4.8
21	2.2	4.2	14	703	95	48	38	120	164	8.4	.78	3.8
22	1.9	3.0	12	356	297	45	50	243	218	8.6	.69	3.1
23	1.9	1.9	20	305	158	42	40	296	175	8.5	2.2	2.5
24	1.9	7.3	37	193	106	40	33	174	114	6.9	1.0	2.3
25	1.9	33	200	160	78	38	30	121	75	6.2	.67	2.2
26	1.7	30	229	149	64	38	29	97	58	5.7	.54	2.1
27	2.2	24	291	181	61	40	28	82	48	5.2	.63	2.5
28	3.3	57	214	143	63	53	27	73	41	5.5	1.6	3.4
29	2.4	56	167	140	------	140	28	170	36	4.4	1.5	3.6
30	2.2	39	132	142	------	223	30	142	32	3.6	1.0	2.5
31	3.0	------	105	119	------	190	------	114	------	3.2	.78	------
TOTAL	116.2	295.8	1,957	3,818	2,063	2,317	2,423	2,675	2,938	388.4	58.16	363.84
MEAN	3.75	9.86	63.1	123	73.7	74.7	80.8	86.3	97.9	12.5	1.88	12.1
MAX	19	57	291	703	297	223	243	296	713	28	5.8	199
MIN	1.0	1.2	12	25	36	38	27	17	32	3.2	.54	.39
CFSM	.10	.25	1.60	3.12	1.87	1.90	2.05	2.19	2.48	.32	.05	.31
IN.	.11	.28	1.85	3.60	1.95	2.19	2.29	2.53	2.77	.37	.05	.34

CAL YR 1973 TOTAL 15,712.25 MEAN 43.0 MAX 527 MIN .79 CFSM 1.09 IN 14.83
WTR YR 1974 TOTAL 19,413.40 MEAN 53.2 MAX 713 MIN .39 CFSM 1.35 IN 18.33

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0100	6.12	325	04-03	2200	6.97	515	06-15	0600	9.72	1,650
01-21	0200	9.00	1,280	05-19	1700	6.20	347	06-22	1800	6.02	314
02-22	0900	6.19	345	05-22	2200	7.90	807	09-13	0400	6.62	431
03-30	2200	5.68	256	05-29	1600	6.42	390				

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 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.--323 mi^2 (837 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: October 1955 to current year.
CHEMICAL ANALYSES: July 1970 to current year.
WATER TEMPERATURE: November 1970 to current year.

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

AVERAGE DISCHARGE.--19 years, 258 ft^3/s (7.307 m^3/s), 10.85 in/yr (276 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	28	32	185	560	737	390	1,380	227	455	251	57	38
2	34	34	150	480	611	370	1,400	217	374	227	79	34
3	34	32	139	420	503	390	1,360	224	329	207	66	32
4	46	30	179	360	408	800	2,250	204	298	191	50	32
5	74	26	345	320	369	890	1,650	191	279	182	41	30
6	52	25	276	280	361	700	1,160	191	283	170	38	29
7	40	25	201	250	317	600	908	182	268	164	33	28
8	35	25	170	230	298	535	1,490	317	258	160	28	28
9	34	25	155	210	268	591	1,100	408	244	200	26	27
10	31	23	147	250	247	742	823	313	244	164	49	27
11	26	25	139	200	230	601	665	261	224	145	96	26
12	27	25	136	180	247	544	645	261	217	130	64	43
13	34	26	128	170	325	464	1,490	237	198	115	47	377
14	38	26	131	170	349	412	868	230	214	110	29	220
15	45	35	118	175	309	434	620	361	2,820	100	26	119
16	37	46	110	180	279	611	503	337	2,420	94	24	84
17	31	41	103	200	265	544	438	333	1,530	86	62	65
18	28	35	95	290	258	481	399	455	960	82	49	54
19	27	32	100	753	464	443	369	1,060	587	101	39	48
20	25	30	110	2,270	716	378	341	1,340	434	125	30	42
21	25	37	100	4,560	591	357	333	954	1,130	115	24	38
22	25	40	84	3,570	1,560	325	365	996	1,570	100	23	34
23	25	43	120	2,920	1,490	309	313	2,770	1,700	90	122	31
24	25	45	350	2,070	984	276	279	2,000	1,380	85	65	30
25	23	108	1,400	1,450	582	265	265	1,280	834	80	42	30
26	23	207	1,700	1,150	447	265	261	807	535	75	36	29
27	25	170	1,950	1,200	391	276	251	587	426	66	33	30
28	27	173	1,400	1,210	391	287	244	477	357	76	61	38
29	27	337	1,050	1,130	------	1,800	244	727	313	70	83	47
30	27	254	840	1,100	------	2,120	244	885	283	64	54	42
31	30	------	680	954	------	1,860	------	640	------	60	44	------
TOTAL	1,008	2,012	12,791	29,262	13,997	19,060	22,658	19,472	21,164	3,885	1,520	1,732
MEAN	32.5	67.1	413	944	500	615	755	628	705	125	49.0	57.7
MAX	74	337	1,950	4,560	1,560	2,120	2,250	2,770	2,820	251	122	377
MIN	23	23	84	170	230	265	244	182	198	60	23	26
CFSM	.10	.21	1.28	2.92	1.55	1.90	2.34	1.94	2.18	.39	.15	.18
IN.	.12	.23	1.47	3.37	1.61	2.20	2.61	2.24	2.44	.45	.18	.20

CAL YR 1973 TOTAL 122,145 MEAN 335 MAX 2,780 MIN 23 CFSM 1.04 IN 14.07
WTR YR 1974 TOTAL 148,561 MEAN 407 MAX 4,560 MIN 23 CFSM 1.26 IN 17.11

PEAK DISCHARGE (BASE, 2,800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	1700	10.98	5,180	05-23	0200	9.44	3,650
04-03	2400	9.14	3,370	06-15	2000	9.61	3,810
04-13	0400	9.06	3,300	06-22	2200	8.95	3,210

NOTE.--No gage-height record July 8 to Aug. 23.

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

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 5,180 ft^3/s (147 m^3/s) Jan. 21, gage height, 10.98 ft (3.347 m); minimum daily, 23 ft^3/s (0.65 m^3/s) Oct. 25, 26, Nov. 10, Aug. 22.
Period of record: Maximum discharge, 12,600 ft^3/s (357 m^3/s) Feb. 10, 1959, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of contracted-opening measurement, gage height, 16.00 ft (4.877 m), from floodmark; minimum daily, 6.5 ft^3/s (0.18 m^3/s) Oct. 6-8, 1966.

SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 767 micromhos Nov. 19; minimum, 235 micromhos June 21.
Period of record (1971-74): Maximum conductance, 812 micromhos Jan. 17, 1972; minimum, 185 micromhos Sepx. 8, 1972.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C July 11; minimum, freezing point on several days during December to March.
Period of record: Maximum temperature, 30.5°C Aug. 18, 1972, July 9, Aug. 27, 1973; 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 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
11...	1445	20.0	29	5	570	8.1	3.7	241	294	0
NOV.										
14...	1045	11.5	33	10	750	8.0	5.4	276	336	0
JAN.										
10...	1530	34.0	--	0	660	8.2	3.0	246	300	0
FEB.										
09...	1600	2.0	268	3	637	8.1	3.4	221	270	0
MAR.										
15...	1215	7.0	409	5	621	8.2	2.6	211	257	0
APR.										
15...	1030	9.0	632	60	550	8.0	3.7	189	231	0
MAY										
14...	1200	14.5	236	3	610	7.8	6.7	217	264	--
JUNE										
21...	1615	21.0	1400	300	330	7.6	5.5	112	136	--
JULY										
26...	1645	26.0	76	4	560	8.1	3.4	218	266	--
SEP.										
04...	1100	15.0	33	0	600	8.0	4.6	238	290	0

DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.										
11...	--	.20	--	--	--	--	320	78	70	35
NOV.										
14...	--	.20	--	--	.02	--	360	84	93	31
JAN.										
10...	.00	7.9	7.9	--	.03	--	370	120	86	37
FEB.										
09...	.01	7.8	7.8	--	.02	--	350	120	89	30
MAR.										
15...	.01	7.9	7.9	--	.02	--	330	120	81	30
APR.										
15...	.01	7.9	7.9	.09	.15	.03	270	79	68	24
MAY										
14...	.03	7.3	7.3	.00	.01	.00	310	96	74	31
JUNE										
21...	.04	5.6	5.6	.21	.18	.07	170	58	43	15
JULY										
26...	.02	2.8	2.8	.03	.01	.01	330	110	76	33
SEP.										
04...	.00	.66	.66	.03	.02	.01	320	84	71	35

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.										
11...	11	.3	7	3.9	16	68	.4	6.9	1100	40
NOV.										
14...	13	.3	7	2.6	20	80	.3	2.6	100	40
JAN.										
10...	7.1	.2	4	2.0	19	67	.0	8.7	120	50
FEB.										
09...	6.5	.2	4	1.1	20	56	.2	8.8	350	80
MAR.										
15...	5.8	.1	4	1.0	18	59	.2	5.4	900	20
APR.										
15...	7.9	.2	6	1.2	15	54	.3	8.1	3200	10
MAY										
14...	6.3	.2	4	1.0	18	58	.2	2.5	310	20
JUNE										
21...	2.2	.1	3	2.6	9.0	27	.4	7.0	28000	20
JULY										
26...	8.2	.2	5	2.6	15	69	1.6	4.2	190	10
SEP.										
04...	10	.2	6	2.0	15	66	.2	6.8	420	30

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)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
11...	--	54	27	356	352	27.9	.48	.70	--	--
NOV.										
14...	--	63	38	396	409	35.3	.54	1.0	--	.05
JAN.										
10...	0	17	17	464	410	--	.63	35	.00	--
FEB.										
09...	80	100	20	381	379	276	.52	34	.03	--
MAR.										
15...	0	10	25	418	362	462	.57	35	.03	--
APR.										
15...	63	80	17	335	327	572	.46	35	.03	--
MAY										
14...	20	40	20	436	354	278	.59	32	.10	--
JUNE										
21...	820	830	14	248	198	937	.34	25	.13	--
JULY										
26...	26	39	13	426	353	87.4	.58	12	.07	--
SEP.										
04...	10	30	20	378	352	33.7	.51	2.9	.00	--

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	691	605	704	689	691	683	652	575	527	513	579	574
2	683	525	711	692	695	689	662	648	535	525	582	575
3	665	652	717	706	696	691	658	652	538	531	580	372
4	653	641	720	705	692	630	672	653	539	531	482	301
5	636	614	728	705	646	626	661	641	537	532	426	271
6	631	612	726	700	655	627	666	650	532	519	474	441
7	624	611	725	700	667	657	677	652	525	515	539	479
8	606	599	728	710	674	666	700	676	533	518	586	543
9	597	560	740	728	672	667	690	644	534	529	579	512
10	583	571	747	727	671	668	---	---	542	529	564	534
11	575	560	759	730	675	664	---	---	553	538	593	569
12	604	578	762	729	676	671	---	---	557	525	599	580
13	611	578	760	732	667	657	---	---	528	503	623	589
14	614	599	763	630	655	647	---	---	532	513	631	578
15	628	598	754	732	646	641	---	---	522	499	616	571
16	649	623	753	740	650	642	727	645	541	528	591	555
17	648	637	739	724	664	649	643	633	546	544	610	589
18	651	636	766	735	668	663	631	438	550	544	611	598
19	654	639	767	733	661	651	552	446	548	470	622	604
20	657	639	735	723	655	650	549	303	502	481	625	612
21	660	638	724	704	651	641	308	294	525	474	618	608
22	663	641	720	711	655	642	361	295	464	384	622	609
23	666	644	722	715	654	646	385	359	444	393	617	602
24	669	647	714	692	644	626	443	382	511	451	616	603
25	668	642	707	636	620	402	485	440	546	514	622	609
26	671	645	695	653	537	396	496	482	565	552	612	599
27	674	652	688	644	488	422	492	476	576	568	603	579
28	681	659	690	669	506	480	483	469	579	576	601	500
29	684	677	688	654	554	506	506	472	---	---	461	285
30	698	683	684	661	587	554	505	491	---	---	381	325
31	701	675	---	---	619	586	517	503	---	---	452	384
MONTH	701	525	767	630	696	396	727	294	579	384	631	271

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	481	436	572	541	586	552	592	474	611	535	---	---
2	476	393	571	529	583	443	628	529	---	---	---	---
3	483	270	574	536	513	425	593	535	557	551	---	---
4	365	264	581	547	536	438	595	558	558	541	---	---
5	445	371	578	542	532	455	589	508	553	538	---	---
6	503	448	578	553	573	443	642	560	571	533	---	---
7	511	417	583	548	574	450	572	552	591	529	---	---
8	443	354	555	484	541	446	600	537	545	532	---	---
9	495	445	545	508	579	461	630	534	540	527	---	---
10	523	493	581	548	576	439	572	551	547	522	---	---
11	532	504	599	563	564	412	683	547	620	535	---	---
12	524	474	604	574	564	411	675	559	561	536	---	---
13	467	283	611	575	---	---	594	548	566	547	---	---
14	478	392	618	526	---	---	590	538	---	---	---	---
15	516	476	569	504	---	---	631	542	---	---	---	---
16	532	500	575	547	---	---	641	592	---	---	---	---
17	539	513	581	548	---	---	672	550	---	---	---	---
18	539	518	562	542	---	---	560	539	---	---	---	---
19	542	511	555	461	469	400	564	549	---	---	---	---
20	552	522	563	447	490	417	566	480	---	---	---	---
21	550	491	608	550	492	235	557	532	---	---	---	---
22	536	480	606	564	432	237	629	547	---	---	---	---
23	552	535	---	---	353	253	---	---	---	---	---	---
24	561	542	---	---	457	360	---	---	---	---	---	---
25	562	543	---	---	501	410	---	---	---	---	---	---
26	562	545	---	---	503	395	561	548	---	---	---	---
27	563	538	---	---	465	307	562	549	---	---	---	---
28	557	536	---	---	528	400	558	541	---	---	---	---
29	565	516	---	---	544	467	659	551	---	---	---	---
30	551	519	---	---	553	513	596	541	---	---	---	---
31	---	---	565	464	---	---	580	538	---	---	---	---
MONTH	565	264	---	---	586	235	683	474	---	---	---	---

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

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	8.5	7.0	1.5	1.0	6.0	5.0	7.5	6.0
2	---	---	---	---	8.5	6.5	1.0	-0.5	5.5	5.0	12.0	7.5
3	---	---	---	---	10.0	8.5	1.0	0.0	5.0	3.5	15.5	12.0
4	---	---	---	---	12.5	10.0	1.0	-0.5	3.0	1.0	15.0	11.5
5	---	---	---	---	11.5	7.5	1.0	0.0	3.5	1.0	11.5	9.0
6	---	---	---	---	7.5	4.5	1.0	1.0	3.0	1.5	10.0	8.0
7	---	---	---	---	5.5	3.5	1.0	1.0	2.5	1.0	13.0	10.0
8	---	---	---	---	6.0	4.5	1.0	1.0	2.0	1.0	14.5	12.0
9	---	---	---	---	4.5	3.5	1.0	1.0	2.5	1.0	14.5	13.5
10	---	---	---	---	3.5	1.5	1.0	1.0	2.0	1.0	13.5	9.0
11	---	---	---	---	2.0	1.5	1.0	1.0	1.5	1.0	9.0	7.0
12	---	---	---	---	2.5	1.0	1.0	-0.5	4.5	1.0	8.0	6.5
13	---	---	---	---	3.5	2.5	1.0	-0.5	6.5	3.0	7.5	5.0
14	---	---	14.5	12.0	4.0	3.0	1.0	1.0	6.0	5.0	8.0	5.0
15	---	---	16.5	13.5	3.5	2.5	1.0	1.0	5.0	2.5	7.5	6.5
16	---	---	13.0	9.5	2.5	0.0	1.0	1.0	5.5	2.5	6.5	5.5
17	---	---	10.0	8.0	1.5	0.0	1.0	1.0	6.0	3.0	5.0	4.5
18	---	---	11.5	9.0	1.5	1.5	2.5	1.0	6.5	5.0	7.5	4.5
19	---	---	10.5	9.0	1.5	0.5	5.0	2.5	6.5	5.0	7.5	6.5
20	---	---	11.5	9.0	1.5	-0.5	7.0	5.0	5.5	3.0	7.0	5.0
21	---	---	12.5	11.0	1.5	1.5	6.5	3.5	6.0	5.0	7.0	5.5
22	---	---	11.5	9.0	1.5	1.5	5.5	3.5	6.0	4.0	7.5	4.5
23	---	---	11.5	10.5	1.5	1.0	5.5	4.5	3.5	2.0	7.0	2.5
24	---	---	13.5	11.0	1.5	1.0	4.5	3.0	3.0	2.0	4.0	0.5
25	---	---	13.5	11.0	2.0	1.5	5.0	3.5	3.0	0.5	4.5	0.0
26	---	---	11.0	10.0	4.0	1.5	6.5	4.5	4.0	1.0	7.5	2.5
27	---	---	12.5	11.5	5.0	3.5	6.5	6.0	6.0	2.0	10.5	6.0
28	---	---	12.5	10.0	4.5	3.0	6.0	4.5	9.0	5.5	10.0	8.5
29	---	---	10.0	8.0	5.0	3.5	5.5	4.5	---	---	9.5	8.5
30	---	---	9.0	7.5	3.5	2.0	6.5	5.0	---	---	9.5	6.0
31	---	---	---	---	2.5	1.5	7.0	6.0	---	---	9.0	5.0
MONTH	---	---	---	---	12.5	0.0	7.0	0.0	9.0	0.5	15.5	0.0

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

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^2 (21,285 km^2).

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 U.S. Weather Bureau.

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

AVERAGE DISCHARGE.--35 years, 7,272 ft^3/s (205.9 m^3/s), 12.02 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 55,300 ft^3/s (1,570 m^3/s) Jan. 23, gage height, 25.04 ft (7.632 m); minimum daily, 1,640 ft^3/s (46.4 m^3/s) Aug. 27.

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

Flood in March 1913 reached a stage of 35.1 ft (10.70 m), from floodmark determined by U.S. Weather Bureau, discharge, 200,000 ft^3/s (5,660 m^3/s).

REMARKS.--Records good. Natural flow of stream affected by reservoirs.

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

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	2,790	2,910	18,400	28,700	29,400	17,400	21,600	6,390	14,600	5,420	1,790	2,220
2	2,780	3,210	17,200	22,500	25,800	17,400	21,200	6,230	9,280	5,010	1,780	2,140
3	2,840	3,420	15,300	16,600	23,100	16,100	19,700	5,920	7,480	4,720	1,860	2,420
4	3,170	3,390	15,300	17,000	21,500	15,800	21,200	5,660	6,770	4,480	1,790	2,640
5	3,240	3,240	16,000	18,600	20,100	19,000	23,200	5,260	6,110	4,680	1,790	2,370
6	3,260	3,170	15,900	18,600	19,500	22,800	25,400	5,000	6,410	4,650	1,770	2,280
7	3,300	3,050	15,200	14,900	19,300	27,500	25,100	4,800	6,630	4,420	1,730	2,300
8	3,190	3,000	12,100	13,800	18,600	27,200	23,000	4,850	6,470	3,940	1,690	2,110
9	3,210	2,970	10,000	14,500	18,200	22,300	22,400	6,110	7,600	3,660	1,710	2,080
10	3,190	2,910	8,620	15,800	18,100	20,100	20,600	8,840	7,770	3,500	1,790	2,000
11	3,050	2,890	6,650	15,100	17,100	20,000	18,400	10,400	7,050	3,420	2,000	2,000
12	2,960	2,860	5,320	13,100	16,000	19,700	17,300	9,630	6,600	3,320	1,890	2,070
13	2,990	2,730	4,930	10,200	17,200	17,300	17,300	9,400	6,420	3,150	1,770	2,590
14	3,120	2,710	4,970	7,950	18,400	14,500	17,600	9,780	6,850	3,080	1,850	3,440
15	3,310	2,750	4,990	7,610	18,800	13,100	16,600	11,500	10,700	3,030	1,850	3,380
16	3,120	2,910	4,930	6,800	18,500	13,700	16,900	14,700	13,000	2,860	1,690	3,030
17	3,030	3,050	4,810	7,030	17,800	14,700	17,300	16,800	9,060	2,530	1,760	3,050
18	2,910	3,120	4,620	8,260	17,100	15,000	14,800	19,400	7,050	2,450	1,850	3,260
19	2,910	3,240	4,410	17,600	12,600	13,800	13,500	26,600	6,240	2,530	1,850	3,490
20	2,780	3,310	4,010	25,900	11,800	12,500	12,700	32,700	5,760	2,550	1,810	3,210
21	2,530	3,340	3,530	34,800	15,200	11,100	11,900	31,300	6,170	2,300	1,810	2,530
22	2,560	3,340	3,100	46,000	19,000	9,870	11,000	26,800	9,320	2,280	1,840	2,280
23	2,550	3,390	2,900	54,900	22,700	9,280	8,930	26,500	19,400	2,170	1,950	2,090
24	2,590	3,530	4,800	53,000	27,700	9,490	7,230	27,100	20,900	2,380	1,880	2,400
25	2,560	4,090	6,940	47,300	27,500	9,180	6,570	24,600	18,400	2,370	1,710	2,420
26	2,530	6,860	16,200	40,900	21,400	8,740	6,140	19,700	15,500	2,280	1,660	2,270
27	2,460	10,500	26,300	35,700	15,900	9,390	5,700	16,500	12,500	2,030	1,640	2,040
28	2,530	11,900	32,100	33,700	16,200	10,000	5,490	14,800	8,640	2,330	1,740	1,900
29	2,660	14,000	36,200	35,300	------	12,500	5,400	14,100	6,740	1,980	1,990	2,070
30	2,650	18,400	37,400	34,500	------	18,100	5,540	16,900	6,010	1,940	2,490	2,060
31	2,820	------	34,300	32,700	------	20,900	------	17,500	------	1,920	2,190	------
TOTAL	89,590	140,190	397,430	749,350	544,500	488,450	459,700	455,770	281,430	97,380	56,920	74,140
MEAN	2,890	4,673	12,820	24,170	19,450	15,760	15,320	14,700	9,381	3,141	1,836	2,471
MAX	3,310	18,400	37,400	54,900	29,400	27,500	25,400	32,700	20,900	5,420	2,490	3,490
MIN	2,460	2,710	2,900	6,800	11,800	8,740	5,400	4,800	5,760	1,920	1,640	1,900
CFSM	.35	.57	1.56	2.94	2.37	1.92	1.86	1.79	1.14	.38	.22	.30
IN.	.41	.63	1.80	3.39	2.46	2.21	2.08	2.06	1.27	.44	.26	.34

CAL YR 1973 TOTAL 3,679,080 MEAN 10,080 MAX 40,300 MIN 2,080 CFSM 1.23 IN 16.65
WTR YR 1974 TOTAL 3,834,850 MEAN 10,510 MAX 54,900 MIN 1,640 CFSM 1.28 IN 17.36

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.--1,279 mi^2 (3,313 km^2).

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.--53 years, 927 ft^3/s (26.25 m^3/s), 9.84 in/yr (250 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,500 ft^3/s (552 m^3/s) June 23, gage height, 21.70 ft (6.614 m); from peak stage indicator; minimum, 92 ft^3/s (2.61 m^3/s) Sept. 11.
Period of record: Maximum discharge, 48,700 ft^3/s (1,380 m^3/s) Mar. 13, 1939, gage height, 28.59 ft (8.714 m); minimum daily, 2 ft^3/s (0.057 m^3/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^3), 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, drainage area.

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	278	243	1,010	2,220	4,040	2,570	3,430	889	2,900	1,580	169	182
2	505	327	828	1,880	3,070	2,120	2,770	840	2,020	1,410	180	164
3	535	264	699	1,770	2,660	1,940	2,570	846	1,800	1,030	216	162
4	445	225	1,230	1,570	2,210	2,020	6,050	808	1,440	1,070	259	154
5	390	201	2,620	1,390	1,550	5,790	4,150	741	1,380	884	190	149
6	360	186	2,160	1,290	1,890	4,940	2,690	712	1,400	781	164	131
7	346	175	1,410	1,180	1,790	3,470	2,420	682	1,940	728	152	127
8	318	176	1,110	729	1,280	2,650	4,670	755	2,360	680	154	115
9	294	173	958	670	1,310	2,100	4,380	1,370	2,640	675	150	103
10	265	169	893	630	1,390	2,790	3,160	1,080	2,320	795	187	102
11	230	159	778	600	1,200	2,920	2,410	861	1,780	681	1,330	110
12	224	152	720	580	920	3,880	1,960	1,580	1,260	712	2,550	145
13	253	159	750	572	1,020	4,830	5,460	2,180	1,100	593	1,490	408
14	319	160	742	729	1,320	4,000	5,430	1,340	1,110	531	1,370	567
15	405	204	674	897	1,190	2,740	3,430	1,640	1,110	436	844	510
16	346	204	606	865	980	3,390	2,300	1,800	1,360	452	587	386
17	289	251	497	894	963	3,190	1,840	1,500	1,330	388	879	314
18	258	196	485	1,550	927	2,700	1,650	2,910	899	298	1,400	267
19	242	175	463	5,930	1,230	2,120	1,530	8,300	840	290	895	225
20	228	169	391	8,970	3,070	2,060	1,290	9,430	852	282	584	190
21	219	192	404	15,900	3,060	1,560	1,160	8,940	2,170	264	414	175
22	208	202	469	16,700	7,840	1,640	2,260	11,900	9,300	243	309	150
23	199	194	516	14,300	10,000	1,360	1,620	8,960	18,500	251	285	131
24	194	263	533	10,900	8,030	1,370	1,390	8,640	17,900	303	260	112
25	188	793	3,920	8,190	4,460	1,130	1,140	5,040	12,200	263	236	108
26	175	1,600	8,670	6,100	2,700	1,020	1,010	3,350	7,800	246	209	110
27	175	1,290	9,740	6,070	2,260	1,100	1,110	2,720	5,140	237	185	113
28	176	1,310	7,690	6,250	2,120	1,340	914	2,060	3,210	222	216	126
29	185	1,520	5,550	6,170	------	1,490	936	2,170	2,090	206	251	150
30	183	1,280	3,900	5,220	------	3,750	1,030	3,050	1,730	195	247	128
31	191	------	3,130	4,910	------	4,670	------	4,420	------	180	199	------
TOTAL	8,623	12,612	63,546	135,626	74,480	82,650	76,160	101,514	111,881	16,906	16,561	5,814
MEAN	278	420	2,050	4,375	2,660	2,666	2,539	3,275	3,729	545	534	194
MAX	535	1,600	9,740	16,700	10,000	5,790	6,050	11,900	18,500	1,580	2,550	567
MIN	175	152	391	572	920	1,020	914	682	840	180	150	102
CFSM	.22	.33	1.60	3.42	2.08	2.08	1.99	2.56	2.92	.43	.42	.15
IN.	.25	.37	1.85	3.94	2.17	2.40	2.22	2.95	3.25	.49	.48	.17

CAL YR 1973 TOTAL 619,145 MEAN 1,696 MAX 16,000 MIN 137 CFSM 1.33 IN 18.01
WTR YR 1974 TOTAL 706,373 MEAN 1,935 MAX 18,500 MIN 102 CFSM 1.51 IN 20.55

PEAK DISCHARGE (BASE, 6,000 FT^3/S)

NOTE.--No gage-height record June 19 to July 2.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0830	14.75	10,000	03-05	1245	10.59	6,080	05-22	0530	18.11	13,900
01-22	0045	20.51	17,400	04-04	0730	11.07	6,510	06-23	Unknown	21.70	19,500
02-23	1115	14.70	10,000	04-13	1530	11.39	6,800				

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^2 (86.5 km^2).

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.--6 years, 39.6 ft^3/s (1.121 m^3/s), 16.10 in/yr (409 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) June 23, gage height, 8.15 ft (2.484 m); minimum daily, 7.4 ft^3/s (0.21 m^3/s) Nov. 20.
Period of record: Maximum discharge, 2,180 ft^3/s (61.7 m^3/s) June 13, 1972, gage height, 9.69 ft (2.954 m); minimum daily, 3.7 ft^3/s (0.10 m^3/s) Sept. 19, 1971.

REMARKS.--Records fair.

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	9.1	16	41	54	61	58	140	27	66	35	13	13
2	10	11	34	45	56	50	140	27	56	32	15	12
3	9.1	10	29	38	49	45	237	26	49	29	15	13
4	11	9.1	64	32	42	49	338	22	43	28	13	10
5	10	8.7	62	28	39	130	115	21	47	26	13	9.1
6	9.1	8.3	39	24	54	66	81	22	45	24	13	8.3
7	9.1	8.7	30	21	60	54	73	21	60	24	12	8.3
8	9.1	8.3	27	18	40	48	155	34	93	23	11	8.3
9	9.1	7.9	25	20	33	43	95	28	54	23	12	8.7
10	8.7	7.9	23	18	28	38	69	24	45	24	13	8.7
11	8.3	8.3	22	17	25	37	59	25	39	21	14	9.1
12	8.7	8.3	21	16	30	50	58	31	38	20	12	13
13	10	8.3	24	16	34	54	50	24	32	19	12	17
14	9.6	8.7	25	18	30	40	47	26	38	19	12	12
15	9.1	14	23	22	26	35	39	140	58	19	11	11
16	9.1	11	21	34	24	52	37	61	35	18	11	9.6
17	9.1	8.7	24	79	22	47	32	643	29	17	18	9.6
18	9.1	8.7	25	336	29	43	34	253	27	17	12	9.6
19	8.7	7.9	18	540	90	49	33	493	32	25	11	9.1
20	8.3	7.4	15	350	80	38	31	183	28	19	11	9.6
21	8.3	15	14	250	62	34	36	131	66	18	10	9.6
22	8.3	11	13	420	160	31	76	183	396	18	9.6	9.1
23	8.3	9.1	14	345	100	29	47	341	541	18	11	9.1
24	7.9	50	16	123	60	25	33	251	118	16	9.6	9.1
25	7.9	209	349	90	45	23	29	99	87	16	9.1	9.1
26	8.3	120	505	87	36	25	31	77	68	15	9.1	9.6
27	8.7	87	356	125	41	32	29	64	58	16	9.6	11
28	8.7	152	141	211	76	28	30	59	49	16	16	12
29	8.7	84	107	161	------	130	29	125	43	15	14	14
30	9.6	56	83	96	------	270	29	116	39	14	12	11
31	13	------	69	76	------	205	------	121	------	13	11	------
TOTAL	282.0	980.3	2,259	3,710	1,432	1,858	2,232	3,698	2,379	637	375.0	312.6
MEAN	9.10	32.7	72.9	120	51.1	59.9	74.4	119	79.3	20.5	12.1	10.4
MAX	13	209	505	540	160	270	338	643	541	35	18	17
MIN	7.9	7.4	13	16	22	23	29	21	27	13	9.1	8.3
CFSM	.27	.98	2.18	3.59	1.53	1.79	2.23	3.56	2.37	.61	.36	.31
IN.	.31	1.09	2.52	4.13	1.59	2.07	2.49	4.12	2.65	.71	.42	.35

CAL YR 1973 TOTAL 14,922.1 MEAN 40.9 MAX 524 MIN 7.4 CFSM 1.22 IN 16.62
WTR YR 1974 TOTAL 20,154.9 MEAN 55.2 MAX 643 MIN 7.4 CFSM 1.65 IN 22.45

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	1900	6.92	1,110	04-03	2400	6.51	981	05-23	2215	5.88	793
01-18	2315	5.99	826	05-17	1800	7.46	1,290	06-23	0430	8.15	1,540
01-22	2215	6.04	842	05-19	1345	6.36	936				

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, and 1 mile (2 km) downstream from Walnut Fork Sugar Creek.

DRAINAGE AREA.--509 mi^2 (1,318 km^2).

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.--36 years, 484 ft^3/s (13.71 m^3/s), 12.91 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,680 ft^3/s (274 m^3/s) June 22, gage height, 8.45 ft (2.576 m); minimum daily, 41 ft^3/s (1.16 m^3/s) Sept. 26.
Period of record: Maximum discharge, 26,300 ft^3/s (745 m^3/s) June 28, 1957, gage height, 14.48 ft (4.414 m); minimum daily, 2.4 ft^3/s (0.068 m^3/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^3/s (1,020 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	167	1,610	1,080	1,410	1,310	2,710	584	1,220	404	103	111
2	105	208	1,210	836	1,170	998	2,660	466	851	345	114	105
3	126	180	966	640	911	823	2,750	589	655	308	108	101
4	232	144	972	520	713	914	5,370	437	536	286	105	89
5	562	126	1,320	430	594	2,730	3,100	368	710	627	98	69
6	334	108	927	360	615	2,120	2,000	338	754	351	92	61
7	240	101	642	310	895	1,350	1,500	302	977	281	85	56
8	190	98	521	270	677	1,010	2,500	455	1,750	271	92	53
9	154	92	474	320	542	819	2,520	1,260	1,630	292	101	51
10	133	89	435	280	450	660	1,750	846	1,010	352	92	49
11	116	79	355	260	391	589	1,310	595	715	300	89	57
12	108	76	330	250	397	819	1,080	514	634	244	82	93
13	125	76	363	250	497	892	883	424	528	214	79	98
14	212	76	473	280	502	636	739	399	450	199	73	89
15	196	101	461	320	414	582	606	2,920	1,880	201	68	74
16	160	175	399	383	379	856	510	2,800	2,110	192	65	65
17	134	163	324	1,250	357	771	442	4,850	1,020	169	260	59
18	118	156	280	3,610	331	752	407	6,740	680	157	118	55
19	108	140	260	8,160	602	750	384	6,730	646	560	82	52
20	102	126	270	7,340	1,400	603	351	7,380	513	411	76	51
21	96	129	220	5,810	980	562	341	3,600	779	244	65	48
22	91	133	200	4,270	2,470	521	561	3,660	3,130	193	57	45
23	88	133	220	6,090	2,180	489	495	2,720	9,310	175	51	44
24	84	277	291	4,270	1,280	431	382	2,980	6,340	162	49	44
25	81	3,030	3,380	2,380	868	375	333	1,840	2,300	148	46	43
26	79	3,890	6,600	1,990	659	395	318	1,290	1,470	138	44	41
27	77	2,990	7,110	4,880	587	475	303	987	1,040	129	73	44
28	78	3,800	4,680	4,240	1,050	474	307	787	770	123	133	53
29	80	4,110	2,710	4,120	------	2,020	339	1,110	585	116	175	63
30	85	2,430	1,940	2,600	------	4,550	503	2,290	476	107	200	61
31	102	------	1,470	1,860	------	4,450	------	2,010	------	100	126	------
TOTAL	,447	23,403	41,413	69,659	23,321	34,726	37,454	62,271	45,469	7,799	3,001	1,924
MEAN	143	780	1,336	2,247	833	1,120	1,248	2,009	1,516	252	96.8	64.1
MAX	562	4,110	7,110	8,160	2,470	4,550	5,370	7,380	9,310	627	260	111
MIN	51	76	200	250	331	375	303	302	450	100	44	41
CFSM	.28	1.53	2.62	4.41	1.64	2.20	2.45	3.95	2.98	.50	.19	.13
IN.	.33	1.71	3.03	5.09	1.70	2.54	2.74	4.55	3.32	.57	.22	.14

CAL YR 1973 TOTAL 231,912 MEAN 635 MAX 7,110 MIN 41 CFSM 1.25 IN 16.95
WTR YR 1974 TOTAL 354,887 MEAN 972 MAX 9,310 MIN 41 CFSM 1.91 IN 25.94

PEAK DISCHARGE (BASE, 4,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-28	1900	4.98	4,740	01-23	0500	6.00	6,360	04-04	0100	6.30	6,430
12-26	2400	7.38	7,940	01-27	1200	5.22	5,210	05-20	0100	7.89	8,760
01-19	1700	7.45	8,520	03-30	2300	5.20	5,050	06-22	2400	8.45	9,680

03339500 Sugar Creek at Crawfordsville, Ind.--Continued

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
15...	1225	17.0	204	79	44	--	--
NOV.							
21...	1130	11.0	130	40	14	--	--
JAN.							
21...	1615	7.5	5660	163	2490	52	57
FEB.							
25...	1720	2.0	795	60	129	--	--
MAY							
07...	1320	14.5	287	34	26	--	--
JUNE							
13...	1320	20.0	518	96	134	--	--
JULY							
19...	0925	24.0	188	39	20	--	--
SEP.							
04...	1055	15.5	85	69	16	--	--
24...	1300	13.0	44	34	4.0	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT.						
15...	--	--	--	--	--	--
NOV.						
21...	--	--	--	--	--	--
JAN.						
21...	64	72	82	86	87	100
FEB.						
25...	--	--	--	--	--	--
MAY						
07...	--	--	--	--	--	--
JUNE						
13...	--	--	--	--	--	--
JULY						
19...	--	--	--	--	--	--
SEP.						
04...	--	--	--	--	--	--
24...	--	--	--	--	--	--

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 (386 km).

DRAINAGE AREA.--11,118 mi^2 (28,796 km^2).

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage heights only) in reports of Indiana Department of Conservation.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft (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.--47 years, 9,575 ft^3/s (271.2 m^3/s), 11.69 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 82,200 ft^3/s (2,330 m^3/s) Jan. 24, gage height, 27.52 ft (8.388 m); minimum daily, 2,220 ft^3/s (62.9 m^3/s) Aug. 27.

Period of record: Maximum discharge, 184,000 ft^3/s (5,210 m^3/s) May 20, 1943, gage height, 32.83 ft (10.007 m); minimum daily, 571 ft^3/s (16.2 m^3/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^3/s (6,510 m^3/s).

REMARKS.--Records good. Daily flow is affected at times by the operation of several reservoirs and powerplants.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1931(M), drainage area. WSP 1505: 1954. WSP 1915: 1954(m). WRD Ind. 1973: drainage area. Revised figures of discharge in cubic feet per second, for the 1973 water year, superseding those published in WRD Ind. 1973, are given herein:

Date	Discharge	Date	Discharge	Date	Discharge
1973		1973-Con.		1973-Con.	
Aug. 29.....	5,020	Sept. 9.....	3,020	Sept. 20.....	3,100
30.....	4,720	10.....	2,960	21.....	2,900
31.....	4,510	11.....	2,800	22.....	2,930
Sept. 1.....	4,080	12.....	2,690	23.....	2,990
2.....	3,770	13.....	2,610	24.....	3,110
3.....	3,580	14.....	4,010	25.....	3,090
4.....	3,470	15.....	4,640	26.....	3,120
5.....	3,240	16.....	4,030	27.....	3,120
6.....	3,140	17.....	3,350	28.....	3,090
7.....	3,130	18.....	3,050	29.....	3,000
8.....	3,050	19.....	3,030	30.....	3,110

Month	Ft^3/s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
August 1973.....	270,400	16,900	3,920	8,723	0.78	0.90
September 1973.....	97,210	4,640	2,610	3,240	.29	.32
Water Year 1973....	6,203,770	55,400	2,610	17,000	1.53	20.75

03340500 Wabash River at Montezuma, Ind.--Continued

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	3,380	3,290	19,500	41,100	45,000	23,100	31,000	9,240	24,600	9,890	2,830	3,030
2	3,300	3,560	18,300	33,500	40,900	22,900	31,500	9,080	18,900	8,600	3,370	2,940
3	3,410	3,840	16,900	25,000	36,000	21,600	30,600	8,840	14,100	8,280	3,260	2,780
4	3,820	3,910	16,500	20,000	32,000	20,200	35,000	8,520	11,700	8,380	2,780	2,980
5	3,960	3,790	18,600	19,700	28,800	24,800	35,200	7,960	10,500	8,070	2,720	2,980
6	4,200	3,630	18,700	20,000	26,300	28,600	33,400	7,640	10,700	7,950	2,520	2,680
7	4,060	3,540	17,400	18,700	25,600	29,800	32,300	7,250	11,000	7,690	2,500	2,570
8	3,930	3,410	15,300	15,700	24,400	31,000	33,100	7,100	11,900	7,350	2,440	2,540
9	3,830	3,370	12,600	15,300	22,900	30,500	34,200	9,570	12,900	6,900	2,390	2,440
10	3,730	3,300	11,100	16,300	22,300	28,800	32,200	11,300	13,200	6,660	2,820	2,390
11	3,620	3,240	9,390	16,600	21,700	26,800	28,500	12,100	11,900	6,560	2,850	2,340
12	3,540	3,150	7,820	15,300	20,400	27,800	25,100	12,200	10,700	6,250	4,050	2,510
13	3,480	3,180	6,970	12,800	19,800	27,900	24,900	12,300	10,200	5,990	4,600	3,020
14	3,520	3,120	6,920	10,500	20,800	24,200	24,000	13,000	9,860	5,690	3,970	3,780
15	3,860	3,160	6,940	9,370	21,400	20,200	23,000	17,100	10,900	5,450	3,690	4,340
16	3,910	3,360	6,490	8,890	21,400	19,900	20,800	19,500	16,400	5,180	3,250	3,990
17	3,730	3,510	6,010	9,320	20,900	20,000	20,400	21,400	14,500	4,840	3,310	3,630
18	3,540	3,720	5,700	14,100	20,200	19,900	19,200	33,300	11,300	4,380	3,560	3,540
19	3,380	3,690	5,470	27,800	18,000	18,800	17,300	39,000	9,730	3,960	3,690	3,650
20	3,400	3,760	4,930	37,500	16,900	17,100	16,000	46,900	9,980	4,300	3,290	3,790
21	3,160	3,860	4,530	47,300	18,800	15,600	15,200	50,200	10,700	4,210	2,920	3,360
22	3,050	3,940	3,480	59,800	22,900	14,100	16,000	49,800	18,500	3,880	2,700	2,750
23	3,040	3,890	3,270	71,500	29,300	13,300	14,600	47,700	39,400	3,630	2,650	2,520
24	3,050	4,040	4,510	81,100	32,300	12,800	11,800	44,900	48,100	3,490	2,680	2,370
25	3,020	7,550	13,200	78,400	33,700	12,500	10,600	42,800	47,700	3,560	2,530	2,400
26	2,940	13,000	30,700	69,100	32,100	12,100	9,800	36,200	39,000	3,490	2,340	2,450
27	2,940	15,100	43,200	61,500	27,200	12,200	9,210	29,300	28,100	3,320	2,220	2,450
28	2,920	16,400	46,200	56,200	22,800	12,700	8,810	23,000	18,900	3,500	2,690	2,350
29	2,980	18,900	46,200	53,800	------	14,500	8,370	20,400	13,600	3,410	3,150	2,350
30	3,010	19,800	46,300	51,400	------	23,500	8,440	22,700	11,400	3,030	3,130	2,340
31	3,130	------	45,400	48,200	------	30,800	------	26,300	------	2,860	3,150	------
TOTAL	106,840	176,010	518,530	1,065,8M	724,800	658,000	660,530	706,600	530,370	170,750	94,050	87,260
MEAN	3,446	5,867	16,730	34,380	25,890	21,230	22,020	22,790	17,680	5,508	3,034	2,909
MAX	4,200	19,800	46,300	81,100	45,000	31,000	35,200	50,200	48,100	9,890	4,600	4,340
MIN	2,920	3,120	3,270	8,890	16,900	12,100	8,370	7,100	9,730	2,860	2,220	2,340
CFSM	.31	.53	1.50	3.09	2.33	1.91	1.98	2.05	1.59	.50	.27	.26
IN.	.36	.59	1.73	3.57	2.43	2.20	2.21	2.36	1.77	.57	.31	.29

CAL YR 1973 TOTAL 5,039,090 MEAN 13,810 MAX 55,400 MIN 2,610 CFSM 1.24 IN 16.86
WTR YR 1974 TOTAL 5,499,520 MEAN 15,070 MAX 81,100 MIN 2,220 CFSM 1.36 IN 18.40

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, and 3.1 miles (5.0 km) west of Fincastle.

DRAINAGE AREA.--139 mi^2 (360 km^2) (revised).

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.--17 years, 140 ft^3/s (3.965 m^3/s), 13.68 in/yr (347 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	19	68	392	244	296	442	599	165	278	104	16	141
2	183	84	308	200	257	298	726	137	188	90	15	112
3	120	60	252	170	213	238	663	139	148	78	17	61
4	326	46	370	150	176	224	663	107	122	72	16	45
5	397	40	439	140	155	897	402	93	298	68	15	35
6	201	36	272	130	172	463	324	84	236	61	15	30
7	128	33	203	120	248	308	274	74	450	57	14	26
8	90	32	172	110	185	240	788	127	702	53	14	24
9	66	32	160	150	155	205	692	377	618	50	14	22
10	53	30	144	130	134	413	418	188	319	50	14	21
11	44	28	118	120	113	387	305	141	216	54	15	20
12	41	27	110	100	122	630	259	128	187	46	25	148
13	105	27	132	90	122	468	213	104	144	41	19	116
14	250	27	158	100	116	301	187	96	415	38	19	76
15	160	55	144	112	102	267	160	1,220	1,540	35	15	50
16	105	172	125	139	99	553	137	630	261	33	17	37
17	76	85	100	713	94	350	120	1,110	176	31	21	31
18	60	68	90	1,530	90	285	110	3,850	134	30	26	27
19	51	64	84	2,650	153	240	104	2,230	118	30	22	24
20	44	54	120	1,370	303	196	94	1,320	105	31	17	22
21	40	76	100	1,600	213	198	91	650	150	29	15	20
22	36	100	80	803	799	181	181	788	803	26	14	19
23	33	80	95	1,940	474	170	148	562	5,210	25	14	17
24	32	157	102	754	289	153	110	538	764	25	13	16
25	31	1,980	2,060	460	222	137	94	331	397	25	12	15
26	30	1,440	2,530	413	185	160	87	240	278	22	12	15
27	29	864	2,120	1,710	174	203	80	192	207	21	12	17
28	29	2,020	820	935	407	181	90	158	165	21	43	19
29	29	1,290	520	1,080	------	669	100	201	139	19	343	25
30	31	562	382	544	------	1,470	167	289	118	18	144	26
31	36	------	303	392	------	1,220	------	460	------	17	58	------
TOTAL	2,875	9,637	13,005	19,099	6,068	12,147	8,386	16,729	14,886	1,300	1,026	1,257
MEAN	92.7	321	420	616	217	392	280	540	496	41.9	33.1	41.9
MAX	397	2,020	2,530	2,650	799	1,470	788	3,850	5,210	104	343	148
MIN	19	27	80	90	90	137	80	74	105	17	12	15
CFSM	.67	2.31	3.02	4.43	1.56	2.82	2.01	3.88	3.57	.30	.24	.30
IN.	.77	2.58	3.48	5.11	1.62	3.25	2.24	4.48	3.98	.35	.27	.34

CAL YR 1973 TOTAL 75,105 MEAN 206 MAX 2,530 MIN 13 CFSM 1.48 IN 20.10
WTR YR 1974 TOTAL 106,415 MEAN 292 MAX 5,210 MIN 12 CFSM 2.10 IN 28.48

PEAK DISCHARGE (BASE, 1,900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	2100	10.68	3,170	01-19	0800	10.65	3,150	05-18	0700	12.92	5,490
11-28	2000	10.25	2,870	01-23	1100	9.65	2,500	06-15	0500	10.58	3,100
12-26	0100	11.56	3,860	01-27	1100	9.11	2,210	06-23	1100	14.13	7,760

03340800 Big Raccoon Creen near Fincastle, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 7,760 ft^3/s (220 m^3/s) June 23, gage height, 14.13 ft (4.307 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Aug. 25-27.

Period of record: Maximum discharge, 15,100 ft^3/s (428 m^3/s) Jan. 26, 1962; maximum gage height, 15.68 ft (4.779 m) Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 ft^3/s (0.051 m^3/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^3/s (1,130 m^3/s), from slope-area measurement.

SEDIMENT CONCENTRATION, Current year: Maximum daily concentration, 11,100 mg/l June 23; minimum daily, 9 mg/l Oct. 28.

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, 156,000 tons (142,000 tonnes) June 23; minimum daily, 0.41 tons (0.37 tonnes) Aug. 11.

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.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	10.0	---	---	6.0	---	---	---	---	---	---	---
2	23.0	---	--	2.0	---	---	12.0	---	---	---	23.0	19.0
3	23.0	---	9.0	---	5.0	7.0	---	---	23.5	---	---	---
4	23.0	9.0	---	---	---	---	---	---	---	23.0	22.0	---
5	23.0	---	9.0	---	4.0	8.0	---	---	---	22.0	22.0	---
6	23.0	9.0	---	---	4.0	10.0	---	---	---	---	22.0	20.0
7	23.0	---	6.0	0.0	---	---	---	---	---	23.0	---	20.0
8	24.0	---	---	---	---	---	13.0	---	---	---	22.0	---
9	23.0	10.0	---	---	3.0	10.0	---	---	---	22.0	---	---
10	---	---	---	---	---	11.0	---	---	---	---	21.0	---
11	21.0	---	6.0	---	3.0	---	---	---	---	22.0	---	---
12	---	11.0	---	---	---	10.0	---	---	---	23.0	---	19.0
13	20.0	---	---	---	---	11.0	---	---	---	---	---	20.0
14	---	---	---	---	---	---	---	---	---	23.0	---	---
15	---	13.0	5.0	1.5	---	---	---	---	---	---	---	---
16	---	---	---	---	1.0	---	---	---	---	---	---	18.0
17	12.0	---	6.0	---	---	---	---	---	---	23.0	---	---
18	---	12.0	---	2.0	3.0	6.0	---	---	---	---	---	20.0
19	12.0	---	---	3.0	---	---	---	---	---	23.0	---	---
20	---	11.0	---	3.0	---	---	---	---	---	---	---	---
21	---	---	---	3.0	2.0	---	---	---	---	23.0	---	18.0
22	---	---	6.0	2.0	3.0	---	---	---	---	---	---	---
23	14.0	---	---	4.0	---	---	11.0	---	---	23.0	---	14.0
24	---	11.0	5.0	---	2.0	---	---	---	---	---	---	---
25	15.0	10.0	---	---	---	---	---	---	---	23.0	---	---
26	---	10.0	---	1.5	1.0	---	---	---	---	---	---	14.0
27	---	12.0	---	---	---	---	---	---	---	---	---	---
28	15.0	11.0	---	6.0	2.0	---	---	---	---	---	21.5	---
29	---	10.0	---	5.0	---	12.0	---	---	---	24.0	20.0	---
30	10.0	8.0	---	---	---	11.0	---	---	---	---	20.0	---
31	---	---	---	---	---	12.0	---	---	---	24.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03340800 Big Raccoon Creen near Fincastle, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	67	3.4	68	--	--	392	80	85
2	183	449	222	84	--	--	308	116	96
3	120	248	80	60	--	--	252	132	90
4	326	--	--	46	81	10	370	1080	1080
5	397	--	--	40	77	8.3	439	1040	1230
6	201	--	--	36	73	7.1	272	422	310
7	128	--	--	33	64	5.7	203	292	160
8	90	156	38	32	57	4.9	172	250	116
9	66	84	15	32	53	4.6	160	241	104
10	53	46	6.6	30	51	4.1	144	239	93
11	44	28	3.3	28	51	3.9	118	237	76
12	41	26	2.9	27	51	3.7	110	235	70
13	105	--	--	27	51	3.7	132	234	83
14	250	--	--	27	50	3.6	158	232	99
15	160	--	--	55	--	--	144	230	89
16	105	--	--	172	--	--	125	225	76
17	76	112	23	85	130	30	100	219	59
18	60	85	14	68	76	14	90	213	52
19	51	63	8.7	64	46	7.9	84	207	47
20	44	57	6.8	54	32	4.7	120	202	65
21	40	50	5.4	76	--	--	100	199	54
22	36	44	4.3	100	--	--	80	323	70
23	33	39	3.5	80	--	--	95	628	161
24	32	31	2.7	157	264	112	102	653	180
25	31	24	2.0	1980	3350	17900	2060	--	--
26	30	18	1.5	1440	1790	6960	2530	--	--
27	29	14	1.1	864	192	448	2120	--	--
28	29	9	.70	2020	1260	6870	820	--	--
29	29	10	.78	1290	715	2490	520	--	--
30	31	22	1.8	562	110	167	382	--	--
31	36	19	1.8	--	--	--	303	--	--
TOTAL	2875	--	449.28	9637	--	35063.2	13005	--	4545

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	244	--	--	296	592	473	442	--	--
2	200	--	--	257	500	347	298	--	--
3	170	--	--	213	324	186	238	76	49
4	150	--	--	176	108	51	224	74	45
5	140	--	--	155	30	13	897	--	--
6	130	--	--	172	66	31	463	--	--
7	120	--	--	248	178	119	308	--	--
8	110	--	--	185	66	33	240	146	95
9	150	--	--	155	40	17	205	141	78
10	130	--	--	134	37	13	413	--	--
11	120	--	--	113	36	11	387	--	--
12	100	--	--	122	35	12	630	486	827
13	90	--	--	122	34	11	468	450	569
14	100	--	--	116	32	0	301	204	166
15	112	--	--	102	30	8.3	267	116	84
16	139	--	--	99	29	7.8	553	79	118
17	713	--	--	94	28	7.1	350	65	61
18	1530	2330	9630	90	44	11	285	59	45
19	2650	5460	39100	153	266	110	240	54	35
20	1370	2720	10100	303	254	208	196	49	26
21	1600	3000	13000	213	325	187	198	45	24
22	803	1100	2380	799	3450	7440	181	42	21
23	1940	2850	14900	474	1230	1570	170	40	18
24	754	460	936	289	477	372	153	38	16
25	460	230	286	222	423	254	137	36	13
26	413	--	--	185	380	190	160	--	--
27	1710	--	--	174	--	--	203	--	--
28	935	3730	9420	407	--	--	181	--	--
29	1080	3420	9970	--	--	--	669	792	1430
30	544	804	1180	--	--	--	1470	1320	5240
31	392	634	671	--	--	--	1220	860	2830
TOTAL	19099	--	111573	6068	--	11692.2	12147	--	11790

03340800 Big Raccoon Creen near Fincastle, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	599	373	603	165	--	--	278	643	483
2	726	707	1390	137	--	--	188	172	87
3	663	570	1020	139	--	--	148	76	30
4	663	472	845	107	--	--	122	59	19
5	402	166	180	93	--	--	298	751	604
6	324	108	94	84	--	--	236	--	--
7	274	90	67	74	--	--	450	--	--
8	788	731	1560	127	--	--	702	--	--
9	692	655	1220	377	1110	1130	618	--	--
10	418	320	361	188	272	138	319	879	757
11	305	242	199	141	186	71	216	622	363
12	259	208	145	128	173	60	187	530	268
13	213	189	109	104	161	45	144	457	178
14	187	168	85	96	152	39	415	3950	4430
15	160	147	64	1220	1620	5340	1540	4560	19000
16	137	127	47	630	503	856	261	506	357
17	120	106	34	1110	2660	7970	176	330	157
18	110	86	26	3850	3140	32600	134	266	96
19	104	66	19	2230	2360	14200	118	202	64
20	94	58	15	1320	1570	5600	105	146	41
21	91	72	18	650	919	1610	150	614	249
22	181	248	121	788	1550	3300	803	6440	14000
23	148	30	12	562	1720	2610	5210	11100	156000
24	110	18	5.3	538	1380	2000	764	5130	10600
25	94	19	4.8	331	438	391	397	245	263
26	87	20	4.7	240	346	224	278	138	104
27	80	20	4.3	192	298	154	207	143	80
28	90	21	5.1	158	246	105	165	152	68
29	100	22	5.9	201	458	249	139	156	59
30	167	23	10	289	313	244	118	137	44
31	--	--	--	460	1360	1690	--	--	--
TOTAL	8386	--	8274.1	16729	--	80626	14886	--	208401

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	104	116	33	16	20	.86	141	1080	411
2	90	94	23	15	19	.77	112	290	88
3	78	79	17	17	30	1.4	61	127	21
4	72	66	13	16	42	1.8	45	146	18
5	68	54	9.9	15	45	1.8	35	144	14
6	61	42	6.9	15	44	1.8	30	141	11
7	57	32	4.9	14	41	1.5	26	139	9.8
8	53	24	3.4	14	37	1.4	24	136	8.8
9	50	21	2.8	14	25	.95	22	132	7.8
10	50	28	3.8	14	14	.53	21	129	7.3
11	54	52	7.6	15	10	.41	20	126	6.8
12	46	48	6.0	25	11	.74	148	1100	440
13	41	43	4.8	19	11	.56	116	610	191
14	38	38	3.9	19	12	.62	76	226	46
15	35	34	3.2	15	12	.49	50	140	19
16	33	30	2.7	17	12	.55	37	96	9.6
17	31	25	2.1	21	12	.68	31	70	5.9
18	30	22	1.8	26	12	.84	27	58	4.2
19	30	19	1.5	22	16	.95	24	51	3.3
20	31	17	1.4	17	20	.92	22	46	2.7
21	29	15	1.2	15	23	.93	20	40	2.2
22	26	12	.84	14	33	1.2	19	33	1.7
23	25	10	.68	14	44	1.7	17	27	1.2
24	25	10	.68	13	57	2.0	16	23	.99
25	25	10	.68	12	54	1.7	15	20	.81
26	22	10	.59	12	50	1.6	15	17	.69
27	21	14	.79	12	47	1.5	17	20	.92
28	21	33	1.9	43	46	5.3	19	68	3.5
29	19	28	1.4	343	1310	1210	25	108	7.3
30	18	25	1.2	144	205	80	26	116	8.1
31	17	23	1.1	58	101	16	--	--	--
TOTAL	1300	--	163.76	1026	--	1341.50	1257	--	1352.61

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 106415
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 475271.65

03340870 Mansfield Lake at Ferndale, Ind.

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, and 6.1 miles (9.8 km) northeast of Mansfield.

DRAINAGE AREA.--216 mi^2 (559 km^2) (revised).

PERIOD OF RECORD.--December 1960 to current year. Prior to September 1970, published as Mansfield "Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 86,930 acre-ft (107 hm^3) June 2, elevation, 676.32 ft (206.142 m); minimum, 16,240 acre-ft (20.0 hm^3) Dec. 22, elevation, 640.05 ft (195.087 m).
Period of record: Maximum contents, 87,510 acre-ft (107 hm^3) May 4, 1964, elevation, 676.52 ft (206.203 m); minimum, 16,080 acre-ft (19.8 hm^3) 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^3), elevation, 640 ft (195.1 m). Seasonal pool capacity is 49,300 acre-ft (60.8 hm^3), elevation, 661 ft (201.5 m). Capacity at uncontrolled spillway elevation, 690 ft (210.3 m) is 133,000 acre-ft (164 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	660.15	47,530	-
Oct. 31	653.74	35,560	-11,970
Nov. 30	656.19	39,900	+4,340
Dec. 31	656.64	40,720	+820
Calendar year 1973	-	-	+10,840
Jan. 31	665.32	58,620	+17,900
Feb. 28	642.04	18,520	-40,100
Mar. 31	656.02	39,590	+21,070
Apr. 30	661.22	49,710	+10,120
May 31	676.10	86,290	+36,580
June 30	673.90	80,120	-6,170
July 31	661.05	49,350	-30,770
Aug. 31	661.29	49,860	+510
Sept. 30	660.53	48,290	-1,570
Water year 1974	-	-	+760

03340900 Big Raccoon Creek at Ferndale, Ind.

LOCATION.--Lat 39°41'44", long 87°05'01", in SE¼SW¼ sec.33, T.15 N., R.6 W., Parke County, on right bank 1.1 miles (1.8 km) southwest of Ferndale, 1.8 miles (2.9 km) northeast of Mansfield, 2.0 miles (3.2 km) upstream from Rocky Fork Creek, and 2.1 miles (3.4 km) downstream from Mansfield Lake.

DRAINAGE AREA.--222 mi^2 (575 km^2) (revised).

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Ferndale.

GAGE.--Water-stage recorder. Datum of gage is 582.36 ft (177.503 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--18 years, 226 ft^3/s (6.400 m^3/s), 13.82 in/yr (351 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,230 ft^3/s (63.2 m^3/s) Feb. 10, gage height, 8.08 ft (2.463 m); minimum daily, 6.5 ft^3/s (0.18 m^3/s) Sept. 19.
Period of record: Maximum discharge, 40,~~500 ft^3/s (1,150 m^3/s) June 28, 1957, gage h~~eight, 19.87 ft (6.056 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of records for station at Mansfield; minimum daily, 2.7 ft^3/s (0.076 m^3/s) Oct. 11, 1956.

REMARKS.--Records good. Flow regulated since October 1960, by Mansfield Lake (See sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	372	160	92	1,030	870	120	244	169	957	42	268
2	111	376	611	92	1,160	862	120	160	441	953	43	266
3	206	447	1,200	90	1,290	534	132	158	726	945	43	222
4	263	441	1,090	534	1,440	386	122	158	911	942	42	95
5	338	372	1,010	1,280	1,560	169	119	158	980	938	42	53
6	374	346	1,180	1,660	1,190	136	115	158	980	930	42	44
7	332	346	1,300	1,870	973	132	117	160	980	926	41	44
8	206	344	1,340	1,820	1,350	131	137	165	980	919	42	44
9	119	348	1,320	1,770	1,640	131	125	164	976	915	41	44
10	117	348	1,380	1,730	2,020	131	120	228	969	911	42	44
11	117	346	1,470	1,670	2,010	140	120	272	965	892	42	47
12	119	342	1,480	1,610	1,500	167	120	274	957	896	42	87
13	220	342	1,440	896	1,540	142	119	276	953	889	42	47
14	338	340	1,390	280	1,570	84	119	290	949	877	41	180
15	370	342	829	212	1,520	44	119	226	953	870	41	235
16	370	350	210	213	1,480	44	117	117	949	855	43	145
17	370	413	184	237	1,430	39	411	134	945	859	45	119
18	386	441	145	261	811	36	705	128	942	439	42	40
19	396	436	153	201	294	35	705	150	938	109	41	6.5
20	396	434	155	179	286	33	702	129	934	70	41	33
21	394	473	145	164	394	192	702	123	938	67	41	52
22	391	499	139	157	346	502	157	122	641	47	41	73
23	370	493	132	175	132	502	139	120	196	44	41	84
24	346	508	142	153	129	499	386	119	169	43	39	84
25	330	413	206	150	128	681	631	117	167	43	41	84
26	334	167	164	496	519	874	631	408	128	43	41	84
27	344	158	117	479	885	546	479	574	67	42	57	87
28	346	187	100	198	885	246	266	618	169	42	70	109
29	346	164	98	184	------	261	265	574	462	42	70	129
30	360	160	95	177	------	282	372	374	957	42	186	128
31	366	------	93	565	------	174	------	374	------	42	265	------
TOTAL	9,175	10,748	19,478	19,595	29,512	9,005	8,492	7,272	21,491	16,589	1,732	2,977.5
MEAN	296	358	628	632	1,054	290	283	235	716	535	55.9	99.3
MAX	396	508	1,480	1,870	2,020	874	705	618	980	957	265	268
MIN	100	158	93	90	128	33	115	117	67	42	39	6.5

CAL YR 1973 TOTAL 109,718.0 MEAN 301 MAX 2,040 MIN 23
WTR YR 1974 TOTAL 156,066.5 MEAN 428 MAX 2,020 MIN 6.5

03341300 Big Raccoon Creek at Coxville, Ind.

LOCATION.--Lat 39°39'09", long 87°17'37", in SW¼SW¼ 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, and 2.1 miles (3.4 km) northwest of Rosedale.

DRAINAGE AREA.--448 mi^2 (1,160 km^2) (revised).

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 (150.571 m) above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--18 years, 484 ft^3/s (13.71 m^3/s), 14.67 in/yr (373 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,640 ft^3/s (188 m^3/s) Dec. 27, gage height, 12.88 ft (3.926 m); minimum daily, 89 ft^3/s (2.52 m^3/s) Aug. 26.

Period of record: Maximum discharge, 108,000 ft^3/s (3,060 m^3/s) June 28, 1957, gage height, 21.23 ft (6.471 m), from rating curve extended above 35,000 ft^3/s (991 m^3/s) on basis of an estimate made by slope-area study; minimum daily, 6.5 ft^3/s (0.18 m^3/s) Oct. 10, 1956.

REMARKS.--Records good. Flow regulated by Mansfield Lake (See sta 03340870).

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the 1973 water year, superseding those published in WRD Ind. 1973 are given herein:

Date	Discharge	Date	Discharge	Date	Discharge
1973		1973-Con.		1973-Con.	
Aug. 22.....	166	Sept. 5.....	88	Sept. 18.....	162
23.....	133	6.....	85	19.....	160
24.....	120	7.....	81	20.....	160
25.....	115	8.....	81	21.....	160
26.....	109	9.....	85	22.....	161
27.....	105	10.....	81	23.....	165
28.....	99	11.....	83	24.....	175
29.....	96	12.....	88	25.....	195
30.....	109	13.....	86	26.....	181
31.....	113	14.....	95	27.....	170
Sept. 1.....	146	15.....	93	28.....	165
2.....	140	16.....	141	29.....	168
3.....	110	17.....	160	30.....	165
4.....	96				

Month	Ft^3/s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
August 1973.....	8,996	835	96	290	0.66	0.76
September 1973.....	3,926	195	81	131	.30	.34
Water Year 1973....	289,647	6,130	81	794	1.80	24.08

03341300 Big Raccoon Creek at Coxville, Ind.--Continued

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	164	516	603	665	1,560	1,560	1,110	899	1,020	1,180	114	709
2	155	516	595	577	1,580	1,430	1,390	645	833	1,180	116	554
3	178	519	1,260	529	1,730	1,290	1,480	671	1,120	1,170	119	504
4	319	582	1,520	514	1,710	920	1,620	589	1,230	1,160	111	342
5	353	534	1,430	1,260	1,890	2,000	1,060	538	1,330	1,160	107	220
6	435	480	1,420	1,630	1,910	1,020	898	498	1,340	1,150	103	179
7	445	475	1,460	1,960	1,550	810	795	466	1,350	1,140	100	158
8	356	472	1,530	1,970	1,690	701	1,570	580	1,390	1,130	102	142
9	228	469	1,500	2,000	1,860	640	1,330	595	1,400	1,120	98	132
10	188	469	1,490	1,990	2,170	804	964	520	1,330	1,120	102	126
11	179	469	1,550	1,930	2,450	923	813	594	1,300	1,120	119	122
12	178	469	1,610	1,850	2,020	1,680	752	613	1,290	1,100	148	662
13	230	466	1,600	1,670	1,860	1,350	676	577	1,260	1,080	104	394
14	387	464	1,580	754	1,910	916	619	573	1,240	1,070	119	332
15	458	469	1,450	608	1,850	763	564	2,750	1,250	1,070	104	464
16	461	492	619	611	1,810	1,060	524	1,090	1,230	1,050	97	323
17	461	502	502	1,210	1,760	786	549	1,520	1,210	1,040	412	274
18	464	577	437	2,450	1,580	673	1,020	2,970	1,200	904	191	218
19	487	580	384	3,360	932	598	1,060	2,690	1,190	394	138	144
20	492	574	394	2,230	873	529	1,040	2,610	1,210	269	116	179
21	494	614	370	2,870	855	529	1,040	1,830	1,270	232	106	159
22	494	670	335	1,490	1,440	913	1,340	1,680	1,750	206	116	142
23	490	654	342	2,500	910	951	798	1,320	2,780	179	141	156
24	464	715	356	1,440	703	941	656	1,200	1,200	166	98	155
25	440	2,150	2,990	1,100	621	970	963	975	926	155	93	150
26	427	1,380	3,400	1,040	627	1,290	951	890	786	145	89	147
27	437	1,050	4,450	2,770	1,250	1,210	929	1,120	556	139	125	152
28	448	1,210	1,700	1,700	1,680	749	713	1,080	520	135	551	176
29	448	989	1,240	1,840	------	964	690	1,170	510	128	1,080	224
30	453	723	986	1,180	------	1,850	943	1,010	1,120	122	469	218
31	487	------	801	1,040	------	1,790	------	2,120	------	118	519	------
TOTAL	11,700	20,249	39,904	48,738	42,781	32,610	28,857	36,383	36,141	22,332	6,007	7,857
MEAN	377	675	1,287	1,572	1,528	1,052	962	1,174	1,205	720	194	262
MAX	494	2,150	4,450	3,360	2,450	2,000	1,620	2,970	2,780	1,180	1,080	709
MIN	155	464	335	514	621	529	524	466	510	118	89	122
CFSM	.84	1.51	2.87	3.51	3.41	2.35	2.15	2.62	2.69	1.61	.43	.58
IN.	.97	1.68	3.31	4.05	3.55	2.71	2.40	3.02	3.00	1.85	.50	.65

CAL YR 1973 TOTAL 261,395 MEAN 716 MAX 4,450 MIN 81 CFSM 1.60 IN 21.71
WTR YR 1974 TOTAL 333,559 MEAN 914 MAX 4,450 MIN 89 CFSM 2.04 IN 27.70

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 Road 56 West, 0.4 mile (0.6 km) upstrea m 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^2 (4.95 km^2).

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: 288 ft^3/s (8.16 m^3/s) June 22, gage height, 2.75 ft (0.838 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) July 26, 29, 31, Aug. 1.
Period of record: Maximum discharge, 288 ft^3/s (8.16 m^3/s) June 22, 1974, gage height, 2.75 ft (0.838 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) July 26, 29, 31, Aug. 1, 1974.

REMARKS.--Records poor.

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									4.0	.47	.02	1.9
2									2.4	.41	.12	1.0
3									1.7	.29	.24	1.0
4									1.2	.23	.04	.57
5									1.7	.17	.04	.47
6									1.6	.13	.04	.41
7									1.3	.13	.04	.38
8									1.6	.11	.04	.32
9									1.4	.10	.04	.29
10									.71	.09	.21	.27
11									.54	.08	.13	.25
12									.54	.07	.06	.22
13									.40	.07	.48	.20
14									.70	.08	.11	.18
15									.97	.07	.04	.15
16									1.0	.06	.11	.14
17									.64	.06	.07	.14
18									.46	.06	.04	.13
19									.37	.04	.04	.13
20									.30	.04	.04	.14
21								5.1	1.0	.04	.03	.14
22								4.0	53	.04	.04	.13
23								6.4	20	.04	.04	.13
24								4.2	5.0	.04	.04	.12
25								3.0	3.0	.03	.04	.12
26								2.4	2.0	.02	.04	.11
27								2.0	1.4	.03	.05	.11
28								1.8	1.0	.03	1.8	.20
29					------			9.0	.80	.02	5.4	1.0
30					------			30	.60	.03	.77	.30
31		------			------		------	11	------	.02	.32	------
TOTAL									111.53	3.10	10.52	10.65
MEAN									3.72	.10	.34	.36
MAX									53	.47	5.4	1.9
MIN									.30	.02	.02	.11
CFSM									1.95	.05	.18	.19
IN.									2.17	.06	.20	.21

PEAK DISCHARGE (BASE, 100 FT^3/S).--June 22 (1345) 288 ft^3/s (2.75 ft).

03341500 Wabash River at Terre Haute, Ind.

LOCATION.--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, 2.2 miles (3.5 km) upstream from Sugar Creek, 4 miles (6 km) downstream from Lost Creek, and at mile 214.4 (345.0 km).

DRAINAGE AREA.--12,265 mi^2 (31,766 km^2).

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 U.S. Weather Bureau.

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.--47 years, 10,600 ft^3/s (300.2 m^3/s), 11.73 in/yr (298 mm/yr).

EXTREMES.--Current year: Maximum discharge, 84,600 ft^3/s (2,400 m^3/s) Jan. 25, gage height, 24.91 ft (7.593 m); minimum daily, 3,150 ft^3/s (89.2 m^3/s) Aug. 27.
Period of record: Maximum discharge, 189,000 ft^3/s (5,350 m^3/s) May 20, 1943, gage height, 30.50 ft (9.296 m); minimum daily, 701 ft^3/s (19.9 m^3/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^3/s (6,940 m^3/s).

REMARKS.--Records good. Natural flow affected 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,940	4,210	24,800	48,100	51,100	31,200	34,200	11,800	33,300	15,100	3,710	4,670
2	4,040	4,420	23,700	43,400	47,000	30,400	35,400	12,100	30,600	13,100	3,650	4,540
3	4,070	4,760	22,000	37,400	42,500	29,400	35,700	11,800	24,200	11,800	3,880	4,080
4	4,490	4,930	21,100	32,000	38,600	27,900	37,000	11,300	18,900	10,800	3,740	4,080
5	4,900	4,870	23,200	27,700	35,900	29,400	37,900	10,700	16,100	10,100	3,670	4,080
6	5,130	4,630	24,100	26,700	34,400	32,100	37,600	10,000	15,100	10,100	3,530	3,790
7	5,110	4,490	23,000	25,800	33,400	33,400	36,700	9,500	15,000	9,890	3,410	3,620
8	4,970	4,370	20,900	22,500	32,300	34,200	37,100	9,420	15,500	9,380	3,370	3,640
9	4,760	4,290	17,700	20,500	31,100	34,700	37,900	11,400	16,500	8,590	3,290	3,550
10	4,600	4,230	15,400	21,000	30,000	35,000	37,700	12,900	17,200	8,250	3,350	3,440
11	4,480	4,140	13,500	21,500	29,200	34,000	36,300	14,700	16,200	8,230	3,580	3,440
12	4,360	4,080	11,500	20,500	28,200	34,300	34,200	15,600	14,700	7,880	4,140	4,100
13	4,340	4,040	10,200	17,700	26,900	35,100	31,700	15,300	13,400	7,510	5,430	4,720
14	4,370	3,990	9,720	14,800	26,900	33,900	30,400	15,600	12,700	7,130	4,870	4,810
15	4,660	4,040	9,590	12,900	27,500	31,000	30,200	21,600	12,600	6,890	4,580	5,240
16	4,940	4,120	8,990	12,300	27,700	29,100	28,700	26,000	18,100	6,580	4,140	5,300
17	4,760	4,340	8,060	13,500	27,400	28,000	27,300	27,000	20,000	6,290	4,260	4,760
18	4,570	4,580	7,550	19,700	26,700	27,200	26,200	34,200	16,300	5,930	4,610	4,520
19	4,390	4,660	7,290	29,300	25,700	26,200	24,200	40,900	13,400	5,490	4,550	4,520
20	4,360	4,690	6,580	35,700	23,600	24,300	22,200	49,100	13,400	5,240	4,170	4,600
21	4,230	4,940	6,070	45,200	23,900	22,300	20,500	54,700	14,300	5,410	3,760	4,520
22	4,040	5,080	5,290	57,100	27,500	20,000	21,900	59,200	20,200	4,910	3,550	3,860
23	3,990	5,140	4,390	59,600	31,300	18,400	21,800	57,200	33,300	4,690	3,540	3,420
24	3,950	5,180	5,240	78,700	33,600	17,300	17,900	52,800	42,400	4,490	3,610	3,240
25	3,950	8,480	13,300	82,800	35,100	16,800	14,700	49,400	51,500	4,510	3,410	3,240
26	3,860	16,100	29,700	77,100	35,600	16,400	13,400	45,000	49,100	4,450	3,200	3,360
27	3,840	18,900	39,700	69,400	34,800	16,100	12,400	39,000	40,900	4,310	3,150	3,210
28	3,790	20,800	48,200	65,600	32,800	16,500	12,000	34,400	33,300	4,150	3,670	3,180
29	3,850	23,400	51,200	62,000	------	17,500	11,300	30,700	24,700	4,460	5,650	3,210
30	3,920	24,400	50,800	59,000	------	25,000	11,400	30,700	18,100	4,040	5,250	3,170
31	4,010	------	50,300	55,200	------	31,500	------	32,300	------	3,470	4,450	------
TOTAL	134,670	220,300	613,070	1,214,7M	900,700	838,600	815,900	856,320	681,000	223,170	123,170	119,910
MEAN	4,344	7,343	19,780	39,180	32,170	27,050	27,200	27,620	22,700	7,199	3,973	3,997
MAX	5,130	24,400	51,200	82,800	51,100	35,100	37,900	59,200	51,500	15,100	5,650	5,300
MIN	3,790	3,990	4,390	12,300	23,600	16,100	11,300	9,420	12,600	3,470	3,150	3,170
CFSM	.35	.60	1.61	3.19	2.62	2.21	2.22	2.25	1.85	.59	.32	.33
IN.	.41	.67	1.86	3.68	2.73	2.54	2.47	2.60	2.07	.68	.37	.36

CAL YR 1973 TOTAL 5,839,280 MEAN 16,000 MAX 56,700 MIN 3,400 CFSM 1.30 IN 17.71
WTR YR 1974 TOTAL 6,741,510 MEAN 18,470 MAX 82,800 MIN 3,150 CFSM 1.51 IN 20.45

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, 0.6 mile (1.0 km) downstream from Turtle Creek, and at mile 162.0 (260.7 km).

DRAINAGE AREA.--13,161 mi^2 (34,087 km^2).

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, read twice daily.

AVERAGE DISCHARGE.--36 years, 11,540 ft^3/s (326.8 m^3/s), 11.90 in/yr (302 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	4,140	4,260	22,500	51,600	64,700	38,500	27,800	12,200	48,800	26,700	4,090	6,820
2	4,310	4,430	22,700	51,600	60,900	37,100	30,400	12,400	43,100	19,100	3,990	6,410
3	4,370	4,590	21,900	53,500	57,200	34,800	33,900	12,700	38,500	14,200	3,990	5,040
4	4,460	4,860	20,900	53,600	53,300	33,100	37,300	12,100	32,600	11,900	4,040	4,420
5	4,990	5,020	21,700	51,200	49,300	32,800	39,300	11,500	25,600	10,700	3,920	4,260
6	5,180	4,950	22,100	40,100	46,000	32,400	40,400	10,800	20,800	10,100	3,860	4,140
7	5,330	4,780	22,200	33,500	43,000	32,500	41,100	10,200	18,200	10,000	3,740	3,880
8	5,320	4,640	21,300	29,100	39,800	33,200	43,800	9,850	17,200	9,640	3,680	3,670
9	5,190	4,540	19,300	24,700	36,800	34,300	45,200	10,400	17,200	9,130	3,570	3,600
10	5,000	4,460	16,400	22,200	34,500	36,400	44,000	11,800	17,400	8,530	3,530	3,620
11	4,840	4,390	14,300	21,500	32,700	38,300	43,000	13,100	17,400	8,250	3,580	3,460
12	4,740	4,330	12,600	21,000	31,500	40,700	41,900	15,000	16,600	8,160	3,740	11,200
13	4,710	4,270	10,900	19,600	30,300	41,800	40,200	15,400	15,100	7,810	4,310	16,700
14	4,760	4,230	9,880	17,000	28,800	40,800	37,800	15,100	13,800	7,510	5,220	10,500
15	4,720	4,230	9,490	14,500	27,700	39,500	35,100	19,800	13,200	7,250	4,790	6,810
16	4,900	4,220	9,290	13,300	27,300	38,000	33,100	24,900	13,800	6,980	4,520	6,430
17	5,080	4,310	8,670	15,800	27,100	35,600	31,200	25,900	17,800	6,690	4,180	6,070
18	4,960	4,520	7,960	20,200	26,900	32,800	29,400	30,900	18,400	6,400	4,340	5,490
19	4,790	4,700	7,610	26,200	27,400	30,500	27,800	33,800	15,800	6,110	4,520	5,180
20	4,620	4,820	7,270	30,200	27,600	28,600	25,500	37,600	13,800	5,680	4,480	5,290
21	4,560	4,940	6,660	35,600	25,800	26,700	23,100	44,900	14,100	5,580	4,170	6,540
22	4,460	5,190	6,240	41,700	27,900	24,000	22,800	53,000	17,200	5,580	3,830	5,470
23	4,290	5,230	5,520	48,800	29,100	21,200	24,300	58,400	27,600	5,200	3,590	4,540
24	4,250	5,250	5,030	57,700	30,200	19,000	22,200	60,400	31,700	4,960	3,540	4,120
25	4,210	7,860	10,600	66,800	31,700	17,700	18,300	59,400	35,500	4,780	3,540	3,880
26	4,170	13,600	25,000	76,900	33,700	17,200	15,400	57,000	40,400	4,750	3,380	3,870
27	4,120	17,600	33,100	82,800	35,700	16,700	13,800	54,100	46,100	4,670	3,220	3,950
28	4,080	18,900	36,800	82,900	37,900	16,400	13,000	50,500	48,100	4,540	4,410	4,100
29	4,050	20,700	41,500	79,200	------	16,900	12,600	46,300	45,300	4,480	8,160	7,010
30	4,060	21,700	46,900	74,000	------	20,700	12,000	43,900	37,500	4,580	8,690	5,460
31	4,140	------	50,900	69,000	------	24,700	------	50,600	------	4,260	5,830	------
TOTAL	142,800	211,520	577,220	1,325.8M	1,024.8M	932,900	905,700	923,950	778,600	254,220	134,450	171,930
MEAN	4,606	7,051	18,620	42,770	36,600	30,090	30,190	29,800	25,950	8,201	4,337	5,731
MAX	5,330	21,700	50,900	82,900	64,700	41,800	45,200	60,400	48,800	26,700	8,690	16,700
MIN	4,050	4,220	5,030	13,300	25,800	16,400	12,000	9,850	13,200	4,260	3,220	3,460
CFSM	.35	.54	1.41	3.25	2.78	2.29	2.29	2.26	1.97	.62	.33	.44
IN.	.40	.60	1.63	3.75	2.90	2.64	2.56	2.61	2.20	.72	.38	.49

CAL YR 1973 TOTAL 6,237,790 MEAN 17,090 MAX 62,500 MIN 3,910 CFSM 1.30 IN 17.63
WTR YR 1974 TOTAL 7,383,890 MEAN 20,230 MAX 82,900 MIN 3,220 CFSM 1.54 IN 20.87

03342000 Wabash River at Riverton, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 83,900 ft^3/s (2,380 m^3/s) Jan. 27, gage height, 22.15 ft (6.751 m); minimum daily, 3,220 ft^3/s (91.2 m^3/s) Aug. 27.

Period of record: Maximum discharge, 201,000 ft^3/s (5,690 m^3/s) May 21, 1943, gage height, 29.36 ft (8.949 m); minimum daily, 858 ft^3/s (24.3 m^3/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^3/s (7,080 m^3/s).

WATER TEMPERATURE, Current year: Maximum temperature, 30.5°C Aug. 22, 23; 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. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).--WSP 1335: 1939, 1950. WRD Ind. 1973: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	24.5	13.5	12.5	8.5	7.5	0.0	0.0	4.0	3.0	5.5	3.0
2	24.5	24.0	13.0	12.5	8.0	7.0	0.0	0.0	4.0	4.0	8.0	5.0
3	24.0	24.0	12.5	12.0	7.5	7.0	0.0	0.0	4.0	3.5	10.0	8.0
4	24.0	24.0	12.5	12.0	8.5	7.5	0.0	0.0	3.5	2.0	12.0	10.0
5	24.0	23.0	12.0	11.5	9.0	8.0	0.0	0.0	2.5	1.5	12.5	11.5
6	23.5	22.0	12.0	11.0	8.5	8.0	0.0	0.0	2.5	2.0	13.5	12.0
7	22.5	22.0	12.0	11.0	8.0	7.0	0.5	0.0	2.5	2.0	14.5	13.0
8	22.0	22.0	11.5	11.0	7.0	6.0	0.0	0.0	2.0	1.0	15.5	14.5
9	22.5	21.5	11.5	10.5	6.0	5.0	0.5	0.0	1.0	0.0	16.0	15.0
10	23.0	22.0	10.5	9.5	5.0	4.5	0.0	0.0	1.0	0.0	15.0	14.0
11	23.0	22.0	9.5	9.0	4.5	4.0	0.5	0.0	0.5	0.0	14.0	13.0
12	23.0	22.0	9.5	9.5	4.0	3.5	0.5	0.0	1.0	0.0	13.0	10.0
13	22.0	20.5	10.5	9.0	4.0	3.5	0.0	0.0	2.0	1.0	10.5	9.5
14	20.5	20.0	13.0	10.5	4.5	4.0	0.5	0.0	2.5	2.0	10.0	9.5
15	20.0	19.0	14.0	13.0	4.5	4.5	1.5	0.5	3.0	2.0	9.5	8.5
16	20.0	19.0	14.5	13.5	4.5	3.5	2.0	1.0	3.0	2.5	8.5	8.0
17	19.0	17.5	13.5	13.0	3.5	3.0	2.0	1.5	3.0	2.5	8.0	8.0
18	18.0	16.5	13.0	13.0	4.0	3.5	3.0	1.5	3.5	3.0	8.0	7.5
19	17.0	16.0	13.5	13.0	4.0	3.0	4.0	3.0	4.0	3.5	8.0	8.0
20	17.5	17.0	14.0	13.0	3.0	2.5	5.5	3.5	4.5	4.0	8.5	8.0
21	17.0	16.5	14.0	13.5	2.5	1.0	6.0	5.5	5.5	4.5	8.5	8.5
22	17.0	16.0	13.5	12.0	2.5	1.5	6.0	5.5	5.5	5.0	8.5	8.0
23	17.0	16.0	13.5	13.0	4.0	2.5	6.0	5.0	5.0	4.0	8.5	7.5
24	17.0	16.5	14.0	13.0	4.5	3.0	5.5	4.0	4.5	3.0	7.5	6.0
25	17.5	17.0	14.0	12.0	3.0	1.5	4.5	3.0	3.0	0.5	6.0	5.5
26	17.5	17.0	12.0	10.5	1.5	1.0	4.0	3.0	1.5	0.5	6.5	5.5
27	17.5	16.5	11.0	10.5	1.5	0.5	4.0	3.5	2.5	1.0	7.5	5.0
28	16.5	15.5	10.5	10.0	1.0	1.0	4.0	3.0	4.0	2.5	9.0	7.5
29	15.5	14.0	10.0	9.5	1.0	0.5	3.5	3.0	---	---	10.5	9.0
30	4.5	14.0	9.5	8.5	0.5	0.0	4.0	3.0	---	---	10.5	10.0
31	5.0	13.5	---	---	0.0	0.0	4.5	3.5	---	---	10.0	8.5
MONTH	25.0	13.5	14.5	8.5	9.0	0.0	6.0	0.0	5.5	0.0	16.0	3.0

03342000 Wabash River at Riverton, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

03342100 Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°12'54", long 87°18'41", in NW¼NW¼ sec.21, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of side of bridge on County Road 900 North, 1.9 miles (3.1 km) northwest of Hymera, and 3.9 miles (6.3 km) upstream from West Fork Busseron Creek.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

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.--8 years, 20.3 ft^3/s (0.575 m^3/s), 16.51 in/yr (419 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Sept. 12, gage height, 18.58 ft (5.663 m); minimum daily, 0.04 ft^3/s (0.001 m^3/s) Oct. 6-11, Nov. 9-13.
Period of record: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Sept. 12, 1974, gage height, 18.58 ft (5.663 m); no flow at times most years.

REMARKS.--Records fair. Flow affected by Soil Conservation Service floodwater-retarding structures.

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

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	.07	.06	52	30	28	36	31	20	82	6.5	.05	96
2	.10	.07	41	25	21	29	36	24	63	4.9	.05	28
3	.24	.06	32	20	14	21	80	24	52	3.4	.12	18
4	.07	.05	52	16	10	21	51	14	41	2.5	.07	11
5	.06	.06	41	14	7.7	93	35	11	32	1.8	.06	6.7
6	.04	.06	28	11	15	46	26	8.7	28	1.4	.05	4.2
7	.04	.05	19	9.0	18	34	27	6.7	29	1.2	10	2.9
8	.04	.05	14	10	13	22	118	8.0	29	1.1	3.6	2.0
9	.04	.04	11	13	9.4	74	65	6.7	26	1.0	1.5	2.4
10	.04	.04	8.4	14	8.4	73	50	5.9	17	1.0	2.9	12
11	.04	.04	7.0	14	7.4	88	38	5.4	13	1.0	1.9	4.9
12	.17	.04	5.6	12	5.4	207	32	35	11	1.1	.66	683
13	8.4	.04	4.5	10	5.1	94	25	13	7.4	.90	.24	103
14	4.2	.05	5.1	9.0	4.4	74	19	14	5.6	14	.17	72
15	1.8	.10	4.9	8.0	3.8	73	15	219	4.6	13	.15	58
16	.74	1.1	4.6	35	3.6	67	13	70	3.6	8.0	.12	45
17	.39	1.0	3.0	130	3.2	51	11	143	3.3	4.6	.15	34
18	.20	1.4	2.5	120	3.0	40	9.4	100	2.9	2.9	.15	25
19	.15	1.2	3.5	130	53	30	8.7	109	3.4	1.9	.13	19
20	.10	1.2	4.5	120	34	21	7.4	78	3.9	1.0	.11	64
21	.07	12	4.5	180	76	36	6.7	58	15	.48	.09	42
22	.05	9.4	4.0	80	113	23	74	80	53	.24	.09	22
23	.05	8.0	3.5	89	65	16	36	61	130	.15	.08	14
24	.05	30	13	68	51	13	24	45	57	.11	.08	10
25	.05	149	130	57	39	13	18	36	46	.08	.08	7.4
26	.05	113	200	93	29	13	14	28	33	.07	.08	5.6
27	.05	82	250	84	53	11	12	21	26	.06	.10	9.7
28	.05	108	150	86	56	9.4	20	16	18	.05	36	77
29	.05	71	100	68	------	18	15	37	12	.05	27	102
30	.05	60	60	52	------	42	20	422	9.1	.05	17	52
31	.05	------	40	39	------	32	------	347	------	.05	11	------
TOTAL	17.50	649.11	1,298.6	1,646.0	749.4	1,420.4	937.2	2,066.4	856.8	74.59	113.78	1,632.8
MEAN	.56	21.6	41.9	53.1	26.8	45.8	31.2	66.7	28.6	2.41	3.67	54.4
MAX	8.4	149	250	180	113	207	118	422	130	14	36	683
MIN	.04	.04	2.5	8.0	3.0	9.4	6.7	5.4	2.9	.05	.05	2.0
CFSM	.03	1.29	2.51	3.18	1.60	2.74	1.87	3.99	1.71	.14	.22	3.26
IN.	.04	1.45	2.89	3.67	1.67	3.16	2.09	4.60	1.91	.17	.25	3.64

CAL YR 1973 TOTAL 11,536.45 MEAN 31.6 MAX 822 MIN .02 CFSM 1.89 IN 25.70
WTR YR 1974 TOTAL 11,462.58 MEAN 31.4 MAX 683 MIN .04 CFSM 1.88 IN 25.53

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 km^2 (37.3 km^2).

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.--8 years, 14.1 ft^3/s (0.399 m^3/s), 13.30 in/yr (338 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,510 ft^3/s (42.8 m^3/s) Sept. 12, gage height, 12.70 ft (3.871 m), from floodmarks; no flow July 31, Aug. 1, 5, 6.
Period of record: Maximum discharge, 1,930 ft^3/s (54.7 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.75	6.1	11	12	18	21	19	28	1.8	0	215
2	.49	.75	5.0	9.4	9.6	16	38	20	18	1.6	.06	11
3	.46	.66	4.7	9.4	8.0	13	124	24	7.6	1.3	.14	6.0
4	.46	.58	46	8.0	6.3	19	37	15	7.4	1.2	.02	4.2
5	.39	.66	21	7.1	5.8	80	17	10	6.0	1.0	0	4.0
6	.23	.66	8.0	6.6	17	24	12	8.0	5.5	.95	0	3.0
7	.22	.66	4.8	6.0	25	16	15	6.5	9.0	.90	54	2.0
8	.18	.58	4.4	4.7	9.2	11	78	11	17	.80	13	1.5
9	.18	.43	4.4	6.3	7.3	48	35	11	17	.75	3.0	1.8
10	.18	.43	4.1	8.7	6.6	65	18	9.0	7.0	.75	6.9	29
11	.18	.43	3.6	8.9	5.5	103	12	7.5	6.6	.85	5.1	7.8
12	.27	.43	3.4	5.3	5.8	318	12	50	14	.75	2.1	550
13	7.1	.50	4.0	4.7	6.5	47	11	25	4.1	.70	1.7	80
14	3.7	.50	3.8	5.1	5.5	23	9.8	12	3.3	.65	1.2	55
15	.93	1.9	3.4	8.0	4.7	29	8.3	347	3.2	5.0	1.1	40
16	.58	2.6	3.2	49	4.5	40	7.1	31	2.5	1.1	2.0	30
17	.37	1.2	2.7	110	4.5	20	6.5	204	1.9	.44	1.4	23
18	.31	1.1	2.7	98	4.4	15	5.8	106	1.2	.40	.80	18
19	.31	1.3	2.7	154	75	13	5.8	99	3.4	.40	.53	14
20	.31	1.3	3.6	138	24	9.6	5.1	35	4.7	.44	.44	45
21	.37	8.2	3.7	69	44	35	4.8	22	17	.29	.40	30
22	.37	3.8	3.0	27	118	17	103	70	74	.29	.40	13
23	.37	2.0	3.4	43	29	12	20	37	233	.29	.40	7.0
24	.43	11	17	19	18	11	11	24	20	.20	.36	5.0
25	.50	199	431	13	13	13	10	20	10	.18	.36	4.4
26	.58	109	115	66	11	19	8.7	13	7.8	.18	.32	4.0
27	.58	35	175	65	45	13	7.4	12	4.1	.18	.36	11
28	.58	77	71	46	48	11	21	11	3.2	.20	105	108
29	.58	18	38	40	------	21	14	28	2.7	.12	23	190
30	.50	9.8	23	22	------	48	18	490	2.3	.02	11	14
31	.50	------	15	15	------	24	------	322	------	0	8.0	------
TOTAL	22.58	490.22	1,036.7	1,083.2	573.2	1,151.6	696.3	2,099.0	541.5	23.73	243.09	1,526.7
MEAN	.73	16.3	33.4	34.9	20.5	37.1	23.2	67.7	18.1	.77	7.84	50.9
MAX	7.1	199	431	154	118	318	124	490	233	5.0	105	550
MIN	.18	.43	2.7	4.7	4.4	9.6	4.8	6.5	1.2	0	0	1.5
CFSM	.05	1.13	2.32	2.42	1.42	2.58	1.61	4.70	1.26	.05	.54	3.53
IN.	.06	1.27	2.68	2.80	1.48	2.97	1.80	5.42	1.40	.06	.63	3.94

CAL YR 1973 TOTAL 7,548.55 MEAN 20.7 MAX 692 MIN .03 CFSM 1.44 IN 19.50
WTR YR 1974 TOTAL 9,487.82 MEAN 26.0 MAX 550 MIN 0 CFSM 1.81 IN 24.51

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	1200	10.76	515	05-15	0600	11.16	714	06-23	0300	10.86	628
12-25	1000	11.42	718	05-17	2200	11.10	694	09-01	0630	10.58	567
02-22	0145	10.51	552	05-30	0800	11.20	728	09-12	unknown	12.70	1,510
03-12	1200	10.53	556	05-31	0200	11.22	735	09-28	2400	10.96	651

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^2 (30.8 km^2).

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.--8 years, 14.4 ft^3/s (0.408 m^3/s), 16.43 in/yr (417 mm/yr).

EXTREMES.--Current year: Maximum discharge, 919 ft^3/s (26.0 m^3/s) May 30, gage height, 13.70 ft (4.176 m); minimum daily, 1.3 ft^3/s (0.037 m^3/s) Oct. 21.
Period of record: Maximum discharge, 919 ft^3/s (26.0 m^3/s) May 30, 1974, gage height, 13.70 ft (4.176 m); minimum daily, 0.44 ft^3/s (0.012 m^3/s) Nov. 22, 1968.

REMARKS.--Records good. Flow affected by surface-mined areas.

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	3.6	2.5	5.8	12	14	17	17	16	47	7.2	2.6	44
2	2.1	2.0	5.3	10	13	18	20	18	27	6.7	4.0	9.0
3	4.1	1.8	5.1	9.0	12	16	22	18	19	6.4	6.7	6.9
4	2.3	1.6	17	8.5	10	17	17	13	15	5.9	3.4	5.0
5	2.0	1.8	9.9	8.0	9.5	42	15	11	15	5.7	2.8	4.2
6	1.8	1.8	5.6	7.0	14	20	13	9.5	19	5.4	2.6	4.0
7	2.0	1.8	4.4	6.5	14	16	15	8.9	30	5.2	13	3.8
8	1.8	1.8	3.9	5.0	11	14	111	17	51	5.0	19	3.8
9	1.6	2.0	3.6	7.7	9.5	29	40	15	32	4.7	7.4	4.0
10	1.6	2.0	3.4	6.0	9.5	34	23	11	20	5.0	14	135
11	1.6	1.8	3.1	5.0	9.2	45	19	25	16	5.2	11	62
12	2.5	2.0	2.9	6.0	8.6	54	18	59	17	4.5	16	231
13	12	2.0	3.3	5.0	8.6	29	16	16	12	4.2	5.7	33
14	3.2	2.0	3.2	5.0	8.0	20	15	23	11	4.2	4.5	19
15	2.0	4.1	2.7	9.2	7.4	22	13	127	11	5.0	4.0	13
16	1.8	1.8	2.5	29	7.4	27	13	29	9.3	4.0	3.8	10
17	1.5	1.5	2.4	27	7.2	20	12	141	8.0	4.0	3.6	9.0
18	1.5	1.8	2.4	21	7.4	17	11	64	7.2	3.8	3.8	8.0
19	1.5	1.6	2.4	29	30	15	15	32	17	3.8	3.4	7.4
20	1.5	1.6	3.0	71	16	14	12	24	13	3.8	3.2	8.2
21	1.3	4.6	3.8	52	30	27	12	50	15	3.6	3.0	10
22	1.5	2.1	2.7	24	54	19	46	60	41	4.0	2.8	8.5
23	1.5	1.8	3.0	31	23	16	20	36	41	4.2	2.8	7.4
24	1.5	9.9	34	20	19	16	15	22	19	3.8	2.6	7.2
25	1.5	85	155	16	18	16	13	17	13	3.4	2.6	6.9
26	1.5	41	139	50	17	15	11	15	11	3.2	2.6	6.7
27	1.6	17	76	45	24	13	10	14	9.6	3.0	3.0	11
28	1.8	25	31	43	25	13	9.9	13	8.5	3.0	14	56
29	1.6	11	24	32	------	21	9.2	27	8.0	3.0	7.4	54
30	1.8	7.4	16	22	------	25	22	225	7.4	2.6	5.0	15
31	5.1	------	13	18	------	17	------	260	------	2.6	4.2	------
TOTAL	72.7	244.1	589.4	639.9	436.3	684	605.1	1,416.4	570.0	136.1	184.5	803.0
MEAN	2.35	8.14	19.0	20.6	15.6	22.1	20.2	45.7	19.0	4.39	5.95	26.8
MAX	12	85	155	71	54	54	111	260	51	7.2	19	231
MIN	1.3	1.5	2.4	5.0	7.2	13	9.2	8.9	7.2	2.6	2.6	3.8
CFSM	.20	.68	1.60	1.73	1.31	1.86	1.70	3.84	1.60	.37	.50	2.25
IN.	.23	.76	1.84	2.00	1.36	2.14	1.89	4.43	1.79	.43	.58	2.51

CAL YR 1973 TOTAL 5,971.9 MEAN 16.4 MAX 273 MIN 1.3 CFSM 1.38 IN 18.67
WTR YR 1974 TOTAL 6,381.5 MEAN 17.5 MAX 260 MIN 1.3 CFSM 1.47 IN 19.95

03342300 Busseron Creek near Sullivan, Ind.

LOCATION.--Lat 39°04'33", long 87°23'11", in SE¼NW¼ sec.2, T.7 N., R.9 W., Sullivan County, on left bank at upstream side of bridge on State Road 54, 1.5 miles (2.4 km) southeast of Sullivan, 1.6 miles (2.6 km) east of intersection of U.S. Highway 41 and State Road 54, and 1.7 miles (2.7 km) upstream from Buttermilk Creek.

DRAINAGE AREA.--138 mi^2 (357 km^2).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 440.00 ft (134.112 m) above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--8 years, 149 ft^3/s (4.220 m^3/s), 14.66 in/yr (372 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,260 ft^3/s (92.3 m^3/s) Sept. 13, gage height, 14.65 ft (4.465 m); minimum daily, 5.4 ft^3/s (0.15 m^3/s) Oct. 24, 25, 27.
Period of record: Maximum discharge, 5,480 ft^3/s (155 m^3/s) Jan. 30, 1969, gage height, 15.83 ft (4.825 m); minimum daily, 0.9 ft^3/s (0.025 m^3/s) Sept. 8, 1966.

REMARKS.--Records good. Flow affected by surface-mined areas and Soil Conservation Service floodwater-retarding structures.

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

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	11	58	121	223	207	233	193	173	2,550	46	9.7	397
2	16	79	95	185	185	266	293	130	1,400	38	11	175
3	16	75	108	155	161	196	267	244	500	33	27	79
4	16	71	168	126	140	171	379	148	330	29	15	54
5	11	34	272	100	129	595	195	103	221	27	12	40
6	6.6	7.0	158	80	142	347	155	82	186	25	11	31
7	6.6	6.6	128	90	218	213	135	66	274	23	12	26
8	7.0	7.0	114	100	163	166	718	98	568	21	235	23
9	5.8	7.6	104	110	137	170	927	151	550	19	61	20
10	5.6	6.6	66	120	126	958	412	96	221	19	53	429
11	5.8	6.6	37	115	91	636	251	77	146	21	60	503
12	8.0	6.3	38	105	68	913	211	530	298	20	60	1,070
13	33	5.8	39	90	71	1,180	179	290	157	17	32	2,610
14	51	5.8	41	80	66	490	151	159	106	16	22	2,130
15	25	13	36	71	58	339	123	939	93	38	17	650
16	14	30	32	201	55	435	105	1,260	77	34	15	400
17	9.4	23	20	811	53	290	93	450	61	24	21	272
18	8.0	15	25	687	51	225	83	1,270	52	20	19	176
19	7.0	15	25	780	248	190	93	500	65	18	15	126
20	6.6	13	20	714	345	158	82	587	87	16	14	122
21	5.8	29	35	1,110	189	274	73	361	109	15	11	395
22	5.6	55	31	550	865	242	398	555	612	14	11	155
23	5.6	30	27	490	579	171	348	729	997	15	11	95
24	5.4	38	90	380	265	144	171	348	630	13	10	71
25	5.4	421	875	273	194	137	128	230	283	12	9.7	58
26	5.6	639	1,380	284	158	162	109	180	155	11	9.4	48
27	5.4	575	1,680	724	183	141	93	146	114	11	11	53
28	6.3	417	1,600	479	435	124	89	120	87	10	176	156
29	5.6	310	840	602	------	135	130	132	68	10	264	998
30	6.0	158	450	336	------	408	121	780	56	9.1	93	694
31	8.6	------	332	257	------	277	------	1,740	------	9.4	49	------
TOTAL	334.7	3,157.3	8,987	10,428	5,582	10,386	6,705	12,674	11,053	633.5	1,376.8	12,056
MEAN	10.8	105	290	336	199	335	224	409	368	20.4	44.4	402
MAX	51	639	1,680	1,110	865	1,180	927	1,740	2,550	46	264	2,610
MIN	5.4	5.8	20	71	51	124	73	66	52	9.1	9.4	20
CFSM	.08	.76	2.10	2.43	1.44	2.43	1.62	2.96	2.67	.15	.32	2.91
IN.	.09	.85	2.42	2.81	1.50	2.80	1.81	3.42	2.98	.17	.37	3.25

CAL YR 1973 TOTAL 70,685.2 MEAN 194 MAX 2,020 MIN 3.6 CFSM 1.41 IN 19.05
WTR YR 1974 TOTAL 83,373.3 MEAN 228 MAX 2,610 MIN 5.4 CFSM 1.65 IN 22.47

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 6.8 miles (10.9 km) upstream from mouth.

DRAINAGE AREA.--228 mi^2 (591 km^2).

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 Department bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--31 years, 216 ft^3/s (6.117 m^3/s), 12.87 in/yr (327 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,930 ft^3/s (83.0 m^3/s) June 2, gage height, 15.06 ft (4.590 m); minimum daily, 7.3 ft^3/s (0.21 m^3/s) Oct. 26.
Period of record: Maximum discharge, 8,800 ft^3/s (249 m^3/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 Soil Conservation Service floodwater-retarding structures and surface-mined areas.

REVISIONS.--WSP 1335: Drainage area.

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	8.8	27	169	435	401	505	347	281	1,830	92	13	467
2	18	77	134	340	337	465	508	221	2,740	77	39	398
3	18	74	116	250	277	379	446	390	2,450	66	69	131
4	21	70	207	180	224	295	641	264	1,640	58	31	87
5	17	65	376	150	188	890	351	174	674	54	17	65
6	11	14	225	110	211	849	264	146	354	50	15	50
7	9.1	9.1	157	125	320	432	225	126	480	43	66	40
8	8.5	9.9	136	140	248	316	1,330	160	899	39	268	36
9	8.5	9.9	122	150	192	250	1,590	359	863	37	106	33
10	7.6	10	102	160	166	894	1,320	186	479	45	65	935
11	8.0	9.4	45	150	139	1,250	584	150	254	46	101	1,130
12	9.1	9.4	54	135	102	1,300	395	661	356	42	229	2,080
13	40	8.8	56	125	104	1,400	331	643	285	36	67	1,900
14	73	8.5	56	105	96	900	268	278	182	34	44	2,010
15	38	9.4	47	90	85	550	218	1,160	165	50	35	2,370
16	19	28	42	335	79	700	185	1,390	140	58	28	1,850
17	12	36	26	987	76	500	164	1,580	113	36	28	872
18	9.9	21	34	1,150	71	380	152	2,270	99	30	57	293
19	9.1	17	32	1,280	410	320	154	1,920	135	24	29	189
20	11	16	26	1,360	664	257	147	1,560	188	24	25	151
21	9.4	34	50	1,480	353	577	133	1,340	230	20	20	393
22	8.5	56	42	1,370	1,250	521	445	1,800	1,170	20	19	264
23	8.0	46	36	1,160	1,230	325	668	1,550	1,960	24	16	140
24	7.8	65	91	812	721	264	285	1,120	1,460	20	15	108
25	8.0	840	1,350	513	376	252	203	538	970	17	13	89
26	7.3	1,020	1,520	606	291	285	173	384	342	20	12	74
27	7.8	990	2,250	1,180	356	249	153	300	229	16	12	75
28	7.8	691	2,260	1,150	749	213	144	238	182	14	229	234
29	8.5	595	2,220	1,160	------	230	175	215	145	13	487	1,190
30	8.0	252	1,780	819	------	711	198	438	113	13	189	1,150
31	10	------	1,000	528	------	529	------	810	------	12	87	------
TOTAL	447.7	5,118.4	14,761	18,535	9,716	16,988	12,197	22,652	21,127	1,130	2,431	18,804
MEAN	14.4	171	476	598	347	548	407	731	704	36.5	78.4	627
MAX	73	1,020	2,260	1,480	1,250	1,400	1,590	2,270	2,740	92	487	2,370
MIN	7.3	8.5	26	90	71	213	133	126	99	12	12	33
CFSM	.06	.75	2.09	2.62	1.52	2.40	1.79	3.21	3.09	.16	.34	2.75
IN.	.07	.84	2.41	3.02	1.59	2.77	1.99	3.70	3.45	.18	.40	3.07

CAL YR 1973 TOTAL 115,682.9 MEAN 317 MAX 2,440 MIN 6.0 CFSM 1.39 IN 18.87
WTR YR 1974 TOTAL 143,907.1 MEAN 394 MAX 2,740 MIN 7.3 CFSM 1.73 IN 23.48

PEAK DISCHARGE (BASE, 2,200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0800	13.76	2,280	06-02	1200	15.06	2,930
05-18	0500	14.09	2,420	09-12	1800	14.22	2,470

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.

RAINAGE AREA.--4.94 mi^2 (12.79 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: May 1972 to September 1973 (fragmentary). October 1973 to current year.
CHEMICAL ANALYSES: October 1973 to current year.

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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.10	1.6	5.0	8.3	14	5.6	3.7	17	.26	0	50
2	.15	.06	.98	2.5	6.0	12	6.0	3.1	9.7	.18	1.1	11
3	.40	.05	.78	2.3	4.5	5.6	8.9	3.1	6.5	.18	6.5	7.2
4	.10	.04	4.8	2.9	3.5	5.7	7.0	2.3	4.7	.22	.16	6.8
5	.06	.12	3.3	3.0	2.7	13	6.0	1.6	4.4	.51	.08	21
6	.03	.06	3.0	2.5	3.0	5.5	6.3	1.3	4.7	.31	0	22
7	.02	.05	2.9	2.1	3.2	3.5	8.9	1.0	15	.22	16	30
8	0	.05	2.9	6.0	3.1	2.3	65	1.6	11	.15	4.7	36
9	0	.05	3.0	5.0	2.9	7.7	19	.98	8.9	.13	.26	50
10	0	.05	2.9	15	2.8	8.8	8.6	.67	5.6	.31	4.3	129
11	0	.08	3.0	12	4.5	46	7.2	.58	2.2	.15	14	96
12	.10	.10	2.9	5.0	3.0	27	5.8	.58	1.7	.06	8.6	91
13	2.7	.10	2.0	4.0	1.7	13	5.0	.37	2.3	.04	2.9	14
14	.32	.12	1.5	13	.71	8.1	3.4	1.9	1.6	.03	.83	5.6
15	.23	1.1	1.1	17	.74	8.9	3.1	12	.76	.02	.45	1.2
16	.10	.27	.90	23	.78	8.1	2.6	4.5	.37	.01	.37	.87
17	.08	.20	.80	23	.67	5.6	3.7	.51	.76	0	.22	.87
18	.07	.32	.78	31	.61	4.4	1.4	53	.58	0	56	.76
19	.06	.23	.76	22	8.8	4.4	.98	21	3.7	0	7.7	.67
20	.04	.20	4.0	42	5.2	3.7	.77	8.0	1.9	0	4.8	.87
21	.03	2.6	3.2	25	10	10	.78	30	1.9	0	2.5	.98
22	.02	.23	7.0	10	13	6.5	3.7	19	8.1	0	1.1	.67
23	.02	.27	17	12	6.8	4.7	2.4	25	4.4	0	.71	.58
24	.01	58	46	6.6	5.8	5.1	1.6	22	1.6	0	.49	.67
25	0	64	66	4.7	5.5	4.7	1.3	7.4	.87	0	.32	.67
26	0	32	69	49	11	3.7	1.2	4.0	.67	0	.21	24
27	0	11	34	24	9.5	1.7	.1	.98	.51	0	1.7	28
28	0	9.3	20	12	9.3	1.5	1.1	.76	.44	0	41	75
29	0	4.9	14	7.5	------	4.7	1.2	3.1	.37	0	16	59
30	0	3.4	12	7.0	------	3.7	6.3	80	.31	0	9.3	38
31	.20	------	10	7.7	------	5.0	------	62	------	0	15	------
TOTAL	4.80	189.05	342.10	403.8	137.61	258.6	195.93	376.03	122.54	2.78	217.30	802.41
MEAN	.15	6.30	11.0	13.0	4.91	8.34	6.53	12.1	4.08	.090	7.01	26.7
MAX	2.7	64	69	49	13	46	65	80	17	.51	56	129
MIN	0	.04	.76	2.1	.61	1.5	.77	.37	.31	0	0	.58
CFSM	.03	1.28	2.23	2.63	.99	1.69	1.32	2.45	.83	.02	1.42	5.40
IN.	.04	1.42	2.58	3.04	1.04	1.95	1.48	2.83	.92	.02	1.64	6.04

WTR YR 1974 TOTAL 3,052.95 MEAN 8.36 MAX 129 MIN 0 CFSM 1.69 IN 22.99

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-24	1000	10.10	334	01-26	1645	9.70	299	08-18	0300	10.20	343
11-25	0400	9.62	293	05-18	1700	10.24	347	09-10	0945	10.87	407
12-26	1530	9.28	266	05-30	2000	10.25	348	09-12	0415	11.34	454

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EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 454 ft^3/s (12.9 m^3/s) Sept. 10, gage height, 11.34 ft (3.456 m); no flow Oct. 8-11, 25-30, July 17-31, Aug. 1, 6.
Period of record: Maximum discharge, 454 ft^3/s (12.9 m^3/s) Sept. 10, 1974, gage height, 11.34 ft (3.456 m); no flow at times.

SPECIFIC CONDUCTANCE, Current year: Maximum, 15,700 micromhos Nov. 24; minimum, 952 micromhos May 31.
Period of record: Maximum, 15,700 micromhos Nov. 24, 1973; minimum, 952 micromhos May 31, 1974.

pH, Current year: Maximum, 5.2 units Mar. 1; minimum, 1.6 units Aug. 2.
Period of record: Maximum, 5.2 units Mar. 1, 1974; minimum, 1.6 units Aug. 2, 1974.

REMARKS.--Discharge records good above 5.0 ft^3/s (0.14 m^3/s) and poor below. Chemical records fair.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
NOV.										
26...	1034	--	--	--	3	687	3.2	.0	0	70
DEC.										
07...	1340	3.6	--	--	--	2200	3.4	--	--	2530
13...	1007	5.0	--	--	--	4550	4.2	--	--	1090
19...	1300	.0	.76	--	--	2400	5.1	--	--	1240
21...	1315	-.8	--	30	--	3180	2.3	.0	0	943
JAN.										
04...	1350	-.3	--	--	--	3600	4.0	--	--	2280
07...	1230	3.0	2.1	20	--	3500	3.0	.0	0	2040
17...	1402	9.0	--	--	--	1160	5.3	--	--	367
23...	1330	8.0	12	100	--	1860	3.3	.0	0	596
FEB.										
05...	1300	6.0	2.7	6	--	3200	3.3	.0	0	1940
13...	1345	2.0	--	--	--	2050	5.3	--	--	1090
21...	1000	6.0	4.0	--	--	1340	4.4	--	--	546
27...	1400	8.0	--	--	--	2100	5.2	--	--	993
MAR.										
11...	1355	11.0	--	--	--	475	7.2	--	--	50
11...	1645	12.0	44	200	--	540	5.6	.0	0	79
20...	1356	12.0	--	--	--	1550	5.3	--	--	695
28...	1145	12.0	3.6	--	--	1560	3.9	--	--	596
APR.										
03...	1000	14.0	--	--	--	1700	5.4	--	--	353
08...	0930	8.0	--	--	--	465	6.3	--	--	30
10...	1300	16.0	8.8	--	--	1050	3.6	--	--	397
15...	1500	13.0	2.9	200	--	1890	3.6	.0	0	894
17...	1410	20.0	--	--	--	2640	5.2	--	--	745
29...	1200	24.0	1.2	--	--	1510	3.7	--	--	546
MAY										
02...	1005	15.0	--	--	--	1700	3.6	--	--	844
13...	--	22.0	--	--	--	800	3.9	--	--	233
15...	0945	17.0	4.5	100	--	1380	3.8	.0	0	437
30...	1110	23.0	--	--	--	650	5.1	--	--	258
31...	0950	19.0	--	--	--	380	5.9	--	--	74
31...	1350	21.0	40	--	--	720	4.9	--	--	104
JUNE										
12...	1245	24.0	1.7	--	--	1160	4.4	--	--	382
13...	1355	22.0	--	--	--	800	5.2	--	--	--
17...	1630	20.5	.91	60	--	920	4.6	.0	0	--
JULY										
02...	1400	31.0	--	--	--	280	5.6	--	--	--

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY										
11...	1330	27.0	.12	--	3110	3.0	--	--	1590	--
AUG.										
02...	1400	--	--	--	2000	3.5	--	--	4070	--
08...	0935	20.0	--	--	1000	3.5	--	--	1140	--
22...	1515	27.5	1.1	60	2920	2.9	.0	0	1340	0
28...	1435	25.0	--	--	525	5.3	--	--	228	--
SEP.										
04...	1700	20.0	2.3	100	1450	3.3	.0	0	695	0
10...	1025	20.0	--	--	170	5.7	--	--	35	--
12...	1100	21.5	63	300	340	5.8	.0	0	84	0
26...	1415	12.0	.68	200	2670	3.0	.0	0	1090	0

03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	SUS-PENDED SOLIDS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)
NOV.										
26...	0	0	--	140	140	47	8.0	190	--	1.4
DEC.										
07...	--	--	--	--	--	--	--	1400	345	51
13...	--	--	--	--	--	--	--	2900	99	22
19...	--	--	--	--	--	--	--	1500	148	25
21...	0	0	2450	--	--	10	23	1300	466	19
JAN.										
04...	--	--	--	--	--	--	--	2500	43	46
07...	0	0	4320	540	540	120	19	2400	65	41
17...	--	--	--	--	--	--	--	610	437	7.4
23...	0	0	2310	250	250	49	15	750	493	12
FEB.										
05...	0	0	418	860	860	14	19	2300	241	39
13...	--	--	--	--	--	--	--	1300	427	22
21...	--	--	--	--	--	--	--	800	652	11
27...	--	--	--	--	--	--	--	1400	981	20
MAR.										
11...	--	--	--	--	--	--	--	220	97	1.0
11...	0	0	130	170	170	41	11	230	609	1.6
20...	--	--	--	--	--	--	--	980	286	14
28...	--	--	--	--	--	--	--	970	384	12
APR.										
03...	--	--	--	--	--	--	--	620	2130	7.1
08...	--	--	--	--	--	--	--	150	610	.6
10...	--	--	--	--	--	--	--	680	236	8.0
15...	0	0	2380	340	340	69	24	1200	96	18
17...	--	--	--	--	--	--	--	1100	333	15
29...	--	--	--	--	--	--	--	940	314	11
MAY										
02...	--	--	--	--	--	--	--	1200	446	17
13...	--	--	--	--	--	--	--	530	239	4.7
15...	0	--	1890	340	340	82	15	710	362	8.8
30...	--	--	--	--	--	--	--	530	473	5.2
31...	--	--	--	--	--	--	--	210	652	1.5
31...	--	--	--	--	--	--	--	240	665	2.1
JUNE										
12...	--	--	--	--	--	--	--	630	264	7.7
13...	--	--	--	--	--	--	--	640	268	--
17...	0	--	992	300	300	72	15	440	54	--
JULY										
02...	--	--	--	--	--	--	--	350	78	--

DATE	CAR-BONATE (CO3) (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	SUS-PENDED SOLIDS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)
JULY									
11...	--	--	--	--	--	--	2000	92	32
AUG.									
02...	--	--	--	--	--	--	6300	952	82
08...	--	--	--	--	--	--	1500	195	23
22...	0	3560	480	480	130	12	1900	309	27
28...	--	--	--	--	--	--	420	885	4.6
SEP.									
04...	0	1650	300	300	72	11	900	304	14
10...	--	--	--	--	--	--	95	2170	.7
12...	0	681	120	120	34	15	150	717	1.7
26...	0	2680	490	490	98	17	1200	206	22

03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	6110	4140	---	---	---	---	---	---
2	---	---	---	---	6110	3460	---	---	---	---	---	---
3	---	---	---	---	6290	3820	---	---	---	---	---	---
4	---	---	---	---	6930	3910	---	---	---	---	---	---
5	---	---	---	---	7790	4010	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	7630	3110	---	---	---	---	---	---	---	---
22	---	---	8970	3610	---	---	---	---	---	---	---	---
23	---	---	13600	8750	---	---	---	---	---	---	---	---
24	---	---	15700	3150	---	---	---	---	---	---	---	---
25	---	---	6150	3870	---	---	---	---	---	---	---	---
26	---	---	6090	3610	---	---	---	---	---	---	---	---
27	---	---	3740	3390	---	---	---	---	---	---	---	---
28	---	---	4920	3430	---	---	---	---	---	---	---	---
29	---	---	5260	4220	---	---	---	---	---	---	---	---
30	---	---	5260	3250	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3910	3460	3650	2890	3590	3060	---	---	---	---
2	---	---	4180	3660	3870	2800	3500	2990	---	---	---	---
3	---	---	4630	4160	3910	2590	3340	2920	---	---	---	---
4	---	---	4520	4140	3930	2830	3290	2940	---	---	---	---
5	---	---	4440	4180	4180	3130	3720	2960	---	---	---	---
6	---	---	4270	4100	4390	3430	3590	2990	---	---	---	---
7	---	---	4220	3930	---	---	3460	2990	---	---	---	---
8	---	---	8400	4080	---	---	3290	2890	---	---	---	---
9	---	---	7920	7460	---	---	---	---	---	---	---	---
10	---	---	8180	7320	---	---	---	---	---	---	---	---
11	---	---	7680	6970	---	---	---	---	---	---	---	---
12	---	---	7460	6040	3680	2960	---	---	---	---	---	---
13	---	---	6500	5680	3780	3320	---	---	---	---	---	---
14	---	---	6370	4790	4330	3460	---	---	---	---	---	---
15	---	---	5010	3220	4610	3520	---	---	---	---	---	---
16	---	---	3870	3590	3910	3570	---	---	---	---	---	---
17	---	---	4840	3520	4120	2360	---	---	---	---	---	---
18	---	---	4610	3700	4310	3150	---	---	---	---	---	---
19	---	---	4600	3530	6660	3570	---	---	---	---	---	---
20	---	---	4270	3680	4460	3680	---	---	---	---	---	---
21	---	---	4120	2900	4650	3650	---	---	---	---	---	---
22	---	---	4180	3520	4800	4200	---	---	---	---	---	---
23	---	---	4480	3430	4480	3530	---	---	---	---	---	---
24	---	---	3950	3240	3950	3240	---	---	---	---	---	---
25	---	---	3610	3110	3820	3130	---	---	---	---	---	---
26	---	---	3800	3010	3530	3100	---	---	---	---	---	---
27	---	---	3740	3040	3680	3060	---	---	---	---	---	---
28	---	---	4010	3290	3530	3130	---	---	---	---	---	---
29	3130	1690	4390	3650	3550	2960	---	---	---	---	---	---
30	8910	3130	4440	3720	3500	3110	---	---	---	---	---	---
31	---	---	4390	952	---	---	---	---	---	---	---	---
MONTH	---	---	8400	952	6660	2360	---	---	---	---	---	---

03342800 South Fork Smalls Creek at Bruceville, Ind.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	2.4	2.3	2.4	2.3	2.4	2.4	5.2	4.6
2	---	---	---	---	2.3	2.3	2.3	2.2	2.5	2.4	4.6	3.6
3	---	---	---	---	2.3	2.3	2.3	2.3	2.4	2.4	3.6	3.2
4	---	---	---	---	2.4	2.3	2.3	2.2	2.6	2.4	3.2	3.0
5	---	---	---	---	2.5	2.3	2.3	2.2	---	---	3.2	2.9
6	---	---	---	---	2.3	2.3	2.3	2.3	3.0	2.5	2.9	2.7
7	---	---	---	---	2.3	2.3	2.4	2.3	3.1	2.7	2.7	2.6
8	---	---	---	---	2.4	2.3	2.4	2.3	3.0	2.7	2.6	2.5
9	---	---	---	---	2.3	2.3	2.4	2.3	2.9	2.7	2.6	2.5
10	---	---	---	---	2.3	2.3	2.6	2.3	2.8	2.7	2.7	2.6
11	---	---	---	---	2.4	2.3	2.6	2.5	2.9	2.7	2.8	2.7
12	---	---	---	---	2.4	2.4	2.6	2.5	2.7	2.6	2.8	2.7
13	---	---	---	---	2.4	2.3	2.5	2.4	3.8	2.6	2.9	2.8
14	---	---	---	---	2.3	2.3	2.5	2.4	3.6	3.4	3.0	2.8
15	---	---	---	---	2.4	2.3	2.7	2.4	4.0	3.1	3.0	2.8
16	---	---	---	---	2.4	2.3	2.8	2.5	3.2	3.1	3.0	2.9
17	---	---	---	---	2.4	2.3	3.1	2.6	3.2	2.9	3.1	3.0
18	---	---	---	---	2.4	2.4	2.7	2.5	2.9	2.6	3.2	3.1
19	---	---	---	---	2.4	2.4	3.4	2.4	2.6	2.5	3.1	3.0
20	---	---	---	---	2.4	2.3	3.1	2.6	2.6	2.4	3.3	3.1
21	---	---	3.1	2.9	2.4	2.3	3.2	2.8	2.5	2.3	3.3	3.2
22	---	---	3.1	2.9	2.4	2.3	2.8	2.5	2.4	2.3	3.5	3.2
23	---	---	3.0	2.8	2.4	2.4	2.9	2.5	2.4	2.3	3.4	3.2
24	---	---	2.8	2.2	2.4	2.4	2.8	2.6	2.3	2.3	4.1	3.3
25	---	---	2.6	2.5	2.5	2.4	2.7	2.5	2.4	2.2	4.2	3.9
26	---	---	2.6	2.5	2.4	2.3	2.6	2.4	2.4	2.2	4.5	4.1
27	---	---	2.5	2.4	2.5	2.4	2.9	2.5	5.0	2.0	4.5	3.6
28	---	---	2.4	2.4	2.5	2.3	2.7	2.5	5.0	4.2	4.0	3.6
29	---	---	2.4	2.4	2.4	2.3	2.5	2.4	---	---	3.7	3.5
30	---	---	2.4	2.3	2.4	2.3	2.5	2.4	---	---	3.9	3.6
31	---	---	---	---	2.4	2.3	2.5	2.4	---	---	4.0	3.7
MONTH	---	---	---	---	2.5	2.3	3.4	2.2	5.0	2.0	5.2	2.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.8	3.6	3.2	2.9	3.3	3.3	2.5	2.4	---	---	2.7	2.6
2	3.9	3.7	2.9	2.8	3.3	3.1	2.5	2.4	2.1	1.6	2.7	2.7
3	3.8	3.6	2.9	2.7	3.1	2.7	2.5	2.4	2.9	1.9	2.7	2.7
4	3.8	3.6	2.9	2.5	2.7	2.6	2.5	2.4	3.0	1.9	2.8	2.6
5	3.9	3.8	2.8	2.4	2.6	2.5	2.5	2.4	3.0	1.9	2.6	2.5
6	4.0	3.7	2.6	2.4	2.5	2.5	2.5	2.5	2.9	1.8	2.5	2.5
7	3.8	3.7	2.6	2.4	2.5	2.5	2.6	2.5	2.7	1.8	2.5	2.5
8	3.9	3.8	2.5	2.2	2.5	2.5	2.6	2.5	2.7	1.8	2.5	2.5
9	4.0	3.8	2.3	2.3	2.5	2.5	2.6	2.6	2.7	2.7	2.5	2.5
10	3.9	3.7	2.4	2.3	2.5	2.5	2.6	2.4	3.5	1.9	2.5	2.5
11	3.8	3.6	2.4	2.3	2.5	2.4	2.4	2.4	4.2	2.6	2.6	2.5
12	3.7	3.6	2.4	2.3	3.3	2.4	2.4	2.4	4.1	2.1	2.6	2.5
13	3.7	3.6	2.7	2.3	3.3	3.2	2.5	2.4	4.0	2.6	2.5	2.5
14	3.7	3.6	2.9	2.4	3.3	2.9	2.5	2.4	2.6	2.6	2.5	2.5
15	3.8	3.7	3.5	2.9	2.9	2.7	2.6	2.4	2.6	2.6	2.5	2.5
16	---	---	3.3	3.3	2.7	2.7	2.6	2.5	2.6	2.6	2.5	2.5
17	---	---	3.3	3.1	3.1	2.5	---	---	2.6	2.6	2.5	2.5
18	---	---	3.3	3.2	2.5	2.5	---	---	2.6	2.5	2.6	2.5
19	---	---	3.3	3.2	2.5	2.4	---	---	2.6	2.6	2.5	2.5
20	---	---	3.2	3.1	2.5	2.4	---	---	2.6	2.6	---	---
21	---	---	3.2	2.9	2.4	2.4	---	---	2.6	2.6	---	---
22	---	---	3.0	2.9	2.4	2.4	---	---	2.6	2.5	---	---
23	---	---	2.9	2.7	2.4	2.3	---	---	2.6	2.5	---	---
24	---	---	2.8	2.7	2.4	2.3	---	---	2.5	2.5	---	---
25	---	---	2.7	2.7	2.4	2.3	---	---	2.5	2.5	---	---
26	---	---	2.7	2.6	2.4	2.3	---	---	2.5	2.5	2.6	2.5
27	---	---	2.6	2.6	2.4	2.4	---	---	2.5	2.5	2.5	2.5
28	---	---	2.6	2.6	2.5	---	---	---	2.6	2.5	2.5	2.5
29	3.9	3.4	2.6	2.5	2.4	2.4	---	---	2.6	2.6	2.5	2.5
30	3.4	2.7	2.7	2.5	2.5	2.4	---	---	2.6	2.6	2.6	2.5
31	---	---	3.3	2.6	---	---	---	---	2.6	2.6	---	---
MONTH	---	---	3.5	2.2	3.3	2.3	---	---	4.2	1.6	2.8	2.5

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^2 (35,498 km^2).

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 U.S. Weather Bureau.

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.--45 years, 11,700 ft^3/s (331.4 m^3/s), 11.60 in/yr (295 mm/yr).

EXTREMES.--Current year: Maximum discharge, 73,800 ft^3/s (2,090 m^3/s) Jan. 29, gage height, 25.26 ft (7.699 m); minimum daily, 3,660 ft^3/s (104 m^3/s) Oct. 29, 30, Aug. 27.

Period of record: Maximum discharge, 189,000 ft^3/s (5,350 m^3/s) May 22, 23, 1943, gage height, 29.33 ft (8.940 m), present datum; minimum daily, 770 ft^3/s (21.8 m^3/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^3/s (7,220 m^3/s).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,700	3,850	22,400	47,100	63,800	36,900	27,300	13,500	50,000	36,000	4,440	7,800
2	3,790	4,050	22,800	47,600	59,900	37,600	29,500	13,600	48,800	24,000	4,400	7,000
3	4,000	4,250	22,600	48,000	56,200	36,800	31,200	14,000	46,500	19,800	4,710	6,500
4	4,050	4,530	22,000	47,300	52,700	35,600	33,400	13,800	39,000	15,700	4,400	5,900
5	4,330	4,770	22,300	45,600	49,000	34,700	35,800	13,000	33,000	13,400	4,290	5,190
6	4,880	4,820	23,100	42,000	45,500	34,300	37,400	12,200	27,000	12,100	4,180	4,990
7	4,990	4,620	23,300	37,200	42,600	33,900	38,300	11,400	23,000	11,700	4,270	4,730
8	5,130	4,440	22,800	33,100	39,800	33,700	40,800	10,900	21,000	11,300	5,190	4,420
9	5,040	4,310	21,400	29,400	38,000	33,600	44,200	11,200	20,000	10,900	4,250	4,200
10	4,860	4,200	19,100	25,700	36,200	34,700	44,600	12,300	20,600	10,100	4,000	5,000
11	4,660	4,090	16,600	23,500	34,400	36,500	43,500	13,400	19,500	9,740	4,000	7,000
12	4,510	4,030	14,600	22,500	32,800	38,100	42,300	15,300	18,700	9,410	4,200	12,500
13	4,490	3,980	12,800	21,400	31,500	40,400	41,300	16,800	17,400	9,120	4,290	19,000
14	4,600	3,920	11,400	19,600	30,300	41,200	39,600	16,300	15,700	8,690	5,320	14,000
15	4,530	3,940	10,600	17,000	29,100	40,900	37,100	18,500	15,200	8,400	5,590	11,000
16	4,510	3,870	10,200	15,600	28,200	40,200	34,900	26,900	14,900	8,020	5,100	9,000
17	4,770	3,870	9,790	17,600	27,800	38,900	33,100	27,400	17,500	7,870	4,820	7,800
18	4,800	4,090	8,980	21,500	27,600	37,000	31,300	30,400	19,500	7,300	5,390	7,000
19	4,620	4,310	8,470	26,600	28,100	34,800	29,600	32,700	18,000	6,900	5,130	6,200
20	4,400	4,440	8,160	30,400	29,300	32,600	27,800	34,200	15,800	6,560	5,080	5,980
21	4,270	4,640	7,460	33,400	29,100	30,900	25,600	36,800	15,100	6,070	4,930	6,920
22	4,220	4,880	6,830	36,400	29,800	29,000	24,500	42,800	17,200	6,190	4,510	7,040
23	4,000	5,080	6,300	41,300	31,100	26,100	25,300	49,000	25,600	5,960	4,160	5,680
24	3,890	5,740	5,520	47,400	31,900	22,800	25,600	52,900	30,200	5,540	3,940	4,820
25	3,850	8,640	9,770	53,600	32,300	20,400	23,100	54,200	32,600	5,300	3,940	4,400
26	3,810	14,400	22,200	61,000	33,000	19,400	19,400	54,000	34,600	5,190	3,830	4,140
27	3,770	19,200	30,800	69,700	33,900	18,800	16,400	52,800	37,700	5,130	3,660	4,160
28	3,720	20,900	34,000	73,300	35,400	18,200	14,700	51,100	41,900	4,990	5,370	4,660
29	3,660	21,500	36,900	73,500	------	18,200	14,200	48,700	44,100	4,820	9,000	8,470
30	3,660	21,900	40,800	71,200	------	20,400	13,600	46,100	42,700	4,900	10,000	6,880
31	3,770	------	45,400	67,900	------	24,600	------	46,800	------	4,750	6,400	------
TOTAL	133,280	211,260	579,380	1,247.4M	1,039.3M	981,200	925,400	893,000	822,800	305,850	152,790	212,380
MEAN	4,299	7,042	18,690	40,240	37,120	31,650	30,850	28,810	27,430	9,866	4,929	7,079
MAX	5,130	21,900	45,400	73,500	63,800	41,200	44,600	54,200	50,000	36,000	10,000	19,000
MIN	3,660	3,850	5,520	15,600	27,600	18,200	13,600	10,900	14,900	4,750	3,660	4,140
CFSM	.31	.51	1.36	2.94	2.71	2.31	2.25	2.10	2.00	.72	.36	.52
IN.	.36	.57	1.57	3.39	2.82	2.66	2.51	2.42	2.23	.83	.41	.58

CAL YR 1973 TOTAL 6,447,600 MEAN 17,660 MAX 51,800 MIN 3,370 CFSM 1.29 IN 17.50
WTR YR 1974 TOTAL 7,504,040 MEAN 20,560 MAX 73,500 MIN 3,660 CFSM 1.50 IN 20.37

03346000 North Fork Embarras River near Oblong, Ill.

LOCATION.--Lat 39°00'01", long 87°56'42", in NW¼SE¼ 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^2 (824 km^2), revised.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft (139.05 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 (0.61 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.--34 years, 251 ft^3/s (7.108 m^3/s), 10.69 in/yr (272 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,600 ft^3/s (187 m^3/s) Dec. 27, gage height, 17.89 ft (5.453 m); maximum gage height, 18.55 ft (5.654 m) Sept. 13; minimum discharge, 3.6 ft^3/s (0.102 m^3/s) Oct. 25.
Period of record: Maximum discharge, 27,100 ft^3/s (767 m^3/s) Jan. 4, 1950, gage height, 24.38 ft (7.431 m), present datum, from rating curve extended above 16,000 ft^3/s (453 m^3/s); no flow for many days in 1953-54, 1964.

REMARKS.--Records fair except those for winter periods, which are poor.

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	4.5	7.7	143	250	351	1,610	477	241	1,500	103	8.9	1,400
2	6.8	13	106	200	279	746	994	185	800	89	71	800
3	7.4	19	85	170	243	405	1,080	383	500	77	64	240
4	10	16	345	140	204	336	1,650	220	300	67	18	156
5	10	13	1,250	120	172	1,310	969	134	350	61	13	118
6	18	13	581	110	175	1,630	381	106	453	60	11	91
7	17	12	212	110	587	497	321	86	616	47	31	73
8	12	12	142	100	419	323	1,780	104	400	41	70	60
9	9.9	11	113	100	233	374	2,710	237	250	37	13	75
10	8.5	11	95	170	189	1,210	1,130	128	180	46	15	706
11	7.2	11	80	198	164	1,780	384	88	140	114	96	318
12	6.2	12	66	140	146	2,480	306	210	135	61	28	2,690
13	8.7	12	70	110	146	3,170	289	123	138	38	22	5,580
14	10	12	74	90	148	1,870	240	79	576	29	115	4,140
15	14	11	76	70	137	490	216	1,330	1,330	25	32	2,390
16	12	12	60	60	126	808	183	2,310	987	27	16	348
17	9.7	18	50	800	120	855	163	1,380	137	21	11	178
18	8.3	15	45	2,570	115	412	151	2,900	90	18	11	142
19	7.2	16	40	3,230	365	319	141	3,170	176	16	9.0	121
20	6.1	15	37	3,550	1,020	265	136	3,210	264	16	8.1	144
21	5.6	17	34	3,990	524	354	127	3,630	153	16	7.5	781
22	5.0	27	32	3,600	1,830	349	910	2,780	890	15	7.0	209
23	4.6	41	30	2,240	2,270	248	2,410	1,500	2,620	16	6.7	107
24	4.4	31	50	1,450	711	210	1,060	449	3,440	15	6.4	80
25	4.0	643	1,710	610	329	202	277	250	2,830	15	6.3	68
26	4.4	1,390	4,420	482	272	273	199	150	532	13	6.9	61
27	4.4	1,070	6,290	1,380	359	346	163	120	216	12	41	60
28	4.4	535	4,820	1,980	1,300	288	191	100	170	11	260	172
29	4.9	367	2,790	1,950	------	536	189	150	141	10	1,300	1,620
30	5.0	213	885	1,410	------	1,740	179	500	119	9.5	1,970	2,300
31	6.2	------	390	512	------	1,600	------	3,000	------	8.9	2,070	------
TOTAL	246.4	4,595.7	25,121	31,892	12,934	27,036	19,406	29,253	20,433	1,134.4	6,344.8	25,228
MEAN	7.95	153	810	1,029	462	872	647	944	681	36.6	205	841
MAX	18	1,390	6,290	3,990	2,270	3,170	2,710	3,630	3,440	114	2,070	5,580
MIN	4.0	7.7	30	60	115	202	127	79	90	8.9	6.3	60
CFSM	.02	.48	2.54	3.23	1.45	2.73	2.03	2.96	2.13	.11	.64	2.64
IN.	.03	.54	2.93	3.72	1.51	3.15	2.26	3.41	2.38	.13	.74	2.94

CAL YR 1973 TOTAL 154,790.2 MEAN 424 MAX 6,290 MIN 4.0 CFSM 1.33 IN 18.05
WTR YR 1974 TOTAL 203,624.3 MEAN 558 MAX 6,290 MIN 4.0 CFSM 1.75 IN 23.75

PEAK DISCHARGE (BASE, 4,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0400	17.89	6,600	09-13	0415	18.55	6,450
01-21	1530	16.72	4,110				

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^2 (43.5 km^2).

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^3). Reservoir is used for low-flow augmentation and recreation. Reservoir was filled for the first time in the spring of 1963.

COOPERATION.--Records furnished by Muncie Water Works Company.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	989.2	20,856	-
Oct. 31	988.5	20,000	-856
Nov. 30	989.2	20,850	+850
Dec. 31	990.0	21,850	+1,000
Calendar year 1973	-	-	0
Jan. 31	990.6	22,620	+770
Feb. 28	990.3	22,230	-390
Mar. 31	990.5	22,490	+260
Apr. 30	990.0	21,850	-640
May 31	990.0	21,850	0
June 30	990.2	22,100	+250
July 31	989.7	21,720	-380
Aug. 31	989.7	21,720	0
Sept. 30	990.0	21,850	+130
Water year 1974	-	-	+994

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^3/s

1973				1974									
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
19.9	18.1	16.7	----	19.4	19.1	19.3	19.4	19.2	19.7	21.3	20.4	20.2	19.4

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, and 6 miles (10 km) upstream from Bell Creek.

DRAINAGE AREA.--241 mi^2 (624 km^2).

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.--43 years (1931 to current year), 208 ft^3/s (5.891 m^3/s), 11.71 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) Jan. 19, gage height, 8.09 ft (2.466 m); minimum daily, 7.3 ft^3/s (0.21 m^3/s) Aug. 2.

Period of record: Maximum discharge, 14,300 ft^3/s (405 m^3/s) Apr. 21, 1964; maximum gage height, 21.07 ft (6.422 m) Jan. 15, 1937, present datum; minimum daily discharge, 1.1 ft^3/s (0.031 m^3/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^3/s (566 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	62	207	290	386	540	773	105	151	298	7.6	121
2	30	59	158	230	332	426	576	101	114	163	7.3	106
3	28	46	128	193	277	364	549	108	90	109	11	102
4	80	39	118	165	228	314	1,070	104	74	96	30	118
5	67	34	133	148	197	982	919	94	70	85	27	78
6	56	27	116	130	207	883	598	81	81	80	16	54
7	47	25	93	117	349	566	449	76	76	69	13	42
8	41	24	83	122	298	422	453	104	245	61	12	38
9	35	23	80	138	231	352	617	103	323	51	14	30
10	34	26	74	120	197	293	747	87	199	45	17	25
11	33	27	66	105	175	240	544	92	119	41	17	26
12	32	26	64	95	169	220	422	218	87	41	15	59
13	51	23	74	90	269	190	378	180	72	38	16	30
14	50	21	100	105	313	168	322	137	63	30	22	39
15	43	34	89	118	235	177	266	224	65	27	32	33
16	38	50	78	204	200	314	216	181	59	23	29	27
17	36	56	67	1,140	178	277	190	163	49	19	23	19
18	34	45	60	1,850	158	228	174	200	47	15	21	17
19	34	37	57	2,930	261	200	161	183	45	17	59	16
20	34	34	62	2,170	604	176	155	157	46	19	56	16
21	36	37	55	1,730	421	169	154	126	98	19	34	12
22	33	40	50	1,140	1,170	163	146	112	125	14	22	19
23	32	40	48	1,290	1,060	151	140	108	695	19	15	15
24	33	45	56	1,020	581	145	125	102	454	21	11	11
25	31	265	693	653	402	128	114	92	254	16	13	11
26	32	623	2,250	566	343	136	110	84	181	21	11	10
27	35	523	2,160	1,550	277	169	111	78	139	25	8.9	10
28	38	382	1,300	1,300	391	173	112	68	113	27	27	11
29	42	523	704	949	------	567	100	169	104	27	104	27
30	47	325	486	668	------	1,320	105	373	118	12	158	19
31	54	------	365	500	------	1,360	------	208	------	8.6	80	------
TOTAL	1,246	3,521	10,074	21,826	9,909	11,813	10,796	4,218	4,356	1,536.6	928.8	1,141
MEAN	40.2	117	325	704	354	381	360	136	145	49.6	30.0	38.0
MAX	80	623	2,250	2,930	1,170	1,360	1,070	373	695	298	158	121
MIN	28	21	48	90	158	128	100	68	45	8.6	7.3	10
CFSM	.17	.49	1.35	2.92	1.47	1.58	1.49	.56	.60	.21	.12	.16
IN.	.19	.54	1.55	3.37	1.53	1.82	1.67	.65	.67	.24	.14	.18

CAL YR 1973 TOTAL 100,496.0 MEAN 275 MAX 4,580 MIN 21 CFSM 1.14 IN 15.51
WTR YR 1974 TOTAL 81,365.4 MEAN 223 MAX 2,930 MIN 7.3 CFSM .93 IN 12.56

PEAK DISCHARGE (BASE, 2,500 FT^3/S).--Jan. 19 (0800) 3,000 ft^3/s (8.09 ft).

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, and 4.2 miles (6.8 km) southeast of courthouse in Muncie.

DRAINAGE AREA.--35.5 mi^2 (91.9 km^2).

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.--20 years, 34.5 ft^3/s (0.977 m^3/s), 13.20 in/yr (335 mm/yr).

EXTREMES.--Current year: Maximum discharge, 478 ft^3/s (13.5 m^3/s) July 1, gage height, 7.39 ft (2.252 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Oct. 22-28, Nov. 10-14, 19, 20, 23.
Period of record: Maximum discharge, 1,780 ft^3/s (50.4 m^3/s) Apr. 21, 1964, gage height, 13.96 ft (4.255 m); minimum daily, 5.6 ft^3/s (0.16 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	24	31	42	59	59	89	35	32	268	17	46
2	19	18	28	38	54	50	79	34	30	72	17	32
3	18	16	26	37	49	46	173	35	29	49	18	45
4	24	15	29	34	44	44	184	33	28	42	18	31
5	19	15	29	32	43	161	94	32	28	38	18	25
6	17	14	23	31	52	78	75	32	29	34	17	23
7	16	14	21	29	65	63	65	31	28	31	17	22
8	16	14	20	29	49	53	99	36	30	29	17	20
9	16	14	20	28	43	49	111	34	28	28	16	20
10	15	13	19	28	39	43	94	32	28	28	16	19
11	15	13	17	27	37	41	71	34	27	27	17	22
12	14	13	17	25	40	40	65	55	26	25	18	28
13	18	13	23	28	45	37	58	40	25	24	16	23
14	17	13	25	24	43	36	54	36	25	23	16	21
15	15	18	22	28	38	39	49	57	28	23	16	20
16	15	16	20	50	37	51	46	44	25	22	16	19
17	14	14	18	138	35	43	44	41	24	22	19	19
18	14	14	17	271	34	40	42	43	23	21	34	18
19	14	13	18	275	53	38	42	70	23	21	43	18
20	14	13	20	151	55	36	40	58	23	21	23	18
21	14	14	19	202	49	36	38	43	25	20	20	18
22	13	14	17	111	127	33	39	38	55	19	18	18
23	13	13	15	163	68	33	38	36	180	20	18	18
24	13	17	15	101	54	32	36	35	64	20	18	18
25	13	83	219	77	46	31	36	32	49	19	18	18
26	13	72	245	94	42	34	35	31	44	18	17	18
27	13	60	222	254	43	36	35	31	37	18	18	19
28	13	56	106	124	61	34	34	32	33	18	28	20
29	15	52	74	105	------	154	34	39	31	18	58	23
30	19	38	58	79	------	247	36	37	83	17	37	21
31	17	------	50	67	------	151	------	34	------	18	25	------
TOTAL	484	716	1,483	2,722	1,404	1,868	1,935	1,200	1,140	1,053	664	680
MEAN	15.6	23.9	47.8	87.8	50.1	60.3	64.5	38.7	38.0	34.0	21.4	22.7
MAX	24	83	245	275	127	247	184	70	180	268	58	46
MIN	13	13	15	24	34	31	34	31	23	17	16	18
CFSM	.44	.67	1.35	2.47	1.41	1.70	1.82	1.09	1.07	.96	.60	.64
IN.	.51	.75	1.55	2.85	1.47	1.96	2.03	1.26	1.19	1.10	.70	.71

CAL YR 1973 TOTAL 16,419 MEAN 45.0 MAX 461 MIN 13 CFSM 1.27 IN 17.21
WTR YR 1974 TOTAL 15,349 MEAN 42.1 MAX 275 MIN 13 CFSM 1.19 IN 16.08

PEAK DISCHARGE (BASE, 400 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	2330	6.90	423	07-01	0315	7.39	478
04-03	2130	6.81	413				

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.

DRAINAGE AREA.--406 mi^2 (1,052 km^2).

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 U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Anderson.

GAGE.--Nonrecording gage and concrete dam. Gage read twice daily. Datum of gage is 825.02 ft (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.--44 years, 374 ft^3/s (10.59 m^3/s), 12.51 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,090 ft^3/s (116 m^3/s) Jan. 19, gage height, 10.82 ft (3.298 m); minimum daily, 67 ft^3/s (1.90 m^3/s) Sept. 24, 25.

Period of record: Maximum discharge, 18,700 ft^3/s (530 m^3/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^3/s (0.26 m^3/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 U.S. Weather Bureau at site then in use, discharge, 28,000 ft^3/s (793 m^3/s).

REMARKS.--Records fair. The city of Anderson diverts water for its municipal supply above the gage.

COOPERATION.--Gage readings furnished by city of Anderson.

REVISIONS (WATER YEARS).--WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	151	280	520	740	850	1,540	271	364	1,570	116	177
2	118	141	275	440	580	710	1,160	268	316	814	99	185
3	109	134	240	380	470	600	1,010	290	274	393	97	229
4	158	122	210	335	425	540	1,850	253	284	313	116	238
5	193	110	225	295	380	958	1,600	244	265	275	118	220
6	151	97	205	258	345	1,570	1,100	238	313	253	113	166
7	129	97	173	225	509	969	850	223	296	220	105	158
8	103	97	150	215	534	737	850	247	483	188	95	150
9	116	97	135	250	440	625	1,100	277	667	166	95	143
10	107	97	123	235	360	513	1,300	290	447	166	97	140
11	97	93	115	215	315	450	1,050	265	365	164	93	170
12	105	85	111	188	305	400	880	539	320	161	87	255
13	185	83	180	170	470	360	770	496	285	161	85	170
14	158	87	211	188	530	320	650	400	268	158	87	200
15	131	136	182	218	480	320	580	526	277	148	127	170
16	122	131	160	250	380	480	520	552	247	143	127	150
17	118	129	143	1,580	325	492	470	408	241	139	125	130
18	113	118	128	3,120	290	439	415	579	229	109	131	115
19	107	120	122	3,920	439	396	370	687	229	127	313	103
20	105	110	138	3,510	950	367	345	611	205	127	174	98
21	105	116	120	2,770	863	367	330	435	340	131	141	80
22	107	103	110	1,840	1,110	326	380	375	296	134	127	74
23	105	113	102	2,110	1,860	305	370	346	1,520	139	107	69
24	107	125	130	1,790	1,050	280	320	319	969	129	101	67
25	103	459	991	1,190	643	260	295	296	500	93	80	67
26	101	1,140	3,040	1,450	570	250	275	287	492	101	83	71
27	109	760	3,260	2,090	463	268	260	265	375	116	139	91
28	122	455	2,240	2,270	590	300	268	260	306	116	241	97
29	129	752	1,430	1,890	------	814	280	400	259	116	211	97
30	214	570	809	1,380	------	2,000	280	640	287	118	232	93
31	161	------	660	980	------	2,340	------	475	------	118	196	------
TOTAL	3,891	6,828	16,398	36,272	16,416	19,606	21,468	11,762	11,719	7,106	4,058	4,173
MEAN	126	228	529	1,170	586	632	716	379	391	229	131	139
MAX	214	1,140	3,260	3,920	1,860	2,340	1,850	687	1,520	1,570	313	255
MIN	97	83	102	170	290	250	260	223	205	93	80	67
CFSM	.31	.56	1.30	2.88	1.44	1.56	1.76	.93	.96	.56	.32	.34
IN.	.36	.63	1.50	3.32	1.50	1.80	1.97	1.08	1.07	.65	.37	.38

CAL YR 1973 TOTAL 173,881 MEAN 476 MAX 3,320 MIN 83 CFSM 1.17 IN 15.93
WTR YR 1974 TOTAL 159,697 MEAN 438 MAX 3,920 MIN 67 CFSM 1.08 IN 14.63

PEAK DISCHARGE (BASE, 2,700 FT^3/S).--Dec. 27 (1200) 3,440 ft^3/s (10.22 ft); Jan. 19 (1600) 4,090 ft^3/s (10.82 ft).

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, and 15 ft (5 m) east of County Road 675 West, 3.6 miles (5.8 km) southwest of Gaston.

DRAINAGE AREA.--25.5 mi^2 (66.0 km^2).

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

AVERAGE DISCHARGE.--6 years, 26.2 ft^3/s (0.742 m^3/s), 13.95 in/yr (354 mm/yr).

GAGE.--Water-stage recorder. Datum of gage 873.00 ft (266.090 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 307 ft^3/s (8.69 m^3/s) Jan. 19, gage height, 10.59 ft (3.228 m); minimum daily, 4.1 ft^3/s (0.12 m^3/s) Aug. 23-26.
Period of record: Maximum discharge, 378 ft^3/s (10.7 m^3/s) Jan. 18, 1969; maximum gage height, 11.14 ft (3.395 m) Apr. 20, 1972; minimum daily discharge, 2.5 ft^3/s (0.071 m^3/s) Oct. 3, 1971.

REMARKS.--Records fair.

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	5.7	9.0	29	44	52	51	88	15	17	150	4.4	7.4
2	5.9	8.5	23	39	46	43	75	14	16	45	4.4	8.2
3	6.2	6.6	18	35	40	39	79	14	15	23	4.4	10
4	7.4	5.8	16	31	35	36	272	13	15	17	4.4	9.5
5	16	5.4	17	28	32	83	193	13	14	14	4.4	7.1
6	7.2	5.2	14	25	32	58	81	12	16	13	4.3	6.3
7	5.5	5.1	12	23	39	41	57	12	16	11	4.3	6.1
8	4.9	5.4	11	21	34	34	61	14	35	10	4.3	5.9
9	4.6	5.5	11	20	31	30	78	24	34	9.0	4.3	5.7
10	4.6	5.4	11	18	28	27	67	19	26	8.3	4.3	5.7
11	4.5	5.4	10	17	26	25	47	19	20	7.7	4.3	5.7
12	4.4	5.4	10	16	27	23	39	121	18	7.3	4.3	6.8
13	4.5	5.5	12	17	41	21	33	63	16	6.8	4.3	8.8
14	5.2	5.5	17	17	49	20	31	37	15	6.5	4.2	7.0
15	5.0	5.8	15	17	39	20	26	92	15	6.2	4.2	5.7
16	4.7	6.3	13	21	35	24	23	65	15	5.9	4.2	5.0
17	4.6	6.2	12	70	31	23	21	58	14	5.6	4.3	4.7
18	4.4	5.8	11	154	30	21	20	95	13	5.4	4.4	4.6
19	4.4	5.8	11	293	48	21	19	77	13	5.3	4.3	4.5
20	4.4	5.7	11	265	61	19	18	55	13	5.2	4.2	4.5
21	4.4	5.8	10	207	47	19	18	41	40	5.0	4.2	4.4
22	4.4	6.1	9.5	137	114	18	17	34	37	4.9	4.2	4.5
23	4.4	6.0	10	259	70	18	17	30	88	5.2	4.1	4.5
24	4.4	6.3	11	171	49	17	15	28	42	4.9	4.1	4.5
25	4.4	60	130	84	39	17	15	25	26	4.6	4.1	4.5
26	4.6	73	267	74	34	17	15	23	23	4.6	4.1	4.5
27	4.6	68	276	159	32	20	14	21	19	4.5	4.2	4.6
28	4.7	56	173	113	48	19	14	20	16	4.5	6.4	4.8
29	5.0	60	91	146	------	98	14	20	15	4.5	14	5.7
30	5.9	40	68	85	------	181	15	19	14	4.5	13	6.3
31	6.3	------	53	64	------	179	------	18	------	4.4	7.4	------
TOTAL	167.2	500.5	1,382.5	2,670	1,189	1,262	1,482	1,111	676	413.8	156.0	177.5
MEAN	5.39	16.7	44.6	86.1	42.5	40.7	49.4	35.8	22.5	13.3	5.03	5.92
MAX	16	73	276	293	114	181	272	121	88	150	14	10
MIN	4.4	5.1	9.5	16	26	17	14	12	13	4.4	4.1	4.4
CFSM	.21	.65	1.75	3.38	1.67	1.60	1.94	1.40	.88	.52	.20	.23
IN.	.24	.73	2.02	3.90	1.73	1.84	2.16	1.62	.99	.60	.23	.26

CAL YR 1973 TOTAL 11,110.1 MEAN 30.4 MAX 313 MIN 4.4 CFSM 1.19 IN 16.21
WTR YR 1974 TOTAL 11,187.5 MEAN 30.7 MAX 293 MIN 4.1 CFSM 1.20 IN 16.32

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	2300	10.47	297	01-23	1600	10.09	265
01-19	2300	10.59	307	04-04	2000	10.26	280

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^2 (293 km^2).

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.--6 years, 113 ft^3/s (3.20 m^3/s), 13.58 in/yr (345 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,870 ft^3/s (53.0 m^3/s) Jan. 19, gage height, 10.83 ft (3.301 m); minimum daily, 8.0 ft^3/s (0.23 m^3/s) Aug. 25-27.
Period of record: Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) Apr. 21, 1972, gage height, 11.10 ft (3.383 m); minimum daily, 4.2 ft^3/s (0.119 m^3/s) Oct. 6, 7, 1970.

REMARKS.--Records good.

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	22	24	172	211	233	223	518	60	56	59	13	16
2	23	21	135	178	197	177	444	54	49	48	14	16
3	24	17	114	148	162	152	417	55	46	38	15	18
4	35	15	105	126	134	141	1,290	52	42	33	13	17
5	29	16	111	110	112	470	748	52	42	32	13	14
6	24	16	86	99	120	423	421	51	43	29	12	11
7	23	17	68	87	166	229	280	48	42	27	12	10
8	22	19	60	78	132	173	326	74	218	25	15	10
9	21	19	60	70	108	145	400	135	215	27	12	10
10	20	17	58	64	93	122	369	105	133	85	14	10
11	19	16	49	60	81	106	238	92	91	45	16	10
12	18	16	46	55	90	98	190	366	74	33	15	57
13	20	19	58	62	180	82	159	293	62	28	12	34
14	21	24	82	54	200	75	138	172	54	26	12	21
15	19	36	71	55	140	79	116	522	57	25	11	16
16	18	36	60	71	117	96	96	505	50	22	11	14
17	17	28	52	237	102	90	85	311	45	22	14	13
18	17	25	50	560	94	81	77	575	40	22	14	12
19	16	24	52	1,650	221	77	72	529	39	20	11	11
20	16	22	56	1,190	367	68	66	373	37	19	9.6	11
21	16	24	48	1,030	224	68	63	218	80	18	9.0	10
22	15	25	45	747	578	63	66	161	93	17	9.0	10
23	15	22	47	1,300	507	61	63	131	262	19	9.0	9.0
24	15	50	44	885	244	57	55	112	149	20	9.0	9.0
25	15	353	453	510	167	52	52	91	91	18	8.0	9.0
26	15	546	1,380	376	131	57	51	80	74	17	8.0	9.0
27	15	369	1,460	583	119	73	49	70	65	17	8.0	10
28	15	427	1,000	518	181	73	49	64	54	16	17	11
29	16	498	598	775	------	509	51	74	48	15	35	14
30	27	262	390	486	------	785	64	80	44	15	22	11
31	26	------	276	317	------	901	------	66	------	14	15	------
TOTAL	614	3,003	7,286	12,692	5,200	5,806	7,013	5,571	2,395	851	407.6	433.0
MEAN	19.8	100	235	409	186	187	234	180	79.8	27.5	13.1	14.4
MAX	35	546	1,460	1,650	578	901	1,290	575	262	85	35	57
MIN	15	15	44	54	81	52	49	48	37	14	8.0	9.0
CFSM	.18	.89	2.08	3.62	1.65	1.65	2.07	1.59	.71	.24	.12	.13
IN.	.20	.99	2.40	4.18	1.71	1.91	2.31	1.83	.79	.28	.13	.14

CAL YR 1973 TOTAL 53,780.0 MEAN 147 MAX 1,460 MIN 15 CFSM 1.30 IN 17.70
WTR YR 1974 TOTAL 51,271.6 MEAN 140 MAX 1,650 MIN 8.0 CFSM 1.24 IN 16.88

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1300	10.06	1,560	01-29	0900	8.09	879	04-04	1200	10.00	1,540
01-19	1300	10.83	1,870	02-22	2000	7.75	780	05-15	2200	7.65	752
01-23	1300	9.89	1,500	03-31	0300	8.57	1,040				

03348500 White River near Noblesville, Ind.

LOCATION.--Lat 40°07'46", long 85°57'46", in NE¼NE¼ sec.4, T.19 N., R.5 E., Hamilton County, near center of span on downstream side of highway bridge, 1 mile (2 km) west of Strawtown, 7 miles (11 km) northeast of Noblesville, 9.5 miles (15.3 km) upstream from Cicero Creek, and at mile 277.4 (446.3 km).

DRAINAGE AREA.--828 mi^2 (2,145 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: May 1915 to September 1926, October 1928 to September 1974 (discontinued). Monthly discharge only for some periods, published in WSP 1305. Published as "West Branch of White River" prior to 1922 and as "West Fork of White River" October 1922 to September 1948. Records of daily discharge for the water year 1928, published in WSP 663, have been found to be unreliable and should not be used.
WATER TEMPERATURE: October 1953 to July 1957, October 1962 to September 1974 (discontinued).
SEDIMENT DISCHARGE: July 1968 to September 1974 (partial-record station) (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 763.08 ft (232.587 m) above mean sea level (levels by Corps of Engineers). Prior to July 1, 1922, nonrecording gage at bridge 2 miles (3 km) downstream at different datum. July 1, 1922, to Nov. 21, 1933, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--57 years, 794 ft^3/s (22.49 m^3/s), 13.02 in/yr (331 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	173	379	1,300	1,560	2,110	1,640	3,930	535	884	2,090	188	358
2	206	350	1,030	1,270	1,780	1,520	2,960	510	716	1,740	191	392
3	194	298	872	1,100	1,520	1,310	3,070	520	596	1,020	188	370
4	479	254	818	1,000	1,330	1,210	5,800	495	535	764	194	379
5	608	227	854	900	1,230	2,210	5,220	451	500	620	188	346
6	392	218	722	800	1,200	3,080	3,260	428	545	530	191	281
7	294	209	578	640	1,500	2,050	2,240	415	596	460	194	242
8	257	200	505	560	1,440	1,550	2,270	500	1,220	410	200	221
9	239	194	460	630	1,230	1,310	2,740	764	1,450	402	190	206
10	218	185	438	680	1,070	1,150	2,700	680	1,230	505	190	203
11	209	182	397	626	974	1,000	2,270	566	932	460	200	203
12	206	173	370	572	950	944	1,800	1,480	722	384	200	571
13	218	182	438	420	1,230	848	1,530	1,670	584	346	190	485
14	290	185	590	540	1,410	758	1,320	1,170	515	318	180	322
15	245	215	560	555	1,160	740	1,180	2,110	806	306	170	257
16	221	281	485	626	980	932	1,030	2,370	608	298	170	221
17	206	251	410	1,490	884	992	920	1,730	480	281	190	212
18	200	251	370	3,790	800	878	848	1,320	428	275	180	197
19	194	224	340	7,610	1,120	806	794	3,210	410	281	210	191
20	179	212	374	9,450	1,990	728	740	2,460	388	275	350	182
21	179	221	350	7,460	1,730	704	692	1,670	538	257	270	185
22	176	230	310	5,630	2,510	650	710	1,290	1,140	239	200	170
23	185	203	290	6,000	3,420	608	686	1,110	2,790	236	191	160
24	182	262	350	5,770	2,180	590	608	992	2,410	233	185	162
25	176	1,540	1,980	3,680	1,500	550	560	848	1,420	233	173	165
26	170	2,710	5,800	2,850	1,200	540	535	728	1,090	230	162	162
27	170	2,430	8,720	4,020	1,080	602	510	650	944	224	160	160
28	176	2,560	7,180	4,990	1,270	680	500	590	716	224	227	168
29	185	2,390	3,920	4,680	------	2,170	495	962	608	221	422	191
30	275	1,840	2,630	3,620	------	4,250	540	1,510	540	218	495	185
31	260	------	1,990	2,680	------	5,300	------	1,190	------	209	402	------
TOTAL	7,362	19,056	45,431	86,199	40,798	42,300	52,458	34,924	26,341	14,289	6,841	7,547
MEAN	237	635	1,466	2,781	1,457	1,365	1,749	1,127	878	461	221	252
MAX	608	2,710	8,720	9,450	3,420	5,300	5,800	3,210	2,790	2,090	495	571
MIN	170	173	290	420	800	540	495	415	388	209	160	160
CFSM	.29	.77	1.77	3.36	1.76	1.65	2.11	1.36	1.06	.56	.27	.30
IN.	.33	.86	2.04	3.87	1.83	1.90	2.36	1.57	1.18	.64	.31	.34

CAL YR 1973 TOTAL 384,472 MEAN 1,053 MAX 8,720 MIN 170 CFSM 1.27 IN 17.27
WTR YR 1974 TOTAL 383,546 MEAN 1,051 MAX 9,450 MIN 160 CFSM 1.27 IN 17.23

PEAK DISCHARGE (BASE, 5,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0900	13.03	9,010	01-24	0300	11.53	6,470
01-20	0930	13.33	9,690	04-04	2330	11.62	6,310

03348500 White River near Noblesville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 9,690 ft^3/s (274 m^3/s) Jan. 20, gage height, 13.33 ft (4.063 m); minimum daily, 160 ft^3/s (4.53 m^3/s) Aug. 27, Sept. 23, 27.

Period of record: Maximum discharge, 27,200 ft^3/s (770 m^3/s) Mar. 21, 1937, gage height, 16.3 ft (4.97 m); maximum gage height, 16.35 ft (4.983 m) June 14, 1958, Apr. 22, 1964; minimum daily discharge, 39 ft^3/s (1.10 m^3/s) Sept. 25, 1941.

WATER TEMPERATURE, Current year: Maximum temperature, 26.0°C July 9, 10, 19, Aug. 13; minimum, freezing point on several days during winter months.

Period of record: Maximum temperature, 31.0°C July 14, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-16, 1918, 1920. 1921(M), 1922, 1927-28(M), 1929-30, 1933(M), 1936, 1941(M). WSP 1725: 1959(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	22.5	9.5	9.0	6.0	5.5	1.5	1.0	4.0	3.5	4.5	4.0
2	22.5	21.5	9.0	9.0	6.0	5.5	1.0	0.5	3.5	3.5	6.5	4.5
3	21.5	20.5	9.0	9.0	6.5	5.5	0.5	0.5	3.5	2.5	9.5	6.5
4	21.0	20.5	9.0	8.5	8.0	6.5	0.5	0.5	2.5	1.5	10.0	9.5
5	20.5	20.0	9.0	8.5	8.0	6.0	1.0	0.5	2.0	1.0	10.0	8.5
6	20.0	18.0	8.5	7.0	6.0	4.5	1.0	1.0	1.0	1.0	8.5	8.0
7	19.0	18.5	7.0	6.5	4.5	4.0	1.0	1.0	1.0	1.0	9.0	8.0
8	20.0	19.0	7.0	6.5	4.0	4.0	1.0	0.5	1.0	1.0	11.0	9.0
9	20.5	20.0	6.5	5.0	4.0	4.0	0.5	0.0	1.0	1.0	11.5	11.0
10	21.0	20.0	5.0	4.0	4.0	2.5	0.0	0.0	1.0	0.5	11.5	10.0
11	21.0	20.5	5.0	4.0	2.5	1.0	0.5	0.0	0.5	0.0	10.0	8.0
12	20.5	19.0	5.5	5.0	1.5	1.0	0.5	0.0	1.5	0.0	8.0	6.5
13	19.0	17.5	8.0	5.5	3.0	1.5	0.0	0.0	3.5	1.5	6.5	5.5
14	18.0	17.0	10.5	8.0	3.5	3.0	0.0	0.0	3.5	3.5	5.5	5.0
15	18.0	16.5	11.5	10.5	3.5	3.0	1.0	0.0	3.5	2.5	5.5	5.5
16	17.5	15.5	11.5	8.5	3.0	2.0	2.5	1.0	2.5	2.5	5.5	5.0
17	15.5	13.5	8.5	7.0	2.0	0.5	3.0	2.5	3.0	2.5	5.0	4.5
18	14.0	13.0	7.0	7.0	0.5	0.5	2.5	2.0	3.5	3.0	4.5	4.5
19	14.0	12.5	7.5	7.0	0.5	0.5	2.5	2.0	3.5	3.5	5.5	4.5
20	14.5	13.0	8.0	7.5	0.5	0.5	4.5	2.5	3.5	3.5	6.5	5.5
21	14.0	13.0	8.5	8.0	0.5	0.0	5.0	4.5	3.5	3.5	6.5	6.0
22	13.5	12.5	8.5	8.0	0.0	0.0	5.0	5.0	4.0	3.5	6.5	5.5
23	13.5	12.0	8.5	8.0	0.0	0.0	5.0	4.5	4.0	3.5	6.5	5.5
24	14.0	13.0	10.0	8.0	1.0	0.0	4.5	3.5	3.5	1.5	5.5	4.0
25	14.5	13.5	10.0	9.5	3.0	1.0	3.5	3.5	1.5	1.0	4.5	3.5
26	14.5	13.5	9.5	8.5	3.0	2.5	4.0	3.5	1.0	0.5	6.0	4.0
27	13.5	12.5	9.0	8.5	2.5	2.5	5.0	4.0	2.0	1.0	8.0	6.0
28	12.5	11.5	9.0	8.0	2.5	2.0	5.0	4.5	4.5	2.0	9.0	8.0
29	11.5	9.5	8.0	6.5	2.0	2.0	4.5	4.5	---	---	9.0	8.5
30	9.5	9.5	6.5	6.0	2.5	2.0	4.5	4.0	---	---	8.5	7.0
31	9.5	9.5	---	---	2.0	1.5	4.0	4.0	---	---	7.0	6.0
MONTH	23.5	9.5	11.5	4.0	8.0	0.0	5.0	0.0	4.5	0.0	11.5	3.5

03348500 White River near Noblesville, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.										
01...	1120	179	13	6.3	--	--	--	--	--	--
NOV.										
01...	1020	402	25	27	--	--	--	--	--	--
MAR.										
22...	1150	697	21	40	--	--	--	--	--	--
JULY										
02...	1035	1830	909	4490	68	83	94	97	99	100
AUG.										
01...	0935	189	39	20	--	--	--	--	--	--
28...	1000	259	39	27	--	--	--	--	--	--

03349000 White River at Noblesville, Ind.

LOCATION.--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, 3.5 miles (5.6 km) downstream from dam at Clare, and at mile 269.0 (432.8 km).

DRAINAGE AREA.--858 mi^2 (2,222 km^2).

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 U.S. Weather Bureau. 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.--28 years, 827 ft^3/s (23.42 m^3/s), 13.09 in/yr (332 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	199	403	1,650	1,900	2,300	1,810	4,880	535	979	1,680	198	372
2	225	385	1,220	1,470	1,920	1,740	3,660	497	822	1,840	198	394
3	222	323	1,010	1,300	1,630	1,470	3,470	497	682	1,030	198	376
4	446	265	919	1,100	1,380	1,320	6,560	487	551	772	200	385
5	714	228	976	1,000	1,210	2,240	6,250	441	508	642	199	363
6	456	219	872	900	1,170	3,500	4,060	413	546	555	200	293
7	338	210	671	760	1,540	2,400	2,770	399	603	500	200	251
8	282	204	577	660	1,500	1,780	2,700	461	1,190	441	202	219
9	254	199	525	600	1,250	1,460	3,300	734	1,610	418	200	208
10	232	193	499	680	1,060	1,260	3,220	695	1,360	500	198	204
11	219	191	456	640	946	1,090	2,730	568	1,020	485	202	204
12	222	185	420	560	885	1,020	2,120	1,380	754	386	199	657
13	222	189	464	483	1,160	917	1,770	1,950	609	354	197	563
14	304	191	627	540	1,390	795	1,510	1,330	535	322	195	359
15	286	210	624	641	1,280	767	1,330	2,150	1,010	306	193	268
16	245	311	550	697	1,060	986	1,160	3,010	740	298	194	222
17	225	282	468	1,560	955	1,080	1,030	2,080	513	270	210	216
18	216	272	420	4,050	871	1,050	932	2,820	441	264	204	2[illegible]
19	210	241	390	7,910	1,140	1,020	858	3,840	408	302	216	1[illegible]
20	199	225	423	9,750	2,150	788	795	3,530	394	298	372	189
21	197	228	385	8,480	2,000	747	740	2,140	482	258	248	187
22	193	248	328	6,370	2,630	701	747	1,520	1,200	234	213	181
23	197	219	320	6,530	3,890	645	714	1,250	4,190	249	189	169
24	199	251	396	6,520	2,600	627	615	1,090	3,530	249	179	171
25	197	1,650	1,980	4,280	1,750	580	580	917	1,820	243	169	175
26	319	3,490	6,240	3,090	1,340	563	551	767	1,210	234	158	169
27	106	3,260	9,320	4,370	1,180	621	518	670	953	222	163	167
28	181	3,200	8,440	5,420	1,350	708	497	609	734	225	210	175
29	191	3,300	5,140	5,390	------	2,310	492	1,250	591	216	408	189
30	258	2,510	3,250	4,260	------	5,080	524	1,760	497	225	508	187
31	293	------	2,440	2,990	------	6,170	------	1,390	------	200	427	------
TOTAL	8,047	23,282	52,000	94,901	43,537	47,245	61,083	41,180	30,482	14,218	7,047	7,910
MEAN	260	776	1,677	3,061	1,555	1,524	2,036	1,328	1,016	459	227	264
MAX	714	3,490	9,320	9,750	3,890	6,170	6,560	3,840	4,190	1,840	508	657
MIN	106	185	320	483	871	563	492	399	394	200	158	167
CFSM	.30	.90	1.95	3.57	1.81	1.78	2.37	1.55	1.18	.54	.26	.31
IN.	.35	1.01	2.25	4.11	1.89	2.05	2.65	1.79	1.32	.62	.31	.34

CAL YR 1973 TOTAL 427,024 MEAN 1,170 MAX 9,320 MIN 106 CFSM 1.36 IN 18.51
WTR YR 1974 TOTAL 430,932 MEAN 1,181 MAX 9,750 MIN 106 CFSM 1.38 IN 18.68

PEAK DISCHARGE (BASE, 6,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1615	14.83	9,810	01-24	0230	12.66	6,950
01-20	1600	14.98	10,100				

03349000 White River at Noblesville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Jan. 20, gage height, 14.98 ft (4.566 m); minimum daily, 106 ft^3/s (3.00 m^3/s) Oct. 27 (regulated).
Period of record: Maximum discharge, 26,800 ft^3/s (759 m^3/s) Apr. 22, 1964, gage height, 21.31 ft (6.495 m); minimum daily, 44 ft^3/s (1.25 m^3/s) Sept. 28, 1954.

WATER TEMPERATURE, Current year: Maximum temperature, 28.0°C July 9, 10; minimum, freezing point during winter months.
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 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	22.0	12.0	9.5	8.0	6.5	1.0	0.5	5.5	5.0	5.5	4.5
2	24.0	21.5	10.0	9.0	6.5	5.5	0.5	0.0	5.5	4.5	7.5	5.5
3	21.5	20.0	10.0	8.5	7.5	6.0	0.5	0.0	4.5	2.5	10.5	7.5
4	22.5	20.0	9.0	7.5	8.5	7.5	0.5	0.0	2.5	1.0	11.5	10.5
5	22.0	19.5	9.0	7.0	9.0	8.5	1.0	0.0	1.0	0.5	11.5	10.0
6	20.5	18.0	9.0	7.5	8.5	6.0	1.0	0.5	1.0	0.5	10.0	8.5
7	19.0	17.5	9.0	7.0	6.0	4.0	1.5	0.5	1.0	0.5	10.5	9.0
8	21.0	18.5	9.0	7.0	5.5	4.0	0.5	0.0	0.5	0.0	12.0	10.5
9	22.0	20.5	8.5	6.5	5.0	3.0	1.0	0.0	0.5	0.0	12.5	12.0
10	22.5	21.0	8.0	6.0	3.0	2.0	1.0	0.0	0.0	0.0	12.5	10.0
11	22.5	21.5	6.0	3.0	3.0	0.0	1.5	0.5	0.0	0.0	10.0	8.0
12	22.0	20.5	8.0	4.0	2.5	0.0	1.5	0.0	2.0	0.0	8.0	6.5
13	22.0	18.5	10.5	8.0	3.5	1.5	1.0	0.0	3.5	2.0	7.0	5.0
14	18.5	16.5	13.0	10.5	4.5	2.5	1.5	0.0	3.5	3.5	7.0	4.5
15	18.5	15.5	14.5	12.5	4.0	2.0	2.0	0.5	3.5	2.5	5.5	5.5
16	18.0	15.5	14.0	11.0	2.0	0.5	3.5	2.0	3.0	2.0	5.5	4.5
17	16.0	13.5	12.5	9.5	1.0	0.0	3.5	3.5	2.5	2.0	4.5	4.0
18	13.5	12.5	11.0	9.0	1.0	0.0	3.5	3.0	4.5	2.5	5.5	3.5
19	15.0	13.0	11.5	9.5	0.0	0.0	3.0	3.0	4.5	4.0	7.0	5.0
20	16.0	13.0	12.0	9.5	0.0	0.0	6.0	3.0	4.0	3.0	6.5	5.0
21	13.5	11.5	12.0	10.5	0.0	0.0	6.0	6.0	3.5	3.5	6.0	5.0
22	14.0	11.5	12.0	10.0	0.5	0.0	6.0	6.0	4.5	3.5	5.5	4.0
23	14.0	12.5	10.0	8.5	0.5	0.0	6.0	6.0	4.5	3.0	5.5	5.0
24	13.5	12.0	10.5	9.5	0.0	0.0	6.0	4.5	3.0	1.0	5.0	1.5
25	13.5	12.5	10.5	9.5	2.5	0.0	4.5	4.0	1.0	0.0	4.5	1.0
26	13.5	12.5	10.0	9.5	3.5	2.5	5.0	4.0	1.0	0.0	5.5	2.5
27	13.0	12.5	11.5	10.0	4.0	3.5	6.5	5.0	3.0	0.5	7.0	4.5
28	12.5	11.5	11.5	10.5	4.0	3.5	6.5	6.0	5.0	3.0	7.5	6.5
29	12.5	10.0	10.5	9.0	3.5	3.5	6.0	5.0	---	---	7.5	7.5
30	13.0	10.5	9.0	8.0	3.5	1.5	5.5	5.0	---	---	7.5	5.5
31	12.5	9.5	---	---	1.5	1.0	5.5	5.0	---	---	5.5	4.5
MONTH	24.0	9.5	14.5	3.0	9.0	0.0	6.5	0.0	5.5	0.0	12.5	1.0

03349000 White River at Noblesville, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	5.0	16.5	15.0	18.5	17.5	22.0	21.0	23.5	21.5	22.5	21.0
2	9.0	7.5	15.5	14.5	19.0	18.0	20.5	21.5	23.5	22.5	22.0	19.5
3	11.0	9.0	14.5	13.5	20.5	19.0	23.5	21.5	23.0	21.5	19.5	18.0
4	11.0	9.5	14.5	12.5	21.5	20.0	24.0	23.5	21.5	19.5	18.5	17.5
5	9.5	7.0	15.0	13.0	21.0	20.5	24.0	23.5	21.0	18.5	18.0	16.5
6	7.0	6.0	14.5	13.0	21.0	20.0	24.0	23.0	21.0	19.0	19.0	16.5
7	7.5	7.0	14.0	11.5	21.0	21.0	25.0	23.5	22.0	20.0	19.0	17.0
8	7.5	6.0	13.5	12.0	21.0	20.0	27.0	24.0	22.0	21.0	19.5	18.0
9	6.0	4.5	13.0	11.5	20.5	19.5	28.0	25.5	24.0	21.0	20.0	19.0
10	7.5	5.5	13.5	10.5	20.5	20.0	28.0	26.0	24.5	22.5	21.5	20.0
11	9.5	7.5	15.0	12.5	20.0	18.5	26.0	24.5	23.0	21.5	22.0	21.5
12	11.0	9.5	14.5	14.0	18.5	17.5	26.0	23.0	25.5	21.5	22.0	21.0
13	12.5	11.0	14.5	13.0	19.5	18.0	26.0	24.0	27.0	25.5	21.5	20.0
14	13.0	12.5	15.0	13.5	20.0	19.0	25.5	23.5	27.0	26.0	20.0	18.0
15	12.5	9.5	16.0	15.0	19.5	18.5	27.5	24.0	27.0	26.0	18.5	17.0
16	9.5	8.0	16.5	15.5	19.0	18.0	27.5	24.0	27.0	26.5	18.5	17.0
17	11.0	9.0	17.5	16.5	18.0	17.5	25.5	23.0	26.5	25.5	19.5	17.5
18	12.5	10.5	17.5	16.0	18.5	16.5	27.5	23.5	26.5	24.0	20.0	18.0
19	13.5	11.5	16.5	14.5	21.0	18.0	27.5	25.5	24.5	22.0	20.0	18.0
20	13.0	11.5	17.0	15.0	23.0	20.0	27.0	24.5	25.5	22.5	20.0	19.5
21	13.0	11.0	18.5	17.0	23.5	21.5	26.0	23.0	26.5	23.5	20.0	18.5
22	14.0	12.5	19.0	18.0	23.5	21.0	25.0	22.5	26.5	25.0	19.0	16.5
23	13.0	10.5	19.5	18.0	21.0	19.0	23.0	22.0	25.0	23.5	17.0	15.0
24	11.0	9.5	19.5	18.5	19.0	18.5	22.5	21.0	24.0	22.0	17.0	14.5
25	12.0	10.0	19.0	17.5	19.0	18.0	22.5	20.5	23.5	21.5	16.5	15.0
26	15.0	11.0	17.5	16.5	19.0	18.5	23.5	21.5	24.5	21.5	17.5	15.5
27	15.5	13.5	17.0	16.0	20.0	18.5	24.5	21.5	24.5	22.5	17.0	16.0
28	16.0	15.0	17.5	17.0	20.5	20.0	24.0	22.5	25.5	23.0	17.0	16.0
29	17.0	15.5	17.5	17.0	21.5	20.5	24.5	22.5	23.0	21.5	17.0	16.0
30	17.0	6.0	17.0	16.5	22.0	21.0	24.0	21.5	22.0	20.5	17.0	14.5
31	---	---	18.0	17.0	---	---	23.0	21.0	22.5	21.5	---	---
MONTH	17.0	4.5	19.5	10.5	23.5	16.5	28.0	20.5	27.0	18.5	22.5	14.5
YEAR	28.0	0.0										

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, and 10 miles (16 km) upstream from Morse Dam.

DRAINAGE AREA.--131 mi^2 (339 km^2).

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.--20 years, 122 ft^3/s (3.455 m^3/s), 12.65 in/yr (321 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) Jan. 20, gage height, 9.22 ft (2.810 m); minimum daily, 2.4 ft^3/s (0.07 m^3/s) Aug. 26.
Period of record: Maximum discharge, 6,720 ft^3/s (190 m^3/s) June 29, 1957, gage height, 11.86 ft (3.615 m); minimum daily, 0.5 ft^3/s (0.014 m^3/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 fair.

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	15	108	516	336	413	228	667	78	210	85	10	13
2	59	99	415	282	340	190	661	68	150	74	9.1	12
3	54	69	340	237	262	164	591	58	120	63	11	12
4	205	49	324	194	201	189	1,300	53	105	70	10	9.9
5	308	41	388	169	167	591	752	48	95	78	9.3	7.1
6	171	34	280	151	174	440	497	44	150	54	8.1	5.7
7	107	31	205	132	241	296	381	40	250	43	7.9	5.1
8	75	30	169	129	177	219	505	60	600	39	12	3.9
9	57	27	152	135	138	179	550	110	350	42	7.5	3.6
10	45	23	133	112	115	141	424	100	200	428	6.7	4.2
11	37	21	108	100	99	124	318	95	140	145	8.1	5.4
12	31	21	100	97	123	119	258	210	130	78	6.9	22
13	32	22	121	90	264	100	203	190	100	56	6.4	15
14	35	23	171	82	228	90	170	170	200	46	6.8	9.0
15	31	84	144	89	152	91	134	950	700	40	5.8	6.1
16	29	237	119	113	131	101	109	700	500	34	5.5	5.3
17	26	130	101	335	112	92	95	460	300	28	11	5.1
18	23	92	90	792	103	86	87	700	200	25	6.9	4.8
19	21	72	85	1,700	218	87	80	1,100	145	30	5.2	4.7
20	20	57	80	1,760	361	76	73	800	125	43	5.1	4.7
21	18	59	70	1,450	253	77	71	500	250	26	4.5	4.9
22	17	59	60	1,020	654	70	78	350	640	22	3.6	4.2
23	17	52	78	1,500	530	67	69	280	1,300	26	3.2	3.6
24	17	196	69	1,040	333	56	59	245	780	22	3.8	4.5
25	17	1,110	822	643	219	49	54	200	450	18	2.6	4.7
26	16	1,320	1,590	566	162	56	53	160	300	16	2.4	5.1
27	15	917	1,800	1,300	148	63	50	120	220	14	3.9	5.9
28	16	1,210	1,280	1,150	224	68	53	200	170	13	19	9.1
29	17	1,270	764	1,220	------	886	54	270	130	12	28	11
30	41	716	555	726	------	1,320	77	400	110	11	18	9.1
31	43	------	435	531	------	1,080	------	300	------	9.4	10	------
TOTAL	1,615	8,179	11,564	18,181	6,542	7,395	8,473	9,059	9,120	1,690.4	258.3	220.7
MEAN	52.1	273	373	586	234	239	282	292	304	54.5	8.33	7.36
MAX	308	1,320	1,800	1,760	654	1,320	1,300	1,100	1,300	428	28	22
MIN	15	21	60	82	99	49	50	40	95	9.4	2.4	3.6
CFSM	.40	2.08	2.85	4.47	1.79	1.82	2.15	2.23	2.32	.42	.06	.06
IN.	.46	2.32	3.28	5.16	1.86	2.10	2.41	2.57	2.59	.48	.07	.06

CAL YR 1973 TOTAL 63,228.1 MEAN 173 MAX 1,800 MIN 6.8 CFSM 1.32 IN 17.95
WTR YR 1974 TOTAL 82,297.4 MEAN 225 MAX 1,800 MIN 2.4 CFSM 1.72 IN 23.37

PEAK DISCHARGE (BASE, 1,100 FT^3/S)

NOTE.--No gage-height record May 3 to July 7.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-28	2400	8.52	1,470	01-23	1000	8.73	1,580	04-04	1300	8.42	1,420
12-27	0700	9.20	1,850	01-27	1600	8.43	1,430	05-19	unknown	7.71	1,170
01-20	0700	9.22	1,860	03-30	1400	8.32	1,390	06-23	unknown	8.19	1,340

03349700 Little Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'32", long 86°02'45", in NE¼NW¼ 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^2 (104.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 833.36 ft (254.008 m).

AVERAGE DISCHARGE.--19 years, 40.0 ft^3/s (1.133 m^3/s), 13.44 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 994 ft^3/s (28.2 m^3/s) June 22, gage height, 6.38 ft (1.945 m), minimum daily, 0.54 ft^3/s (0.015 m^3/s) Aug. 26.
Period of record: Maximum discharge, 3,980 ft^3/s (113 m^3/s) June 28, 1957, gage height, 8.69 ft (2.649 m); no flow at times during 1957, 1963, 1964, 1966-68.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

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	4.2	45	125	75	90	86	204	16	55	26	2.0	4.5
2	91	31	93	73	74	67	221	15	40	22	2.0	3.7
3	64	21	71	57	57	56	220	15	32	19	2.2	3.3
4	215	16	83	49	44	54	399	12	28	18	2.0	2.8
5	230	14	113	44	38	288	177	12	26	25	1.8	2.1
6	111	12	76	40	51	162	123	11	25	17	1.5	1.6
7	71	11	55	35	81	100	94	11	64	14	1.6	1.4
8	48	11	46	45	54	76	196	22	127	13	2.2	1.3
9	36	9.2	43	33	40	61	196	25	91	14	1.7	1.2
10	28	8.2	38	29	31	48	134	19	54	28	1.6	1.1
11	22	7.8	31	27	28	41	93	25	39	17	2.0	1.2
12	18	7.8	29	28	41	39	74	78	36	12	1.6	10
13	18	8.2	42	25	61	34	58	48	29	9.9	1.4	7.2
14	20	7.8	56	25	48	30	49	35	31	9.2	1.3	4.4
15	17	24	45	25	36	32	39	365	370	8.8	1.1	3.0
16	14	22	36	46	32	47	33	219	145	7.7	1.0	2.2
17	12	15	30	134	28	43	28	133	77	6.8	2.1	1.8
18	11	14	26	412	27	40	26	176	50	6.3	1.8	1.6
19	9.6	12	24	747	71	37	23	561	39	7.9	1.4	1.4
20	8.9	11	25	381	95	31	21	388	33	12	.98	1.3
21	8.2	14	24	358	69	30	20	167	57	7.3	.79	1.3
22	7.6	15	21	263	219	27	22	119	277	6.1	.65	1.2
23	7.4	15	19	544	144	26	19	87	871	7.2	.60	1.1
24	7.2	86	21	235	86	22	16	73	239	6.1	.58	1.0
25	7.0	533	401	154	56	21	15	57	119	5.1	.56	1.0
26	6.4	349	691	149	43	23	15	45	80	4.5	.54	.99
27	6.4	250	582	370	43	30	14	36	60	3.9	.56	1.1
28	6.6	464	269	268	81	31	14	31	44	3.6	1.5	1.5
29	8.0	306	180	322	------	431	14	169	36	3.3	11	2.0
30	15	177	129	175	------	542	18	155	30	2.6	7.8	2.0
31	18	------	99	123	------	347	------	87	------	2.2	4.2	------
TOTAL	1,146.5	2,517.0	3,523	5,291	1,768	2,902	2,575	3,212	3,204	345.5	62.06	70.29
MEAN	37.0	83.9	114	171	63.1	93.6	85.8	104	107	11.1	2.00	2.34
MAX	230	533	691	747	219	542	399	561	871	28	11	10
MIN	4.2	7.8	19	25	27	21	14	11	25	2.2	.54	.99
CFSM	.92	2.08	2.82	4.23	1.56	2.32	2.12	2.57	2.65	.27	.05	.06
IN.	1.06	2.32	3.24	4.87	1.63	2.67	2.37	2.96	2.95	.32	.06	.06

CAL YR 1973 TOTAL 21,823.20 MEAN 59.8 MAX 691 MIN .80 CFSM 1.48 IN 20.09
WTR YR 1974 TOTAL 26,616.35 MEAN 72.9 MAX 871 MIN .54 CFSM 1.80 IN 24.51

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0900	4.93	594	01-19	0300	5.87	841	04-04	0200	4.56	508
11-28	1200	4.55	506	01-23	0900	5.09	633	05-19	1200	5.86	838
12-25	2300	5.54	749	03-30	1200	4.91	589	06-22	2200	6.38	994
12-26	2200	5.58	760								

03350100 Hinkle Creek near Cicero, Ind.

LOCATION.--Lat 40°06'05", long 86°05'10", in NW¼NW¼ sec.16, T.19 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 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^2 (47.9 km^2).

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.--19 years, 19.8 ft^3/s (0.561 mi^2), 14.54 in/yr (369 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) June 22, gage height, 6.12 ft (1.865 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Aug. 25-27.
Period of record: Maximum discharge, 4,920 ft^3/s (139 m^3/s) June 28, 1957, gage height, 8.45 ft (2.576 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Sept. 8, 1967.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	5.0	32	42	33	37	43	91	10	22	15	1.8	5.6
2	40	15	35	25	32	34	98	10	16	14	1.8	4.0
3	19	8.8	27	22	26	28	119	10	14	11	1.9	4.8
4	136	7.3	43	20	23	29	172	8.2	12	12	1.9	3.6
5	81	6.5	42	18	19	119	74	7.5	12	12	1.8	2.7
6	45	5.6	27	17	36	59	51	7.0	12	9.8	1.7	2.3
7	30	5.7	20	16	45	41	42	6.2	27	7.5	2.2	2.1
8	17	5.4	19	17	28	32	122	14	65	6.2	4.0	2.0
9	9.8	4.7	17	15	23	27	95	12	40	6.2	2.1	2.3
10	7.5	3.9	14	14	19	23	67	9.5	26	6.4	1.9	2.2
11	6.2	3.8	12	13	18	22	45	12	19	6.6	2.8	4.6
12	5.8	4.0	10	12	19	23	37	72	16	5.2	2.1	40
13	7.1	4.0	20	14	24	19	30	32	12	4.5	1.8	15
14	7.9	4.1	26	14	19	18	26	24	14	4.2	1.7	8.8
15	6.6	12	19	14	14	22	23	190	258	4.1	1.6	5.6
16	5.9	13	15	26	14	36	19	76	62	3.5	1.7	4.1
17	5.2	6.8	14	70	13	28	16	138	37	3.2	6.3	3.5
18	4.7	6.4	13	326	13	26	16	137	26	3.2	2.2	3.0
19	4.1	5.7	12	337	41	24	14	206	21	3.6	1.7	2.7
20	4.2	5.0	13	156	38	19	14	107	19	5.4	1.5	2.5
21	3.7	6.9	11	140	34	17	13	61	30	3.4	1.4	2.5
22	3.5	7.3	10	138	106	16	18	45	333	3.2	1.3	2.3
23	3.5	6.4	10	242	51	16	14	36	517	4.6	1.3	2.2
24	3.5	33	12	85	31	14	11	33	85	3.3	1.3	2.1
25	3.4	269	394	62	24	14	10	26	48	2.9	1.2	2.1
26	3.4	128	281	95	19	16	13	22	35	2.6	1.2	2.2
27	3.5	90	197	145	25	21	10	16	28	2.4	1.2	2.3
28	3.9	241	94	140	51	19	11	14	23	2.3	7.8	2.8
29	4.8	97	64	117	------	232	10	42	19	2.2	34	4.3
30	10	60	46	68	------	274	13	36	17	2.0	11	3.2
31	9.6	------	38	48	------	128	------	27	------	1.9	4.9	------
TOTAL	500.8	1,098.3	1,597	2,459	842	1,439	1,294	1,446.4	1,865	174.4	111.1	147.4
MEAN	16.2	36.6	51.5	79.3	30.1	46.4	43.1	46.7	62.2	5.63	3.58	4.91
MAX	136	269	394	337	106	274	172	206	517	15	34	40
MIN	3.4	3.8	10	12	13	14	10	6.2	12	1.9	1.2	2.0
CFSM	.88	1.98	2.78	4.29	1.63	2.51	2.33	2.52	3.36	.30	.19	.27
IN.	1.01	2.21	3.21	4.94	1.69	2.89	2.60	2.91	3.75	.35	.22	.30

CAL YR 1973 TOTAL 10,508.3 MEAN 28.8 MAX 394 MIN 1.3 CFSM 1.56 IN 21.13
WTR YR 1974 TOTAL 12,974.4 MEAN 35.5 MAX 517 MIN 1.2 CFSM 1.92 IN 26.09

PEAK DISCHARGE (BASE, 400 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	1200	3.76	605	01-18	2200	4.25	789	05-15	0800	3.27	442
11-28	0800	3.37	458	01-23	0200	3.55	533	05-19	1400	3.30	451
12-25	2000	4.14	750	03-29	0600	3.31	455	06-22	2400	6.12	1,690
12-26	2100	3.59	547	03-30	0200	3.40	484				

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 4.7 miles (7.6 km) above mouth.

DRAINAGE AREA.--214 mi^2 (554 km^2).

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, 23,250 acre-ft (28.7 hm^3) Dec. 27, elevation, 811.50 ft (247.345 m); minimum, 20,800 acre-ft (25.6 hm^3) Oct.29, elevation, 809.71 ft (246.800 m).
Period of record: Maximum contents, 25,310 acre-ft (31.2 hm^3) June 28, 1957, elevation, 812.95 ft (247.787 m); minimum, 14,120 acre-ft (17.4 hm^3) 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^3). Reservoir is used for low-flow augmentation and recreation. Reservoir put in operation on Dec. 9, 1955, and was filled for the first time on Feb. 3, 1957.

COOPERATION.--Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	810.02	21,210	-
Oct. 31	809.87	21,010	-200
Nov. 30	810.87	22,380	+1,370
Dec. 31	810.58	21,970	-410
Calendar year 1973	-	-	-30
Jan. 31	810.66	22,080	+120
Feb. 28	810.31	21,600	-480
Mar. 31	811.12	22,720	+1,120
Apr. 30	810.18	21,420	-1,300
May 31	810.58	21,970	+550
June 30	810.22	21,480	-490
July 31	809.91	21,060	-420
Aug. 31	810.09	21,300	+240
Sept. 30	809.99	21,170	-130
Water year 1974	-	-	-40

03350500 Cicero Creek at Noblesville, Ind.

LOCATION.--Lat 40°03'20", long 86°02'30", in NW¼NE¼ 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 mile (2 km) northwest of Noblesville, 1.5 miles (2.4 km) downstream from Hinkle Creek, and 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.--216 mi^2 (559 km^2).

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 Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--24 years, 195 ft^3/s (5.522 m^3/s), 12.26 in/yr (311 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,330 ft^3/s (94.3 m^3/s) Dec. 27, gage height, 12.42 ft (3.786 m); minimum daily, 2.7 ft^3/s (0.076 m^3/s) Sept. 24.
Period of record: Maximum discharge, 9,800 ft^3/s (278 m^3/s) June 28, 1957, gage height, 15.26 ft (4.651 m); minimum daily, 0.6 ft^3/s (0.017 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	33	836	521	637	410	1,280	143	421	158	2.9	53
2	48	115	606	403	515	359	1,160	133	291	127	2.9	51
3	139	117	494	374	409	308	1,020	145	220	112	3.5	36
4	358	91	462	315	328	303	1,800	114	179	111	4.6	10
5	611	79	544	270	275	841	1,480	104	163	114	3.3	9.2
6	393	55	455	248	295	882	884	114	174	101	3.0	9.7
7	251	48	331	228	392	571	632	68	210	87	3.9	12
8	177	53	265	185	329	408	833	115	505	68	6.8	14
9	133	61	232	206	262	333	1,010	228	530	64	12	5.2
10	109	30	210	203	218	275	812	231	368	248	9.8	5.3
11	76	29	173	174	178	212	576	214	263	267	23	20
12	62	31	157	152	171	226	456	416	218	139	17	232
13	70	33	200	125	301	178	386	374	181	92	13	128
14	74	40	235	136	336	152	315	329	162	69	13	60
15	64	89	242	144	268	164	268	825	947	64	9.1	35
16	60	200	209	164	221	206	215	1,470	994	42	11	20
17	33	174	167	396	194	197	182	769	513	34	31	18
18	36	139	151	1,120	173	172	160	1,260	329	32	28	18
19	23	117	165	3,100	272	180	157	1,220	251	62	14	12
20	37	91	177	2,900	486	149	137	1,940	206	102	10	18
21	27	89	128	2,490	431	158	124	1,050	226	61	9.7	19
22	25	90	112	1,660	830	123	168	708	643	32	6.8	17
23	26	84	118	2,410	959	145	155	565	3,010	52	8.6	3.2
24	25	142	121	1,830	619	120	116	439	1,840	36	12	2.7
25	26	1,370	943	1,110	397	99	97	338	816	27	11	3.4
26	76	2,030	2,870	862	295	106	99	275	485	79	3.8	3.4
27	120	1,570	3,190	1,630	253	121	97	243	362	72	3.8	3.6
28	120	1,790	2,160	1,750	328	134	104	204	272	7.3	14	6.1
29	60	1,910	1,330	1,820	------	1,030	115	338	210	9.0	112	31
30	5.8	1,280	937	1,300	------	2,160	137	1,030	170	4.0	83	18
31	5.6	------	721	896	------	1,980	------	711	------	3.1	52	------
TOTAL	3,292.4	11,980	18,941	29,122	10,372	12,702	14,975	16,113	15,159	2,475.4	538.5	873.8
MEAN	106	399	611	939	370	410	499	520	505	79.9	17.4	29.1
MAX	611	2,030	3,190	3,100	959	2,160	1,800	1,940	3,010	267	112	232
MIN	5.6	29	112	125	171	99	97	68	162	3.1	2.9	2.7
CFSM	.49	1.85	2.83	4.35	1.71	1.90	2.31	2.41	2.34	.37	.08	.13
IN.	.57	2.06	3.26	5.02	1.79	2.19	2.58	2.78	2.61	.43	.09	.15

CAL YR 1973 TOTAL 110,403.6 MEAN 302 MAX 3,190 MIN 3.4 CFSM 1.40 IN 19.01
WTR YR 1974 TOTAL 136,544.1 MEAN 374 MAX 3,190 MIN 2.7 CFSM 1.73 IN 23.52

03350700 Stony Creek near Noblesville, Ind.

LOCATION.--Lat 40°01'44", long 85°59'42", in NE¼NE¼ 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.--50.8 mi^2 (131.6 km^2).

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 (State Highway Commission bench mark).

AVERAGE DISCHARGE.--7 years, 49.2 ft^3/s (1.393 m^3/s), 13.15 in/yr (334 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) June 23, gage height, 6.59 ft (2.009 m); minimum daily, 6.7 ft^3/s (0.19 m^3/s) Aug. 26, 27.
Period of record: Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) June 23, 1974, gage height, 6.59 ft (2.009 m); maximum gage height, 6.91 ft (2.106 m) Jan. 18, 1969 (backwater from ice); minimum daily discharge, 3.8 ft^3/s (0.11 m^3/s) Sept. 1, 1967.

REMARKS.--Records good.

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	9.9	60	81	96	115	105	183	41	51	70	10	13
2	9.9	43	69	86	100	86	173	40	48	65	10	12
3	9.9	28	61	74	87	76	261	41	45	58	11	13
4	76	21	63	66	79	69	649	38	43	54	11	11
5	94	18	71	61	71	134	259	37	43	50	10	9.7
6	44	16	57	54	77	111	168	37	46	45	9.8	8.4
7	26	15	48	47	92	87	134	35	53	39	9.2	8.3
8	21	15	44	43	73	76	194	40	174	36	9.2	7.7
9	17	14	40	37	63	69	211	42	126	34	9.4	7.7
10	15	13	38	41	58	61	162	38	94	33	9.7	7.7
11	14	13	36	38	52	57	127	40	73	36	11	7.5
12	13	13	35	35	51	58	107	83	62	32	10	16
13	16	12	43	37	56	54	91	64	53	30	9.2	14
14	33	12	38	40	55	50	81	54	68	30	8.6	10
15	23	13	34	44	49	52	76	135	510	26	8.2	8.7
16	21	17	30	63	49	76	62	105	171	23	8.3	7.8
17	15	13	27	140	47	66	57	93	112	23	9.3	7.7
18	13	13	26	261	46	61	54	137	87	21	9.0	7.6
19	13	13	27	554	84	57	52	203	73	23	8.5	7.3
20	12	13	29	295	113	51	49	241	63	23	8.1	7.1
21	12	13	24	263	84	51	48	132	68	21	7.7	7.2
22	12	18	22	192	160	48	51	101	245	20	7.4	6.9
23	11	16	27	354	126	47	48	84	941	19	7.2	6.9
24	12	20	30	216	91	44	44	79	325	19	7.2	6.9
25	11	160	274	157	73	42	43	66	179	19	6.9	6.9
26	11	189	480	151	63	44	43	59	143	17	6.7	6.8
27	11	164	637	247	62	52	42	54	118	16	6.7	6.9
28	11	160	290	214	100	51	42	51	98	15	9.3	7.8
29	12	138	181	281	------	250	41	57	86	12	66	8.9
30	18	103	141	173	------	346	42	67	76	11	27	8.2
31	19	------	120	140	------	295	------	56	------	11	12	------
TOTAL	635.7	1,356	3,123	4,500	2,176	2,726	3,594	2,350	4,274	931	353.6	265.6
MEAN	20.5	45.2	101	145	77.7	87.9	120	75.8	142	30.0	11.4	8.85
MAX	94	189	637	554	160	346	649	241	941	70	66	16
MIN	9.9	12	22	35	46	42	41	35	43	11	6.7	6.8
CFSM	.40	.89	1.99	2.85	1.53	1.73	2.36	1.49	2.80	.59	.22	.17
IN.	.47	.99	2.29	3.30	1.59	2.00	2.63	1.72	3.13	.68	.26	.19

CAL YR 1973 TOTAL 22,061.6 MEAN 60.4 MAX 637 MIN 7.5 CFSM 1.19 IN 16.16
WTR YR 1974 TOTAL 26,284.9 MEAN 72.0 MAX 941 MIN 6.7 CFSM 1.42 IN 19.25

PEAK DISCHARGE (BASE 300 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0600	5.61	756	01-29	0200	4.21	346	05-20	0200	4.20	344
01-19	0800	5.24	640	03-30	2100	4.32	375	06-15	1100	5.47	711
01-23	0900	4.49	422	04-04	0900	5.70	786	06-23	0600	6.59	1,140

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 253.4 (407.7 km).

DRAINAGE AREA.--1,219 mi^2 (3,157 km^2).

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.--45 years, 1,721 ft^3/s (48.74 m^3/s), 12.09 in/yr (307 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Jan. 21, gage height, 13.30 ft (4.054 m); minimum daily, 195 ft^3/s (5.52 m^3/s) Aug. 27.

Period of record: Maximum discharge, 32,400 ft^3/s (918 m^3/s) May 19, 1943; maximum gage height, 18.65 ft (5.685 m) Apr. 23, 1964; minimum daily discharge, 49 ft^3/s (1.39 m^3/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^3/s (1,660 m^3/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 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	265	445	2,600	2,730	3,330	2,330	7,280	820	1,730	1,500	265	535
2	264	575	2,090	2,150	2,820	2,360	5,160	778	1,310	2,440	269	520
3	337	570	1,740	1,800	2,380	2,070	4,760	796	1,100	1,470	269	530
4	682	470	1,580	1,600	2,070	1,830	8,590	778	960	1,080	277	480
5	1,590	420	1,740	1,400	1,810	2,730	9,400	718	890	925	273	450
6	1,190	376	1,570	1,250	1,750	4,340	6,080	688	890	796	265	390
7	784	345	1,230	1,100	2,180	3,430	3,980	640	1,040	712	269	337
8	585	329	1,020	1,000	2,180	2,510	3,870	700	1,870	635	305	305
9	495	333	897	920	1,900	2,110	4,580	1,020	2,330	595	258	297
10	435	325	848	980	1,640	1,830	4,400	1,100	2,060	827	258	273
11	386	289	766	880	1,470	1,570	3,780	981	1,600	1,040	281	262
12	363	281	700	800	1,370	1,510	3,040	1,670	1,250	712	281	958
13	372	269	736	700	1,590	1,360	2,570	2,480	1,040	575	258	960
14	435	273	897	760	1,960	1,170	2,220	1,890	946	530	248	605
15	435	301	1,010	860	1,910	1,130	1,960	2,690	3,030	505	230	430
16	390	505	925	995	1,630	1,420	1,710	4,340	2,430	470	224	341
17	341	570	796	1,860	1,460	1,530	1,520	3,260	1,670	440	301	337
18	297	490	718	4,210	1,320	1,410	1,370	3,980	1,230	415	321	277
19	309	440	610	9,360	1,530	1,290	1,270	5,140	995	430	285	258
20	293	386	680	12,100	2,680	1,150	1,170	5,980	904	515	376	244
21	281	372	600	12,600	2,760	1,110	1,090	3,750	925	450	329	240
22	277	372	580	9,780	3,170	1,030	1,110	2,600	1,910	390	277	234
23	269	358	560	8,830	4,750	960	1,110	2,160	7,350	381	254	217
24	277	363	590	9,370	3,730	932	981	1,910	6,370	395	227	204
25	277	2,150	2,620	6,560	2,530	855	876	1,590	3,410	372	217	208
26	337	5,060	7,650	4,340	1,950	827	827	1,350	2,230	354	204	204
27	321	5,040	11,200	5,600	1,690	890	790	1,160	1,760	415	195	201
28	317	4,650	12,000	7,330	1,860	967	760	1,070	1,420	337	244	220
29	358	5,070	8,110	7,730	------	2,420	748	1,100	1,160	305	585	251
30	329	4,000	4,600	7,070	------	6,430	778	2,600	995	305	700	273
31	381	------	3,450	4,300	------	8,420	------	2,370	------	293	600	------
TOTAL	13,672	35,427	75,113	130,965	61,420	63,921	87,780	62,109	56,805	20,609	9,345	11,041
MEAN	441	1,181	2,423	4,225	2,194	2,062	2,926	2,004	1,894	665	301	368
MAX	1,590	5,070	12,000	12,600	4,750	8,420	9,400	5,980	7,350	2,440	700	960
MIN	264	269	560	700	1,320	827	748	640	890	293	195	201
CFSM	.36	.97	1.99	3.47	1.80	1.69	2.40	1.64	1.55	.55	.25	.30
IN.	.42	1.08	2.29	4.00	1.87	1.95	2.68	1.90	1.73	.63	.29	.34

CAL YR 1973 TOTAL 576,589 MEAN 1,580 MAX 12,000 MIN 251 CFSM 1.30 IN 17.60
WTR YR 1974 TOTAL 628,207 MEAN 1,721 MAX 12,600 MIN 195 CFSM 1.41 IN 19.17

PEAK DISCHARGE (BASE, 7,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0400	12.94	12,500	03-31	1500	10.59	8,640
01-21	0500	13.30	13,200	04-05	0400	11.36	9,820
01-24	0400	11.20	9,560	06-23	1230	9.97	7,720
01-29	0100	10.06	7,840				

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.

DRAINAGE AREA.--17.9 mi^2 (46.4 km^2).

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.--5 years, 19.5 ft^3/s (0.552 m^3/s), 14.79 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,570 ft^3/s (72.8 m^3/s) June 22, gage height, 7.84 ft (2.390 m); minimum daily, 1.9 ft^3/s (0.054 m^3/s) Oct. 22-24.
Period of record: Maximum discharge, 2,570 ft^3/s (72.8 m^3/s) June 22, 1974, gage height, 7.84 ft (2.390 m); minimum daily, 0.47 ft^3/s (0.013 m^3/s) Dec. 2, 1971.

REMARKS.--Records fair.

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	2.8	17	21	23	27	36	42	9.9	17	7.8	2.1	20
2	6.9	6.1	17	20	27	27	45	8.9	13	6.9	3.3	7.1
3	4.0	4.5	13	17	21	24	89	16	11	6.5	3.7	9.7
4	8.8	3.5	35	15	17	28	167	8.9	9.9	6.1	2.2	5.3
5	8.3	3.0	29	14	14	148	47	7.4	14	6.1	2.1	4.3
6	3.7	2.6	18	13	44	43	36	6.5	13	5.4	2.1	4.0
7	2.8	2.4	12	12	47	30	32	7.0	80	5.4	7.6	3.7
8	2.2	2.2	11	14	26	24	154	19	95	5.1	9.9	3.4
9	2.1	2.1	9.4	12	20	21	87	21	40	5.1	2.6	3.2
10	2.1	2.2	8.5	11	16	21	55	19	26	12	2.4	3.1
11	2.2	2.4	7.8	11	14	29	36	11	19	7.4	9.9	5.0
12	2.4	2.2	6.9	10	13	46	30	73	16	4.8	2.9	56
13	21	2.1	19	10	15	30	24	27	12	4.4	2.2	14
14	8.8	2.2	20	9.7	15	22	22	24	20	4.4	2.0	7.0
15	3.7	7.8	13	16	12	40	18	158	171	6.3	2.1	5.2
16	2.6	7.8	10	57	11	56	14	41	35	4.3	2.1	4.6
17	2.1	5.1	8.6	101	11	45	13	97	22	4.0	6.0	4.5
18	2.4	5.4	7.4	180	9.9	38	12	77	16	3.9	2.7	4.3
19	2.1	4.8	7.1	160	49	30	11	397	16	60	2.2	4.1
20	2.1	4.2	6.8	115	34	24	9.9	90	14	39	2.4	3.7
21	2.1	13	6.4	118	28	25	9.4	57	36	5.9	3.0	3.8
22	1.9	9.9	6.2	59	80	20	25	55	349	3.6	2.8	3.7
23	1.9	6.5	7.0	120	35	18	15	38	847	3.3	2.8	3.7
24	1.9	24	19	47	26	16	9.9	40	75	2.8	2.9	3.7
25	2.1	180	394	35	19	13	9.4	24	38	2.5	2.8	3.7
26	2.1	97	198	82	18	17	8.9	19	25	2.4	2.8	3.7
27	2.2	55	142	122	23	19	8.4	16	19	2.2	4.7	3.8
28	3.2	105	61	120	49	17	9.9	14	14	2.2	19	4.4
29	4.0	48	43	94	------	28	9.4	30	11	2.2	86	9.9
30	8.8	30	33	45	------	113	11	23	9.4	2.1	16	4.8
31	9.4	------	27	35	------	67	------	24	------	2.1	6.1	------
TOTAL	132.7	658.0	1,217.1	1,697.7	720.9	1,115	1,060.2	1,458.6	2,083.3	236.2	221.4	217.4
MEAN	4.28	21.9	39.3	54.8	25.7	36.0	35.3	47.1	69.4	7.62	7.14	7.25
MAX	21	180	394	180	80	148	167	397	847	60	86	56
MIN	1.9	2.1	6.2	9.7	9.9	13	8.4	6.5	9.4	2.1	2.0	3.1
CFSM	.24	1.22	2.20	3.06	1.44	2.01	1.97	2.63	3.88	.43	.40	.41
IN.	.28	1.37	2.53	3.53	1.50	2.32	2.20	3.03	4.33	.49	.46	.45

CAL YR 1973 TOTAL 7,816.4 MEAN 21.4 MAX 394 MIN 1.4 CFSM 1.20 IN 16.24
WTR YR 1974 TOTAL 10,818.5 MEAN 29.6 MAX 847 MIN 1.9 CFSM 1.65 IN 22.48

PEAK DISCHARGE (BASE, 400 FT^3/S, revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0815	4.68	416	05-19	1215	6.20	1,170
12-25	1415	4.86	484	06-07	2230	4.83	472
12-26	2030	4.68	416	06-22	2300	7.84	2,570
04-04	0215	4.77	449				

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^2 (15.02 km^2).

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.--6 years, 6.14 ft^3/s (0.174 m^3/s), 14.38 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 705 ft^3/s (20.0 m^3/s) June 30, gage height, 7.72 ft (2.353 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Oct. 1.
Period of record: Maximum discharge, 705 ft^3/s (20.0 m^3/s) June 30, 1974, gage height, 7.72 ft (2.353 m); minimum daily discharge, 0.02 ft^3/s (0.001 m^3/s) Aug. 30 to Sept. 2, 1972.

REMARKS.--Records good.

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	.10	.68	4.1	10	10	11	27	1.5	3.5	88	.43	7.0
2	.12	.44	3.3	8.6	8.5	9.2	20	1.8	2.2	24	.39	1.4
3	.12	.36	2.4	7.0	6.2	7.6	46	1.8	1.8	10	.40	2.9
4	.40	.30	4.1	6.0	5.4	6.7	53	1.3	1.6	7.0	.39	1.1
5	.24	.30	5.0	5.4	4.5	49	22	1.3	1.8	4.7	.34	.66
6	.18	.27	2.7	4.6	11	20	15	1.3	3.8	3.7	.32	.56
7	.16	.27	1.8	4.3	12	12	12	1.1	2.5	3.1	.27	.48
8	.16	.27	1.7	3.9	7.3	9.1	34	2.2	2.7	2.8	.24	.48
9	.16	.27	1.7	3.5	5.2	7.2	37	1.7	2.1	2.4	.25	.40
10	.16	.27	1.4	3.2	5.0	5.1	25	1.2	2.7	6.7	.23	.40
11	.14	.27	1.2	3.1	4.7	4.9	15	1.7	1.5	3.1	.25	.66
12	.14	.27	1.2	3.0	4.5	4.7	12	8.5	1.3	2.3	.22	1.2
13	.22	.27	5.0	3.1	4.5	3.5	9.5	3.7	1.1	1.9	.24	.91
14	.24	.30	5.7	2.9	3.9	3.4	8.5	2.9	1.1	1.7	.30	.76
15	.18	.73	3.7	3.9	3.2	4.9	6.1	14	7.3	1.5	.22	.71
16	.16	.58	2.7	21	3.0	10	4.9	6.7	2.9	1.3	.22	.63
17	.14	.40	2.4	55	2.7	6.7	4.5	4.9	1.7	1.3	.24	.63
18	.14	.36	1.7	97	2.7	5.9	4.1	5.4	1.3	1.2	.33	.62
19	.14	.36	1.6	83	16	4.9	3.9	24	1.2	1.2	.30	.54
20	.12	.33	4.1	59	12	3.9	3.2	13	1.1	1.0	.22	.56
21	.12	.48	2.0	62	11	4.1	3.1	9.1	1.3	.88	.22	.56
22	.12	.44	1.8	31	29	3.4	3.4	6.7	79	.89	.22	.49
23	.12	.40	1.7	48	13	3.2	2.7	5.1	84	.84	.18	.48
24	.12	.73	2.2	23	9.5	3.4	2.2	4.1	24	.83	.18	.44
25	.14	19	107	17	8.3	3.7	2.0	3.2	11	.74	.18	.44
26	.12	22	108	39	7.0	4.1	1.9	2.9	5.5	.67	.18	.44
27	.14	15	76	79	6.5	4.7	1.8	2.5	3.7	.63	.22	.42
28	.16	15	37	38	14	4.1	1.8	2.4	2.6	.57	.33	.47
29	.22	12	24	28	------	66	1.7	3.5	2.1	.52	4.7	.61
30	.36	6.4	17	18	------	129	1.9	3.1	135	.49	.56	.46
31	.36	------	12	13	------	57	------	4.5	------	.44	.33	------
TOTAL	5.40	98.75	446.2	783.5	230.6	472.4	385.2	147.1	393.4	176.40	13.10	27.41
MEAN	.17	3.29	14.4	25.3	8.24	15.2	12.8	4.75	13.1	5.69	.42	.91
MAX	.40	22	108	97	29	129	53	24	135	88	4.7	7.0
MIN	.10	.27	1.2	2.9	2.7	3.2	1.7	1.1	1.1	.44	.18	.40
CFSM	.03	.57	2.48	4.36	1.42	2.62	2.21	.82	2.26	.98	.07	.16
IN.	.03	.63	2.86	5.03	1.48	3.03	2.47	.94	2.52	1.13	.08	.18

CAL YR 1973 TOTAL 2,590.60 MEAN 7.10 MAX 108 MIN .10 CFSM 1.22 IN 16.62
WTR YR 1974 TOTAL 3,179.46 MEAN 8.71 MAX 135 MIN .10 CFSM 1.50 IN 20.39

PEAK DISCHARGE (BASE, 120 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	1900	5.14	194	04-03	1900	4.68	137
01-18	1400	4.59	127	06-30	0200	7.72	705
01-26	2000	4.82	154				

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, 1 mile (2 km) downstream from Lick Creek, and 2 miles (3 km) northwest of Fortville.

DRAINAGE AREA.--169 mi^2 (437 km^2).

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.--33 years. 164 ft^3/s (4.644 m^3/s), 13.19 in/yr (335 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) June 23, gage height, 7.12 ft (2.170 m); minimum daily, 37 ft^3/s (1.05 m^3/s) Oct. 1, 12, 26.
Period of record: Maximum discharge, 8,750 ft^3/s (248 m^3/s) Apr. 21, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 5.0 ft^3/s (0.14 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	86	161	301	348	298	664	130	158	944	63	176
2	39	79	137	264	313	256	483	123	134	1,210	62	173
3	38	64	124	230	275	228	437	131	121	376	65	147
4	51	55	123	205	242	214	767	121	112	257	67	132
5	79	55	143	180	220	521	514	114	108	218	63	101
6	54	51	130	165	229	499	383	112	144	188	59	87
7	47	49	104	145	333	339	323	107	159	164	57	79
8	45	49	96	130	274	279	505	119	215	150	56	74
9	43	49	92	120	233	240	703	135	223	140	56	70
10	42	47	90	135	207	210	601	117	209	171	55	68
11	40	46	81	125	191	190	422	115	184	240	58	67
12	37	46	78	120	185	240	345	261	154	160	57	158
13	45	46	92	115	196	190	299	237	134	136	53	134
14	63	46	127	130	197	150	263	176	130	124	52	99
15	54	57	122	146	181	180	233	320	794	115	53	85
16	46	83	106	197	174	270	208	318	423	107	53	76
17	43	67	93	498	168	260	189	245	265	100	80	70
18	42	60	89	958	161	220	178	255	202	94	72	67
19	41	58	84	1,540	219	190	171	314	169	105	106	63
20	40	54	101	1,240	335	170	161	475	153	104	83	61
21	40	59	86	1,240	267	175	155	317	171	90	61	59
22	40	70	78	893	454	162	162	246	357	85	55	57
23	39	66	72	800	395	157	158	210	2,010	89	52	55
24	39	70	85	698	286	151	144	195	1,470	85	51	54
25	38	256	619	497	231	143	137	169	578	80	49	52
26	37	404	1,430	426	203	153	134	153	382	78	46	51
27	39	363	1,730	918	195	172	130	142	302	75	51	53
28	39	266	1,140	891	263	165	129	133	246	73	115	55
29	42	254	640	720	------	380	127	142	213	71	181	61
30	61	201	465	539	------	901	132	164	190	68	189	58
31	64	------	370	427	------	1,100	------	148	------	65	109	------
TOTAL	1,404	3,156	8,888	14,993	6,975	8,803	9,257	5,944	10,110	5,962	2,229	2,542
MEAN	45.3	105	287	484	249	284	309	192	337	192	71.9	84.7
MAX	79	404	1,730	1,540	454	1,100	767	475	2,010	1,210	189	176
MIN	37	46	72	115	161	143	127	107	108	65	46	51
CFSM	.27	.62	1.70	2.86	1.47	1.68	1.83	1.14	1.99	1.14	.43	.50
IN.	.31	.69	1.96	3.30	1.54	1.94	2.04	1.31	2.23	1.31	.49	.56

CAL YR 1973 TOTAL 68,793 MEAN 188 MAX 1,730 MIN 34 CFSM 1.11 IN 15.14
WTR YR 1974 TOTAL 80,263 MEAN 220 MAX 2,010 MIN 37 CFSM 1.30 IN 17.67

PEAK DISCHARGE (BASE, 1,300 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0800	6.41	1,760	06-23	1800	7.12	2,240
01-19	1400	6.20	1,610	07-02	0700	6.39	1,680
01-21	1500	5.63	1,310				

03351700 Geist Reservoir near Oaklandon, Ind.

LOCATION.--Lat 39°54'26", long 85°59'07", in SW¼NE¼ 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 miles (27 km) above mouth.

DRAINAGE AREA.--215 mi^2 (556 km^2).

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, 23,660 acre-ft (29.2 hm^3) June 24, elevation, 786.25 ft (239.649 m); minimum, 20,230 acre-ft (24.9 hm^3) Oct. 31, Nov. 1, elevation, 784.47 ft (239.106 m).
Period of record: Maximum contents, 27,360 acre-ft (33.7 hm^3) May 18, 1943, elevation, 788.02 ft (240.188 m); minimum, 11,230 acre-ft (13.8 hm^3) 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^3). Reservoir is used for low-flow augmentation 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 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	784.78	20,780	-
Oct. 31	784.47	20,230	-550
Nov. 30	785.39	21,920	+1,690
Dec. 31	785.59	22,310	+390
Calendar year 1973	-	-	+160
Jan. 31	785.60	22,330	+20
Feb. 28	785.39	21,920	-410
Mar. 31	785.90	22,940	+1,020
Apr. 30	785.30	21,740	-1,200
May 31	785.30	21,740	0
June 30	785.36	21,860	+120
July 31	785.13	21,420	-440
Aug. 31	785.23	21,610	+190
Sept. 30	785.16	21,480	-130
Water year 1974	-	-	+700

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^3/s

			1973									1974
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
151	139	138	149	142	137	139	144	149	156	179	170	151	150

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^2 (109.8 km^2).

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 Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--16 years, 36.8 ft^3/s (1.042 m^3/s), 11.79 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,070 ft^3/s (30.3 m^3/s) June 23, gage height, 7.31 ft (2.228 m); minimum daily, 4.9 ft^3/s (0.14 m^3/s) Oct. 1-3.
Period of record: Maximum discharge, 2,010 ft^3/s (56.9 m^3/s) Apr. 21, 1964, gage height, 8.37 ft (2.551 m); minimum daily, 0.2 ft^3/s (0.006 m^3/s) several days in September 1963, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	4.9	16	70	87	90	84	129	21	28	46	7.3	60
2	4.9	20	56	80	78	70	119	21	24	38	7.2	38
3	4.9	15	50	65	67	61	127	21	22	32	7.5	35
4	8.0	12	48	57	56	56	217	19	21	30	7.4	27
5	14	11	60	51	49	158	136	18	20	27	7.1	17
6	10	9.5	43	45	56	112	102	18	22	25	7.1	13
7	9.2	8.6	33	40	84	82	85	17	26	24	7.2	11
8	8.0	8.6	30	37	63	67	146	20	131	22	7.2	9.8
9	7.2	8.0	28	32	52	59	166	22	105	21	7.1	9.0
10	6.7	7.7	25	35	44	52	128	19	78	67	7.2	8.7
11	6.2	7.5	21	30	40	47	95	20	58	60	8.1	8.4
12	5.7	7.2	19	28	38	55	79	51	44	33	7.2	72
13	7.7	7.7	26	27	40	46	67	45	36	24	7.0	42
14	12	7.7	33	30	38	41	60	34	31	21	7.0	24
15	9.9	8.6	30	33	34	46	51	102	479	19	6.6	16
16	9.5	9.9	25	56	33	78	43	85	449	17	6.7	12
17	8.3	8.9	21	156	31	65	40	67	128	15	17	10
18	8.0	8.9	19	239	29	56	37	84	84	14	7.9	9.5
19	7.5	8.9	18	369	61	50	34	131	64	14	12	8.6
20	7.2	8.3	21	290	95	42	31	116	54	14	8.8	8.0
21	6.7	9.9	17	246	71	41	30	79	66	12	7.4	7.4
22	6.7	13	13	165	130	38	32	63	144	11	6.0	7.1
23	6.7	12	15	225	108	36	29	52	934	12	5.9	6.8
24	6.4	14	17	167	78	32	26	47	570	11	5.4	6.4
25	5.9	133	257	119	62	30	24	40	152	10	5.2	6.4
26	5.7	184	436	116	52	34	24	35	102	10	5.3	6.4
27	5.9	163	521	229	51	41	23	31	79	9.4	5.4	6.5
28	6.4	139	335	183	82	40	22	28	65	8.9	30	6.8
29	6.9	118	177	237	------	70	22	30	56	8.5	90	7.2
30	8.6	92	130	147	------	170	22	34	46	7.8	73	7.1
31	9.5	------	107	111	------	195	------	30	------	7.4	33	------
TOTAL	235.2	1,077.9	2,701	3,732	1,712	2,054	2,146	1,400	4,118	671.0	427.2	507.1
MEAN	7.59	35.9	87.1	120	61.1	66.3	71.5	45.2	137	21.6	13.8	16.9
MAX	14	184	521	369	130	195	217	131	934	67	90	72
MIN	4.9	7.2	13	27	29	30	22	17	20	7.4	5.2	6.4
CFSM	.18	.85	2.05	2.83	1.44	1.56	1.69	1.07	3.23	.51	.33	.40
IN.	.21	.95	2.37	3.27	1.50	1.80	1.88	1.23	3.61	.59	.37	.44

CAL YR 1973 TOTAL 17,182.8 MEAN 47.1 MAX 521 MIN 4.6 CFSM 1.11 IN 15.08
WTR YR 1974 TOTAL 20,781.4 MEAN 56.9 MAX 934 MIN 4.9 CFSM 1.34 IN 18.23

PEAK DISCHARGE (BASE, 450 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1100	6.48	588	06-23	1900	7.31	1,070
06-15	1800	6.69	688				

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, 8.6 miles (13.8 km) upstream from mouth.

DRAINAGE AREA.--298 mi^2 (772 km^2).

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.--45 years, 277 ft^3/s (7.845 m^3/s), 12.63 in/yr (321 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,340 ft^3/s (123 m^3/s) June 23, gage height, 9.49 ft (2.893 m); minimum daily, 48 ft^3/s (1.36 m^3/s) Aug. 26.

Period of record: Maximum discharge, 12,900 ft^3/s (365 m^3/s) May 28, 1956, gage height, 13.53 ft (4.124 m); minimum daily, 7.8 ft^3/s (0.22 m^3/s) Sept. 28, 1941.

Maximum stage known, 16.3 ft (4.97 m) Mar. 26, 1913, from floodmarks, discharge, 22,000 ft^3/s (623 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	111	434	684	735	635	1,290	179	266	462	76	469
2	73	103	334	541	635	564	1,010	163	223	1,160	73	430
3	72	93	291	450	510	484	926	167	193	901	83	374
4	87	85	320	400	437	469	1,160	161	172	491	83	277
5	96	82	334	350	397	990	1,080	141	167	410	75	210
6	85	80	294	310	430	1,030	820	143	153	311	75	153
7	81	77	250	285	631	787	659	129	250	264	64	121
8	80	77	213	270	541	583	1,030	167	462	240	61	108
9	76	76	188	240	437	480	1,220	188	451	210	64	102
10	74	75	169	270	374	441	1,170	169	469	533	68	98
11	63	74	159	240	337	374	910	153	349	789	95	96
12	63	74	147	230	308	488	727	325	322	441	83	541
13	93	75	195	210	308	407	611	403	266	294	74	413
14	90	75	235	230	320	325	488	320	230	235	77	266
15	80	98	243	264	294	352	444	675	1,530	230	67	176
16	73	103	220	417	264	552	380	680	1,590	169	58	141
17	69	87	169	922	258	533	322	607	816	145	172	119
18	68	87	157	1,480	250	466	291	711	548	132	135	111
19	69	85	170	2,370	424	407	285	820	424	159	129	102
20	116	81	188	2,350	631	349	248	914	358	167	115	100
21	105	106	167	1,990	568	331	215	739	580	135	93	96
22	74	113	151	1,620	828	299	250	541	816	116	73	80
23	58	100	137	1,440	918	294	240	437	3,720	121	63	68
24	57	149	150	1,280	727	283	218	400	3,480	119	62	72
25	58	576	1,200	1,000	521	256	188	334	1,620	106	52	65
26	67	918	2,460	889	430	253	179	285	939	103	48	69
27	67	960	3,350	1,380	397	288	169	256	671	100	66	76
28	69	832	2,720	1,540	525	291	165	232	480	97	208	95
29	76	696	1,550	1,500	------	352	165	269	393	95	495	121
30	92	544	1,070	1,130	------	1,020	186	317	337	81	488	106
31	88	------	881	885	------	1,540	------	297	------	83	291	------
TOTAL	2,396	6,692	18,546	27,167	13,435	15,923	17,046	11,322	22,275	8,899	3,666	5,255
MEAN	77.3	223	598	876	480	514	568	365	743	287	118	175
MAX	116	960	3,350	2,370	918	1,540	1,290	914	3,720	1,160	495	541
MIN	57	74	137	210	250	253	165	129	153	81	48	65
CFSM	.26	.75	2.01	2.94	1.61	1.72	1.91	1.22	2.49	.96	.40	.59
IN.	.30	.84	2.32	3.39	1.68	1.99	2.13	1.41	2.78	1.11	.46	.66

CAL YR 1973 TOTAL 136,742 MEAN 375 MAX 3,350 MIN 57 CFSM 1.26 IN 17.07
WTR YR 1974 TOTAL 152,622 MEAN 418 MAX 3,720 MIN 48 CFSM 1.40 IN 19.05

03353000 White River at Indianapolis, Ind.

LOCATION.--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, 2.5 miles (4.0 km) downstream from Fall Creek, and at mile 235.8 (379.4 km).
DRAINAGE AREA.--1,635 mi^2 (4,235 km^2).
PERIOD OF RECORD.--March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of U.S. Weather Bureau for site 1.1 miles (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.--45 years (1904-5, 1930 to current year), 1,381 ft^3/s (39.11 m^3/s), 11.47 in/yr (291 mm/yr).
EXTREMES.--Current year: Maximum discharge, 15,400 ft^3/s (436 m^3/s) Dec. 28, gage height, 13.25 ft (4.039 m); maximum gage height, 13.46 ft (4.103 m) Jan. 21, minimum daily, 127 ft^3/s (3.60 m^3/s) Aug. 26.
Period of record: Maximum discharge, 37,200 ft^3/s (1,050 m^3/s) May 18, 1943; maximum gage height, 21.57 ft (6.575 m) Jan. 16, 1937; minimum daily discharge, 8.0 ft^3/s (0.23 m^3/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^3/s (1,980 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	534	3,670	3,530	4,140	2,880	8,430	988	2,380	1,420	264	964
2	336	532	2,550	2,770	3,380	2,990	6,250	980	1,890	3,180	281	663
3	297	563	2,040	2,410	2,870	2,630	5,740	1,040	1,600	2,420	369	670
4	559	501	2,000	2,190	2,430	2,430	8,730	1,190	1,380	1,660	291	506
5	1,140	443	2,040	1,970	2,120	3,800	10,000	996	1,360	1,370	285	500
6	1,160	377	1,830	1,700	2,240	5,250	7,380	884	1,420	1,130	265	420
7	804	351	1,410	1,550	2,780	4,620	4,930	836	1,580	989	336	379
8	610	347	1,240	1,430	2,740	3,400	5,330	1,050	2,860	886	410	336
9	494	341	1,090	1,260	2,400	2,800	5,860	1,160	3,010	785	336	297
10	436	343	1,020	1,330	2,080	2,440	5,720	1,340	2,790	1,260	325	231
11	388	336	941	1,200	1,860	2,210	4,890	1,460	2,150	2,040	489	249
12	353	323	861	1,100	1,830	2,280	3,780	2,390	1,640	1,300	379	1,610
13	657	312	1,010	940	1,760	2,060	3,440	2,980	1,320	948	328	1,550
14	506	303	1,220	1,030	2,130	1,750	2,780	2,750	1,200	875	314	964
15	446	512	1,360	1,250	2,190	1,790	2,330	3,700	4,330	796	280	643
16	379	432	1,230	1,610	1,920	2,330	1,980	5,050	4,320	650	267	528
17	349	556	1,030	2,650	1,730	2,380	1,730	5,140	2,660	584	483	446
18	311	558	902	5,100	1,590	2,160	1,540	5,750	1,830	540	663	405
19	297	568	875	10,600	2,050	1,860	1,430	7,270	1,510	1,080	441	357
20	290	713	959	13,500	2,990	1,820	1,600	8,360	1,230	796	311	332
21	307	844	904	14,400	3,380	1,700	1,340	5,780	1,690	578	332	307
22	293	720	763	11,200	3,820	1,550	1,400	4,690	2,940	483	246	283
23	255	683	752	9,740	5,340	1,470	1,270	3,970	13,100	467	198	273
24	249	956	805	9,900	4,730	1,430	1,150	2,920	9,830	441	165	252
25	249	2,700	3,970	7,670	3,230	1,260	1,040	2,330	5,480	401	134	249
26	246	5,370	9,390	5,490	2,470	1,230	1,020	2,000	3,260	366	127	264
27	357	5,970	14,000	6,880	2,130	1,310	1,120	1,740	2,470	364	209	270
28	293	5,600	15,000	8,520	2,330	1,390	990	1,580	1,940	380	743	349
29	405	6,100	11,000	9,070	------	2,220	945	1,810	1,620	316	1,050	469
30	436	5,120	6,230	7,800	------	6,870	940	3,160	1,370	277	698	321
31	457	------	4,510	5,450	------	9,440	------	3,190	------	278	500	------
TOTAL	13,695	43,008	96,602	155,240	74,660	83,750	105,085	88,484	86,160	29,060	11,519	15,087
MEAN	442	1,434	3,116	5,008	2,666	2,702	3,503	2,854	2,872	937	372	503
MAX	1,160	6,100	15,000	14,400	5,340	9,440	10,000	8,360	13,100	3,180	1,050	1,610
MIN	246	303	752	940	1,590	1,230	940	836	1,200	277	127	231
CFSM	.27	.88	1.91	3.06	1.63	1.65	2.14	1.75	1.76	.57	.23	.31
IN.	.31	.98	2.20	3.53	1.70	1.91	2.39	2.01	1.96	.66	.26	.34

CAL YR 1973 TOTAL 712,233 MEAN 1,951 MAX 106,000 MIN 246 CFSM 1.19 IN 16.20
WTR YR 1974 TOTAL 802,350 MEAN 2,198 MAX 15,000 MIN 127 CFSM 1.34 IN 18.26

PEAK DISCHARGE (BASE, 8,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0800	13.25	15,400	03-31	1500	10.70	9,740
01-21	0200	13.46	15,000	04-05	0300	11.25	10,900
01-24	0200	11.12	10,200	06-23	0700	12.69	14,000
01-29	0100	10.62	9,580				

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, and 0.5 mile (0.8 km) downstream from small left-bank tributary.

DRAINAGE AREA.--7.58 mi^2 (19.63 km^2).

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 Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--14 years (1960-74), 7.21 ft^3/s (0.204 m^3/s), 12.92 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) June 22, gage height, 8.40 ft (2.560 m); minimum daily, 0.44 ft^3/s (0.012 m^3/s) Aug. 25.

Period of record: Maximum discharge, 1,610 ft^3/s (45.6 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	7.7	4.2	5.3	4.9	8.5	14	2.8	4.6	1.7	.63	71
2	1.8	2.6	3.3	4.4	4.2	7.2	10	2.6	3.1	1.8	1.7	8.5
3	1.2	1.6	3.1	3.8	3.3	5.3	33	5.3	2.6	1.7	1.9	15
4	13	1.0	22	3.3	2.6	19	13	2.2	2.2	1.5	.52	3.2
5	2.4	1.2	7.7	2.7	2.4	51	9.5	2.0	11	1.2	.57	1.8
6	.88	1.0	4.6	2.3	37	8.1	6.4	2.0	4.6	1.0	.59	1.3
7	.65	.88	3.3	2.1	14	4.9	12	1.8	14	.99	1.1	1.0
8	.60	1.0	2.8	1.9	6.0	3.6	79	14	23	1.2	.68	.95
9	.65	1.2	2.6	3.5	3.9	2.8	30	3.3	5.3	1.2	.56	.77
10	.70	1.2	2.2	5.8	3.1	2.8	15	2.2	32	54	.84	.77
11	.62	1.1	2.0	5.6	2.8	13	8.5	9.0	5.0	5.1	9.9	5.8
12	.60	1.0	2.2	3.3	3.0	21	11	33	4.0	2.3	.73	18
13	22	1.0	12	2.1	3.3	6.4	5.6	4.2	2.8	1.9	.65	3.0
14	3.9	1.0	4.9	6.0	2.8	3.9	4.6	9.0	24	17	.54	1.8
15	1.1	24	3.6	23	2.4	24	3.9	59	50	5.3	.49	1.2
16	.70	3.6	2.5	58	2.4	16	3.3	6.4	6.5	2.0	2.2	1.1
17	.65	1.4	2.0	38	2.2	18	3.1	140	4.2	1.1	10	1.1
18	.65	3.6	1.6	35	2.2	9.0	3.1	29	3.3	1.0	18	1.1
19	.65	1.2	2.2	63	40	6.0	2.6	90	6.1	28	5.7	.94
20	.62	1.1	4.2	46	10	4.2	2.2	15	5.4	3.0	.79	.85
21	.60	19	3.3	26	14	8.1	2.2	7.2	33	1.3	.58	.68
22	.65	3.1	2.4	14	31	3.9	11	5.6	264	1.2	.52	.63
23	.65	2.0	4.9	26	9.0	3.3	3.1	8.5	103	1.8	.52	.63
24	.65	40	37	10	5.6	6.0	2.4	9.0	11	1.0	.46	.67
25	.65	122	175	6.8	5.3	4.6	2.2	3.9	5.6	.91	.44	.69
26	.67	47	139	34	6.4	4.6	2.0	2.8	3.8	1.0	.49	.86
27	1.2	14	50	35	14	3.6	1.8	2.4	3.0	.69	41	4.0
28	1.4	32	19	44	14	3.3	2.2	3.3	2.5	.80	70	12
29	13	10	14	17	------	27	2.2	24	2.1	.63	58	11
30	6.4	6.0	8.5	9.0	------	50	6.0	12	1.8	.62	4.3	1.6
31	16	------	7.0	6.4	------	24	------	14	------	.58	1.6	------
TOTAL	99.14	353.48	553.1	543.3	251.8	373.1	304.9	525.5	643.5	143.52	236.00	171.94
MEAN	3.20	11.8	17.8	17.5	8.99	12.0	10.2	17.0	21.5	4.63	7.61	5.73
MAX	22	122	175	63	40	51	79	140	264	54	70	71
MIN	.60	.88	1.6	1.9	2.2	2.8	1.8	1.8	1.8	.58	.44	.63
CFSM	.42	1.56	2.35	2.31	1.19	1.58	1.35	2.24	2.84	.61	1.00	.76
IN.	.49	1.73	2.71	2.67	1.24	1.83	1.50	2.58	3.16	.70	1.16	.84

CAL YR 1973 TOTAL 3,789.56 MEAN 10.4 MAX 291 MIN .41 CFSM 1.37 IN 18.60
WTR YR 1974 TOTAL 4,199.28 MEAN 11.5 MAX 264 MIN .44 CFSM 1.52 IN 20.61

PEAK DISCHARGE (BASE, 450 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0600	5.88	465	05-19	0915	6.25	556
12-25	0300	5.94	480	06-22	1945	8.40	1,100
12-26	1900	6.49	617	07-10	1215	6.26	559
05-17	1530	7.81	952				

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, and 2.2 miles (3.5 km) downstream from Arlington Avenue.

DRAINAGE AREA.--10.1 mi^2 (26.2 km^2).

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 Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--14 years (1960 to current year), 9.65 ft^3/s (0.273 m^3/s), 12.98 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) June 22, gage height, 7.68 ft (2.341 m); minimum daily, 0.23 ft^3/s (0.007 m^3/s) Aug. 25.
Period of record: Maximum discharge, 2,010 ft^3/s (56.9 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	14	2.9	4.4	3.8	9.0	21	3.8	3.8	2.7	.46	96
2	2.0	3.6	2.5	3.3	3.3	7.6	14	2.9	2.5	2.9	1.7	11
3	1.3	2.7	2.2	2.8	2.7	5.3	44	4.7	2.2	2.7	2.9	20
4	20	1.8	19	2.3	2.2	23	20	2.2	2.0	2.2	.46	5.3
5	2.9	1.6	6.8	2.0	2.0	68	11	2.0	14	2.0	.38	2.9
6	1.5	1.3	3.6	1.7	45	9.5	9.0	1.8	3.6	1.6	.46	2.1
7	.92	1.2	2.7	1.5	17	6.4	17	1.8	18	1.6	1.7	1.5
8	.80	1.2	2.3	3.0	7.2	4.7	112	18	32	1.8	1.2	1.3
9	.80	1.5	2.0	4.5	5.0	3.8	35	3.8	5.7	2.3	.41	1.1
10	.92	1.5	1.5	7.2	4.7	3.8	18	2.7	39	74	.80	1.1
11	.92	1.5	1.2	6.8	3.6	18	9.5	9.0	4.7	6.8	15	8.2
12	.61	1.1	1.2	1.6	3.3	27	14	47	3.3	2.9	1.1	24
13	37	1.3	8.5	3.0	3.6	8.0	6.8	4.7	2.3	2.7	.87	4.9
14	5.7	1.2	4.1	9.0	3.1	5.7	5.7	11	25	29	.55	2.9
15	2.0	38	2.5	27	2.7	30	5.0	78	65	6.0	.30	2.0
16	1.2	4.4	1.9	72	2.7	21	4.4	7.2	6.0	2.5	3.7	1.6
17	1.1	2.0	1.3	38	2.5	22	4.1	200	3.6	1.5	19	1.5
18	.92	3.8	1.2	37	2.5	12	4.1	38	2.9	1.3	24	1.3
19	.80	1.8	1.1	63	48	7.6	3.8	114	6.4	41	9.7	1.2
20	.80	1.3	2.5	47	11	5.7	3.3	18	3.6	3.5	1.5	.88
21	.51	24	2.4	25	16	9.5	3.3	6.8	35	1.5	.83	.65
22	.61	3.8	1.4	11	35	5.3	14	4.7	337	1.1	.47	.38
23	.80	2.3	2.5	25	10	4.4	4.4	7.2	164	1.9	.42	.39
24	.70	40	30	8.0	5.7	7.6	3.3	9.5	18	1.1	.29	.38
25	.70	134	202	5.3	6.4	6.0	3.3	3.3	8.5	.94	.23	.44
26	.80	44	132	46	7.2	6.0	3.1	2.5	6.0	.96	.33	.65
27	1.3	12	54	36	16	5.0	2.9	2.2	4.7	.70	54	7.1
28	2.9	28	17	38	16	4.7	3.1	2.7	3.6	.81	96	18
29	18	8.0	11	18	------	37	2.9	26	3.1	.62	66	18
30	11	4.1	6.8	8.0	------	57	6.4	12	2.7	.53	8.9	3.4
31	21	------	6.0	5.7	------	30	------	18	------	.38	4.7	------
TOTAL	146.51	387.0	536.1	563.1	288.2	470.6	408.4	665.5	828.2	201.54	318.36	240.17
MEAN	4.73	12.9	17.3	18.2	10.3	15.2	13.6	21.5	27.6	6.50	10.3	8.01
MAX	37	134	202	72	48	68	112	200	337	74	96	96
MIN	.51	1.1	1.1	1.5	2.0	3.8	2.9	1.8	2.0	.38	.23	.38
CFSM	.47	1.28	1.71	1.80	1.02	1.51	1.35	2.13	2.73	.64	1.02	.79
IN.	.54	1.43	1.97	2.07	1.06	1.73	1.50	2.45	3.05	.74	1.17	.88

CAL YR 1973 TOTAL 4,408.34 MEAN 12.1 MAX 378 MIN .14 CFSM 1.20 IN 16.24
WTR YR 1974 TOTAL 5,053.68 MEAN 13.8 MAX 337 MIN .23 CFSM 1.37 IN 18.61

PEAK DISCHARGE (BASE, 520 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0600	5.30	600	05-17	1615	7.07	1,160	07-10	1300	5.49	652
12-25	0500	5.05	522	05-19	0945	5.54	665	09-01	0415	5.15	552
12-26	2100	5.51	657	06-22	2230	7.68	1,390				

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.

DRAINAGE AREA.--4.40 mi^2 (11.40 km^2).

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.

EXTREMES.--Current year: Maximum discharge, 556 ft^3/s (15.7 m^3/s) May 17, gage height, 6.57 ft (2.003 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 21.
Period of record: Maximum discharge, 556 ft^3/s (15.7 m^3/s) May 17, 1974, gage height, 6.57 ft (2.003 m); minimum daily, 0.75 ft^3/s (0.021 m^3/s) Feb. 2, 1971.

REMARKS.--Records good.

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	3.4	3.9	3.7	4.4	4.5	5.5	7.4	4.5	2.7	3.0	1.9	10
2	1.8	2.3	3.7	3.7	3.9	7.4	7.4	4.8	2.0	3.0	2.9	2.5
3	1.8	2.1	3.7	3.4	2.9	4.5	13	4.5	2.0	2.8	3.0	3.9
4	4.2	2.1	12	2.9	2.4	7.0	10	3.4	2.0	2.3	1.9	1.9
5	1.6	2.5	5.5	2.5	2.7	22	5.1	3.4	7.4	2.8	2.1	1.9
6	1.4	2.5	3.9	2.3	13	7.0	4.5	3.9	2.9	2.8	2.0	1.8
7	1.3	2.3	3.2	2.3	8.6	5.1	5.5	3.7	5.5	2.9	4.9	1.5
8	2.3	2.5	2.9	5.1	3.9	4.5	34	10	7.4	3.2	2.2	1.4
9	2.5	3.9	2.7	3.9	2.9	4.2	18	3.4	2.5	3.4	2.0	1.4
10	1.8	3.9	2.6	3.2	2.3	3.4	13	2.9	10	14	2.2	1.4
11	1.4	3.0	2.5	2.7	2.1	9.5	10	6.1	2.8	3.9	4.6	5.2
12	1.6	2.6	3.4	2.3	2.5	14	11	17	2.2	3.2	1.6	8.5
13	5.8	2.5	6.6	2.0	2.5	8.2	7.4	4.2	2.1	2.8	2.0	1.9
14	1.8	2.5	3.4	2.5	2.3	5.8	7.4	7.0	3.7	7.7	1.7	1.6
15	1.5	13	3.2	8.6	2.1	11	7.4	23	10	3.3	1.5	1.5
16	1.4	2.9	2.5	21	2.0	13	7.0	5.5	2.3	2.7	3.1	1.9
17	1.3	2.1	2.0	19	1.6	13	6.6	92	2.2	2.4	4.6	2.1
18	1.3	3.4	2.2	18	1.6	8.2	6.6	26	2.3	2.4	14	1.9
19	1.3	2.1	2.5	29	14	7.0	6.6	27	3.6	14	3.1	1.9
20	1.3	2.1	2.2	23	5.5	5.1	5.5	14	2.2	3.6	2.5	2.1
21	1.2	9.0	1.9	14	3.4	8.2	4.8	9.0	6.6	2.4	2.3	1.9
22	1.3	2.3	1.6	10	17	5.8	12	11	44	2.7	2.0	1.9
23	1.3	2.1	3.9	12	6.2	5.2	5.1	9.0	31	2.5	1.9	2.2
24	1.3	16	13	7.8	3.9	4.8	4.5	5.1	8.8	2.5	1.6	2.4
25	1.3	45	57	5.1	3.9	5.2	4.5	3.4	6.1	2.4	1.5	2.3
26	1.3	21	48	15	4.2	5.8	4.5	2.9	5.0	2.3	1.8	2.5
27	3.2	9.5	26	16	6.6	5.5	3.9	2.3	4.5	2.0	4.1	3.6
28	2.1	12	13	18	7.8	5.1	3.7	3.2	4.1	2.1	16	7.1
29	7.8	5.8	11	10	------	12	3.4	7.4	3.3	1.9	10	4.0
30	3.2	4.5	7.0	7.0	-----	23	6.2	7.4	2.9	1.9	2.7	2.0
31	8.2	------	5.4	5.5	------	11	------	6.6	------	1.7	2.2	------
TOTAL	73.0	191.4	262.2	282.2	136.3	257.0	246.0	333.6	194.1	110.6	109.9	86.2
MEAN	2.35	6.38	8.46	9.10	4.87	8.29	8.20	10.8	6.47	3.57	3.55	2.87
MAX	8.2	45	57	29	17	23	34	92	44	14	16	10
MIN	1.2	2.1	1.6	2.0	1.6	3.4	3.4	2.3	2.0	1.7	1.5	1.4
CFSM	.53	1.45	1.92	2.07	1.11	1.88	1.86	2.45	1.47	.81	.81	.65
IN.	.62	1.62	2.22	2.39	1.15	2.17	2.08	2.82	1.64	.94	.93	.73

CAL YR 1973 TOTAL 2,491.12 MEAN 6.83 MAX 98 MIN .82 CFSM 1.55 IN 21.06
WTR YR 1974 TOTAL 2,282.50 MEAN 6.25 MAX 92 MIN 1.2 CFSM 1.42 IN 19.30

PEAK DISCHARGE (BASE, 80 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0530	4.23	156	01-26	1745	3.46	83	06-22	1845	4.75	217
12-25	0200	3.86	118	05-17	1500	6.57	556	08-18	1545	3.70	103
12-26	1945	4.08	140								

03353200 Bagle 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, and 200 ft (61 m) upstream from Long Branch.

DRAINAGE AREA.--103 mi^2 (267 km^2).

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.--17 years, 98.7 ft^3/s (2.795 m^3/s), 13.01 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,410 ft^3/s (153 m^3/s) June 23, gage height, 11.16 ft (3.402 m); minimum daily, 3.7 ft^3/s (0.10 m^3/s) Aug. 27.
Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/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 poor.

REVISIONS.--WSP 2109: Drainage area.

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	4.0	84	225	153	206	312	421	44	118	67	9.6	19
2	13	76	185	135	175	216	496	38	92	56	9.1	17
3	19	52	152	120	143	178	564	43	77	48	9.1	16
4	379	47	188	110	120	159	1,070	34	68	45	9.1	13
5	371	32	233	100	107	618	353	30	77	43	8.7	11
6	173	25	124	90	137	329	243	29	84	37	8.3	9.5
7	104	22	90	82	216	227	185	27	140	33	7.9	8.9
8	64	22	76	98	145	180	728	49	305	30	9.1	8.3
9	44	21	67	80	117	152	492	70	220	39	8.7	7.9
10	33	20	58	75	100	126	286	48	144	35	8.3	7.7
11	25	25	50	70	94	119	192	49	110	37	9.6	7.5
12	21	22	45	65	85	141	154	241	94	27	9.1	194
13	23	18	58	62	107	139	124	129	77	22	8.3	85
14	34	18	70	56	102	117	107	94	95	20	7.5	38
15	30	44	62	65	85	128	85	1,040	649	20	6.7	21
16	27	69	54	92	85	247	71	407	259	18	6.4	12
17	21	44	58	346	80	206	62	672	155	15	10	9.1
18	18	35	62	1,410	78	233	57	901	112	14	14	7.9
19	16	34	56	2,210	206	203	55	1,980	92	24	8.9	6.7
20	15	29	62	959	250	154	49	800	77	161	7.1	6.4
21	14	33	55	1,010	185	150	47	348	94	74	6.0	6.1
22	13	53	45	644	820	133	66	397	699	41	5.3	5.4
23	12	39	33	1,400	371	122	57	256	3,390	33	4.8	5.1
24	11	125	33	554	225	109	46	270	557	26	4.5	4.8
25	11	1,190	1,750	368	171	98	40	170	291	20	4.2	4.6
26	13	796	1,760	429	148	111	39	129	193	18	3.9	4.6
27	13	679	1,380	1,050	124	139	37	105	143	15	3.7	4.8
28	16	982	568	702	302	126	39	88	115	14	8.8	5.4
29	17	644	350	801	------	815	40	127	96	13	36	7.5
30	22	332	239	402	------	1,300	43	186	80	11	47	7.1
31	28	------	188	280	------	801	------	149	------	11	23	------
TOTAL	1,604.0	5,612	8,376	14,018	4,984	8,088	6,248	8,950	8,703	1,067	322.7	561.3
MEAN	51.7	187	270	452	178	261	208	289	290	34.4	10.4	18.7
MAX	379	1,190	1,760	2,210	820	1,300	1,070	1,980	3,390	161	47	194
MIN	4.0	18	33	56	78	98	37	27	68	11	3.7	4.6
CFSM	.50	1.82	2.62	4.39	1.73	2.53	2.02	2.81	2.82	.33	.10	.18
IN.	.58	2.03	3.03	5.06	1.80	2.92	2.26	3.23	3.14	.39	.12	.20

CAL YR 1973 TOTAL 53,433.1 MEAN 146 MAX 1,840 MIN 4.0 CFSM 1.42 IN 19.30
WTR YR 1974 TOTAL 68,534.0 MEAN 188 MAX 3,390 MIN 3.7 CFSM 1.83 IN 24.75

PEAK DISCHARGE (BASE, 1,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	unknown	8.35	2,310	01-23	0500	8.00	2,080	05-15	0900	7.28	1,700
12-25	2100	8.99	2,830	01-27	0300	7.10	1,610	05-17	2200	7.50	1,810
12-26	2400	8.28	2,260	03-30	0500	6.94	1,520	05-19	1700	9.89	3,670
01-19	0500	9.46	3,250	04-04	0400	7.37	1,740	06-23	0800	11.16	5,410

03353200 Eagle Creek at Zionsville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
09...	1605	18.0	41	30	3.3	--	--
NOV.							
23...	1100	10.5	49	55	7.3	--	--
26...	1355	9.0	935	118	298	64	74
JAN.							
25...	0955	4.0	368	31	31	--	--
FEB.							
28...	1240	4.5	283	41	31	--	--
MAY							
10...	1130	12.0	48	42	5.4	--	--
JUNE							
14...	1120	18.5	65	102	18	--	--
JULY							
22...	1010	21.0	41	96	11	--	--
AUG.							
20...	1030	23.0	6.8	32	.59	--	--
28...	1500	21.5	7.7	20	.42	--	--
SEP.							
20...	0850	--	6.4	59	1.0	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT.						
09...	--	--	--	--	--	--
NOV.						
23...	--	--	--	--	--	--
26...	81	89	94	98	98	100
JAN.						
25...	--	--	--	--	--	--
FEB.						
28...	--	--	--	--	--	--
MAY						
10...	--	--	--	--	--	--
JUNE						
14...	--	--	--	--	--	--
JULY						
22...	--	--	--	--	--	--
AUG.						
20...	--	--	--	--	--	--
28...	--	--	--	--	--	--
SEP.						
20...	--	--	--	--	--	--

03353450 Eagle Creek Reservoir near Indianapolis, Ind.

LOCATION.--Lat 39°49'20", long 86°18'11", in NW¼NW¼ 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^2 (419 km^2).

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, 24,840 acre-ft (30.6 hm^3) May 18, elevation, 790.60 ft (240.975 m); minimum, 15,520 acre-ft (19.1 hm^3) Feb. 18, 19, elevation, 783.02 ft (238.664 m).
Period of record: Maximum contents, 24,840 acre-ft (30.6 hm^3) May 18, 1974, elevation, 790.60 ft (240.975 m); minimum, 13,750 acre-ft (17.0 hm^3) 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^3), 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.--Records furnished by Indianapolis Flood Control District.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	788.77	22,400	-
Oct. 31	789.66	23,560	+1,160
Nov. 30	785.75	18,600	-4,960
Dec. 31	783.46	16,010	-2,590
Calendar year 1973	-	-	-3,010
Jan. 31	783.55	17,000	+990
Feb. 28	783.78	16,360	-640
Mar. 31	784.22	16,840	+480
Apr. 30	783.55	17,000	+160
May 31	789.89	23,860	+6,860
June 30	790.01	24,010	+150
July 31	789.80	23,740	-270
Aug. 31	789.57	23,440	-300
Sept. 30	787.78	20,110	-3,330
Water year 1974	-	-	-2,290

03353500 Eagle Creek at Indianapolis, Ind.

LOCATION.--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, 2.9 miles (4.7 km) upstream from mouth of Little Eagle Creek, and 6.9 miles (11.1 km) from mouth.

DRAINAGE AREA.--174 mi^2 (451 km^2).

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.--35 years (1939 to current year), 152 ft^3/s (4.305 m^3/s), 11.86 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,670 ft^3/s (189 m^3/s) June 23, gage height, 8.86 ft (2.701 m); minimum daily 10 ft^3/s (0.28 m^3/s) May 10.

Period of record: Maximum discharge, 28,800 ft^3/s (816 m^3/s) June 28, 1957, gage height, 23.59 ft (7.190 m), from rating curve extended above 9,000 ft^3/s (255 m^3/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, except those for periods of no gage-height record, which are poor. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	33	1,070	335	370	508	542	14	145	76	32	46
2	39	30	459	248	190	438	677	12	174	160	28	25
3	34	34	454	220	225	344	696	119	142	71	22	65
4	39	33	382	190	200	312	1,700	290	93	126	22	67
5	31	28	438	170	170	670	2,500	127	129	72	21	259
6	31	30	237	150	160	690	2,000	34	196	65	21	182
7	29	29	46	140	180	372	1,500	11	233	67	24	261
8	31	28	151	130	220	358	1,700	19	770	66	26	225
9	33	30	151	154	210	362	900	11	560	66	25	100
10	29	33	142	140	170	269	348	10	299	206	28	32
11	30	37	136	130	150	248	386	233	272	68	29	43
12	30	37	133	125	140	248	211	372	160	43	24	301
13	47	35	207	120	135	248	819	237	124	35	22	193
14	38	33	294	112	130	221	326	23	150	30	21	43
15	33	35	273	119	125	225	102	80	1,110	25	21	32
16	31	37	178	161	125	411	25	29	440	23	22	55
17	30	35	130	391	120	382	23	142	269	27	28	30
18	28	34	114	1,300	110	178	23	1,710	193	33	21	27
19	28	286	114	2,500	125	196	139	1,490	190	580	22	25
20	29	536	127	2,300	110	386	491	2,620	73	400	21	23
21	30	519	100	1,800	200	294	181	1,060	241	30	19	23
22	28	491	117	1,100	275	237	38	1,810	1,050	70	26	23
23	28	454	91	1,750	900	312	22	1,600	5,420	340	19	23
24	28	448	100	1,200	500	199	18	171	1,090	60	19	21
25	28	547	986	730	330	104	16	71	637	52	19	19
26	28	583	1,950	540	240	133	221	63	407	48	19	20
27	29	750	1,990	1,100	210	174	308	56	284	46	47	20
28	30	1,360	1,490	1,200	303	174	145	57	192	44	46	26
29	33	1,730	787	1,600	------	396	57	68	187	43	82	26
30	29	1,420	553	1,400	------	1,290	17	66	164	41	27	20
31	34	------	438	760	------	1,260	------	71	------	37	26	------
TOTAL	996	9,715	13,838	22,315	6,323	11,639	16,131	12,676	15,394	3,050	829	2,255
MEAN	32.1	324	446	720	226	375	538	409	513	98.4	26.7	75.2
MAX	51	1,730	1,990	2,500	900	1,290	2,500	2,620	5,420	580	82	301
MIN	28	28	46	112	110	104	16	10	73	23	19	19

CAL YR 1973 TOTAL 79,537 MEAN 218 MAX 1,990 MIN 20
WTR YR 1974 TOTAL 115,161 MEAN 316 MAX 5,420 MIN 10

NOTE.--No gage-height record Jan. 18 to Feb. 25.

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 2.4 miles (3.9 km) upstream from mouth.

DRAINAGE AREA.--23.9 mi^2 (61.9 km^2) including 5.57 mi^2 (14.43 km^2) from Dry Run basin. Since June 1964 part of the flow from the 5.57 mi^2 (14.43 km^2) of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.--October 1959 to current year. Figures of runoff June 1964 to September 1966 have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 710.82 ft (216.658 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--15 years, 18.0 ft^3/s (0.510 m^3/s).

EXTREMES.--Current year: Maximum discharge, 910 ft^3/s (25.8 m^3/s) June 22, gage height, 4.82 ft (1.469 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Oct. 26.
Period of record: Maximum discharge, 1,940 ft^3/s (54.9 m^3/s) Apr. 25, 1961, gage height, 7.44 ft (2.268 m); no flow at times most years.

REMARKS.--Records poor.

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	5.3	11	16	13	21	31	37	7.5	17	9.9	6.0	42
2	12	5.3	14	12	19	24	38	7.5	13	11	8.0	8.0
3	5.3	4.0	12	11	17	20	69	9.1	11	9.1	5.6	11
4	8.3	3.4	35	10	15	28	153	6.7	9.9	8.3	4.4	6.0
5	5.3	3.4	28	9.7	14	147	34	6.0	8.7	7.5	3.7	5.3
6	3.4	2.8	18	9.4	39	39	22	5.3	9.9	6.7	6.0	4.6
7	2.8	3.4	16	12	43	28	20	5.3	77	6.7	17	4.2
8	2.5	2.8	13	17	24	24	153	12	99	5.3	22	4.0
9	2.2	2.5	11	12	19	21	74	6.0	41	5.3	5.3	3.8
10	2.0	3.4	10	11	17	21	37	4.6	21	21	6.1	3.7
11	1.9	2.8	9.0	9.7	15	31	21	43	15	8.3	19	5.9
12	1.8	2.6	8.2	9.1	13	52	18	66	12	4.6	4.7	109
13	30	2.4	22	8.6	12	30	13	11	8.3	4.6	4.0	15
14	9.1	2.3	20	11	15	23	11	13	33	7.6	3.5	6.4
15	4.6	4.6	16	17	13	42	9.1	147	96	4.7	3.1	5.1
16	3.4	4.0	13	57	12	57	8.3	28	20	4.1	4.6	4.6
17	2.8	3.4	11	120	11	41	7.5	145	13	3.7	14	4.4
18	2.4	4.0	9.5	167	11	31	6.7	103	9.9	3.5	9.5	4.3
19	2.2	3.4	8.6	167	54	25	6.0	239	12	128	5.8	4.2
20	2.0	2.8	8.2	117	31	23	5.6	81	13	92	4.0	4.1
21	1.8	4.6	7.8	111	28	24	5.2	212	36	18	3.7	3.9
22	1.7	3.4	11	49	84	21	17	144	350	9.0	3.8	3.8
23	1.6	2.8	15	93	33	18	7.5	53	214	7.0	3.8	3.6
24	1.6	18	26	39	22	15	6.7	45	39	5.8	3.4	3.5
25	1.5	164	360	29	20	19	6.3	22	25	5.0	3.3	3.5
26	1.4	94	170	66	18	20	6.0	17	21	4.4	3.3	3.5
27	1.7	53	123	120	24	20	5.8	15	17	4.1	4.1	4.0
28	2.5	94	48	224	52	19	5.4	14	15	3.8	62	10
29	4.0	44	33	85	------	29	6.7	37	13	3.6	150	9.3
30	6.7	25	20	41	------	108	8.3	25	11	3.5	23	4.0
31	7.5	------	16	29	------	61	------	27	------	3.5	8.0	------
TOTAL	141.3	577.1	1,128.3	1,686.5	696	1,092	818.1	1,557.0	1,280.7	419.6	424.7	304.7
MEAN	4.56	19.2	36.4	54.4	24.9	35.2	27.3	50.2	42.7	13.5	13.7	10.2
MAX	30	164	360	224	84	147	153	239	350	128	150	109
MIN	1.4	2.3	7.8	8.6	11	15	5.2	4.6	8.3	3.5	3.1	3.5

CAL YR 1973 TOTAL 7,654.9 MEAN 21.0 MAX 360 MIN 1.4
WTR YR 1974 TOTAL 10,126.0 MEAN 27.7 MAX 360 MIN 1.4

PEAK DISCHARGE (BASE, 450 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-25	1315	3.00	460	05-21	2015	4.42	795
05-17	1630	3.42	544	06-22	1745	4.82	910

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.

DRAINAGE AREA.--15.6 mi^2 (40.4 km^2).

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).

EXTREMES.--Current year: Maximum discharge, 1,900 ft^3/s (53.8 m^3/s) May 17, gage height, 7.37 ft (2.246 m); minimum daily, 2.4 ft^3/s (0.068 m^3/s) Oct. 9, 11, 12.
Period of record: Maximum discharge, 1,900 ft^3/s (53.8 m^3/s) May 17, 1974, gage height, 7.37 ft (2.246 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) May 4, 1971.

REMARKS.--Records good.

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	6.2	21	17	20	20	35	46	9.1	17	8.4	2.9	69
2	5.2	7.3	15	17	16	39	37	7.6	12	7.6	4.0	13
3	3.7	6.5	13	15	14	27	62	8.4	11	7.3	6.2	16
4	7.2	5.5	44	13	12	35	48	6.5	9.7	6.5	3.4	8.0
5	5.5	5.9	27	11	21	103	31	6.2	23	6.5	3.1	5.5
6	3.4	5.5	16	10	68	40	25	5.9	15	5.9	2.9	4.6
7	2.9	6.2	12	13	26	28	30	5.5	23	5.5	5.5	4.0
8	2.6	6.5	11	21	19	22	163	18	48	5.5	3.7	3.7
9	2.4	6.9	9.0	18	15	19	83	7.6	26	5.2	3.1	3.4
10	2.6	6.5	8.0	15	13	15	51	6.2	50	62	4.3	3.1
11	2.4	5.8	7.3	12	14	40	33	12	19	20	9.1	7.6
12	2.4	5.6	8.0	10	15	74	34	87	14	8.4	5.9	41
13	19	5.8	20	9.0	14	37	23	19	11	6.2	4.0	8.7
14	8.4	6.5	15	15	12	25	19	15	12	12	3.7	5.5
15	4.0	20	12	29	11	46	14	115	51	16	3.7	4.6
16	3.4	9.1	9.0	104	11	55	12	33	14	6.2	4.0	5.2
17	3.1	6.5	8.4	122	10	50	11	459	11	4.9	15	4.0
18	3.4	8.0	7.3	100	11	39	11	168	9.4	4.9	14	4.0
19	4.0	6.5	7.3	128	84	28	9.8	155	11	38	9.1	3.7
20	4.6	4.9	8.7	97	35	22	9.4	72	9.4	12	5.2	3.4
21	4.3	25	8.4	95	50	26	9.1	41	22	6.2	4.0	3.4
22	4.9	11	8.0	55	87	19	19	30	303	5.2	3.4	3.1
23	4.9	7.6	10	39	37	17	9.8	27	342	6.2	2.9	3.1
24	5.5	52	60	28	24	20	8.7	21	58	4.6	2.6	2.9
25	6.2	168	250	62	20	17	8.4	15	29	4.0	2.6	2.9
26	6.5	113	200	74	20	21	8.0	13	20	3.7	2.9	3.1
27	7.6	56	100	76	35	18	8.0	12	14	3.7	9.4	5.5
28	9.1	56	60	56	54	17	7.6	12	10	3.1	87	10
29	14	34	40	36	------	58	7.6	29	9.4	3.1	54	21
30	14	23	30	27	------	146	9.8	26	8.4	3.1	14	5.9
31	13	------	25	22	------	73	------	33	------	2.9	8.4	------
TOTAL	186.4	702.1	1,066.4	1,349.0	768	1,211	848.2	1,475.0	1,212.3	294.8	304.0	278.9
MEAN	6.01	23.4	34.4	43.5	27.4	39.1	28.3	47.6	40.4	9.51	9.81	9.30
MAX	19	168	250	128	87	146	163	459	342	62	87	69
MIN	2.4	4.9	7.3	9.0	10	15	7.6	5.5	8.4	2.9	2.6	2.9
CFSM	.39	1.50	2.21	2.79	1.76	2.51	1.81	3.05	2.59	.61	.63	.60
IN.	.44	1.67	2.54	3.22	1.83	2.89	2.02	3.52	2.89	.70	.72	.67

CAL YR 1973 TOTAL 8,241.3 MEAN 22.6 MAX 300 MIN 2.0 CFSM 1.45 IN 19.65
WTR YR 1974 TOTAL 9,696.1 MEAN 26.6 MAX 459 MIN 2.4 CFSM 1.71 IN 23.12

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0700	4.50	387	03-05	0215	3.80	206	05-17	1515	7.37	1,900
12-25	unknown	5.20	639	03-29	2230	4.11	279	06-22	2215	6.64	1,390
01-16	1900	3.83	213	04-08	1100	3.81	208	07-10	1500	3.85	217
01-19	0500	3.85	217	05-15	0430	3.94	238				

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^2 (74.6 km^2).

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.--16 years, 28.7 ft^3/s (0.813 m^3/s), 13.53 in/yr (344 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) June 22, gage height, 6.75 ft (2.057 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Aug. 25, 26.

Period of record: Maximum discharge, 3,330 ft^3/s (94.3 m^3/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^3/s (189 m^3/s), from contracted-opening measurement.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

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	1.5	7.0	47	52	66	90	79	14	57	19	.45	12
2	2.6	4.7	38	45	57	64	82	13	43	17	.62	5.0
3	1.4	3.2	31	36	43	51	150	14	33	15	.72	3.0
4	1.4	2.1	63	31	35	61	238	9.7	28	14	.67	2.1
5	1.5	2.1	61	28	32	251	100	9.1	26	15	.53	1.6
6	.88	1.9	35	25	59	100	76	8.6	26	12	.49	1.2
7	.78	1.5	26	22	73	68	65	6.8	102	11	.53	.95
8	.78	1.7	22	21	47	53	212	14	157	10	.72	.80
9	.88	1.7	21	33	35	45	127	11	90	9.7	.67	.64
10	.78	1.4	18	29	31	42	81	7.7	52	8.6	.77	.50
11	.78	1.4	15	25	28	66	62	20	37	8.1	1.1	1.5
12	.88	1.4	14	31	26	108	51	59	30	6.4	.67	30
13	5.8	1.5	20	56	27	80	41	28	23	5.6	.49	15
14	3.8	1.7	22	27	25	57	36	25	61	5.2	.36	7.0
15	1.9	4.4	19	24	22	80	28	247	149	4.8	.29	4.0
16	1.4	4.1	15	87	22	112	24	94	55	4.2	.36	2.5
17	1.2	2.4	18	338	20	74	22	287	32	3.6	1.4	1.6
18	1.1	3.2	19	506	20	60	20	332	24	3.3	.53	1.1
19	1.2	2.9	12	443	88	49	18	400	22	4.2	1.4	.88
20	1.2	2.4	18	286	74	40	16	204	19	3.3	1.2	.75
21	1.2	6.6	15	289	65	40	16	277	29	2.3	.53	.65
22	1.1	7.8	12	149	201	35	31	226	367	1.8	.29	.54
23	1.2	6.2	10	242	96	32	21	134	470	2.3	.26	.47
24	1.1	21	24	112	64	29	16	98	111	2.1	.14	.44
25	1.1	318	654	87	50	29	14	68	69	1.4	.10	.39
26	1.4	199	551	174	40	35	14	54	50	1.2	.10	.39
27	1.2	118	398	282	43	39	12	44	37	.94	14	.72
28	1.5	312	180	222	119	34	16	37	30	.88	20	1.8
29	2.1	134	121	183	------	38	14	90	25	.77	35	3.6
30	3.5	70	83	107	------	128	15	93	22	.62	10	1.2
31	3.8	------	64	82	------	122	------	90	------	.49	4.0	------
TOTAL	50.96	1,245.3	2,646	4,074	1,508	2,112	1,697	3,014.9	2,276	194.80	98.39	102.32
MEAN	1.64	41.5	85.4	131	53.9	68.1	56.6	97.3	75.9	6.28	3.17	3.41
MAX	5.8	318	654	506	201	251	238	400	470	19	35	30
MIN	.78	1.4	10	21	20	29	12	6.8	19	.49	.10	.39
CFSM	.06	1.44	2.97	4.55	1.87	2.36	1.97	3.38	2.64	.22	.11	.12
IN.	.07	1.61	3.42	5.26	1.95	2.73	2.19	3.89	2.94	.25	.13	.13

CAL YR 1973 TOTAL 17,302.41 MEAN 47.4 MAX 654 MIN .62 CFSM 1.65 IN 22.35
WTR YR 1974 TOTAL 19,019.67 MEAN 52.1 MAX 654 MIN .10 CFSM 1.81 IN 24.57

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-25	1715	5.67	875	05-17	1615	5.37	788
12-26	1930	6.20	1,040	05-21	1930	5.43	805
01-19	0315	5.08	707	06-22	2030	6.75	1,240

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, 1.0 mile (1.6 km) downstream from McCracken Creek, and 2.0 miles (3.2 km) upstream from East Fork White Lick Creek.

DRAINAGE AREA.--212 mi^2 (549 km^2).

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.--17 years, 215 ft^3/s (6.089 m^3/s), 13.77 in/yr (350 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,660 ft^3/s (160 m^3/s) June 23, gage height, 19.59 ft (5.971 m); minimum daily, 24 ft^3/s (0.68 m^3/s) Oct. 12, 27.

Period of record: Maximum discharge, 18,000 ft^3/s (510 m^3/s) Mar. 4, 1963, gage height, 22.95 ft (6.995 m); minimum daily, 2.0 ft^3/s (0.057 m^3/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 Indiana Flood Control and Water Resources Commission.

REMARKS.--Records good.

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	38	64	394	346	422	681	616	149	461	158	31	388
2	55	58	304	302	355	474	684	138	324	142	41	194
3	44	44	258	260	288	381	778	144	258	131	43	158
4	50	39	379	225	244	368	1,500	129	213	122	33	117
5	57	35	577	200	219	1,400	758	118	198	174	29	90
6	50	32	343	175	325	745	1,170	109	196	122	29	73
7	36	31	250	160	557	510	438	104	542	108	43	65
8	31	30	207	160	334	381	1,370	126	1,740	99	112	58
9	29	29	187	242	268	317	1,190	142	950	88	44	54
10	27	28	176	242	226	298	697	120	532	86	45	52
11	25	28	151	228	180	425	518	117	355	88	81	51
12	24	27	142	130	196	886	417	703	282	81	45	588
13	82	26	160	125	202	649	336	346	225	71	39	307
14	88	26	202	198	194	438	296	254	190	68	59	160
15	49	39	187	224	181	469	260	1,620	689	63	38	107
16	35	48	150	583	176	918	232	790	405	58	35	79
17	29	44	120	1,560	169	560	213	1,290	258	57	85	66
18	29	43	110	2,080	165	456	198	2,320	192	52	43	57
19	27	40	115	2,830	439	386	189	1,810	171	83	51	51
20	26	36	129	1,520	574	322	178	1,410	153	171	45	49
21	26	47	145	1,780	368	322	167	1,070	174	95	36	46
22	26	56	110	1,010	1,300	288	250	2,210	488	72	34	42
23	26	56	100	1,380	796	272	215	940	4,370	60	32	40
24	25	126	149	906	490	252	178	745	1,010	54	31	39
25	25	1,460	3,200	656	300	240	158	501	854	48	29	37
26	25	1,390	3,360	664	260	262	149	376	378	46	29	36
27	24	1,020	2,780	1,850	304	282	144	300	282	42	41	38
28	26	1,380	1,140	1,300	694	270	146	256	232	41	566	46
29	28	1,110	774	1,440	------	312	152	536	196	41	609	105
30	34	577	563	752	------	915	149	784	172	38	308	60
31	39	------	456	563	------	1,010	------	694	------	37	278	------
TOTAL	1,135	7,969	17,318	24,091	10,226	15,489	13,746	20,351	16,490	2,596	2,964	3,253
MEAN	36.6	266	559	777	365	500	458	656	550	83.7	95.6	108
MAX	88	1,460	3,360	2,830	1,300	1,400	1,500	2,320	4,370	174	609	588
MIN	24	26	100	125	165	240	144	104	153	37	29	36
CFSM	.17	1.25	2.64	3.67	1.72	2.36	2.16	3.09	2.59	.39	.45	.51
IN.	.20	1.40	3.04	4.23	1.79	2.72	2.41	3.57	2.89	.46	.52	.57

CAL YR 1973 TOTAL 116,433 MEAN 319 MAX 3,360 MIN 23 CFSM 1.50 IN 20.43
WTR YR 1974 TOTAL 135,628 MEAN 372 MAX 4,370 MIN 24 CFSM 1.75 IN 23.80

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-25	2200	19.10	3,160	05-17	2330	16.96	3,430	06-08	0100	16.38	3,060
12-26	2330	18.81	4,900	05-18	1900	16.36	3,040	06-23	0400	19.59	5,660
01-19	1000	17.21	3,620	05-22	0300	17.85	4,100				

03354000 White River near Centerton, Ind.

LOCATION.--Lat 39°30'02", long 86°24'24", in SW¼SE¼ sec.3, T.12 N., R.1 E., Morgan County, on right bank 0.4 mile (0.6 km) downstream from bridge on Blue Bluff Road, 1 mile (1.6 km) south of Centerton, 1.1 miles (1.8 km) downstream from White Lick Creek, and at mile 202.6 (326.0 km).

DRAINAGE AREA.--2,444 mi^2 (6,330 km^2).

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.

AVERAGE DISCHARGE.--29 years (1930-31, 1946 to current year, 2,372 ft^3/s (67.18 m^3/s), 13.18 in/yr (335 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,900 ft^3/s (649 m^3/s) Jan. 21, gage height, 13.94 ft (4.249 m); minimum daily, 530 ft^3/s (15.0 m^3/s) Aug. 25, 26.
Period of record: Maximum discharge, 50,500 ft^3/s (1,430 m^3/s) Apr. 22, 1964, gage height, 17.57 ft (5.355 m); minimum daily, 131 ft^3/s (371 m^3/s) Nov. 15, 1930.
Flood in March 1913 reached a stage of 22.8 ft (6.95 m) at Martinsville site (from information by State Highway Department of Indiana) and 21.9 ft (6.68 m) at present site (from information by Corps of Engineers), discharge, 90,000 ft^3/s (2,550 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	748	1,080	7,220	6,570	7,520	4,720	12,600	1,730	4,590	2,300	701	2,090
2	839	945	5,370	5,310	6,050	4,960	11,000	1,700	3,630	3,180	681	2,190
3	724	995	4,420	4,660	5,130	4,530	9,160	1,660	2,910	3,890	802	1,620
4	814	952	4,020	4,250	4,360	4,050	11,100	1,720	2,500	2,770	760	1,410
5	1,260	869	4,510	3,900	3,810	6,020	12,600	1,730	2,220	2,460	700	1,310
6	1,660	808	3,950	3,550	3,630	7,080	13,000	1,580	2,400	2,030	700	1,290
7	1,370	754	3,130	3,330	5,010	7,360	9,650	1,430	2,420	1,770	670	1,120
8	1,110	736	2,600	2,800	4,560	5,720	9,930	1,380	5,600	1,600	936	1,060
9	974	712	2,370	2,600	3,990	4,580	11,200	1,640	5,770	1,490	802	998
10	875	688	2,160	2,750	3,450	4,030	9,420	1,700	5,330	1,390	742	864
11	820	682	1,960	2,500	2,990	3,830	8,320	1,760	4,260	2,550	894	821
12	778	664	1,820	2,300	2,760	5,140	6,510	4,070	3,410	2,150	844	2,060
13	790	664	1,840	2,000	2,660	4,620	5,900	4,100	2,740	1,620	760	2,730
14	1,360	658	2,160	2,190	2,860	3,570	5,040	3,820	2,300	1,350	730	1,960
15	923	712	2,340	2,410	3,050	3,110	4,120	5,400	4,520	1,350	694	1,390
16	851	974	2,200	3,820	2,860	4,470	3,530	8,200	6,780	1,180	670	1,110
17	772	863	1,900	6,700	2,610	4,290	3,110	7,400	5,100	1,070	1,200	1,000
18	736	966	1,690	8,300	2,420	3,990	2,820	8,500	3,600	985	1,400	886
19	700	909	1,600	13,500	2,970	3,350	2,630	9,600	2,950	1,270	900	832
20	694	1,150	1,620	16,300	4,310	3,340	2,820	11,000	2,440	1,840	940	826
21	676	1,340	1,680	22,000	4,770	3,160	2,630	9,000	2,570	1,350	800	795
22	682	1,420	1,450	21,500	6,140	2,900	2,680	7,400	3,120	1,060	660	724
23	676	1,240	1,420	17,300	7,290	2,660	2,600	6,000	13,000	1,020	600	683
24	640	1,460	1,540	15,200	7,550	2,600	2,300	5,200	18,000	972	560	664
25	646	5,840	8,150	14,100	5,730	2,450	2,090	4,410	13,800	906	530	630
26	628	7,880	13,700	10,700	4,310	2,350	1,970	3,580	6,780	851	530	625
27	634	9,500	18,700	12,100	3,740	2,360	1,930	3,050	4,630	823	1,000	610
28	736	9,000	20,400	12,300	4,290	2,440	1,940	2,670	3,700	828	1,450	725
29	664	9,690	20,300	14,200	------	2,530	1,810	2,620	3,040	793	2,450	1,170
30	916	8,980	14,900	13,100	------	6,860	1,730	3,880	2,610	749	2,690	849
31	802	------	8,470	10,700	------	11,500	------	6,500	------	714	1,790	------
TOTAL	26,498	73,131	169,590	262,940	120,820	134,570	176,140	134,430	146,720	48,311	29,586	35,042
MEAN	855	2,438	5,471	8,482	4,315	4,341	5,871	4,336	4,891	1,558	954	1,168
MAX	1,660	9,690	20,400	22,000	7,550	11,500	13,000	11,000	18,000	3,890	2,690	2,730
MIN	628	658	1,420	2,000	2,420	2,350	1,730	1,380	2,220	714	530	610
CFSM	.35	1.00	2.24	3.47	1.77	1.78	2.40	1.77	2.00	.64	.39	.48
IN.	.40	1.11	2.58	4.00	1.84	2.05	2.68	2.05	2.23	.74	.45	.53

CAL YR 1973 TOTAL 1,242,378 MEAN 3,404 MAX 20,400 MIN 628 CFSM 1.39 IN 18.91
WTR YR 1974 TOTAL 1,357,778 MEAN 3,720 MAX 22,000 MIN 530 CFSM 1.52 IN 20.67

PEAK DISCHARGE (BASE, 9,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-27	0300	8.41	9,910	01-29	1000	11.34	14,500	04-08	2100	9.88	12,200
11-29	0100	8.32	9,780	04-01	1200	10.28	12,800	05-20	unknown	unknown	11,500
12-29	0300	13.52	20,700	04-05	2300	10.86	13,700	06-24	1400	13.18	19,000
01-21	1600	13.94	22,900								

03354500 Beanblossom Creek at Beanblossom, Ind.

LOCATION.--Lat 39°15'45", long 86°14'55", in SW¼NW¼ 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, and 2.5 miles (4.0 km) upstream from North Fork Beanblossom Creek.

DRAINAGE AREA.--14.6 mi^2 (37.8 km^2).

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.--23 years, 15.9 ft^3/s (0.450 m^3/s), 14.79 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) May 21, gage height, 8.61 ft (2.624 m); minimum daily, no flow Aug. 16.
Period of record: Maximum discharge, 8,140 ft^3/s (231 m^3/s) June 23, 1960, gage height, 11.78 ft (3.591 m), from curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of contracted-opening measurement; no flow for many days in most years.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1555: 1952, 1953(M), 1956-57. WSP 1705: 1952(P).

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	.26	1.0	7.0	17	17	21	31	12	47	1.1	.13	33
2	.35	.57	5.6	13	16	23	28	11	25	.89	.04	3.5
3	.31	.48	4.9	11	14	20	25	14	17	.70	.57	2.7
4	.31	.44	9.8	10	12	19	22	11	13	.61	.17	1.8
5	.26	.57	10	9.8	12	67	18	9.5	11	.61	.15	1.2
6	.22	.52	7.3	9.4	26	36	17	8.4	12	.57	.13	.95
7	.22	.48	5.6	9.1	53	25	15	7.3	9.8	.61	.13	.89
8	.26	.44	4.9	9.0	27	20	288	21	19	.57	.13	.70
9	.26	.48	4.5	10	20	18	92	42	20	.52	.13	.66
10	.22	.44	4.1	11	16	29	50	23	14	.89	.04	2.1
11	.17	.39	3.5	10	15	69	33	17	9.8	1.1	.17	17
12	.13	.44	3.7	9.4	13	190	28	21	8.1	.52	.15	66
13	.39	.44	4.5	9.0	12	64	23	15	6.1	.39	.13	17
14	.39	.44	4.5	11	11	36	19	12	5.2	.35	.11	9.8
15	.13	1.8	4.3	23	9.8	32	16	26	4.7	.26	.09	5.4
16	.09	.70	3.9	51	9.3	42	14	18	3.9	.22	0	3.9
17	.17	.39	3.7	62	8.7	32	12	54	3.5	.22	.17	3.0
18	.22	.35	3.2	72	8.4	26	11	61	3.0	.22	.13	2.4
19	.22	.26	3.5	194	38	21	10	209	3.2	.22	.09	2.0
20	.22	.26	4.9	139	28	18	9.3	72	3.0	.22	.06	20
21	.22	1.4	4.2	123	22	37	8.4	301	3.3	.17	.04	21
22	.22	.89	3.8	49	64	26	29	153	8.4	.17	.04	8.1
23	.26	.57	3.5	59	38	22	22	83	33	.22	.04	4.9
24	.26	2.7	33	40	28	21	16	36	11	.22	.04	3.7
25	.26	86	206	27	24	20	14	22	6.4	.22	.04	2.9
26	.22	55	110	48	21	22	12	15	4.5	.22	.04	2.6
27	.26	39	86	70	22	20	10	12	3.2	.22	.04	16
28	.31	24	46	40	28	18	9.3	9.5	2.3	.26	3.0	24
29	.48	13	34	32	------	21	8.1	24	1.8	.17	1.8	102
30	.57	9.0	26	25	------	56	12	167	1.3	.13	.52	22
31	.66	------	21	20	------	44	------	174	------	.11	.39	------
TOTAL	8.52	242.45	676.9	1,222.7	613.2	1,115	902.1	1,660.7	313.5	12.90	8.71	401.20
MEAN	.27	8.08	21.8	39.4	21.9	36.0	30.1	53.6	10.5	.42	.28	13.4
MAX	.66	86	206	194	64	190	288	301	47	1.1	3.0	102
MIN	.09	.26	3.2	9.0	8.4	18	8.1	7.3	1.3	.11	0	.66
CFSM	.02	.55	1.49	2.70	1.50	2.47	2.06	3.67	.72	.03	.02	.92
IN.	.02	.62	1.72	3.12	1.56	2.84	2.30	4.23	.80	.03	.02	1.02

CAL YR 1973 TOTAL 7,918.24 MEAN 21.7 MAX 418 MIN .09 CFSM 1.49 IN 20.18
WTR YR 1974 TOTAL 7,177.88 MEAN 19.7 MAX 301 MIN 0 CFSM 1.35 IN 18.29

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
04-08	1200	6.89	905	05-21	1700	8.61	1,580
05-19	1300	6.75	863				

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, and 9.2 miles (14.8 km) northeast of Bloomington.

DRAINAGE AREA.--70.9 mi^2 (184 km^2).

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, 16,440 acre-ft (20.3 hm^3) Apr. 8, gage height, 11.15 ft (3.399 m); minimum, 11,470 acre-ft (14.1 hm^3) Nov. 15, gage height, 7.95 ft (2.423 m).
Period of record: Maximum contents, 20,470 acre-ft (25.2 hm^3) May 24, 1968, gage height, 13.32 ft (4.060 m); minimum, 5,390 acre-ft (6.65 hm^3) 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^3). Reservoir is used for flood control, low-flow augmentation, and recreation. Reservoir put in operation on April 15, 1953.

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

REVISIONS.--WRD Ind. 1968: Drainage area.

Month-end gage height and contents, water year October 1973 to September 1974

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8.80	12,720	-
Oct. 31	8.18	11,850	-870
Nov. 30	9.53	13,850	+2,000
Dec. 31	10.32	15,110	+1,260
Calendar year 1973	-	-	+430
Jan. 31	10.29	15,060	-50
Feb. 28	10.33	15,130	+70
Mar. 31	10.45	15,320	+190
Apr. 30	10.22	14,950	-370
May 31	10.81	15,900	+950
June 30	10.04	14,660	-1,240
July 31	9.15	13,240	-1,420
Aug. 31	8.71	12,590	-650
Sept. 30	9.56	13,900	+1,310
Water year 1974	-	-	-1,180

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 17.5 miles (28.2 km) upstream from mouth.

DRAINAGE AREA.--100 mi^2 (259 km^2).

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.--28 years, 112 ft^3/s (3.172 m^3/s), 15.21 in/yr (386 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Apr. 9, gage height, 11.98 ft (3.652 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Oct. 6, 8-12, Dec. 12, Aug. 4-8, 12-16, 18-27, 30, 31, Sept. 7-9.
Period of record: Maximum discharge, 9,420 ft^3/s (267 m^3/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 8.1 miles (13.0 km) upstream (See sta 03355400).

REVISIONS (WATER YEARS).--WSP 1113: 1947. WSP 1275: Drainage area.

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	14	19	20	158	130	188	271	94	866	22	14	156
2	14	17	18	105	103	187	273	94	343	20	14	26
3	14	17	16	80	85	173	382	86	189	19	14	18
4	14	17	23	70	67	154	425	83	119	18	13	15
5	14	18	28	62	73	321	218	73	91	17	13	14
6	13	17	22	56	66	314	164	63	99	16	13	14
7	14	17	18	50	176	238	132	54	105	16	13	13
8	13	17	17	49	193	182	779	69	139	15	13	13
9	13	17	16	51	152	144	1,260	199	218	14	14	13
10	13	17	15	59	120	174	623	189	163	14	14	14
11	13	17	14	62	93	239	356	154	103	14	14	17
12	13	17	13	54	84	857	256	185	77	14	13	71
13	16	17	16	51	76	983	195	155	58	14	13	159
14	15	17	18	50	69	491	152	123	45	14	13	108
15	14	25	17	51	61	281	118	213	37	14	13	68
16	14	21	16	137	52	298	106	196	30	14	13	46
17	14	17	15	357	46	268	88	178	26	14	14	35
18	15	16	14	448	47	231	76	426	23	14	13	28
19	15	16	14	916	125	179	72	662	23	15	13	25
20	16	15	24	806	210	140	71	881	22	15	13	23
21	15	19	21	992	183	170	64	459	22	14	13	32
22	15	17	19	656	262	203	92	615	31	14	13	32
23	15	16	16	442	303	170	154	671	201	15	13	27
24	14	26	45	395	251	154	135	391	132	14	13	23
25	15	236	737	271	191	139	110	223	79	14	13	20
26	16	118	900	237	148	136	94	148	54	14	13	17
27	16	85	1,020	488	144	141	83	101	41	14	13	17
28	16	49	597	371	194	131	73	75	32	14	25	36
29	17	32	359	279	------	126	65	84	29	14	15	243
30	18	24	272	213	------	282	66	1,100	26	14	13	229
31	18	------	217	159	------	315	------	1,180	------	14	13	------
TOTAL	456	973	4,557	8,175	3,704	8,009	6,953	9,224	3,423	468	424	1,552
MEAN	14.7	32.4	147	264	132	258	232	298	114	15.1	13.7	51.7
MAX	18	236	1,020	992	303	983	1,260	1,180	866	22	25	243
MIN	13	15	13	49	46	126	64	54	22	14	13	13
CFSM	.15	.32	1.47	2.64	1.32	2.58	2.32	2.98	1.14	.15	.14	.52
IN.	.17	.36	1.70	3.04	1.38	2.98	2.59	3.43	1.27	.17	.16	.58

CAL YR 1973 TOTAL 50,908 MEAN 139 MAX 1,810 MIN 13 CFSM 1.39 IN 18.94
WTR YR 1974 TOTAL 47,918 MEAN 131 MAX 1,260 MIN 13 CFSM 1.31 IN 17.83

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^2 (7.77 km^2).

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.--5 years, 4.15 ft^3/s (0.118 m^3/s), 18.79 in/yr (477 mm/yr).

EXTREMES.--Current year: Maximum discharge, 219 ft^3/s (6.20 m^3/s) May 15, gage height, 3.44 ft (1.049 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Aug. 22, 24-26.
Period of record: Maximum discharge, 632 ft^3/s (17.9 m^3/s) July 24, 1971, gage height, 5.29 ft (1.612 m); no flow at times during August, September, and October 1970.

REMARKS.--Records fair.

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	.54	1.2	5.2	4.3	5.8	11	7.9	1.4	4.4	1.1	.03	.38
2	1.5	.59	4.6	3.9	5.2	8.4	8.4	1.3	3.3	.95	.03	.09
3	.52	.40	4.1	3.4	4.1	7.2	11	1.3	2.7	.82	.03	.08
4	.42	.32	8.4	3.1	3.1	12	12	.99	2.1	.79	.03	.03
5	.34	.34	5.8	2.7	2.9	27	5.8	.89	3.4	.76	.03	.03
6	.23	.26	4.1	2.4	8.8	6.8	4.1	.79	3.3	.67	.03	.03
7	.20	.26	3.7	2.1	6.4	4.9	4.4	.70	5.5	.62	.05	.03
8	.19	.26	3.6	1.9	4.6	4.1	26	1.6	9.3	.57	.04	.04
9	.16	.23	3.4	2.4	3.6	3.9	7.5	1.1	7.2	.57	.03	.06
10	.14	.19	3.2	2.2	3.1	7.9	4.9	.89	4.9	.54	.05	.03
11	.10	.19	3.0	1.9	2.9	14	3.9	.95	3.6	.49	.04	.13
12	.08	.20	3.1	1.8	3.0	20	3.6	2.1	3.1	.42	.04	4.8
13	1.1	.20	3.7	1.8	3.2	8.8	3.1	1.1	2.3	.36	.04	.86
14	.92	.31	3.3	2.1	2.7	5.8	2.9	1.1	10	.32	.03	.46
15	.49	1.8	3.0	2.4	2.2	12	2.5	29	15	.29	.03	.35
16	.32	1.4	2.8	11	2.2	12	2.1	7.2	4.4	.24	.03	.20
17	.23	1.0	2.5	43	2.0	7.5	1.8	36	3.2	.36	.03	.17
18	.22	1.3	2.2	50	2.1	6.1	1.6	36	2.3	.16	.03	.13
19	.18	1.1	2.0	40	8.8	5.2	1.6	29	2.4	.15	.03	.10
20	.16	.95	2.6	41	6.1	4.1	1.4	12	1.8	.15	.03	.21
21	.14	2.2	2.2	25	13	4.6	1.3	9.3	5.8	.13	.03	.13
22	.14	2.6	2.0	16	27	3.9	4.9	9.8	37	.12	.02	.09
23	.13	1.6	2.5	22	11	3.7	2.4	9.3	28	.11	.03	.08
24	.12	5.5	5.2	7.2	8.4	3.5	1.6	6.1	6.8	.08	.02	.06
25	.09	57	95	5.2	6.8	3.0	1.5	4.4	4.4	.09	.02	.06
26	.09	24	51	35	5.5	3.5	1.4	3.7	3.3	.08	.02	.06
27	.09	11	18	23	6.8	4.4	1.2	3.0	2.7	.06	.03	.10
28	.14	54	8.8	32	19	3.9	1.5	2.8	2.0	.06	.24	.23
29	.14	10	7.5	15	------	5.8	1.3	7.2	1.6	.05	2.3	.74
30	.38	6.8	5.8	9.3	------	22	1.6	8.8	1.3	.04	.19	.27
31	.76	------	5.2	6.8	------	14	------	8.4	------	.03	.04	------
TOTAL	10.26	187.20	277.5	419.9	180.3	261.0	135.2	238.21	187.1	11.18	3.62	10.03
MEAN	.33	6.24	8.95	13.5	6.44	8.42	4.51	7.68	6.24	.36	.12	.33
MAX	1.5	57	95	50	27	27	26	36	37	1.1	2.3	4.8
MIN	.08	.19	2.0	1.8	2.0	3.0	1.2	.70	1.3	.03	.02	.03
CFSM	.11	2.08	2.98	4.50	2.15	2.81	1.50	2.56	2.08	.12	.04	.11
IN.	.13	2.32	3.44	5.21	2.24	3.24	1.68	2.95	2.32	.14	.04	.12

CAL YR 1973 TOTAL 1,854.15 MEAN 5.08 MAX 95 MIN .03 CFSM 1.69 IN 22.99
WTR YR 1974 TOTAL 1,921.50 MEAN 5.26 MAX 95 MIN .02 CFSM 1.75 IN 23.83

PEAK DISCHARGE (BASE, 150 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0815	3.37	198	01-26	1915	3.29	176	05-17	1530	3.31	182
11-28	0630	3.21	156	05-15	0200	3.44	219	06-22	1945	3.19	151
12-26	1800	3.25	166								

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, and 1.1 miles (1.8 km) north of Greencastle.

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--CHEMICAL ANALYSIS: December 1973 to current year.
WATER TEMPERATURE: December 1973 to current year.

GAGE.--Multi-parameter monitor.

EXTREMES.--SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 650 micromhos, June 14; minimum, 117 micromhos, Jan. 19.
Period of record: Maximum conductance, 650 micromhos, June 14, 1974; minimum, 117 micromhos, Jan. 19, 1974.

WATER TEMPERATURE, current year: Maximum temperature, 28.5°C July 9; minimum, freezing point on many days during December to January.
Period of record: Maximum temperature, 28.5°C July 9, 1974; minimum, freezing point on many days during the winter period.

REMARKS.--Records good.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	309	296	365	354	293	283	347	341
2	---	---	---	---	315	308	391	365	305	294	374	347
3	---	---	---	---	323	315	396	391	315	306	393	375
4	---	---	---	---	441	285	400	394	321	315	394	371
5	---	---	---	---	479	450	407	399	330	321	364	309
6	---	---	---	---	502	477	403	399	332	329	352	326
7	---	---	---	---	507	487	403	400	328	321	384	354
8	---	---	---	---	507	505	416	400	327	320	405	385
9	---	---	---	---	509	489	405	396	332	327	394	388
10	---	---	---	---	518	509	396	388	336	332	385	338
11	---	---	---	---	542	525	393	388	342	336	367	321
12	---	---	---	---	545	532	405	391	346	340	328	295
13	---	---	---	---	537	527	415	402	471	345	321	304
14	---	---	542	516	540	532	411	311	477	473	338	321
15	---	---	585	542	537	535	310	298	481	473	346	334
16	---	---	577	563	537	530	296	219	485	477	331	327
17	---	---	563	542	545	535	215	135	489	477	347	331
18	---	---	582	561	553	545	138	119	491	481	358	347
19	---	---	597	585	545	532	131	117	491	422	365	359
20	---	---	603	597	535	511	161	131	427	411	369	364
21	---	---	603	582	532	518	161	153	437	390	371	367
22	---	---	600	594	555	530	271	253	371	298	376	365
23	---	---	606	600	545	527	273	248	346	308	376	374
24	---	---	609	485	535	489	266	249	367	347	376	371
25	---	---	507	248	465	148	280	267	381	367	378	374
26	---	---	352	299	312	150	285	255	397	368	382	375
27	---	---	363	327	275	180	246	218	399	381	381	372
28	---	---	363	229	295	250	244	227	378	341	374	371
29	---	---	269	227	325	297	244	225	---	---	375	358
30	---	---	295	271	338	325	267	244	---	---	354	308
31	---	---	---	---	354	338	283	267	---	---	307	293
MONTH	---	---	---	---	555	148	416	117	491	283	405	293

03357420 Big Walnut Creek at Greencastle, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	328	308	463	410	500	437	473	467	527	514	465	430
2	331	327	471	461	525	502	481	478	518	509	525	456
3	335	319	483	463	569	525	486	479	523	518	555	521
4	317	311	485	473	574	569	606	600	521	516	569	555
5	329	315	485	469	577	362	597	585	594	518	577	572
6	347	330	483	469	517	451	585	580	600	591	582	577
7	360	349	487	481	523	488	585	555	594	577	585	577
8	358	300	485	459	511	419	563	535	577	475	580	572
9	312	298	477	461	492	427	558	496	527	467	574	563
10	336	314	491	477	544	501	550	530	553	530	566	558
11	358	336	483	477	609	541	555	548	561	545	561	542
12	365	356	475	434	620	609	553	537	563	555	545	331
13	369	365	467	454	639	615	558	521	569	561	452	360
14	374	369	477	458	650	626	561	535	563	558	498	454
15	375	371	371	192	623	399	563	535	574	561	555	500
16	375	369	420	371	543	440	550	523	577	548	574	555
17	381	374	437	194	582	550	555	530	532	382	580	577
18	379	375	352	253	610	590	542	525	555	511	---	---
19	376	371	391	287	618	609	535	525	566	555	---	---
20	376	369	450	340	619	615	527	509	572	566	---	---
21	376	369	483	391	622	556	525	511	569	558	---	---
22	371	338	407	212	585	306	532	498	561	555	---	---
23	367	345	374	342	364	123	502	498	563	555	---	---
24	379	367	376	351	338	173	507	500	569	561	---	---
25	379	376	390	371	362	345	509	502	566	558	---	---
26	381	372	400	391	387	369	527	505	569	555	---	---
27	379	372	418	400	405	393	525	518	566	548	---	---
28	410	371	561	415	421	412	525	516	548	391	---	---
29	411	402	563	310	452	427	525	514	399	310	---	---
30	416	411	461	382	463	458	523	518	420	336	---	---
31	---	---	432	299	---	---	527	523	469	422	---	---
MONTH	416	298	563	192	650	123	606	467	600	310	---	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	8.5	7.5	0.5	0.0	7.0	5.0	8.0	6.5
2	---	---	---	---	8.5	7.0	0.5	0.0	6.0	5.5	12.5	7.5
3	---	---	---	---	10.5	8.0	0.5	0.0	5.5	4.0	15.0	12.5
4	---	---	---	---	12.0	10.5	0.5	0.0	4.0	1.5	14.5	13.5
5	---	---	---	---	11.0	7.5	1.0	0.0	4.0	1.5	13.5	10.5
6	---	---	---	---	7.0	5.0	1.0	0.0	4.0	3.5	12.5	9.0
7	---	---	---	---	5.0	4.5	0.5	0.0	3.0	2.0	15.5	12.0
8	---	---	---	---	5.5	4.5	0.5	0.0	3.0	1.0	17.0	14.0
9	---	---	---	---	5.0	3.5	0.5	0.5	2.5	1.0	16.5	15.0
10	---	---	---	---	4.0	2.0	1.0	0.5	2.0	1.0	15.0	11.5
11	---	---	---	---	1.5	0.0	1.5	0.5	1.5	0.5	11.0	8.5
12	---	---	---	---	3.0	0.5	0.5	0.0	5.0	1.0	8.5	7.5
13	---	---	---	---	4.5	3.0	0.5	0.0	5.0	3.5	8.5	6.0
14	---	---	13.5	12.0	4.0	4.0	1.0	0.5	7.0	4.5	9.0	6.0
15	---	---	15.0	13.0	3.5	3.0	2.5	0.5	4.5	2.5	8.5	8.0
16	---	---	13.0	9.0	3.0	1.0	3.0	1.0	4.5	2.5	8.0	6.5
17	---	---	8.5	7.5	0.5	0.0	4.5	1.0	5.5	2.5	6.5	6.0
18	---	---	9.0	8.0	0.5	0.0	7.5	4.5	7.0	4.0	9.5	5.5
19	---	---	10.0	9.0	0.5	0.0	8.5	7.5	7.0	5.5	9.5	8.5
20	---	---	10.0	8.5	0.0	0.0	10.0	7.5	5.5	3.5	10.0	7.0
21	---	---	11.0	10.0	0.0	0.0	10.0	7.5	7.0	4.0	9.0	7.0
22	---	---	10.0	8.5	0.0	0.0	7.5	7.0	7.5	5.0	9.0	4.5
23	---	---	10.0	9.0	0.0	0.0	8.0	6.0	5.0	3.0	8.5	4.0
24	---	---	13.5	10.0	1.0	0.0	6.0	5.0	4.0	1.0	5.0	1.0
25	---	---	13.0	10.0	4.5	1.0	6.0	4.5	2.5	0.5	6.0	1.0
26	---	---	10.5	9.5	5.0	4.5	8.0	5.0	2.5	0.5	10.0	4.0
27	---	---	12.0	10.5	4.5	4.0	8.5	8.0	5.5	1.0	11.0	7.5
28	---	---	12.0	9.0	4.0	3.5	8.0	6.0	8.0	4.5	11.0	9.0
29	---	---	9.0	8.0	4.5	3.5	6.5	5.5	---	---	15.0	10.5
30	---	---	9.0	7.5	3.0	0.5	7.5	5.5	---	---	14.0	7.5
31	---	---	---	---	1.5	0.5	8.0	6.5	---	---	10.5	6.5
MONTH	---	---	---	---	12.0	0.0	10.0	0.0	8.0	0.5	17.0	1.0

03357420 Big Walnut Creek at Greencastle, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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 3 miles (4.8 km) upstream from Mill Creek.

DRAINAGE AREA.--326 mi^2 (844 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 342 ft^3/s (9.690 m^3/s), 14.25 in/yr (362 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,320 ft^3/s (151 m^3/s) Dec. 26, gage height, 12.47 ft (3.801 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Aug. 26.
Period of record: Maximum discharge, 27,400 ft^3/s (776 m^3/s) June 28, 1957, gage height, 18.63 ft (5.678 m), from rating curve extended above 18,000 ft^3/s (510 m^3/s) on basis of slope-conveyance method; minimum daily, 1.4 ft^3/s (0.040 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	114	736	634	807	980	1,080	296	855	253	43	293
2	97	136	581	559	698	694	1,190	269	598	229	43	202
3	95	126	495	511	595	570	1,410	266	485	204	47	158
4	73	114	694	455	508	584	1,550	248	417	187	44	121
5	78	106	823	417	458	2,150	1,020	230	472	177	41	96
6	136	90	591	392	528	1,190	779	220	481	167	38	84
7	101	74	455	368	819	811	660	208	522	156	39	71
8	81	74	392	330	573	649	1,670	319	694	148	65	62
9	71	73	359	392	478	570	1,650	319	904	140	51	57
10	73	69	333	402	423	751	1,040	259	613	149	46	55
11	83	66	277	371	383	972	791	235	462	145	63	67
12	81	66	259	327	374	1,800	671	333	414	128	64	560
13	110	65	277	319	374	1,400	573	266	362	115	43	404
14	144	65	299	319	362	888	501	240	336	106	37	256
15	122	83	285	333	333	855	446	3,090	771	100	33	195
16	106	118	261	455	316	1,420	402	1,350	535	91	37	153
17	101	122	230	1,790	307	993	356	1,810	383	87	165	115
18	97	110	220	3,330	296	827	333	3,270	321	81	52	95
19	93	106	215	4,320	427	720	330	3,020	296	77	42	81
20	88	97	198	2,990	616	613	307	2,380	285	75	34	148
21	86	134	230	3,500	518	602	291	1,610	321	101	30	109
22	83	142	198	1,790	1,660	559	624	2,630	819	82	27	78
23	81	126	228	2,670	1,110	515	458	1,530	4,390	73	26	66
24	79	235	251	1,710	679	485	350	1,170	2,040	69	24	59
25	78	2,450	3,560	1,140	539	455	310	888	913	64	23	55
26	76	2,130	4,060	1,100	465	501	291	683	602	60	22	52
27	74	1,530	3,770	3,090	478	518	274	566	442	56	24	65
28	74	2,700	1,860	2,110	880	495	310	488	362	57	248	123
29	74	1,910	1,260	2,430	------	522	305	755	313	53	471	176
30	79	1,040	963	1,410	------	1,530	305	1,050	280	48	332	120
31	88	------	771	1,030	------	1,840	------	1,460	------	45	203	------
TOTAL	2,752	14,271	25,131	40,994	16,004	27,459	20,277	31,458	20,688	3,523	2,457	4,176
MEAN	88.8	476	811	1,322	572	886	676	1,015	690	114	79.3	139
MAX	144	2,700	4,060	4,320	1,660	2,150	1,670	3,270	4,390	253	471	560
MIN	50	65	198	319	296	455	274	208	280	45	22	52
CFSM	.27	1.46	2.49	4.06	1.75	2.72	2.07	3.11	2.12	.35	.24	.43
IN.	.31	1.63	2.87	4.68	1.83	3.13	2.31	3.59	2.36	.40	.28	.48

CAL YR 1973 TOTAL 182,323 MEAN 500 MAX 4,060 MIN 48 CFSM 1.53 IN 20.80
WTR YR 1974 TOTAL 209,190 MEAN 573 MAX 4,390 MIN 22 CFSM 1.76 IN 23.87

PEAK DISCHARGE (BASE, 2,800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	1400	10.84	4,030	01-27	0500	9.95	3,410	05-19	2100	10.03	3,460
11-28	1300	10.06	3,480	03-05	0800	9.30	2,980	05-22	1500	9.67	3,220
12-26	2400	12.47	5,320	05-15	0800	12.06	4,950	06-23	0700	12.15	5,030
01-19	1000	12.19	5,070	05-17	2300	11.54	4,550				

03357500 Big Walnut Creek near Reelsville, Ind.--Continued

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)	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.								
11...	1450	21.0	81	58	13	--	--	--
NOV.								
27...	1215	10.0	1460	332	1310	--	--	--
JAN.								
15...	1430	2.0	328	118	105	--	--	--
FEB.								
21...	1130	--	481	76	99	--	--	--
MAR.								
21...	1130	1.0	617	63	105	--	--	--
MAY								
15...	1145	15.0	3580	1280	12400	30	41	50
SEP.								
10...	1235	21.0	53	32	4.6	--	--	--

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.							
11...	--	--	--	--	--	--	--
NOV.							
27...	--	--	--	--	--	--	--
JAN.							
15...	--	--	--	--	--	--	--
FEB.							
21...	--	--	--	--	--	--	--
MAR.							
21...	--	--	--	--	--	--	--
MAY							
15...	6[illegible]	75	83	84	86	90	100
SEP.							
10...	--	--	--	--	--	--	--

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, and 3 miles (4.8 km) east of Cataract.

DRAINAGE AREA.--245 mi^2 (635 km^2).

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.--25 years, 254 ft^3/s (7.193 m^3/s), 14.08 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,800 ft^3/s (108 m^3/s) Dec. 26, gage height, 14.77 ft (4.502 m); minimum daily, 9.3 ft^3/s (0.26 m^3/s) Oct. 12.
Period of record: Maximum discharge, 11,400 ft^3/s (323 m^3/s) June 24, 1960, gage height, 22.58 ft (6.882 m); minimum daily, 0.1 ft^3/s (0.003 m^3/s) Sept. 7, 28, 1954.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1505: 1956(P). WSP 2109: Drainage area.

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	15	42	304	328	357	606	515	132	485	104	18	356
2	28	36	229	286	306	389	655	123	292	91	19	231
3	29	25	200	238	237	311	543	119	209	82	33	133
4	44	20	306	247	196	283	809	111	155	76	21	97
5	33	20	606	216	178	1,440	393	107	294	157	16	67
6	23	21	283	198	208	685	288	101	279	110	15	51
7	16	20	195	182	641	403	241	97	804	80	29	42
8	13	20	176	193	318	297	1,330	121	2,040	62	203	37
9	11	22	168	290	223	251	1,630	232	1,300	53	55	33
10	11	22	161	304	189	486	655	128	528	70	49	31
11	9.8	21	139	227	177	707	422	260	331	54	159	31
12	9.3	22	136	188	184	2,100	328	2,150	240	46	75	561
13	32	23	156	175	186	1,390	253	903	180	41	43	374
14	67	23	166	180	178	573	212	400	146	38	32	151
15	38	34	148	200	164	467	185	2,330	198	35	27	91
16	21	69	137	716	150	993	168	2,250	139	31	25	66
17	15	44	112	2,220	146	600	160	978	108	29	552	56
18	12	41	108	2,320	143	470	151	2,200	94	28	122	49
19	11	49	103	2,500	407	372	147	2,360	90	28	52	42
20	11	44	102	1,840	567	286	140	1,740	91	29	35	58
21	11	59	142	2,310	306	335	135	740	121	27	28	211
22	11	96	109	1,020	1,480	286	306	1,400	601	24	25	64
23	11	67	118	1,060	875	221	255	752	2,380	25	23	42
24	11	168	136	704	419	200	168	480	1,270	25	23	36
25	11	1,820	2,630	465	302	195	143	329	370	24	21	33
26	12	2,180	3,620	606	245	262	133	255	231	23	20	31
27	14	1,380	3,480	2,360	311	229	130	219	168	22	23	32
28	16	1,360	2,400	1,690	1,040	204	140	195	146	22	1,240	98
29	19	986	917	1,900	------	229	140	238	130	22	858	579
30	23	457	600	770	------	904	138	690	115	20	420	214
31	30	------	415	510	------	1,030	------	1,060	------	19	158	------
TOTAL	618.1	9,191	18,502	26,443	10,133	17,204	10,913	23,200	13,535	1,497	4,419	3,897
MEAN	19.9	306	597	853	362	555	364	748	451	48.[illegible]	143	130
MAX	67	2,180	3,620	2,500	1,480	2,100	1,630	2,360	2,380	1[illegible]	1,240	579
MIN	9.3	20	102	175	143	195	130	97	90	19	15	31
CFSM	.08	1.25	2.44	3.48	1.48	2.27	1.49	[illegible].05	1.84	.20	.58	.53
IN.	.09	1.40	2.81	4.02	1.54	2.61	1.66	3.52	2.06	.23	.67	.59

CAL YR 1973 TOTAL 142,642.1 MEAN 391 MAX 4,470 MIN 9.3 CFSM 1.60 IN 21.66
WTR YR 1974 TOTAL 139,552.1 MEAN 382 MAX 3,620 MIN 9.3 CFSM 1.56 IN 21.19

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	1900	14.77	3,800	05-15	1800	13.17	2,850
01-19	0800	12.68	2,600				

03358000 Mill Creek near Cataract, Ind.--Continued

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)	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.								
27...	1445	12.5	1140	134	412	58	62	67
JAN.								
16...	1345	2.0	525	96	136	--	--	--
MAY								
15...	1445	19.0	2880	708	5510	48	58	66
SEP.								
11...	1410	21.0	30	36	2.9	--	--	--

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.							
27...	77	85	90	91	100	--	--
JAN.							
16...	--	--	--	--	--	--	--
MAY							
15...	74	82	86	87	90	99	100
SEP.							
11...	--	--	--	--	--	--	--

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, 2.8 miles (4.5 km) above mouth, and 5.8 miles (9.3 km) south of Manhattan.

DRAINAGE AREA.--293 mi^2 (759 km^2).

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, 78,870 acre-ft (97.2 hm^3) Feb. 3, elevation, 662.46 ft (201.918 m); minimum, 27,140 acre-ft (33.5 hm^3) Oct. 17, 18, elevation, 636.02 ft (193.859 m).

Period of record: Maximum contents, 127,760 acre-ft (158 hm^3) May 15, 1961, elevation, 679.30 ft (207.051 m); minimum, (revised) 21,700 acre-ft (26.8 hm^3) 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^3), elevation, 636 ft (193.9 m). Capacity at uncontrolled spillway elevation, 704 ft (214.6 m) is 228,000 acre-ft (218 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	636.13	27,300	-
Oct. 31	636.16	27,340	+40
Nov. 30	647.46	46,050	+18,710
Dec. 31	654.14	59,670	+13,620
Calendar year 1973	-	-	+26,470
Jan. 31	661.91	77,510	+17,840
Feb. 28	638.76	31,140	-46,370
Mar. 31	638.94	31,410	+270
Apr. 30	636.22	27,420	-3,990
May 31	656.39	64,610	+37,190
June 30	650.11	51,260	-13,350
July 31	636.06	27,200	-24,060
Aug. 31	638.29	30,430	+3,230
Sept. 30	637.07	28,630	-1,800
Water year 1974	-	-	+1,330

03359000 Mill Creek near Manhattan, Ind.

LOCATION.--Lat 39°29'22", long 86°55'50", in SW¼SE¼ sec.11, T.12 N., R.5 W., Putnam County, on left bank 200 ft (61 m) downstream from Cagles Mill, 0.8 mile (1.3 km) downstream from Cagles Mill Lake, 0.8 mile (1.3 km) upstream from Deer Creek, and 5.8 miles (9.3 km) south of Manhattan.

DRAINAGE AREA.--294 mi^2 (761 km^2).

PERIOD OF RECORD.--May to September 1931 (fragmentary), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 581.83 ft (177.342 m) above mean sea level. See WSP 1725 for history of changes prior to May 12, 1941.

AVERAGE DISCHARGE.--36 years (1938 to current year), 292 ft^3/s (8.269 m^3/s), 13.49 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,290 ft^3/s (64.9 m^3/s) Jan. 6, gage height, 7.44 ft (2.268 m); maximum gage height, 9.45 ft (2.880 m) May 15, backwater from Deer Creek; minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Aug. 27.
Period of record: Maximum discharge, 8,960 ft^3/s (254 m^3/s) Jan. 5, 1950, gage height, 18.38 ft (5.602 m); no flow Aug. 7, 1953.

REMARKS.--Records good. Flow regulated by Cagles Mill Lake (See sta 03358900).

REVISIONS (WATER YEARS).--WSP 1335: 1940-41. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	70	93	108	95	997	98	204	97	1,310	21	1,010
2	15	87	884	109	95	967	101	204	97	1,570	14	935
3	23	63	1,650	108	708	953	102	168	97	1,620	14	354
4	60	45	1,370	664	1,530	804	103	127	530	1,590	14	99
5	99	37	1,010	1,520	1,850	612	105	149	1,380	1,560	14	99
6	77	29	1,550	2,050	1,880	106	106	82	1,580	1,520	14	88
7	28	14	1,640	2,230	972	106	107	56	1,380	1,490	15	53
8	14	14	1,590	2,160	1,240	108	108	89	400	1,440	52	53
9	14	14	1,550	2,130	1,800	112	109	236	92	676	101	53
10	14	14	1,300	2,100	1,840	102	110	300	93	56	102	43
11	14	14	443	2,040	1,940	104	110	300	570	88	101	24
12	14	15	97	1,960	2,020	103	110	176	1,140	102	161	99
13	47	21	163	1,770	2,090	98	110	580	1,240	102	133	253
14	168	25	195	1,040	2,130	100	110	978	1,230	97	70	347
15	76	45	195	286	2,090	100	879	350	1,240	64	52	347
16	37	87	194	282	2,030	100	1,490	102	1,220	25	52	344
17	21	101	128	174	1,980	101	1,500	100	1,190	25	83	261
18	14	88	97	103	1,920	102	1,490	85	1,180	25	102	99
19	14	64	97	100	1,380	103	1,440	92	1,480	25	161	70
20	14	64	147	100	1,300	932	1,410	89	1,710	25	195	51
21	14	65	145	101	1,290	1,520	1,400	90	1,450	25	195	82
22	14	90	97	104	489	1,760	943	90	699	25	195	99
23	14	97	97	104	107	1,720	986	95	85	25	133	99
24	15	97	132	106	361	1,690	1,140	92	85	24	60	99
25	15	98	119	106	497	1,760	670	87	97	24	24	65
26	15	102	101	106	787	1,840	204	996	95	24	17	48
27	15	106	98	97	965	1,800	204	1,480	95	24	13	48
28	15	107	101	93	1,020	1,750	204	1,480	95	24	76	50
29	15	109	104	95	------	1,090	204	790	734	24	106	83
30	15	103	105	95	------	429	208	100	1,280	24	472	275
31	16	------	108	95	------	151	------	100	------	24	940	------
TOTAL	940	1,885	15,600	22,136	36,406	22,220	15,861	9,867	22,661	13,677	3,702	5,630
MEAN	30.3	62.8	503	714	1,300	717	529	318	755	441	119	188
MAX	168	109	1,650	2,230	2,130	1,840	1,500	1,480	1,710	1,620	940	1,010
MIN	14	14	93	93	95	98	98	56	85	24	13	24

CAL YR 1973 TOTAL 160,973 MEAN 441 MAX 2,300 MIN 12
WTR YR 1974 TOTAL 170,585 MEAN 467 MAX 2,230 MIN 13

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, and 0.5 mile (0.8 km) downstream from Jordan Creek.

DRAINAGE AREA.--830 mi^2 (2,150 km^2).

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.--43 years, 854 ft^3/s (24.19 m^3/s), 13.97 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,700 ft^3/s (218 m^3/s) Dec. 27, gage height, 17.59 ft (5.361 m); minimum daily, 71 ft^3/s (2.01 m^3/s) Aug. 27.
Period of record: Maximum discharge, 34,000 ft^3/s (963 m^3/s) Jan. 4, 1950, gage height, 23.53 ft (7.172 m); minimum daily, 11 ft^3/s (0.31 m^3/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. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	194	1,370	1,110	1,410	2,790	2,030	719	1,830	1,650	130	1,590
2	124	275	1,370	919	1,210	2,290	2,060	642	1,170	1,650	130	1,420
3	239	224	2,360	844	1,270	2,030	2,100	632	908	1,750	130	820
4	234	196	2,830	940	2,180	1,920	3,000	519	824	1,800	120	301
5	215	172	2,520	1,910	2,490	3,580	1,890	509	1,870	1,750	110	254
6	267	162	2,450	2,490	2,830	2,570	1,380	428	2,670	1,700	105	229
7	196	122	2,460	2,860	3,040	1,510	1,160	354	2,800	1,700	98	190
8	140	108	2,330	2,700	2,120	1,180	2,790	502	2,650	1,600	124	172
9	121	108	2,240	2,800	2,570	1,070	3,490	1,230	2,220	1,400	180	162
10	110	103	2,160	2,960	2,630	1,890	1,940	737	1,290	440	178	154
11	119	98	1,430	2,820	2,550	1,930	1,440	659	1,060	400	204	134
12	119	95	730	2,590	2,700	3,970	1,220	2,270	1,790	400	275	1,640
13	217	95	748	2,410	2,760	3,430	1,060	1,040	1,910	330	244	1,140
14	509	103	862	1,960	2,840	1,670	919	1,520	1,810	320	162	705
15	327	121	810	975	2,730	1,360	988	6,000	2,010	300	122	587
16	208	212	772	1,300	2,630	2,530	2,130	4,620	2,270	250	117	519
17	178	254	677	3,580	2,550	1,770	2,070	2,230	1,860	220	434	482
18	154	265	569	4,950	2,470	1,380	2,000	5,500	1,720	220	249	273
19	146	229	565	6,100	2,690	1,190	1,970	5,830	1,790	200	202	224
20	138	204	565	5,570	2,400	1,400	1,920	5,640	2,240	200	244	222
21	132	306	628	5,940	2,490	2,360	1,850	2,790	2,290	200	234	284
22	128	354	551	3,980	3,680	2,690	2,510	5,280	3,130	195	229	229
23	124	312	530	3,490	2,400	2,540	2,080	3,680	6,250	180	208	206
24	115	558	748	3,310	1,500	2,470	1,840	2,110	4,970	175	144	196
25	117	3,710	5,080	1,970	1,460	2,430	1,650	1,610	1,730	160	89	184
26	113	4,890	7,300	1,840	1,430	2,710	723	1,670	1,160	160	79	150
27	113	3,270	7,530	4,620	1,860	2,650	645	2,490	873	150	71	156
28	115	3,790	4,490	3,930	2,760	2,580	705	2,330	715	145	611	237
29	113	3,960	2,290	4,240	------	2,360	817	2,170	831	145	1,140	726
30	117	1,910	1,730	2,660	------	2,490	712	3,410	1,770	140	908	382
31	128	------	1,320	1,800	------	3,330	------	3,340	------	130	1,210	------
TOTAL	5,168	26,400	62,015	89,568	65,650	70,070	51,089	72,461	60,411	20,060	8,481	13,968
MEAN	167	880	2,000	2,889	2,345	2,260	1,703	2,337	2,014	647	274	466
MAX	509	4,890	7,530	6,100	3,680	3,970	3,490	6,000	6,250	1,800	1,210	1,640
MIN	92	95	530	844	1,210	1,070	645	354	715	130	71	134
CFSM	.20	1.06	2.41	3.48	2.83	2.72	2.05	2.82	2.43	.78	.33	.56
IN.	.23	1.18	2.78	4.01	2.94	3.14	2.29	3.25	2.71	.90	.38	.63

CAL YR 1973 TOTAL 494,760 MEAN 1,356 MAX 10,100 MIN 82 CFSM 1.63 IN 22.17
WTR YR 1974 TOTAL 545,341 MEAN 1,494 MAX 7,530 MIN 71 CFSM 1.80 IN 24.44

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 118.0 (189.9 km).

DRAINAGE AREA.--4,688 mi^2 (12,142 km^2).

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.--46 years, 4,618 ft^3/s (130.8 m^3/s), 13.38 in/yr (340 mm/yr).

EXTREMES.--Current year: Maximum discharge, 28,200 ft^3/s (799 m^3/s) Dec. 31, gage height, 18.21 ft (5.550 m); minimum daily, 957 ft^3/s (27.1 m^3/s) Oct. 28, 29.

Period of record: Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) May 21, 1943, gage height, 24.19 ft (7.373 m); minimum daily, 200 ft^3/s (5.66 m^3/s) Oct. 1, 1941.

Maximum stage since at least 1875, 27.5 ft (8.38 m) Mar. 27, 1913, from floodmarks by State Highway Department of Indiana, discharge, 130,000 ft^3/s (3,680 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	1,260	13,500	26,000	16,800	10,200	12,400	4,500	25,100	5,950	1,400	5,390
2	1,050	1,290	11,200	21,200	14,100	10,300	14,300	4,380	20,900	5,520	1,350	5,280
3	1,280	1,490	8,780	12,400	11,000	9,940	15,600	4,370	13,800	5,300	1,400	5,120
4	1,500	1,440	7,750	8,060	9,510	9,240	16,700	4,270	8,030	5,200	1,400	4,750
5	1,380	1,410	8,570	6,690	8,960	10,100	16,500	3,890	6,190	6,200	1,350	3,810
6	1,410	1,340	8,350	6,720	8,610	12,000	15,800	3,770	6,420	5,600	1,350	3,360
7	1,710	1,270	7,340	6,860	8,790	12,900	15,400	3,450	7,280	5,300	1,300	3,160
8	1,910	1,190	6,670	6,640	8,840	12,000	17,400	3,210	7,840	4,800	1,300	3,000
9	1,700	1,110	5,910	6,150	8,390	10,600	21,000	3,430	9,430	4,200	1,300	2,820
10	1,510	1,070	5,440	6,020	8,880	13,200	20,600	4,530	10,400	4,100	1,300	4,650
11	1,380	1,030	5,030	6,270	8,430	13,100	20,000	4,130	9,170	4,000	1,300	5,240
12	1,280	1,010	4,300	5,730	7,750	13,100	17,700	5,980	7,790	3,500	1,700	8,730
13	1,260	987	3,500	4,870	7,280	15,700	14,400	9,920	7,020	3,400	1,800	12,300
14	1,460	972	3,340	4,150	7,010	16,300	11,100	8,740	6,340	3,300	1,650	9,240
15	1,800	995	3,490	3,850	6,980	14,800	9,350	9,310	5,720	2,800	1,450	6,590
16	1,740	1,150	3,530	4,040	7,000	13,100	8,010	12,900	5,760	2,500	1,350	4,940
17	1,490	1,270	3,480	6,750	6,790	11,600	7,790	14,800	8,100	2,450	1,300	4,110
18	1,340	1,350	3,230	9,260	6,520	10,000	7,290	16,900	8,080	2,300	1,300	3,650
19	1,230	1,380	2,960	11,100	6,920	8,710	6,810	18,200	6,720	2,100	1,350	3,250
20	1,170	1,420	2,860	14,900	8,610	7,800	6,430	19,800	5,990	2,000	1,450	2,940
21	1,110	1,430	2,800	17,800	8,810	7,800	6,130	22,800	5,890	2,000	1,400	3,980
22	1,080	1,870	2,720	21,000	10,300	8,620	6,570	25,600	6,560	2,250	1,400	4,240
23	1,050	2,050	2,650	23,500	12,400	8,250	7,890	26,200	9,530	2,200	1,300	3,140
24	1,030	2,060	2,810	24,900	12,800	7,750	7,140	24,200	13,100	2,000	1,300	2,770
25	1,020	5,550	9,450	24,900	11,800	7,400	6,110	20,000	15,700	1,850	1,300	2,620
26	987	11,400	15,400	23,200	10,800	7,290	5,540	12,900	18,200	1,800	1,250	2,510
27	972	13,700	19,600	21,500	9,130	7,210	4,640	8,330	18,800	1,650	1,130	2,430
28	957	14,600	23,300	20,700	9,700	7,000	4,240	7,590	13,900	1,600	2,200	2,480
29	957	14,800	25,000	19,500	------	6,900	4,340	7,020	7,540	1,500	1,850	5,850
30	1,010	14,500	27,000	18,500	------	8,210	4,350	11,500	6,010	1,450	4,100	7,220
31	1,040	------	28,000	17,800	------	9,750	------	22,000	------	1,400	3,900	------
TOTAL	39,843	106,394	277,960	410,960	262,910	320,870	331,530	348,620	301,310	100,220	49,230	139,570
MEAN	1,285	3,546	8,966	13,260	9,390	10,350	11,050	11,250	10,040	3,233	1,588	4,652
MAX	1,910	14,800	28,000	26,000	16,800	16,300	21,000	26,200	25,100	6,200	4,100	12,300
MIN	957	972	2,650	3,850	6,520	6,900	4,240	3,210	5,720	1,400	1,130	2,430
CFSM	.27	.76	1.91	2.83	2.00	2.21	2.36	2.40	2.14	.69	.34	.99
IN.	.32	.84	2.21	3.26	2.09	2.55	2.63	2.77	2.39	.80	.39	1.11

CAL YR 1973 TOTAL 2,464,657 MEAN 6,752 MAX 28,000 MIN 957 CFSM 1.44 IN 19.56
WTR YR 1974 TOTAL 2,689,417 MEAN 7,368 MAX 28,000 MIN 957 CFSM 1.57 IN 21.34

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, and 2.2 miles (3.5 km) downstream from Three Mile Creek.

DRAINAGE AREA.--184 mi^2 (477 km^2).

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.

GAGE.--Water-stage recorder. 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.--24 years, 196 ft^3/s (5.551 m^3/s), 14.47 in/yr (368 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) June 23, gage height, 8.95 ft (2.728 m); minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 26, Aug. 26.
Period of record: Maximum discharge, 12,900 ft^3/s (365 m^3/s) Mar. 4, 1963, gage height, 14.62 ft (4.456 m), from floodmarks, from rating curve extended above 6,200 ft^3/s (176 m^3/s); minimum daily, 18 ft^3/s (0.51 m^3/s) Sept. 18, 1955.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	65	109	150	239	298	330	599	146	161	522	62	168
2	75	83	140	225	268	288	497	139	144	290	77	142
3	67	79	126	216	232	254	516	159	137	200	95	166
4	86	74	137	191	207	271	894	137	131	168	74	135
5	81	73	148	189	194	728	531	129	129	150	68	102
6	69	70	125	175	214	525	405	127	139	135	65	93
7	68	71	121	164	362	362	333	123	129	125	66	97
8	67	70	119	150	249	290	815	148	232	119	68	91
9	65	68	98	164	209	251	940	144	228	111	66	82
10	65	66	97	161	189	223	879	129	168	111	65	72
11	63	65	90	150	177	214	563	125	146	109	68	74
12	61	64	91	127	173	242	450	196	131	98	78	104
13	76	64	107	133	191	219	371	161	121	95	68	86
14	87	64	113	125	184	196	315	142	115	93	125	78
15	69	110	104	135	166	198	273	219	235	91	74	74
16	66	100	98	251	161	313	247	189	170	90	69	71
17	63	86	91	827	155	259	225	164	139	86	148	71
18	63	80	90	1,000	150	225	212	756	127	86	86	69
19	62	70	95	1,780	235	212	203	739	119	86	95	68
20	63	65	111	1,070	325	189	191	658	115	86	78	69
21	61	80	88	1,150	244	198	184	408	139	80	71	68
22	61	70	86	716	615	177	196	318	325	80	68	65
23	62	65	90	795	444	170	187	268	2,350	82	66	63
24	61	110	90	633	305	166	173	251	771	82	66	66
25	61	440	671	470	244	157	161	209	444	77	62	66
26	60	490	1,040	450	212	173	155	189	338	72	60	66
27	61	420	1,170	1,080	207	187	150	173	261	72	68	66
28	63	350	686	683	303	182	150	164	219	71	161	77
29	67	270	491	546	------	320	150	182	196	68	223	102
30	95	210	371	429	------	993	152	187	175	65	161	75
31	81	------	300	356	------	968	------	173	------	63	98	------
TOTAL	2,114	4,036	7,334	14,780	6,913	9,480	11,117	7,252	8,234	3,663	2,699	2,626
MEAN	68.2	135	237	477	247	306	371	234	274	118	87.1	87.5
MAX	95	490	1,170	1,780	615	993	940	756	2,350	522	223	168
MIN	60	64	86	125	150	157	150	123	115	63	60	63
CFSM	.37	.73	1.29	2.59	1.34	1.66	2.02	1.27	1.49	.64	.47	.48
IN.	.43	.82	1.48	2.99	1.40	1.92	2.25	1.47	1.66	.74	.55	.53

CAL YR 1973 TOTAL 99,139 MEAN 272 MAX 4,130 MIN 60 CFSM 1.48 IN 20.04
WTR YR 1974 TOTAL 80,248 MEAN 220 MAX 2,350 MIN 60 CFSM 1.20 IN 16.22

PEAK DISCHARGE (BASE, 2,000 FT^3/S).--Jan. 19 (1600) 2,400 ft^3/s (7.84 ft); June 23 (1000) 3,390 ft^3/s (8.95 ft).

03361000 Big Blue River at Carthage, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
25...	1345	15.0	58	15	670	9.2	.4	305	372	0
JAN.										
10...	1030	37.0	163	10	700	8.1	4.3	276	337	0
FEB.										
08...	1745	4.0	240	4	643	8.0	4.9	253	309	0
MAR.										
14...	1545	8.0	204	10	660	8.1	4.1	265	323	0
APR.										
18...	0915	11.0	219	4	645	8.0	5.1	260	317	0
MAY										
17...	1425	23.0	164	6	680	7.8	8.2	267	325	--
JUNE										
20...	1400	20.5	113	3	570	7.8	8.8	284	346	--
JULY										
17...	1730	22.8	86	--	713	8.4	2.1	273	333	--
26...	1115	20.0	75	7	700	8.0	5.6	287	350	--
SEP.										
07...	1130	17.0	97	1	670	7.9	6.6	267	326	0

DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.										
25...	--	2.4	--	--	.18	--	380	72	100	31
JAN.										
10...	.02	3.4	3.4	--	.08	--	350	78	86	34
FEB.										
08...	.02	3.9	3.9	--	.08	--	340	89	91	28
MAR.										
14...	.04	3.3	3.3	--	.04	--	320	58	80	30
APR.										
18...	.06	3.4	3.5	.12	.18	.04	330	70	86	28
MAY										
17...	.08	2.4	2.5	.25	.14	.08	340	74	87	30
JUNE										
20...	.08	3.1	3.2	.18	.09	.06	370	83	94	32
JULY										
17...	.09	3.4	3.5	.09	--	.03	360	83	90	32
26...	.05	2.6	2.6	.18	.09	.06	380	94	100	32
SEP.										
07...	.12	1.9	2.0	.25	.14	.08	300	28	72	28

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT.										
25...	24	.5	12	2.9	33	61	.6	7.1	210	90
JAN.										
10...	17	.4	9	3.8	27	55	.5	9.2	210	10
FEB.										
08...	11	.3	7	1.8	21	47	.4	9.1	610	80
MAR.										
14...	13	.3	8	2.2	19	50	.3	3.2	300	40
APR.										
18...	12	.3	7	1.2	18	51	.3	5.0	710	10
MAY										
17...	14	.3	8	2.1	23	55	.3	6.6	670	70
JUNE										
20...	17	.4	9	1.9	24	56	.6	8.4	470	0
JULY										
17...	20	.5	11	2.2	27	55	.4	4.6	200	20
26...	22	.5	11	3.3	25	64	2.1	3.8	230	30
SEP.										
07...	19	.5	12	2.4	25	49	.4	8.7	400	40

03361000 Big Blue River at Carthage, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.									
25...	--	39	34	466	453	73.0	.63	10	--
JAN.									
10...	0	83	83	446	414	196	.61	15	.07
FEB.									
08...	90	130	40	400	379	259	.54	17	.07
MAR.									
14...	0	40	50	450	372	248	.61	14	.13
APR.									
18...	3	60	57	377	373	223	.51	15	.20
MAY									
17...	17	67	50	466	390	206	.63	11	.26
JUNE									
20...	20	63	43	478	419	146	.65	14	.26
JULY									
17...	--	70	30	--	411	95.4	.56	15	.30
26...	38	98	60	474	437	96.0	.64	11	.16
SEP.									
07...	40	100	60	423	374	111	.58	8.3	.39

DATE	TIME	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)
JULY								
17...	1730	.31	.09	.40	.09	2.6	300	.12

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
JULY												
17...	2.2	.0	55	1.8	.0	.0	4.8	.0	0	.0	.0	61

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, and 0.6 mile (1.0 km) downstream from Little Blue River.

DRAINAGE AREA.--421 mi^2 (1,090 km^2).

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.--31 years, 458 ft^3/s (12.97 m^3/s, 14.77 in/yr (375 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,180 ft^3/s (175 m^3/s) June 24, gage height, 14.08 ft (4.292 m); minimum daily, 86 ft^3/s (2.44 m^3/s) Oct. 26-28.
Period of record: Maximum discharge, 15,800 ft^3/s (447 m^3/s) Mar. 5, 1963, gage height, 17.70 ft (5.395 m); minimum daily, 32 ft^3/s (0.91 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	156	446	669	787	768	1,550	300	397	532	109	378
2	107	165	360	529	688	680	1,170	278	331	621	115	381
3	113	140	314	496	589	618	949	295	297	421	151	346
4	121	129	311	430	506	568	1,780	281	278	352	147	337
5	145	123	381	390	449	1,010	1,420	257	265	317	125	251
6	121	117	323	375	455	1,300	1,030	249	273	295	115	201
7	109	111	265	343	703	879	819	241	270	275	111	179
8	107	113	249	297	632	676	1,780	249	343	259	109	170
9	105	111	233	320	506	568	2,710	292	421	249	111	158
10	101	107	213	334	436	499	2,400	259	363	238	109	143
11	101	105	196	317	397	468	1,760	246	295	233	109	143
12	103	105	184	273	372	636	1,280	331	262	213	119	233
13	119	103	201	249	381	625	1,030	390	243	201	115	275
14	151	103	223	262	378	509	839	309	231	191	129	300
15	134	111	213	297	349	468	691	363	565	186	143	241
16	111	134	196	632	331	586	586	452	575	181	111	193
17	101	129	177	1,620	323	618	522	779	366	172	179	167
18	99	121	172	2,120	306	532	477	2,340	295	167	177	154
19	99	119	167	2,950	378	490	446	1,750	265	167	136	143
20	99	115	191	3,410	706	433	412	1,940	254	163	136	208
21	97	123	193	3,070	575	427	387	1,170	284	154	119	201
22	95	138	165	2,250	958	409	418	855	418	145	107	163
23	95	134	167	2,110	1,150	378	427	695	4,640	145	103	145
24	93	145	167	1,930	772	358	375	579	5,790	145	99	136
25	88	632	962	1,360	586	331	343	490	1,990	138	95	131
26	86	1,210	2,450	1,160	487	352	323	421	1,140	131	92	125
27	86	1,240	3,090	2,510	461	397	309	375	855	125	111	127
28	86	1,000	2,280	2,080	647	393	300	340	629	125	208	165
29	97	799	1,490	1,520	------	415	297	397	525	125	320	509
30	117	593	1,170	1,190	------	1,550	297	516	452	117	369	412
31	140	------	883	975	------	2,230	------	471	------	113	286	------
TOTAL	3,333	8,431	18,032	36,468	15,308	20,171	27,127	17,910	23,312	6,896	4,465	6,715
MEAN	108	281	582	1,176	547	651	904	578	777	222	144	224
MAX	151	1,240	3,090	3,410	1,150	2,230	2,710	2,340	5,790	621	369	509
MIN	86	103	165	249	306	331	297	241	231	113	92	125
CFSM	.26	.67	1.38	2.79	1.30	1.55	2.15	1.37	1.85	.53	.34	.53
IN.	.29	.74	1.59	3.22	1.35	1.78	2.40	1.58	2.06	.61	.39	.59

CAL YR 1973 TOTAL 217,192 MEAN 595 MAX 5,200 MIN 86 CFSM 1.41 IN 19.19
WTR YR 1974 TOTAL 188,168 MEAN 516 MAX 5,790 MIN 86 CFSM 1.23 IN 16.63

PEAK DISCHARGE (BASE, 3,400 FT^3/S).--Jan. 20 (1800) 3,660 ft^3/s (11.34 ft); June 24 (0300) 6,180 ft^3/s (14.08 ft).

03361500 Big Blue River at Shelbyville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
12...	1420	7.0	106	35	10	--	--
DEC.							
21...	1600	.0	215	37	21	--	--
JAN.							
25...	1340	6.0	1320	50	178	--	--
MAR.							
11...	1600	10.0	483	76	99	--	--
APR.							
08...	1425	--	179	362	1750	52	62
JUNE							
27...	1045	17.0	844	140	319	--	--
JULY							
31...	0945	25.0	115	18	5.6	--	--
AUG.							
29...	1440	22.0	320	64	55	--	--

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
NOV.						
12...	--	--	--	--	--	--
DEC.						
21...	--	--	--	--	--	--
JAN.						
25...	--	--	--	--	--	--
MAR.						
11...	--	--	--	--	--	--
APR.						
08...	71	81	90	96	96	100
JUNE						
27...	--	--	--	--	--	--
JULY						
31...	--	--	--	--	--	--
AUG.						
29...	--	--	--	--	--	--

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 miles (5 km) upstream from Little Sugar Creek, and 37.3 miles (60.0 km) from mouth.

DRAINAGE AREA.--93.9 mi^2 (243.2 km^2).

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.--7 years, 107 ft^3/s (3.030 m^3/s), 15.47 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,850 ft^3/s (52.4 m^3/s) June 23, gage height, 9.12 ft (2.780 m); minimum daily, 7.0 ft^3/s (0.20 m^3/s) Aug. 24, 25.
Period of record: Maximum discharge, 1,850 ft^3/s (52.4 m^3/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^3/s (0.091 m^3/s) Oct. 7, 1970.

REMARKS.--Records good.

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	13	36	146	175	182	174	519	40	77	72	12	82
2	15	33	108	130	151	154	319	39	69	77	12	108
3	13	27	90	120	124	124	307	43	54	69	13	72
4	14	23	95	110	101	114	409	40	46	57	13	59
5	15	20	114	100	86	285	448	37	43	52	12	43
6	15	18	101	65	93	354	252	34	65	46	12	33
7	14	17	76	75	166	233	185	33	88	42	12	26
8	13	17	64	91	154	162	402	37	87	37	13	22
9	13	17	62	87	111	126	544	37	86	35	12	20
10	12	16	62	88	88	106	453	36	116	37	11	18
11	11	16	61	74	77	99	307	36	107	38	12	18
12	11	16	55	60	69	148	210	126	72	33	12	24
13	15	16	52	60	69	139	163	123	57	29	12	32
14	18	16	72	67	69	103	131	83	48	27	14	34
15	15	18	85	74	63	94	110	177	247	25	11	25
16	14	24	71	146	59	174	90	194	335	23	9.0	23
17	12	25	49	377	56	174	79	276	174	21	12	21
18	10	26	47	662	53	134	71	319	108	20	26	18
19	10	27	48	936	112	112	66	325	81	26	28	16
20	11	27	56	947	182	94	62	261	67	36	26	15
21	11	28	49	969	157	87	58	184	99	25	12	14
22	12	30	45	702	245	78	59	126	295	20	9.5	13
23	11	30	52	532	249	70	57	101	1,480	19	8.0	12
24	11	47	59	449	163	66	51	86	828	18	7.0	11
25	11	274	591	331	119	59	46	71	547	17	7.0	11
26	11	397	895	284	96	62	45	62	272	16	9.5	11
27	12	371	1,260	496	88	71	43	56	184	15	10	13
28	13	283	1,010	602	142	74	41	50	133	15	55	16
29	14	286	642	472	------	90	41	59	102	15	94	25
30	18	225	384	331	------	406	41	66	84	14	94	19
31	20	------	286	243	------	592	------	71	------	12	54	------
TOTAL	408	2,406	6,787	9,855	3,324	4,758	5,609	3,228	6,051	988	644.0	854
MEAN	13.2	80.2	219	318	119	153	187	104	202	31.9	20.8	28.5
MAX	20	397	1,260	969	249	592	544	325	1,480	77	94	108
MIN	10	16	45	60	53	59	41	33	43	12	7.0	11
CFSM	.14	.85	2.33	3.39	1.27	1.63	1.99	1.11	2.15	.34	.22	.30
IN.	.16	.95	2.69	3.90	1.32	1.88	2.22	1.28	2.40	.39	.26	.34

CAL YR 1973 TOTAL 47,541.0 MEAN 130 MAX 1,260 MIN 10 CFSM 1.38 IN 18.83
WTR YR 1974 TOTAL 44,912.0 MEAN 123 MAX 1,480 MIN 7.0 CFSM 1.31 IN 17.79

PEAK DISCHARGE (BASE, 950 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1200	7.96	1,320	06-23	0500	9.12	1,850
01-21	0400	7.46	1,130				

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 4.2 miles (6.8 km) upstream from mouth.

DRAINAGE AREA.--78.8 mi^2 (204.1 km^2).

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.--7 years, 95.3 ft^3/s (2.699 m^3/s), 16.42 in/yr (417 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,750 ft^3/s (77.9 m^3/s) June 23, gage height, 11.36 ft (3.463 m); minimum daily, 3.2 ft^3/s (0.09 m^3/s) Aug. 26.
Period of record: Maximum discharge, 5,300 ft^3/s (150 m^3/s) July 20, 1969, gage height, 14.99 ft (4.569 m); minimum daily, 0.60 ft^3/s (0.017 m^3/s) Oct. 1, 4, 1967.

REMARKS.--Records good.

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	11	50	124	136	119	184	234	22	68	45	8.7	106
2	18	29	100	100	106	168	195	18	47	35	7.3	77
3	9.2	19	82	75	83	129	486	21	36	30	11	53
4	7.2	11	123	70	64	114	503	18	33	29	10	40
5	13	12	168	55	54	410	218	14	29	23	8.3	25
6	7.9	9.6	101	40	62	242	157	13	68	21	7.2	16
7	6.8	8.3	69	41	229	129	124	11	61	21	7.2	14
8	5.1	6.8	59	45	128	114	636	18	136	18	6.8	13
9	6.8	7.9	54	57	90	90	520	20	110	17	6.8	10
10	6.1	7.5	47	62	68	70	312	14	154	117	6.4	11
11	5.7	6.4	38	50	56	101	190	12	95	204	8.7	11
12	6.4	8.3	35	40	49	262	149	190	58	70	7.5	26
13	11	7.2	47	42	54	204	116	98	40	36	6.4	30
14	26	8.3	57	47	52	127	97	53	32	32	5.7	17
15	15	14	47	72	43	110	70	301	292	107	5.7	13
16	12	35	32	280	40	271	56	173	168	35	5.7	11
17	11	20	26	669	39	201	47	553	95	23	7.9	11
18	8.3	26	27	711	35	183	42	1,240	56	18	7.5	9.2
19	7.2	22	29	864	242	136	39	708	42	45	6.4	8.3
20	7.5	21	39	615	204	100	35	430	35	38	5.7	7.9
21	5.7	54	34	691	145	97	35	244	85	19	4.8	8.3
22	7.2	76	26	352	418	79	38	161	336	19	4.5	6.1
23	3.7	43	29	402	226	68	35	132	2,250	17	4.2	7.2
24	6.8	118	44	285	146	59	27	95	771	14	3.7	6.8
25	10	791	1,120	201	105	54	24	71	299	13	3.7	6.8
26	6.4	643	1,270	196	80	69	23	55	170	12	3.2	6.8
27	11	482	1,250	482	97	76	22	42	119	12	3.9	7.9
28	12	341	592	340	245	67	22	35	82	9.2	58	11
29	14	274	366	327	------	72	19	61	61	11	83	31
30	21	180	261	213	------	482	20	84	49	9.2	55	20
31	16	------	184	160	------	428	------	116	------	9.6	27	------
TOTAL	315.0	3,331.3	6,480	7,720	3,279	4,896	4,491	5,023	5,877	1,109.0	397.9	621.3
MEAN	10.2	111	209	249	117	158	150	162	196	35.8	12.8	20.7
MAX	26	791	1,270	864	418	482	636	1,240	2,250	204	83	106
MIN	3.7	6.4	26	40	35	54	19	11	29	9.2	3.2	6.1
CFSM	.13	1.41	2.65	3.16	1.48	2.01	1.90	2.06	2.49	.45	.16	.26
IN.	.15	1.57	3.06	3.64	1.55	2.31	2.12	2.37	2.77	.52	.19	.29

CAL YR 1973 TOTAL 42,921.5 MEAN 118 MAX 1,480 MIN 3.7 CFSM 1.50 IN 20.26
WTR YR 1974 TOTAL 43,540.5 MEAN 119 MAX 2,250 MIN 3.2 CFSM 1.51 IN 20.55

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	1645	7.89	1,160	04-03	1900	8.01	1,200
12-25	2200	9.53	1,800	05-18	0330	10.03	2,020
01-19	1215	7.41	1,000	06-23	0730	11.36	2,750

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 miles (3 km) upstream from mouth, and 5 miles (8 km) northwest of Edinburg.

DRAINAGE AREA.--107 mi^2 (277 km^2).

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.--32 years, 106 ft^3/s (3.002 m^3/s), 13.45 in/yr (342 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) May 18, gage height, 6.71 ft (2.045 m); minimum daily, 4.8 ft^3/s (0.14 m^3/s) Aug. 26.
Period of record: Maximum discharge, 10,700 ft^3/s (303 m^3/s) Jan. 27, 1952, gage height, 13.4 ft (4.08 m); minimum daily, 0.5 ft^3/s (0.014 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	36	136	154	139	167	241	59	167	46	6.3	143
2	7.6	38	115	100	129	134	206	53	115	40	6.7	110
3	8.5	25	100	98	106	115	171	58	87	36	12	62
4	9.0	21	122	92	84	107	650	48	73	34	12	47
5	43	20	165	85	75	222	281	43	69	34	9.2	33
6	29	19	115	60	87	183	184	43	169	30	8.1	26
7	17	17	82	50	162	134	146	39	129	28	7.3	21
8	14	16	71	59	122	113	777	46	189	26	7.3	17
9	12	16	67	69	98	97	840	58	196	24	7.1	17
10	9.5	16	61	70	80	84	404	43	123	24	7.2	15
11	8.5	14	49	60	69	127	263	40	87	25	8.9	16
12	6.8	14	46	45	65	426	200	139	69	21	8.6	67
13	11	14	53	50	67	311	139	112	58	20	8.1	37
14	30	14	54	55	59	191	98	71	53	17	6.7	37
15	28	17	40	60	53	153	75	147	63	16	6.3	25
16	18	38	31	80	54	183	73	130	56	15	6.1	20
17	14	28	25	100	51	156	49	368	46	14	12	18
18	11	24	30	300	49	143	56	1,290	42	12	12	16
19	9.5	26	35	800	137	129	51	843	40	12	21	15
20	8.5	23	34	1,100	202	109	51	576	39	12	14	47
21	7.2	35	23	940	134	116	61	341	42	11	8.7	65
22	7.2	75	28	471	283	103	82	247	80	11	6.5	40
23	6.8	46	35	657	217	94	80	205	543	10	6.2	27
24	6.8	58	45	450	154	83	63	152	225	10	5.9	21
25	6.0	564	853	300	118	78	56	115	125	9.0	5.2	19
26	6.4	645	1,150	304	100	99	56	95	90	8.5	4.8	18
27	6.0	591	1,200	557	115	95	56	77	143	8.2	13	67
28	6.4	391	625	341	243	89	54	67	77	7.8	95	171
29	6.8	261	393	289	------	99	53	90	63	7.2	107	505
30	12	183	311	223	------	353	58	150	53	7.3	51	223
31	18	------	217	180	------	370	------	287	------	7.4	33	------
TOTAL	391.7	3,285	6,311	8,199	3,252	4,863	5,574	6,032	3,311	583.4	523.2	1,945
MEAN	12.6	110	204	264	116	157	186	195	110	18.8	16.9	64.8
MAX	43	645	1,200	1,100	283	426	840	1,290	543	46	107	505
MIN	6.0	14	23	45	49	78	49	39	39	7.2	4.8	15
CFSM	.12	1.03	1.91	2.47	1.08	1.47	1.74	1.82	1.03	.18	.16	.61
IN.	.14	1.14	2.19	2.85	1.13	1.69	1.94	2.10	1.15	.20	.18	.68

CAL YR 1973 TOTAL 50,753.1 MEAN 139 MAX 1,300 MIN 6.0 CFSM 1.30 IN 17.65
WTR YR 1974 TOTAL 44,270.3 MEAN 121 MAX 1,290 MIN 4.8 CFSM 1.13 IN 15.39

PEAK DISCHARGE (BASE, 1,300 FT^3/S).--Dec. 27 (1030) 1,350 ft^3/s (6.65 ft); May 18 (0700) 1,380 ft^3/s (6.71 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, and 1.5 miles (2.4 km) northwest of Edinburg.

DRAINAGE AREA.--474 mi^2 (1,228 km^2).

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.--32 years, 484 ft^3/s (13.71 m^3/s), 13.87 in/yr (352 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,470 ft^3/s (183 m^3/s) June 24, gage height, 12.20 ft (3.719 m); minimum daily, 55 ft^3/s (1.56 m^3/s) Aug. 27.
Period of record: Maximum discharge, 27,600 ft^3/s (782 m^3/s) May 29, 1956, gage height, 18.38 ft (5.602 m); minimum daily, 9.2 ft^3/s (0.26 m^3/s) Sept. 19, 1954.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	79	134	745	990	886	990	1,810	267	706	342	80	549
2	83	184	570	700	762	831	1,380	251	513	301	79	730
3	85	155	478	550	642	745	1,060	255	406	278	93	423
4	97	126	453	500	539	580	2,590	243	353	253	92	322
5	140	112	668	460	463	951	1,860	224	323	235	84	243
6	120	104	555	370	453	1,380	1,260	212	425	216	77	187
7	102	100	425	300	762	1,020	916	198	565	200	75	153
8	92	92	357	350	774	753	1,950	205	717	189	74	134
9	85	92	327	374	605	616	3,700	235	808	177	73	122
10	83	90	306	392	493	526	2,440	216	600	175	73	116
11	77	85	276	350	429	524	1,500	198	570	303	76	117
12	73	85	251	300	388	1,190	1,160	315	429	278	73	219
13	77	83	255	310	379	1,330	920	600	344	197	74	186
14	97	85	280	336	370	886	751	401	297	168	68	197
15	120	90	270	388	344	709	626	453	361	172	109	163
16	100	123	220	932	327	843	524	892	909	187	89	136
17	81	134	190	2,190	319	957	458	903	652	148	84	125
18	77	126	200	2,880	306	902	420	3,580	434	134	92	114
19	73	123	220	3,910	397	778	397	4,010	336	129	126	111
20	71	120	220	3,850	1,100	629	366	3,500	297	158	95	122
21	67	134	200	4,070	853	582	348	1,970	275	158	88	177
22	66	231	200	3,480	1,120	539	370	1,210	444	130	75	150
23	66	227	210	2,660	1,380	484	379	943	2,300	121	67	121
24	66	195	220	2,360	943	444	331	751	4,850	115	62	107
25	66	1,150	1,600	1,640	706	405	302	585	4,360	106	59	101
26	66	2,510	3,990	1,330	560	432	288	483	1,280	101	57	98
27	66	2,450	5,010	2,330	518	461	284	411	886	96	55	102
28	67	1,770	4,840	2,230	858	459	280	361	622	93	149	269
29	71	1,320	3,180	1,900	------	449	271	374	500	90	392	751
30	83	1,010	1,960	1,470	------	1,200	267	595	399	85	353	583
31	97	------	1,340	1,130	------	2,200	------	870	------	83	267	------
TOTAL	2,593	13,240	30,016	45,032	17,676	24,795	29,208	25,711	25,961	5,418	3,310	6,928
MEAN	83.6	441	968	1,453	631	800	974	829	865	175	107	231
MAX	140	2,510	5,010	4,070	1,380	2,200	3,700	4,010	4,850	342	392	751
MIN	66	83	190	300	306	405	267	198	275	83	55	98
CFSM	.18	.93	2.04	3.07	1.33	1.69	2.05	1.75	1.82	.37	.23	.49
IN.	.20	1.04	2.36	3.53	1.39	1.95	2.29	2.02	2.04	.43	.26	.54

CAL YR 1973 TOTAL 245,222 MEAN 672 MAX 5,010 MIN 66 CFSM 1.42 IN 19.25
WTR YR 1974 TOTAL 229,888 MEAN 630 MAX 5,010 MIN 55 CFSM 1.33 IN 18.04

PEAK DISCHARGE (BASE, 4,200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	1600	11.14	5,180	06-24	2400	12.20	6,470
05-19	0700	10.45	4,510				

03362500 Sugar Creek near Edinburg, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
27...	0920	11.0	2560	149	1030	71	74
DEC.							
11...	1730	2.0	254	65	45	--	--
JAN.							
21...	1700	80.0	3790	139	1420	63	73
MAR.							
04...	1400	14.0	612	44	73	--	--
APR.							
11...	1125	10.5	1620	70	306	--	--
MAY							
20...	1230	18.0	3670	416	4120	74	86
JULY							
26...	1320	23.0	102	42	12	--	--

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
NOV.						
27...	82	87	93	96	96	100
DEC.						
11...	--	--	--	--	--	--
JAN.						
21...	77	86	90	92	100	--
MAR.						
04...	--	--	--	--	--	--
APR.						
11...	--	--	--	--	--	--
MAY						
20...	93	95	97	99	100	--
JULY						
26...	--	--	--	--	--	--

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, and 1.5 miles (2.4 km) southwest of Edinburg.

DRAINAGE AREA.--1,060 mi^2 (2,745 km^2).

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.--34 years, 1,129 ft^3/s (31.97 m^3/s), 14.46 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,900 ft^3/s (365 m^3/s) June 25, gage height, 13.91 ft (4.240 m); minimum daily, 212 ft^3/s (6.00 m^3/s) Oct. 26-28.
Period of record: Maximum discharge, 40,500 ft^3/s (1,147 m^3/s) Mar. 6, 1963, gage height, 16.97 ft (5.172 m); minimum daily, 38 ft^3/s (1.08 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	310	1,560	2,640	2,500	2,080	4,690	725	1,540	1,130	265	1,130
2	241	377	1,210	1,700	2,120	2,010	3,610	704	1,190	1,280	272	1,480
3	237	364	1,010	1,500	1,840	1,830	2,850	689	1,000	1,070	292	1,060
4	252	319	910	1,400	1,590	1,620	3,710	689	888	910	311	936
5	306	303	1,080	1,500	1,390	1,730	4,530	654	824	810	290	769
6	315	287	1,130	1,150	1,280	3,090	3,270	615	894	733	269	601
7	275	271	937	820	1,520	2,770	2,410	585	1,060	670	259	497
8	260	263	792	840	1,970	2,010	2,960	571	1,160	620	257	448
9	248	263	715	860	1,640	1,640	6,120	620	1,460	579	254	414
10	241	252	669	870	1,370	1,420	6,050	639	1,280	559	253	398
11	233	248	615	860	1,220	1,290	4,790	600	1,140	679	255	379
12	226	244	562	700	1,110	1,910	3,610	649	937	660	250	546
13	233	244	533	740	1,040	2,550	2,840	1,110	797	535	255	631
14	263	241	538	803	1,020	1,980	2,280	976	710	503	248	683
15	310	256	562	845	982	1,610	1,890	888	787	467	337	617
16	279	275	500	1,420	921	1,550	1,610	1,500	1,890	480	285	511
17	248	310	440	3,380	888	1,910	1,400	1,440	1,420	423	278	450
18	237	303	400	4,950	856	1,910	1,250	4,930	1,020	395	351	410
19	233	291	420	6,640	905	1,750	1,150	6,860	824	389	425	385
20	226	287	464	7,380	1,780	1,520	1,070	6,350	735	415	350	401
21	223	310	350	7,890	1,930	1,360	1,000	4,750	689	410	328	527
22	223	398	370	7,420	1,980	1,300	1,000	3,020	937	371	296	468
23	219	437	400	5,840	3,040	1,220	1,050	2,340	3,500	353	277	395
24	219	402	433	5,560	2,480	1,150	960	1,890	7,870	345	264	363
25	215	1,210	1,490	4,400	1,890	1,070	883	1,550	11,200	334	255	347
26	212	3,780	5,220	3,480	1,550	1,010	829	1,300	4,410	321	247	338
27	212	4,100	7,490	4,480	1,320	1,030	792	1,140	2,410	310	242	335
28	212	3,640	8,270	5,680	1,550	1,070	756	1,010	1,820	301	398	526
29	215	2,730	6,540	4,850	------	1,080	730	993	1,510	292	792	1,230
30	237	2,120	4,310	3,880	------	1,620	715	1,350	1,280	282	912	1,300
31	263	------	3,200	3,110	------	4,160	------	1,770	------	273	800	------
TOTAL	7,550	24,835	53,120	97,588	43,682	54,250	70,805	52,907	57,182	16,899	10,567	18,575
MEAN	244	828	1,714	3,148	1,560	1,750	2,360	1,707	1,906	545	341	619
MAX	315	4,100	8,270	7,890	3,040	4,160	6,120	6,860	11,200	1,280	912	1,480
MIN	212	241	350	700	856	1,010	715	571	689	273	242	335
CFSM	.23	.78	1.62	2.97	1.47	1.65	2.23	1.61	1.80	.51	.32	.58
IN.	.26	.87	1.86	3.42	1.53	1.90	2.48	1.86	2.01	.59	.37	.65

CAL YR 1973 TOTAL 565,524 MEAN 1,549 MAX 8,420 MIN 212 CFSM 1.46 IN 19.85
WTR YR 1974 TOTAL 507,960 MEAN 1,392 MAX 11,200 MIN 212 CFSM 1.31 IN 17.83

PEAK DISCHARGE (BASE, 7,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	1700	12.13	8,430	05-19	1200	11.16	7,230
01-21	1700	11.84	8,010	06-25	0700	13.91	12,900

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.

DRAINAGE AREA.--303 mi^2 (785 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft (152 m) upstream at same datum.

AVERAGE DISCHARGE.--44 years, 314 ft^3/s (8.892 m^3/s), 14.07 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,260 ft^3/s (177 m^3/s) June 24, gage height, 6.93 ft (2.112 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Oct. 26-28.
Period of record: Maximum discharge, 18,500 ft^3/s (524 m^3/s) Jan. 5, 1949; maximum recorded gage height, 12.37 ft (3.770 m) May 24, 1968; minimum daily discharge, 0.6 ft^3/s (0.017 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	42	329	460	604	516	1,100	291	496	276	33	1,500
2	31	45	265	430	530	482	830	270	346	339	38	747
3	24	39	228	370	450	437	764	270	280	253	120	909
4	30	33	237	370	382	394	971	237	246	220	93	703
5	49	31	296	310	335	516	1,240	214	223	235	61	437
6	39	29	246	260	352	774	925	197	214	189	46	296
7	30	27	201	210	550	617	678	181	193	163	41	223
8	25	26	177	220	496	469	1,570	201	193	149	181	185
9	23	27	165	241	394	394	1,970	237	210	144	118	161
10	21	25	157	232	329	341	1,910	193	265	134	72	153
11	19	25	139	228	291	325	1,790	173	214	129	67	216
12	18	25	131	200	275	472	1,250	210	185	118	76	296
13	23	25	142	200	270	491	837	201	169	105	67	280
14	31	25	146	210	265	380	652	165	157	175	221	280
15	29	45	128	275	241	341	523	181	260	148	214	251
16	25	92	121	710	232	389	418	169	286	108	108	193
17	21	71	100	1,140	223	422	352	1,180	210	94	595	165
18	19	51	100	1,290	210	372	307	1,800	177	85	275	142
19	18	44	104	1,970	280	341	280	1,800	157	85	153	131
20	18	39	121	2,000	489	300	251	1,240	146	81	98	529
21	19	47	120	2,360	469	326	237	960	165	73	76	388
22	18	57	115	1,810	851	309	324	667	339	64	62	246
23	18	53	112	1,680	990	281	376	550	3,400	61	124	181
24	18	57	114	1,610	725	261	302	443	4,250	59	197	146
25	17	523	583	1,200	509	235	260	358	1,600	55	62	139
26	16	1,010	1,150	1,000	394	251	255	312	1,110	51	49	121
27	16	916	1,420	1,710	352	268	255	275	754	46	51	114
28	16	901	1,190	1,490	443	278	265	246	525	48	431	217
29	19	631	901	1,170	------	283	270	421	408	45	518	1,050
30	27	443	781	916	------	593	286	604	325	39	388	851
31	34	------	610	747	------	1,130	------	638	------	35	832	------
TOTAL	735	5,404	10,629	27,019	11,931	12,988	21,448	14,884	17,503	3,806	5,467	11,250
MEAN	23.7	180	343	872	426	419	715	480	583	123	176	375
MAX	49	1,010	1,420	2,360	990	1,130	1,970	1,800	4,250	339	832	1,500
MIN	16	25	100	200	210	235	237	165	146	35	33	114
CFSM	.08	.59	1.13	2.88	1.41	1.38	2.36	1.58	1.92	.41	.58	1.24
IN.	.09	.66	1.30	3.32	1.46	1.59	2.63	1.83	2.15	.47	.67	1.38

CAL YR 1973 TOTAL 142,916 MEAN 392 MAX 4,200 MIN 15 CFSM 1.29 IN 17.55
WTR YR 1974 TOTAL 143,064 MEAN 392 MAX 4,250 MIN 16 CFSM 1.29 IN 17.56

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	0300	4.23	2,590	06-24	0100	6.93	6,260
04-08	1700	4.19	2,550	08-31	2200	4.26	2,620
05-17	2030	5.77	4,480				

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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...	1705	8.0	25	8	.54
28...	1535	10.5	894	90	217
DEC.					
14...	1720	2.0	138	61	23
JAN.					
28...	1825	--	1480	126	503
MAR.					
11...	1315	10.0	321	45	39
APR.					
12...	1315	11.5	1240	59	198
JUNE					
27...	1420	17.5	745	186	374
JULY					
30...	1535	24.5	39	18	1.9

03363900 Flatrock River at Columbus, Ind.

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¼SW¼ sec.12, T.9 N., R.5 E., Bartholomew County, on left bank at downstream side of U.S. Highway 31 (bypass) bridge, 0.2 mile (0.3 km) northwest of Columbus city limits, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--534 mi^2 (1,383 km^2).

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.--7 years, 606 ft^3/s (17.16 m^3/s), 15.41 in/yr (391 mm yr).

EXTREMES.--Current year: Maximum discharge, 7,080 ft^3/s (201 m^3/s) June 25, gage height, 11.30 ft (3.444 m); minimum daily, 68 ft^3/s (1.93 m^3/s) Oct. 28.
Period of record: Maximum discharge, 20,000 ft^3/s (566 m^3/s) May 25, 1968, gage height, 15.87 ft (4.837 m), from inside high-water mark; minimum daily, 22 ft^3/s (0.62 m^3/s) Oct. 5, 1967.

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

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	77	84	658	861	1,140	1,020	1,560	540	1,350	631	110	2,110
2	76	89	531	550	980	968	1,280	550	905	571	113	1,830
3	85	98	459	475	859	878	1,020	530	709	572	142	1,290
4	83	98	419	465	738	803	1,150	490	592	476	201	1,260
5	80	93	496	450	649	819	1,310	440	523	458	162	850
6	91	88	500	380	615	1,060	1,320	410	489	424	136	592
7	96	85	411	325	821	1,110	968	390	455	368	121	451
8	89	83	352	330	893	894	1,250	390	438	329	124	356
9	84	82	319	360	754	762	3,960	400	504	303	208	297
10	80	81	303	406	645	681	3,080	460	485	287	169	270
11	77	80	282	415	580	618	2,780	370	470	272	142	267
12	75	79	253	280	531	798	2,340	350	400	258	134	396
13	76	78	252	307	508	1,050	1,690	370	356	242	134	467
14	76	78	260	368	491	867	1,290	340	322	248	129	493
15	79	84	250	375	464	742	1,040	330	370	338	237	481
16	81	91	210	838	433	737	860	400	535	271	247	400
17	79	138	180	1,580	420	803	662	700	481	237	237	319
18	77	138	180	1,800	401	798	532	2,000	377	212	647	273
19	74	121	205	2,960	417	742	500	5,000	325	196	477	238
20	73	110	200	3,570	627	667	480	3,500	294	191	290	228
21	71	108	179	4,290	731	649	475	2,190	282	183	205	695
22	71	108	183	3,770	928	681	500	1,550	309	172	169	485
23	71	118	190	2,800	1,450	618	580	1,170	1,660	157	151	349
24	71	126	201	2,960	1,320	580	680	1,030	4,660	152	201	276
25	70	203	489	2,350	1,070	523	570	850	5,500	141	220	238
26	69	1,160	1,470	1,720	834	516	520	718	2,010	136	148	214
27	69	1,480	2,370	2,740	742	547	500	629	1,470	128	137	200
28	68	1,390	2,200	2,820	850	563	490	556	1,090	128	170	203
29	69	1,220	1,650	2,240	------	555	500	538	872	123	860	803
30	72	861	1,360	1,690	------	824	520	1,040	734	119	731	1,440
31	77	------	1,120	1,380	------	1,410	------	1,190	------	114	594	------
TOTAL	2,386	8,652	18,132	45,855	20,891	24,283	34,407	29,421	28,967	8,437	7,746	17,771
MEAN	77.0	288	585	1,479	746	783	1,147	949	966	272	250	592
MAX	96	1,480	2,370	4,290	1,450	1,410	3,960	5,000	5,500	631	860	2,110
MIN	68	78	179	280	401	516	475	330	282	114	110	200
CFSM	.14	.54	1.10	2.77	1.40	1.47	2.15	1.78	1.81	.51	.47	1.11
IN.	.17	.60	1.26	3.19	1.46	1.69	2.40	2.05	2.02	.59	.54	1.24

CAL YR 1973 TOTAL 249,150 MEAN 683 MAX 7,220 MIN 68 CFSM 1.28 IN 17.36
WTR YR 1974 TOTAL 246,948 MEAN 677 MAX 5,500 MIN 68 CFSM 1.27 IN 17.20

NOTE.--No gage-height record April 19 to May 21.

PEAK DISCHARGE (BASE, 3,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	2000	9.72	4,740	05-19	Unknown	10.75	6,210
04-09	1100	9.53	4,500	06-25	0500	11.30	7,080

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, and 1.3 miles (2.1 km) upstream from Haw Creek.

DRAINAGE AREA.--1,707 mi^2 (4,421 km^2).

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.--27 years, 1,815 ft^3/s (51.40 m^3/s), 14.44 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,000 ft^3/s (453 m^3/s) June 25, gage height, 7.84 ft (2.390 m); minimum daily, 310 ft^3/s (8.78 m^3/s) Oct. 26-28.
Period of record: Maximum discharge, 52,300 ft^3/s (1,480 m^3/s) Mar. 6, 1963, gage height, 16.23 ft (4.947 m); minimum daily, 87 ft^3/s (2.46 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	422	2,430	3,370	3,560	3,060	5,950	1,380	3,020	1,860	431	3,130
2	360	461	1,890	2,600	3,060	2,950	4,880	1,310	2,180	1,830	497	3,300
3	360	509	1,600	2,310	2,690	2,730	3,980	1,310	1,830	1,780	626	2,430
4	369	461	1,510	2,060	2,310	2,470	4,570	1,270	1,580	1,530	626	2,240
5	386	431	1,730	1,830	2,030	2,660	5,700	1,190	1,420	1,400	559	1,690
6	441	413	1,750	1,700	1,920	3,860	4,720	1,130	1,400	1,310	497	1,290
7	422	395	1,440	1,600	2,530	3,780	3,590	1,070	1,530	1,190	450	1,040
8	395	386	1,250	1,420	2,890	2,950	5,120	1,070	1,600	1,090	441	893
9	377	377	1,150	1,380	2,430	2,470	10,400	1,270	1,920	1,030	521	795
10	360	369	1,090	1,440	2,060	2,210	9,870	1,230	1,860	977	497	778
11	353	360	995	1,460	1,830	2,120	7,350	1,110	1,700	1,010	473	839
12	338	353	923	1,350	1,650	3,450	5,660	1,150	1,460	1,090	450	1,210
13	353	353	906	1,150	1,600	3,750	4,460	1,600	1,250	941	441	1,200
14	369	353	959	1,250	1,560	2,950	3,630	1,510	1,130	923	441	1,210
15	404	413	977	1,350	1,510	2,470	3,020	1,460	1,130	941	585	1,170
16	404	413	923	2,370	1,420	2,500	2,600	1,890	2,150	889	668	1,010
17	369	497	872	4,530	1,380	2,820	2,240	1,950	1,970	774	572	860
18	353	509	790	6,080	1,310	2,730	2,030	7,880	1,510	712	1,030	767
19	338	461	790	9,700	1,460	2,500	1,890	12,100	1,150	683	977	696
20	338	441	806	11,800	2,370	2,180	1,750	12,000	1,130	698	683	661
21	331	509	743	13,100	2,730	2,210	1,630	7,910	1,050	698	546	1,210
22	324	559	668	12,600	3,130	2,090	1,950	4,690	1,230	654	485	1,030
23	324	626	774	9,320	4,350	1,890	2,060	3,670	3,710	612	441	826
24	317	612	806	8,300	3,860	1,750	1,780	2,950	10,200	572	473	711
25	317	1,440	2,570	6,390	2,950	1,630	1,580	2,430	15,200	559	485	646
26	310	4,310	6,250	5,080	2,370	1,600	1,460	2,060	10,000	534	395	609
27	310	5,340	10,600	6,720	2,120	1,680	1,400	1,810	4,240	509	386	587
28	310	5,000	11,500	8,190	2,500	1,730	1,350	1,600	3,160	521	521	717
29	317	4,020	9,800	6,690	------	1,730	1,330	1,560	2,570	485	1,540	1,650
30	338	3,130	5,730	5,300	------	2,660	1,330	2,570	2,150	473	1,640	2,880
31	369	------	4,380	4,350	------	5,270	------	3,370	------	441	1,480	------
TOTAL	11,025	33,923	78,602	146,790	65,580	80,850	109,280	89,500	86,430	28,716	19,857	38,075
MEAN	356	1,131	2,536	4,735	2,342	2,608	3,643	2,887	2,881	926	641	1,269
MAX	441	5,340	11,500	13,100	4,350	5,270	10,400	12,100	15,200	1,860	1,640	3,300
MIN	310	353	668	1,150	1,310	1,600	1,330	1,070	1,050	441	386	587
CFSM	.21	.66	1.49	2.77	1.37	1.53	2.13	1.69	1.69	.54	.38	.74
IN.	.24	.74	1.71	3.20	1.43	1.76	2.38	1.95	1.88	.63	.43	.83

CAL YR 1973 TOTAL 828,677 MEAN 2,270 MAX 14,700 MIN 310 CFSM 1.33 IN 18.06
WTR YR 1974 TOTAL 788,628 MEAN 2,161 MAX 15,200 MIN 310 CFSM 1.27 IN 17.19

PEAK DISCHARGE (BASE, 10,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	1000	5.51	11,500	05-20	0100	6.06	12,600
01-21	1800	6.55	13,300	06-25	1400	7.84	16,000
04-09	1800	5.35	11,200				

03364200 Haw Creek near Clifford, Ind.

LOCATION.--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 7.4 miles (11.9 km) upstream from mouth.

DRAINAGE AREA.--47.5 mi^2 (123.0 km^2).

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.--7 years, 49.1 ft^3/s (1.391 m^3/s), 14.04 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,090 ft^3/s (59.2 m^3/s) Sept. 1, gage height, 12.80 ft (3.901 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) Oct. 1.
Period of record: Maximum discharge, 2,560 ft^3/s (72.5 m^3/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, except those for periods of no gage-height record, which are poor.

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	1.6	8.0	37	52	68	63	74	34	118	14	5.1	1,500
2	3.0	17	31	35	64	66	85	31	66	13	36	373
3	8.0	9.0	27	25	54	60	101	47	49	12	93	274
4	5.0	6.0	38	22	47	51	127	38	40	12	25	142
5	13	6.5	61	20	43	79	73	33	35	16	11	89
6	11	7.4	37	17	51	66	58	30	32	12	7.6	64
7	8.0	5.0	30	13	120	53	51	27	28	10	7.0	51
8	5.0	4.0	26	20	74	45	629	36	27	9.8	10	42
9	3.0	3.6	25	31	57	41	295	69	25	9.2	6.9	37
10	2.5	3.8	23	34	49	39	131	47	21	9.2	5.9	39
11	2.3	3.8	19	30	43	46	94	38	21	9.5	7.2	106
12	2.2	3.8	17	20	40	174	76	40	19	8.4	6.7	598
13	2.2	4.0	19	23	36	124	61	36	18	7.5	5.7	214
14	10	3.8	18	29	33	82	51	31	17	102	50	175
15	20	15	17	68	30	66	46	43	25	28	9.2	97
16	8.0	16	12	163	31	68	40	39	20	14	6.6	68
17	4.0	6.7	9.0	160	29	58	36	250	17	11	6.3	55
18	3.0	5.4	10	276	28	62	34	600	15	9.7	6.6	45
19	2.9	4.2	11	634	55	55	32	300	15	8.9	28	38
20	2.9	3.4	11	450	65	45	30	170	14	8.8	8.2	61
21	2.9	4.7	9.0	468	52	99	29	106	14	7.8	5.5	163
22	2.8	6.1	10	175	184	79	60	82	22	6.5	5.1	75
23	2.8	4.9	14	202	107	61	58	79	139	6.3	5.6	49
24	2.6	5.6	31	137	89	51	40	58	50	6.3	12	41
25	2.5	100	230	106	64	47	36	45	30	5.9	6.0	36
26	2.4	125	253	163	50	52	33	38	26	5.7	5.1	33
27	2.3	123	248	376	68	47	30	33	20	5.8	4.7	31
28	2.3	139	126	154	81	45	29	29	18	19	57	63
29	2.7	69	109	125	------	44	29	43	17	9.2	86	436
30	6.0	48	97	99	------	72	31	82	15	6.3	39	137
31	15	------	68	82	------	84	------	221	------	5.5	20	------
TOTAL	161.9	761.7	1,673.0	4,209	1,712	2,024	2,499	2,755	973	409.3	588.0	5,132
MEAN	5.22	25.4	54.0	136	61.1	65.3	83.3	88.9	32.4	13.2	19.0	171
MAX	20	139	253	634	184	174	629	600	139	102	93	1,500
MIN	1.6	3.4	9.0	13	28	39	29	27	14	5.5	4.7	31
CFSM	.11	.53	1.14	2.86	1.29	1.37	1.75	1.87	.68	.28	.40	3.60
IN.	.13	.60	1.31	3.30	1.34	1.59	1.96	2.16	.76	.32	.46	4.02

CAL YR 1973 TOTAL 21,378.0 MEAN 58.6 MAX 1,120 MIN 1.6 CFSM 1.23 IN 16.74
WTR YR 1974 TOTAL 22,897.9 MEAN 62.7 MAX 1,500 MIN 1.6 CFSM 1.32 IN 17.93

NOTE.--No gage-height record Oct. 1 to Nov. 9.

PEAK DISCHARGE (BASE, 600 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	0800	9.24	1,110	05-18	unknown	unknown	1,060	09-12	0300	9.31	1,130
01-27	0100	7.90	825	09-01	1200	12.80	2,090	09-29	0600	7.56	755
04-08	1700	10.92	1,520								

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, and 5 miles (8 km) upstream from Duck Creek.

DRAINAGE AREA.--91.4 mi^2 (236.7 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: February 1948 to current year.
CHEMICAL ANALYSIS: December 1970 to current year.
WATER TEMPERATURE: December 1970 to current year.

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.--26 years, 96.8 ft^3/s (2.741 m^3/s), 14.38 in/yr (365 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	.39	5.9	82	120	139	133	186	58	277	45	2.6	2,540
2	1.4	7.4	62	90	131	122	196	48	163	37	4.4	714
3	2.8	5.9	55	83	105	110	313	53	115	28	104	662
4	7.1	4.8	58	78	89	98	642	46	91	32	79	397
5	9.2	4.8	95	70	74	136	299	40	76	46	26	209
6	3.8	3.8	68	50	78	131	211	37	70	33	14	120
7	2.5	3.3	49	35	214	107	163	33	60	26	9.4	80
8	3.3	2.8	43	39	154	90	913	39	200	23	62	59
9	2.8	2.8	40	64	110	80	783	102	120	21	43	46
10	2.4	2.4	39	56	89	72	365	70	72	23	18	43
11	2.2	2.0	32	45	76	78	250	56	56	20	13	66
12	2.0	2.0	30	37	68	176	193	107	48	16	10	460
13	3.0	2.0	33	46	70	148	145	107	40	14	8.4	280
14	4.8	2.4	43	55	64	107	122	70	36	70	62	202
15	5.3	7.8	45	91	56	98	98	117	163	64	71	117
16	4.8	23	32	343	56	100	84	105	107	30	22	78
17	3.8	24	25	403	55	95	70	507	58	19	144	62
18	2.8	11	26	414	49	91	64	1,830	43	14	132	50
19	2.6	7.1	28	1,170	80	84	62	1,320	36	13	47	40
20	2.4	4.8	30	670	142	74	56	728	32	14	23	184
21	2.6	5.9	26	753	115	142	51	324	31	11	13	219
22	2.5	7.8	24	399	396	133	84	231	51	9.6	9.1	104
23	2.4	9.8	32	410	288	107	89	196	1,080	8.6	7.5	68
24	2.3	15	41	351	193	91	62	154	269	8.0	6.0	51
25	2.0	196	385	247	133	78	51	120	139	7.0	5.6	43
26	1.7	299	480	292	107	84	48	98	303	6.4	3.1	38
27	1.7	321	579	797	105	82	46	84	137	5.5	2.3	38
28	2.0	347	336	375	148	76	43	72	85	16	21	75
29	2.4	200	257	306	------	82	40	115	65	9.2	227	497
30	3.3	117	257	234	------	170	46	347	53	5.2	162	283
31	4.3	------	176	183	------	221	------	324	------	3.3	160	------
TOTAL	96.59	1,648.5	3,508	8,306	3,384	3,396	5,775	7,538	4,076	677.8	1,511.4	7,825
MEAN	3.12	55.0	113	268	121	110	193	243	136	21.9	48.8	261
MAX	9.2	347	579	1,170	396	221	913	1,830	1,080	70	227	2,540
MIN	.39	2.0	24	35	49	72	40	33	31	3.3	2.3	38
CFSM	.03	.60	1.24	2.93	1.32	1.20	2.11	2.66	1.49	.24	.53	2.86
IN.	.04	.67	1.43	3.38	1.38	1.38	2.35	3.07	1.66	.28	.62	3.18

CAL YR 1973 TOTAL 40,435.59 MEAN 111 MAX 1,620 MIN .30 CFSM 1.21 IN 16.46
WTR YR 1974 TOTAL 47,742.29 MEAN 131 MAX 2,540 MIN .39 CFSM 1.43 IN 19.43

PEAK DISCHARGE (BASE, 1,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-19	1400	5.43	1,510	06-23	1100	6.19	1,930
04-08	2100	5.78	1,700	09-01	0500	8.22	3,210
05-18	0800	8.29	3,260				

03364500 Clifty Creek at Hartsville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 3,260 ft^3/s (92.3 m^3/s) May 18, gage height, 8.29 ft (2.527 m); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Oct. 1.

Period of record: Maximum discharge, 11,300 ft^3/s (320 m^3/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, 605 micromhos Dec. 18; minimum, 184 micromhos May 18.

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 July 9; minimum, freezing point on many days during December to February.

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. Revised figures of discharge, in cubic feet per second for the 1973 water year superseding those published in WRD Ind. 1973 are given herein:

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
July 19.....	11	Aug. 12.....	11	Aug. 29.....	3.8	Sept. 15.....	2.8
20.....	9.9	13.....	68	30.....	2.8	16.....	2.4
28.....	102	14.....	60	31.....	4.3	17.....	1.6
29.....	68	15.....	28	Sept. 1.....	2.4	18.....	2.4
30.....	52	16.....	20	2.....	2.4	19.....	1.6
31.....	43	17.....	14	3.....	1.1	20.....	1.6
Aug. 1.....	39	18.....	11	4.....	1.1	21.....	1.1
2.....	33	19.....	9.9	5.....	1.1	22.....	3.8
3.....	29	20.....	8.5	6.....	1.1	23.....	6.0
4.....	25	21.....	39	7.....	1.1	24.....	5.4
5.....	21	22.....	22	8.....	1.1	25.....	5.4
6.....	19	23.....	12	9.....	1.6	26.....	4.8
7.....	16	24.....	9.9	10.....	2.8	27.....	3.8
8.....	14	25.....	8.5	11.....	2.8	28.....	2.4
9.....	13	26.....	6.6	12.....	2.4	29.....	.70
10.....	13	27.....	5.4	13.....	1.6	30.....	.30
11.....	11	28.....	4.8	14.....	2.4		

Month	Ft^3/s-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
July 1973.....	4,738.9	1,060	9.9	153	1.67	1.92
Aug. 1973.....	582.5	68	2.8	18.8	.21	.24
Sept. 1973.....	71.1	60	.30	2.37	.03	.03
Water Year 1973....	43,597.1	1,620	.30	119	1.31	17.78

03364500 Clifty Creek at Hartsville, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	480	473	---	---	552	536	---	---	---	---	---	---
2	---	---	---	---	574	549	---	---	---	---	---	---
3	---	---	---	---	574	545	---	---	---	---	---	---
4	---	---	---	---	576	540	---	---	---	---	---	---
5	---	---	---	---	559	549	---	---	---	---	---	---
6	---	---	521	515	557	547	---	---	---	---	---	---
7	---	---	534	517	557	547	---	---	---	---	---	---
8	---	---	540	532	571	554	---	---	---	---	---	---
9	---	---	545	532	579	564	---	---	---	---	---	---
10	---	---	549	543	576	566	---	---	---	---	---	---
11	---	---	543	532	581	576	---	---	---	---	---	---
12	---	---	543	534	589	579	---	---	---	---	---	---
13	---	---	547	536	589	569	---	---	---	---	---	---
14	---	---	552	540	587	566	---	---	---	---	---	---
15	---	---	557	420	592	581	---	---	---	---	---	---
16	---	---	512	496	581	574	---	---	---	---	---	---
17	---	---	523	500	603	581	---	---	---	---	---	---
18	---	---	540	502	605	594	---	---	---	---	---	---
19	---	---	540	536	603	594	---	---	---	---	---	---
20	---	---	549	538	594	576	---	---	---	---	---	---
21	---	---	554	534	---	---	---	---	---	---	---	---
22	---	---	561	545	---	---	---	---	---	---	---	---
23	---	---	566	552	---	---	---	---	---	---	---	---
24	---	---	579	454	---	---	---	---	---	---	---	---
25	---	---	552	431	---	---	---	---	---	---	---	---
26	---	---	437	363	---	---	---	---	---	---	---	---
27	---	---	454	431	---	---	---	---	---	---	---	---
28	---	---	471	441	---	---	---	---	---	---	---	---
29	---	---	498	456	---	---	---	---	---	---	---	---
30	---	---	536	500	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	579	363	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	435	425	498	459	471	460	442	411	307	1270
2	---	---	439	429	530	502	475	469	451	434	370	269
3	---	---	458	437	553	533	475	469	444	321	398	373
4	---	---	459	441	571	557	471	457	397	344	428	389
5	---	---	441	432	588	575	455	433	395	381	462	429
6	---	---	432	423	594	592	446	432	387	372	479	464
7	---	---	431	416	598	585	453	448	397	375	490	479
8	---	---	426	411	596	465	452	445	399	385	498	490
9	---	---	428	407	464	441	458	450	404	317	505	495
10	---	---	439	428	478	456	462	454	330	325	509	501
11	---	---	442	422	509	483	464	456	348	330	508	458
12	---	---	449	420	519	480	472	459	357	337	454	359
13	---	---	458	437	526	505	472	453	372	342	378	360
14	---	---	451	429	540	527	470	297	428	362	405	379
15	---	---	429	404	552	279	437	305	451	321	424	404
16	---	---	437	429	474	281	458	441	---	---	437	422
17	488	477	442	222	426	283	460	438	390	312	457	437
18	494	464	342	184	457	431	449	435	---	---	471	455
19	480	414	372	219	492	463	456	447	335	307	483	469
20	447	379	397	239	519	497	453	410	384	337	493	474
21	411	380	456	404	524	519	410	389	417	385	471	466
22	407	394	481	462	528	491	416	401	441	419	473	467
23	432	408	504	483	477	279	425	410	451	423	474	467
24	442	425	516	508	382	261	438	417	439	415	481	472
25	434	420	528	516	419	386	452	429	457	434	479	473
26	429	405	540	530	423	289	464	439	465	444	482	475
27	425	410	548	538	349	292	469	443	468	438	500	480
28	431	410	544	542	420	354	475	402	464	348	510	495
29	432	413	548	486	450	422	430	358	396	337	493	472
30	431	419	492	393	464	452	366	363	368	336	475	470
31	---	---	449	395	---	---	410	378	403	255	---	---
MONTH	---	---	548	184	598	261	475	297	468	255	510	269

03364500 Clifty Creek at Hartsville, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.0	---	---	6.5	6.0	---	---	---	---	---	---
2	---	---	---	---	7.0	5.0	---	---	---	---	---	---
3	---	---	---	---	8.0	6.0	---	---	---	---	---	---
4	---	---	---	---	10.0	8.0	---	---	---	---	---	---
5	---	---	---	---	10.0	6.5	---	---	---	---	---	---
6	---	---	6.0	6.0	6.5	4.5	---	---	---	---	---	---
7	---	---	6.5	5.5	4.5	3.5	---	---	---	---	---	---
8	---	---	6.0	5.5	3.5	2.5	---	---	---	---	---	---
9	---	---	6.0	5.0	2.5	1.5	---	---	---	---	---	---
10	---	---	5.0	3.0	2.5	0.0	---	---	---	---	---	---
11	---	---	5.5	3.0	0.0	-0.5	---	---	---	---	---	---
12	---	---	6.5	5.5	1.0	-0.5	---	---	---	---	---	---
13	---	---	10.0	6.5	2.5	1.0	---	---	---	---	---	---
14	---	---	12.5	10.0	2.5	1.5	---	---	---	---	---	---
15	---	---	14.0	12.0	1.5	1.0	---	---	---	---	---	---
16	---	---	11.5	8.0	1.0	-0.5	---	---	---	---	---	---
17	---	---	8.0	7.0	0.0	-0.5	---	---	---	---	---	---
18	---	---	8.5	6.5	0.0	-0.5	---	---	---	---	---	---
19	---	---	10.5	8.5	0.0	-0.5	---	---	---	---	---	---
20	---	---	10.5	9.0	-0.5	-0.5	---	---	---	---	---	---
21	---	---	11.5	10.0	-0.5	-0.5	---	---	---	---	---	---
22	---	---	10.5	8.0	---	---	---	---	---	---	---	---
23	---	---	10.5	9.0	---	---	---	---	---	---	---	---
24	---	---	14.0	10.5	---	---	---	---	---	---	---	---
25	---	---	14.0	11.5	---	---	---	---	---	---	---	---
26	---	---	12.0	10.0	---	---	---	---	---	---	---	---
27	---	---	13.5	10.0	---	---	---	---	---	---	---	---
28	---	---	13.0	9.5	---	---	---	---	---	---	---	---
29	---	---	9.0	6.5	---	---	---	---	---	---	---	---
30	---	---	7.0	6.0	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	14.0	3.0	---	---	---	---	---	---	---	---

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

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 Wyaloosing Creek, and 16 miles (26 km) upstream from mouth.

DRAINAGE AREA.--155 mi^2 (401 km^2).

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.--26 years, 209 ft^3/s (5.919 m^3/s), 14.72 in/yr (374 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,170 ft^3/s (118 m^3/s) Apr. 8, gage height, 10.84 ft (3.304 m); minimum daily, 3.9 ft^3/s (0.110 m^3/s) Oct. 29, 30.
Period of record: Maximum discharge, 19,900 ft^3/s (564 m^3/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^3/s (184 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	9.6	133	163	189	214	388	272	361	45	10	2,370
2	23	17	101	119	273	391	899	146	187	38	7.6	762
3	10	23	87	125	223	263	477	200	133	32	8.7	962
4	10	17	105	109	150	197	844	153	111	76	72	440
5	17	13	197	100	121	304	397	113	98	189	56	233
6	9.6	10	137	82	135	257	283	94	94	100	26	150
7	8.3	9.4	100	75	670	195	223	81	82	57	17	108
8	9.0	8.1	79	76	251	165	2,310	77	157	51	275	79
9	8.0	7.3	71	78	174	140	1,350	141	207	44	161	61
10	7.0	8.6	66	104	136	156	442	145	161	36	69	58
11	6.4	8.4	60	110	121	404	283	110	95	32	42	112
12	6.1	8.3	51	90	110	1,060	220	254	69	29	32	890
13	6.4	8.5	54	78	110	608	190	201	59	19	26	437
14	7.0	9.0	66	82	107	282	155	131	50	16	19	482
15	6.4	20	62	259	95	218	131	115	57	128	15	215
16	7.3	61	46	680	86	395	115	136	132	58	13	140
17	9.3	62	38	577	80	266	102	148	74	32	14	108
18	7.3	30	42	861	72	263	93	882	51	21	82	93
19	6.1	19	46	1,720	167	209	87	1,130	43	16	81	74
20	5.8	14	76	945	306	167	82	1,820	37	14	36	63
21	5.5	16	72	1,150	172	457	75	385	35	16	22	89
22	5.2	20	70	520	983	350	125	236	123	16	17	119
23	4.9	20	78	644	507	227	213	274	407	11	14	71
24	4.7	206	176	502	278	190	121	189	227	9.2	9.9	53
25	4.7	728	849	313	202	177	96	139	124	8.4	7.7	42
26	4.4	680	825	395	157	185	86	113	176	9.6	6.4	36
27	4.4	762	1,120	1,480	168	168	78	96	150	8.2	6.6	33
28	4.2	1,000	442	606	249	148	72	82	93	7.6	24	40
29	3.9	340	337	482	------	142	68	87	66	7.3	498	762
30	3.9	189	357	313	------	886	121	903	55	7.4	703	350
31	4.4	------	217	240	------	615	------	807	------	13	211	------
TOTAL	224.4	4,324.2	6,160	13,078	6,292	9,699	10,126	9,660	3,714	1,146.7	2,581.9	9,432
MEAN	7.24	144	199	422	225	313	338	312	124	37.0	83.3	314
MAX	23	1,000	1,120	1,720	983	1,060	2,310	1,820	407	189	703	2,370
MIN	3.9	7.3	38	75	72	140	68	77	35	7.3	6.4	33
CFSM	.05	.93	1.28	2.72	1.45	2.02	2.18	2.01	.80	.24	.54	2.03
IN.	.05	1.04	1.48	3.14	1.51	2.33	2.43	2.32	.89	.28	.62	2.26

CAL YR 1973 TOTAL 76,252.2 MEAN 209 MAX 2,310 MIN 3.1 CFSM 1.35 IN 18.30
WTR YR 1974 TOTAL 76,438.2 MEAN 209 MAX 2,370 MIN 3.9 CFSM 1.35 IN 18.35

PEAK DISCHARGE (BASE, 2,900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
04-08	1800	10.84	4,170	09-01	1500	10.65	4,030
05-20	0400	10.30	3,780				

03365000 Sand Creek near Brewersville, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
28...	1200	11.0	1090	354	1040	49	60
JULY							
02...	1015	24.0	38	130	13	--	--

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
NOV.						
28...	74	88	96	99	99	100
JULY						
02...	--	--	--	--	--	--

03365500 East Fork White River at Seymour, Ind.

LOCATION.--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, 9.6 miles (15.4 km) downstream from Sand Creek, and at mile 219.2 (352.7 km).

DRAINAGE AREA.--2,341 mi^2 (6,063 km^2).

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.--47 years, 2,393 ft^3/s (67.78 m^3/s), 13.88 in/yr (353 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	412	429	3,630	5,580	6,040	4,060	7,300	2,380	7,440	2,580	577	3,590
2	450	463	2,850	4,130	5,100	4,400	7,930	2,110	4,940	2,270	573	9,320
3	450	520	2,370	3,450	4,670	4,340	6,810	2,140	3,480	2,270	778	6,990
4	467	542	2,130	3,140	3,970	3,800	7,550	2,100	2,840	2,000	941	5,360
5	458	515	2,400	2,790	3,450	3,620	8,020	1,880	2,460	1,850	884	3,660
6	484	480	2,540	2,560	3,150	4,430	7,440	1,710	2,240	1,820	753	2,610
7	524	454	2,170	2,400	4,350	5,050	5,820	1,600	2,240	1,630	647	2,000
8	493	437	1,830	2,190	4,650	4,410	6,600	1,540	2,320	1,480	593	1,620
9	463	433	1,640	2,020	4,100	3,630	13,900	1,670	2,780	1,370	796	1,380
10	445	416	1,530	2,090	3,470	3,310	13,200	1,920	2,800	1,290	776	1,250
11	429	404	1,420	2,270	3,050	3,190	11,200	1,740	2,490	1,240	679	1,250
12	416	399	1,310	2,180	2,780	5,010	9,480	1,740	2,210	1,290	617	2,310
13	412	391	1,250	1,870	2,610	7,510	7,500	2,200	1,930	1,230	582	3,780
14	429	391	1,250	1,760	2,530	5,400	5,790	2,250	1,740	1,140	571	3,430
15	437	416	1,290	1,920	2,420	4,090	4,710	2,050	1,610	1,310	572	2,580
16	467	506	1,260	3,480	2,290	3,940	3,980	2,270	2,000	1,290	767	2,010
17	450	547	1,200	5,260	2,180	4,030	3,460	2,520	2,740	1,120	727	1,640
18	420	612	1,110	7,100	2,090	3,990	3,090	4,460	2,240	1,000	804	1,400
19	404	570	1,050	10,400	2,120	3,750	2,850	10,100	1,820	932	1,130	1,240
20	391	524	1,090	13,900	3,010	3,360	2,640	14,600	1,620	889	1,080	1,110
21	383	533	1,110	16,000	3,690	3,440	2,470	14,500	1,500	879	806	1,470
22	375	588	1,040	16,300	4,790	3,990	2,640	10,000	1,500	852	678	1,860
23	367	626	1,040	13,700	6,730	3,280	3,450	6,840	2,270	810	603	1,480
24	363	769	1,120	11,800	6,160	2,920	2,920	5,340	6,700	774	749	1,210
25	359	2,000	2,550	10,600	4,940	2,690	2,490	4,200	9,750	744	635	1,060
26	355	4,300	6,010	8,760	3,860	2,570	2,280	3,470	13,400	714	559	974
27	347	6,710	9,470	10,200	3,330	2,580	2,140	2,980	9,920	684	496	922
28	347	7,820	11,800	11,500	3,460	2,550	2,020	2,620	5,210	665	551	940
29	347	6,710	12,000	11,000	------	2,520	1,930	2,400	3,740	674	1,260	2,960
30	371	4,750	10,700	9,430	------	4,330	1,930	4,950	3,040	637	2,630	4,880
31	383	------	7,780	7,540	------	6,010	------	6,830	------	603	2,330	------
TOTAL	12,898	44,255	99,940	207,320	104,990	122,200	163,540	127,110	110,970	38,037	26,144	76,286
MEAN	416	1,475	3,224	6,688	3,750	3,942	5,451	4,100	3,699	1,227	843	2,543
MAX	524	7,820	12,000	16,300	6,730	7,510	13,900	14,600	13,400	2,580	2,630	9,320
MIN	347	391	1,040	1,760	2,090	2,520	1,930	1,540	1,500	603	496	922
CFSM	.18	.63	1.38	2.86	1.60	1.68	2.33	1.75	1.58	.52	.36	1.09
IN.	.20	.70	1.59	3.29	1.67	1.94	2.60	2.02	1.76	.60	.42	1.21

CAL YR 1973 TOTAL 1,179,986 MEAN 3,233 MAX 21,700 MIN 347 CFSM 1.38 IN 18.75
WTR YR 1974 TOTAL 1,133,690 MEAN 3,106 MAX 16,300 MIN 347 CFSM 1.33 IN 18.02

PEAK DISCHARGE (BASE, 12,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-29	0700	13.62	12,100	05-20	2200	15.46	17,500
01-21	2300	15.43	17,400	06-26	1500	14.52	14,200
04-09	1500	14.85	15,100				

03365500 East Fork White River at Seymour, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 17,500 ft^3/s (496 m^3/s) May 20, gage height, 15.46 ft (4.712 m); minimum daily, 347 ft^3/s (9.83 m^3/s) Oct. 27-29.
Period of record: Maximum discharge, 78,500 ft^3/s (2,220 m^3/s) Jan. 5, 1949, gage height, 19.67 ft (5.995 m); minimum daily, 86 ft^3/s (2.44 m^3/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 State Highway Department of Indiana, discharge, 120,000 ft^3/s (3,400 m^3/s).

WATER TEMPERATURE, Current year: Maximum temperature recorded, 26.5°C Aug. 17; minimum, 1.0°C Dec. 22, 23.
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, 1,090 mg/l June 24; minimum daily, 11 mg/l Nov. 13, 14.
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, 18,400 tons (16,700 tonnes) June 24; minimum daily, 12.0 tons (10.9 tonnes) Nov. 13, 14.
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 from station. Sediment samples collected at highway bridge.

REVISIONS (WATER YEARS).--WSP 743: 1928-29, 1931-32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1928(M), 1929-30, 1932-33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.5	9.5	9.0	8.5	3.0	2.0	7.0	6.5	7.0	6.0
2	---	---	9.5	9.5	8.5	8.0	2.0	1.5	6.5	6.5	9.5	7.0
3	---	---	9.5	9.0	8.5	8.0	1.5	1.5	6.5	6.0	12.0	9.5
4	---	---	9.0	9.0	9.5	8.5	1.5	1.5	6.0	4.5	13.5	12.0
5	---	---	9.0	8.5	10.0	9.0	1.5	1.5	4.5	4.0	14.0	13.5
6	---	---	8.5	7.5	9.0	8.0	2.0	1.5	4.5	4.5	14.0	13.5
7	---	---	7.5	7.0	8.0	6.5	2.5	2.0	4.5	4.0	14.0	13.5
8	---	---	7.0	7.0	6.5	6.0	2.5	2.0	4.0	3.5	15.5	14.0
9	---	---	7.0	6.5	6.0	5.5	2.0	2.0	3.5	3.5	15.5	15.5
10	---	---	6.5	6.0	5.5	4.5	2.5	2.0	3.5	3.0	15.5	15.0
11	---	---	6.0	5.5	4.5	3.5	2.5	2.5	3.0	3.0	15.0	12.0
12	---	---	6.0	6.0	3.5	3.0	2.5	2.0	4.0	3.0	12.0	9.0
13	---	---	6.5	6.0	4.5	3.5	2.0	1.5	6.0	4.0	9.0	8.0
14	---	---	9.0	6.5	4.5	4.5	2.0	1.5	6.5	6.0	8.0	8.0
15	---	---	10.5	9.0	4.5	4.0	3.5	2.0	6.0	5.5	8.5	8.0
16	---	---	10.0	9.5	4.0	3.5	3.5	3.5	6.0	5.5	8.5	8.0
17	---	---	9.5	8.5	3.5	2.5	4.5	3.5	6.5	5.5	8.0	7.0
18	---	---	8.5	8.0	2.5	2.0	6.0	4.5	6.5	6.0	7.0	6.5
19	---	---	9.0	8.0	2.0	2.0	8.0	6.0	7.0	6.5	8.0	7.0
20	---	---	9.5	9.0	2.0	2.0	9.0	8.0	7.0	6.0	8.5	7.5
21	---	---	10.0	9.5	2.0	1.5	9.0	9.0	6.5	6.0	8.5	8.0
22	---	---	10.0	9.5	1.5	1.0	9.0	8.5	7.0	6.5	8.0	7.0
23	---	---	10.0	9.5	1.5	1.0	8.5	8.0	6.5	6.0	7.0	6.5
24	---	---	11.0	10.0	3.0	1.5	8.0	6.5	6.0	4.5	6.5	5.5
25	---	---	12.0	11.0	4.0	3.0	6.5	5.5	4.5	3.5	6.0	4.5
26	---	---	12.0	11.0	5.0	4.0	6.0	5.5	3.5	3.0	7.0	5.5
27	---	---	11.0	10.5	5.5	5.0	8.5	6.0	4.0	3.0	8.5	7.0
28	---	---	11.5	10.5	5.5	4.5	8.5	8.0	6.0	4.0	9.0	8.5
29	---	---	11.5	9.5	4.5	4.0	8.0	7.0	---	---	11.0	9.0
30	---	---	9.5	9.0	4.0	3.5	7.0	6.5	---	---	11.0	10.0
31	---	---	---	---	3.5	3.0	7.0	6.5	---	---	10.0	9.0
MONTH	---	---	12.0	5.5	10.0	1.0	9.0	1.5	7.0	3.0	15.5	4.5

03365500 East Fork White River at Seymour, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	18.0	17.0	18.5	18.5	22.0	20.5	24.0	22.0	23.0	21.0
2	11.5	9.5	17.0	16.5	18.5	18.0	23.0	21.5	24.0	23.0	21.0	20.0
3	13.0	11.5	16.5	15.5	19.5	18.5	24.0	23.0	23.0	21.0	20.0	17.0
4	14.0	13.0	15.5	14.0	20.0	19.0	24.5	24.0	21.0	19.5	17.0	16.5
5	13.5	11.0	16.0	14.5	20.0	19.5	24.0	23.5	21.5	19.5	16.5	16.0
6	11.0	9.5	15.0	13.5	21.0	19.5	24.5	23.5	21.5	20.5	17.0	16.0
7	10.0	9.5	14.0	13.0	21.5	20.5	24.5	23.5	22.0	21.0	18.0	17.0
8	9.5	8.0	14.0	12.5	21.5	21.0	25.5	24.0	23.0	21.5	18.5	18.0
9	8.0	6.0	14.0	13.5	21.5	21.0	25.5	24.5	23.5	22.5	18.5	18.5
10	---	---	12.0	11.5	21.5	21.0	25.5	25.0	23.5	23.0	19.0	18.5
11	---	---	13.5	12.0	21.0	20.0	25.0	24.0	23.0	22.0	20.5	19.0
12	---	---	14.5	13.5	20.0	19.0	25.0	23.5	24.0	23.0	20.5	20.0
13	---	---	14.5	13.5	19.5	18.5	24.5	23.5	25.0	24.0	20.5	19.5
14	---	---	15.5	14.0	19.5	19.0	24.5	23.5	25.0	24.0	19.5	18.0
15	---	---	17.0	14.0	20.5	19.0	25.0	24.5	25.5	24.5	18.0	16.5
16	3.0	12.0	20.5	17.0	20.0	19.0	25.5	24.0	26.0	25.0	17.0	16.5
17	---	---	21.0	20.5	19.0	18.0	25.0	24.0	26.5	25.5	17.0	16.0
18	---	---	21.0	20.5	18.5	17.0	24.5	24.0	26.0	25.5	18.0	17.0
19	---	---	20.5	19.5	20.0	18.5	25.0	24.5	25.5	24.0	18.5	17.5
20	---	15.5	19.5	18.5	21.5	20.0	25.0	24.5	25.0	24.0	18.5	18.5
21	---	---	19.5	18.5	21.5	21.5	25.5	24.0	25.0	24.0	18.5	18.0
22	---	15.5	19.0	19.0	22.0	21.5	25.0	23.5	25.0	24.0	18.0	16.5
23	---	---	19.5	19.0	21.5	20.5	23.5	22.5	25.0	24.5	16.5	15.5
24	---	---	19.5	19.0	20.5	19.0	23.0	21.5	24.5	23.5	15.5	14.0
25	---	13.0	19.5	18.5	19.0	18.0	23.0	22.0	24.0	23.5	15.5	14.5
26	---	15.0	18.5	18.0	19.0	18.0	24.0	22.5	24.5	23.5	15.5	15.0
27	---	---	18.0	17.0	19.0	18.5	24.5	23.0	25.5	24.5	15.5	15.0
28	---	16.5	18.0	17.0	19.0	18.5	24.5	24.0	25.0	24.0	16.0	15.0
29	19.0	18.0	17.5	17.0	19.5	18.5	25.0	24.0	24.0	23.0	16.0	15.5
30	19.0	18.0	18.5	17.0	20.5	19.0	24.5	23.5	23.0	22.5	15.5	14.5
31	---	---	18.5	18.5	---	---	24.0	22.0	23.0	22.0	---	---
MONTH	---	---	21.0	11.5	22.0	17.0	25.5	20.5	26.5	19.5	23.0	14.0
YEAR	26.5	1.0										

03365500 East Fork White River at Seymour, Ind.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	412	44	49	429	15	17	3630	82	804
2	450	54	66	463	22	28	2850	83	639
3	450	53	64	520	30	42	2370	72	461
4	467	52	66	542	34	50	2130	97	558
5	458	48	59	515	29	40	2400	107	693
6	484	53	69	480	24	31	2540	76	521
7	524	54	76	454	20	25	2170	90	527
8	493	43	57	437	17	20	1830	94	464
9	463	37	46	433	16	19	1640	83	368
10	445	31	37	416	15	17	1530	77	318
11	429	26	30	404	14	15	1420	74	284
12	416	24	27	399	13	14	1310	71	251
13	412	25	28	391	11	12	1250	68	230
14	429	38	44	391	11	12	1250	64	216
15	437	48	57	416	13	15	1290	70	244
16	467	43	54	506	24	33	1260	60	204
17	450	41	50	547	35	52	1200	40	130
18	420	35	40	612	51	84	1110	34	102
19	404	31	34	570	45	69	1050	28	79
20	391	26	27	524	43	61	1090	22	65
21	383	21	22	533	46	66	1110	16	48
22	375	17	17	588	60	95	1040	16	45
23	367	16	16	626	56	95	1040	18	51
24	363	16	16	769	81	181	1120	36	109
25	359	16	16	2000	332	1880	2550	357	2570
26	355	15	14	4300	213	2400	6010	173	2720
27	347	14	13	6710	251	4590	9470	262	6860
28	347	14	13	7820	168	3550	11800	133	4240
29	347	14	13	6710	129	2340	12000	94	3050
30	371	13	13	4750	86	1100	10700	70	2020
31	383	13	13	--	--	--	7780	37	777
TOTAL	12898	--	1146	44255	--	16953	9940	--	29648

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5580	21	316	6040	61	995	4060	69	756
2	4130	12	134	5100	65	895	4400	76	903
3	3450	12	112	4670	68	857	4340	69	809
4	3140	17	144	3970	43	461	3800	46	472
5	2790	27	203	3450	35	326	3620	58	567
6	2560	29	200	3150	32	272	4430	112	1340
7	2400	22	143	4350	161	2040	5050	96	1310
8	2190	17	101	4650	79	992	4410	67	798
9	2020	13	71	4100	29	321	3630	80	784
10	2090	19	107	3470	31	290	3310	69	617
11	2270	16	98	3050	36	296	3190	90	799
12	2180	15	88	2780	36	270	5010	166	2300
13	1870	15	76	2610	33	233	7510	168	3460
14	1760	15	71	2530	30	205	5400	57	831
15	1920	15	78	2420	27	176	4090	56	618
16	3480	97	1020	2290	25	155	3940	54	574
17	5260	96	1360	2180	23	135	4030	30	326
18	7100	73	1400	2090	20	113	3990	30	323
19	10400	177	5050	2120	21	120	3750	40	405
20	13900	130	4880	3010	103	848	3360	37	336
21	16000	134	5790	3696	64	638	3440	54	502
22	16300	123	5410	4790	200	2690	3990	61	657
23	13700	128	4720	6730	182	3310	3280	33	292
24	11800	90	2870	6160	104	1730	2920	32	252
25	10600	64	1830	4940	77	1030	2690	29	211
26	8760	58	1370	3860	69	719	2570	20	139
27	10200	393	11200	3330	65	584	2580	15	104
28	11500	362	11200	3460	69	645	2550	14	96
29	11000	220	6590	--	--	--	2520	17	116
30	9430	121	3080	--	--	--	4330	405	4860
31	7540	87	1770	--	--	--	6010	174	2840
TOTAL	207320	--	71482	104990	--	21346	122200	--	28397

03365500 East Fork White River at Seymour, Ind.--Continued

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7300	163	3220	2380	48	308	7440	277	5550
2	7930	107	2290	2110	41	234	4940	191	2550
3	6810	44	809	2140	46	266	3480	153	1440
4	7550	317	6510	2100	31	176	2840	132	1010
5	8020	268	5800	1880	27	137	2460	119	790
6	7440	178	3580	1710	24	111	2240	124	750
7	5820	77	1210	1600	22	95	2240	140	847
8	6600	139	2390	1540	20	83	2320	254	1590
9	13900	463	17700	1670	42	189	2780	235	1760
10	13200	263	9520	1920	40	207	2800	172	1300
11	11200	120	3630	1740	35	164	2490	164	1100
12	9480	122	3120	1740	35	164	2210	121	722
13	7500	113	2290	2200	40	238	1930	110	573
14	5790	93	1450	2250	52	316	1740	106	498
15	4710	85	1080	2050	36	199	1610	103	448
16	3980	91	978	2270	102	648	2000	215	1190
17	3460	87	813	2520	174	1180	2740	184	1360
18	3090	64	534	4460	509	6830	2240	133	804
19	2850	41	315	10100	666	17600	1820	124	609
20	2640	33	235	14600	425	17100	1620	106	464
21	2470	30	200	14500	272	10900	1500	93	377
22	2640	46	328	10000	152	4100	1500	140	567
23	3450	52	484	6840	121	2230	2270	439	3580
24	2920	46	363	5340	163	2350	6700	1090	18400
25	2490	44	296	4200	158	1790	9750	564	14300
26	2280	43	265	3470	147	1380	13400	173	6270
27	2140	42	243	2980	129	1040	9920	153	4100
28	2020	42	229	2620	116	821	5210	195	2740
29	1930	41	214	2400	111	719	3740	165	1670
30	1930	46	240	4950	1010	15600	3040	198	1630
31	--	--	--	6830	522	9520	--	--	--
TOTAL	163540	--	70336	127110	--	96695	110970	--	78989

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2580	255	1780	577	55	86	3590	589	7290
2	2270	209	1280	573	57	88	9320	417	10200
3	2270	175	1070	778	87	183	6990	--	--
4	2000	143	772	941	100	254	5360	126	1820
5	1850	153	764	884	45	107	3660	81	800
6	1820	212	1040	753	32	65	2610	47	331
7	1630	151	665	647	30	52	2000	41	221
8	1480	159	635	593	30	48	1620	50	219
9	1370	119	440	796	150	324	1380	45	168
10	1290	104	362	776	131	274	1250	46	155
11	1240	98	328	679	95	174	1250	64	216
12	1290	130	453	617	70	117	2310	263	2020
13	1230	127	422	582	57	90	3780	185	1960
14	1140	123	379	571	54	83	3430	136	1280
15	1310	121	428	572	70	108	2580	46	320
16	1290	120	418	767	106	220	2010	44	239
17	1120	91	275	727	68	133	1640	56	248
18	1000	82	221	804	145	346	1400	65	246
19	932	81	204	1130	101	308	1240	62	208
20	889	78	187	1080	62	181	1110	59	177
21	879	76	180	806	42	91	1470	242	1060
22	852	74	170	678	39	71	1860	129	648
23	810	73	160	603	37	60	1480	97	388
24	774	77	161	749	80	162	1210	67	219
25	744	81	163	635	81	139	1060	53	152
26	714	82	158	559	58	88	974	42	110
27	684	79	146	496	43	58	922	40	100
28	665	77	138	551	65	98	940	51	129
29	674	72	131	1260	302	1190	2960	337	3280
30	637	66	114	2630	375	2700	4880	228	3040
31	603	60	98	2330	263	1650	--	--	--
TOTAL	38037	--	13742	26144	--	9548	76286	--	37244

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1133690
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 475526

03365500 East Fork White River at Seymour, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	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
NOV.												
27...	1155	6760	284	5180	52	62	74	83	90	95	96	100
JAN.												
27...	1600	11200	462	14000	62	74	87	94	98	100	--	--
APR.												
09...	1615	14500	372	14600	72	83	90	95	98	99	100	--
JUNE												
24...	1600	7200	1200	23300	72	89	96	99	100	--	--	--

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^2 (24.11 km^2).

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.--6 years, 11.5 ft^3/s (0.326 mi^3), 16.77 in/yr (426 mm/yr).

EXTREMES.--Current year: Maximum discharge, 926 ft^3/s (26.2 m^3/s) May 30, gage height, 6.65 ft (2.027 m); minimum daily, no flow Aug. 1, 2.
Period of record: Maximum discharge, 1,540 ft^3/s (43.6 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	4.1	6.0	7.0	8.4	23	74	4.1	31	.32	0	.42
2	1.7	1.2	4.8	4.5	7.4	54	181	33	13	.28	0	1.4
3	.73	.65	4.1	4.2	6.0	20	104	87	6.6	.21	.99	7.4
4	.53	.47	6.8	4.2	5.0	13	78	15	4.5	.65	.59	1.9
5	.73	.59	10	4.3	3.8	24	22	7.7	13	1.4	.21	.73
6	.37	.81	6.0	4.3	5.0	71	15	5.3	14	.65	.12	.42
7	.25	.59	4.1	4.1	14	30	11	3.8	4.1	.32	.73	.28
8	.18	.47	3.4	4.5	7.4	16	187	4.8	3.4	.21	.89	.21
9	.16	.42	3.0	13	5.3	15	40	6.0	2.6	.18	.65	.18
10	.14	.37	2.8	53	4.3	70	17	4.3	1.8	.99	.28	26
11	.10	.32	2.6	42	4.1	159	11	3.4	1.4	1.3	1.1	6.5
12	.08	.28	2.3	16	3.6	253	9.1	4.8	1.2	.37	.65	53
13	.10	.28	2.6	10	3.8	57	8.0	3.0	.99	.21	.28	10
14	.73	.28	3.6	8.7	3.4	22	6.3	2.4	.81	.16	.16	3.8
15	.32	4.8	2.8	55	3.0	18	5.0	12	.81	1.3	.08	1.9
16	.18	4.3	2.1	36	2.8	45	4.1	5.3	.65	1.1	.07	1.3
17	.10	1.3	2.0	23	2.6	20	3.4	107	.65	.32	5.3	.99
18	.10	.81	1.9	17	2.4	15	3.0	81	.59	.21	.89	.81
19	.10	.65	1.9	58	21	11	2.8	19	.59	.18	5.5	.65
20	.10	.59	35	48	15	9.1	2.4	11	.59	.25	.81	.59
21	.10	2.3	14	75	9.1	24	2.3	5.7	.53	.16	.32	.65
22	.10	2.1	9.8	23	121	14	55	9.1	3.4	.08	.18	.59
23	.08	1.1	5.5	95	23	9.4	26	11	1.8	.08	.12	.47
24	.07	11	10	28	13	8.7	8.0	7.1	.73	.14	.12	.42
25	.07	55	22	15	9.4	9.8	5.3	3.6	.59	.10	.10	.37
26	.07	87	27	75	8.7	9.4	4.1	2.6	.73	.08	.06	.37
27	.08	64	23	73	9.4	7.1	3.2	2.1	.53	.08	.03	.42
28	.12	81	12	63	13	6.5	2.8	1.8	.47	.06	1.7	7.7
29	.16	15	38	29	------	7.4	2.4	37	.81	.04	4.1	65
30	.37	8.4	22	16	------	29	3.4	314	.47	.02	13	7.1
31	1.9	------	12	12	------	19	------	181	------	.01	.99	------
TOTAL	9.98	350.18	303.1	920.8	334.9	1,089.4	896.6	994.9	112.54	11.46	40.02	201.57
MEAN	.32	11.7	9.78	29.7	12.0	35.1	29.9	32.1	3.75	.37	1.29	6.72
MAX	1.9	87	38	95	121	253	187	314	31	1.4	13	65
MIN	.07	.28	1.9	4.1	2.4	6.5	2.3	1.8	.47	.01	0	.18
CFSM	.03	1.26	1.05	3.19	1.29	3.77	3.21	3.45	.40	.04	.14	.72
IN.	.04	1.40	1.21	3.68	1.34	4.35	3.58	3.98	.45	.05	.16	.81

CAL YR 1973 TOTAL 4,815.06 MEAN 13.2 MAX 288 MIN .01 CFSM 1.42 IN 19.24
WTR YR 1974 TOTAL 5,265.45 MEAN 14.4 MAX 314 MIN 0 CFSM 1.55 IN 21.04

PEAK DISCHARGE (BASE, 300 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1400	4.98	322	04-01	2400	6.43	826	05-17	2100	5.94	627
01-26	2200	5.10	353	04-03	2000	5.27	401	05-30	0200	6.65	926
03-11	1500	5.56	491	04-08	1100	5.81	578	05-31	0100	5.06	343
03-12	1700	6.13	701								

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, and 2.4 miles (3.9 km) downstream from confluence of Graham Creek and Big Creek.

DRAINAGE AREA.--293 mi^2 (759 km^2).

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.--26 years (1948 to current year), 337 ft^3/s (9.544 m^3/s), 15.62 in/yr (397 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,780 ft^3/s (277 m^3/s) Mar. 12, gage height, 20.20 ft (6.157 m); minimum daily, 3.6 ft^3/s (0.10 m^3/s) July 31 to Aug. 2.
Period of record: Maximum discharge, 52,200 ft^3/s (1,480 m^3/s) Jan. 21, 1959, from rating curve extended above 25,000 ft^3/s (708 m^3/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 fair.

REVISIONS (WATER YEARS).--WSP 1335: 1948. WSP 2109: Drainage area.

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	5.6	12	241	260	315	319	402	232	2,050	17	3.6	241
2	20	15	179	170	260	671	4,160	311	596	16	3.6	335
3	22	14	145	145	239	553	1,620	1,240	317	16	6.4	1,600
4	15	13	140	152	204	359	3,540	743	216	15	9.0	805
5	20	16	220	137	165	350	1,520	311	185	15	6.8	251
6	17	18	238	124	154	810	605	210	201	17	6.4	145
7	23	14	161	115	281	836	411	158	169	17	6.8	94
8	22	12	119	99	409	431	3,300	136	156	26	6.4	69
9	15	10	98	139	234	323	3,990	177	157	32	5.6	55
10	13	9.5	87	493	177	1,900	1,000	203	130	22	6.0	927
11	11	9.2	75	1,190	149	2,220	526	154	91	41	13	837
12	9.0	9.1	67	700	131	6,230	370	154	67	33	12	2,820
13	7.6	9.0	67	560	123	4,530	305	166	54	17	12	2,510
14	8.1	9.0	69	340	118	1,000	253	134	44	13	10	607
15	7.6	200	72	617	107	587	204	127	40	12	8.1	346
16	6.4	170	73	1,920	97	900	171	168	36	32	6.4	205
17	6.0	50	58	1,160	88	748	149	135	33	19	58	148
18	6.4	30	48	655	81	513	130	939	31	14	68	113
19	6.4	25	51	1,340	119	409	115	800	30	12	243	91
20	6.0	24	183	1,230	446	312	102	408	29	9.5	117	75
21	5.2	75	900	2,950	300	422	91	238	28	8.5	60	66
22	5.2	66	450	1,370	1,520	571	193	211	53	7.6	37	55
23	5.2	60	250	1,820	1,280	338	810	206	129	7.2	29	50
24	5.2	640	350	1,700	471	273	374	155	62	6.4	25	46
25	4.5	2,000	439	649	316	261	212	131	67	6.0	23	39
26	4.9	2,800	820	587	241	264	159	93	67	5.2	22	38
27	5.2	2,600	1,360	2,960	225	240	130	75	41	5.2	20	37
28	5.6	2,950	613	1,480	270	207	110	63	27	4.2	22	43
29	6.0	1,010	526	1,440	------	192	94	87	22	4.2	255	987
30	8.0	384	912	664	------	299	90	3,750	19	3.9	972	752
31	9.0	------	451	427	------	344	------	3,540	------	3.6	340	------
TOTAL	311.1	13,253.8	9,462	27,593	8,520	27,412	25,136	15,455	5,147	457.5	2,413.1	14,387
MEAN	10.0	442	305	890	304	884	838	499	172	14.8	77.8	480
MAX	23	2,950	1,360	2,960	1,520	6,230	4,160	3,750	2,050	41	972	2,820
MIN	4.5	9.0	48	99	81	192	90	63	19	3.6	3.6	37
CFSM	.03	1.51	1.04	3.04	1.04	3.02	2.86	1.70	.59	.05	.27	1.64
IN.	.04	1.68	1.20	3.50	1.08	3.48	3.19	1.96	.65	.06	.31	1.83

CAL YR 1973 TOTAL 147,273.3 MEAN 403 MAX 4,000 MIN 2.1 CFSM 1.38 IN 18.70
WTR YR 1974 TOTAL 149,547.5 MEAN 410 MAX 6,230 MIN 3.6 CFSM 1.40 IN 18.99

PEAK DISCHARGE (BASE, 7,500 FT^3/S).--Mar. 12 (2200) 9,780 ft^3/s (20.20 ft).

03366500 Muscatatuck River near Deputy, Ind.--Continued

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)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV. 28...	1005	11.0	3480	205	1930	48	61

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
NOV. 28...	75	87	93	98	98	100

03368000 Brush Creek near Nebraska, Ind.

LOCATION.--Lat 39°04'13", long 85°29'10", in NW¼NE¼ 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^2 (29.5 km^2).

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 Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--19 years, 12.7 ft^3/s (0.360 m^3/s), 15.13 in/yr (384 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) Apr. 1, gage height, 8.17 ft (2.490 m); no flow July 26-28, Aug. 24-27.

Period of record: Maximum discharge, 3,440 ft^3/s (97.4 m^3/s) May 24, 1968, gage height, 11.40 ft (3.475 m), from rating curve extended above 440 ft^3/s (12.5 m^3/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 good.

REVISIONS.--WSP 2109: Drainage area.

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	.38	1.3	6.2	6.5	8.6	10	199	16	22	.79	.26	32
2	2.0	.90	4.9	5.2	36	24	130	14	10	.26	.11	9.6
3	.53	.65	4.0	5.2	16	14	36	34	6.2	.31	.10	33
4	1.7	.45	15	3.8	9.3	9.6	50	12	8.6	.53	.10	8.6
5	1.8	1.2	12	3.8	6.5	28	18	8.6	10	1.8	.09	4.2
6	.26	.86	6.5	3.6	24	14	14	6.4	6.5	1.7	.08	2.9
7	1.2	.70	4.2	3.2	43	10	11	4.8	3.4	1.3	1.2	2.3
8	1.8	.58	3.6	2.6	15	7.6	299	7.3	6.7	1.2	1.4	2.1
9	.70	.49	3.4	5.2	9.6	6.7	39	7.5	3.6	.89	.70	2.0
10	.38	.43	3.1	12	7.3	15	19	5.2	4.0	.79	.38	9.3
11	.21	.37	2.4	17	5.4	133	14	4.3	2.6	.89	.79	16
12	.10	.33	2.4	8.3	5.2	124	12	22	2.0	.70	1.4	113
13	.10	.31	3.1	5.4	5.4	32	9.9	8.5	1.4	.53	1.4	24
14	.38	.28	3.4	5.7	4.7	19	8.2	5.4	1.3	.38	.99	14
15	.21	13	2.7	87	3.4	18	6.5	7.7	1.6	.70	.53	4.9
16	.17	3.8	2.4	51	3.2	31	5.7	4.8	1.3	.99	.21	2.9
17	.10	1.1	1.8	29	3.1	21	4.9	20	1.1	.53	.26	2.1
18	.10	.70	1.6	37	2.7	17	4.1	65	.99	.26	.70	1.6
19	.07	.62	1.7	48	25	12	3.8	61	.89	.26	.53	1.3
20	.10	.45	26	54	14	9.4	3.3	26	.79	.26	.26	1.1
21	.07	5.7	13	113	10	37	3.0	13	.79	.17	.10	1.8
22	.10	3.6	6.7	24	133	15	17	13	4.7	.07	.03	1.3
23	.08	1.8	6.2	66	25	11	12	17	4.2	.03	.01	.89
24	.07	102	42	23	15	12	6.5	7.4	1.3	.02	0	.79
25	.07	83	60	15	11	12	5.0	4.7	.70	.01	0	.70
26	.07	145	84	157	8.9	13	4.2	3.8	.79	0	0	.70
27	.07	122	34	65	14	9.2	3.6	3.0	.70	0	0	.70
28	.09	70	17	49	16	8.2	3.3	2.6	.45	0	12	3.2
29	.20	16	28	24	------	10	2.8	5.2	.45	.02	17	28
30	.35	9.3	16	16	------	42	21	179	.38	.45	7.9	5.2
31	.70	------	11	11	------	24	------	91	------	.79	2.3	------
TOTAL	14.16	586.92	428.3	956.5	480.3	748.7	965.8	680.2	109.43	16.63	50.83	330.18
MEAN	.46	19.6	13.8	30.9	17.2	24.2	32.2	21.9	3.65	.54	1.64	11.0
MAX	2.0	145	84	157	133	133	299	179	22	1.8	17	113
MIN	.07	.28	1.6	2.6	2.7	6.7	2.8	2.6	.38	0	0	.70
CFSM	.04	1.72	1.21	2.71	1.51	2.12	2.82	1.92	.32	.05	.14	.96
IN.	.05	1.92	1.40	3.12	1.57	2.44	3.15	2.22	.36	.05	.17	1.08

CAL YR 1973 TOTAL 7,924.17 MEAN 21.7 MAX 594 MIN 0 CFSM 1.90 IN 25.86
WTR YR 1974 TOTAL 5,367.95 MEAN 14.7 MAX 299 MIN 0 CFSM 1.29 IN 17.52

PEAK DISCHARGE (BASE, 950 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-26	2115	6.83	965	04-08	1015	7.01	1,030
04-01	2300	8.17	1,540				

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, 1.2 miles (1.9 km) downstream from Brush Creek, and 2 miles (3 km) northwest of Butlerville.

DRAINAGE AREA.--85.9 mi^2 (222.5 km^2).

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.--32 years, 92.7 ft^3/s (2.625 m^3/s), 14.66 in/yr (372 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,110 ft^3/s (116 m^3/s) Apr. 8, gage height, 10.73 ft (3.271 m); minimum daily, 0.35 ft^3/s (0.010 m^3/s) July 31.
Period of record: Maximum discharge, 26,200 ft^3/s (742 m^3/s) Jan. 21, 1959, gage height, 25.41 ft (7.745 m), from rating curve extended above 10,000 ft^3/s (283 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.2	55	63	83	94	160	151	184	9.8	.56	457
2	51	6.5	43	44	184	216	1,530	79	107	8.7	2.0	80
3	25	6.0	37	45	132	128	233	145	78	8.0	6.3	318
4	21	5.6	54	38	87	96	259	93	33	18	13	104
5	16	4.8	87	34	69	176	125	65	38	36	7.4	34
6	15	7.4	55	32	92	121	99	53	30	14	4.7	21
7	17	7.0	40	30	465	91	82	42	24	19	3.4	16
8	10	6.0	33	25	132	79	1,700	43	23	11	7.[illegible]	12
9	6.2	5.1	30	32	93	67	564	84	25	6.3	5.9	11
10	4.0	4.2	28	53	76	77	172	61	40	5.9	4.0	14
11	2.2	3.6	23	77	66	402	115	47	27	9.9	4.4	25
12	1.3	3.2	21	54	60	824	92	125	18	5.7	3.7	778
13	2.4	3.0	23	41	59	292	82	89	16	4.0	4.9	233
14	2.4	2.9	27	39	57	142	68	57	13	3.9	14	230
15	1.5	2.9	27	228	51	107	57	52	14	3.9	29	99
16	1.3	3.9	23	358	48	206	49	45	13	4.2	48	59
17	13	21	19	253	47	136	44	46	12	3.4	3.5	25
18	2.5	11	16	381	44	132	39	294	11	3.1	18	21
19	.70	6.4	15	513	121	100	37	1,000	10	3.4	40	18
20	1.0	4.4	72	267	145	80	33	472	9.4	3.1	13	15
21	.70	7.8	82	637	85	195	29	120	9.5	2.0	6.1	16
22	1.0	31	49	182	809	125	62	78	26	1.7	4.2	18
23	.84	16	44	309	216	89	113	78	179	1.4	3.4	14
24	.70	405	132	176	125	80	60	61	36	1.2	2.7	12
25	.62	423	461	113	91	81	45	44	20	1.1	2.3	11
26	.57	603	488	228	73	82	39	35	16	1.1	2.2	10
27	.51	426	446	805	78	73	34	29	15	1.0	1.8	9.7
28	1.0	720	149	253	125	65	30	25	13	.75	126	14
29	1.1	139	145	195	------	62	28	27	12	.50	225	180
30	1.9	80	149	128	------	321	72	896	11	.39	133	60
31	3.6	------	85	102	------	213	------	570	------	.35	30	------
TOTAL	210.84	2,972.9	2,958	5,735	3,713	4,952	6,052	5,006	1,062.9	192.79	769.46	2,914.7
MEAN	6.80	99.1	95.4	185	133	160	202	161	35.4	6.22	24.8	97.2
MAX	51	720	488	805	809	824	1,700	1,000	184	36	225	778
MIN	.51	2.9	15	25	44	62	28	25	9.4	.35	.56	9.7
CFSM	.08	1.15	1.11	2.15	1.55	1.86	2.35	1.87	.41	.07	.29	1.13
IN.	.09	1.29	1.28	2.48	1.61	2.14	2.62	2.17	.46	.08	.33	1.26

CAL YR 1973 TOTAL 47,080.34 MEAN 129 MAX 2,260 MIN .43 CFSM 1.50 IN 20.39
WTR YR 1974 TOTAL 36,539.59 MEAN 100 MAX 1,700 MIN .35 CFSM 1.16 IN 15.82

PEAK DISCHARGE (BASE, 4,000 FT^3/S).--Apr. 2 (0400) 4,090 ft^3/s (10.69 ft); Apr. 8 (1600) 4,110 ft^3/s (10.73 ft).

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, and 3.1 miles (5.0 km) downstream from South Fork Vernon Fork.

DRAINAGE AREA.--198 mi^2 (513 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank at same datum.

AVERAGE DISCHARGE.--35 years, 217 ft^3/s (6.145 m^3/s), 14.88 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,260 ft^3/s (206 m^3/s) Apr. 8, gage height, 12.87 ft (3.923 m); minimum daily, 0.87 ft^3/s (0.025 m^3/s) July 31.

Period of record: Maximum discharge, 56,800 ft^3/s (1,610 m^3/s) Jan. 21, 1959, from rating curve extended above 24,000 ft^3/s (680 m^3/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 fair. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	15	156	161	207	233	317	442	627	20	1.1	589
2	72	15	117	95	261	409	2,770	248	312	18	1.3	347
3	58	13	99	107	368	338	704	515	230	16	3.6	776
4	36	11	124	94	200	238	1,020	345	136	19	42	329
5	119	14	234	80	148	359	464	214	140	134	27	140
6	33	17	158	75	138	354	317	166	110	55	16	74
7	21	15	110	70	882	244	251	133	91	32	9.0	47
8	20	12	86	60	338	204	3,180	122	94	49	6.1	33
9	16	10	75	75	217	171	1,740	179	94	27	4.4	26
10	11	9.6	68	142	167	237	574	182	121	17	7.4	142
11	9.0	8.7	59	246	140	916	362	131	107	15	8.7	232
12	8.4	7.9	50	158	121	2,200	274	205	63	16	7.9	2,450
13	7.6	8.4	52	115	117	1,150	238	300	51	13	7.1	641
14	7.4	8.2	59	102	113	473	196	167	43	9.9	12	662
15	6.3	10	65	645	100	324	163	154	42	9.9	16	312
16	6.3	107	56	982	89	538	137	153	41	10	53	216
17	4.7	79	47	753	83	384	119	121	35	9.0	58	107
18	4.2	37	39	791	77	368	105	484	36	8.2	20	75
19	8.7	27	36	753	151	276	96	1,200	36	7.1	91	55
20	6.3	23	179	791	428	220	85	1,500	35	6.7	78	43
21	4.0	29	282	1,720	200	426	76	396	28	5.8	33	66
22	2.8	51	171	610	1,430	419	124	229	58	4.4	17	54
23	2.2	50	132	828	750	245	389	200	240	3.6	10	38
24	2.6	475	204	610	334	213	208	201	300	3.6	7.1	30
25	2.8	1,240	986	321	239	216	145	121	68	3.0	4.9	25
26	2.6	1,650	888	574	183	213	116	88	44	2.6	3.2	24
27	2.2	1,240	1,300	2,100	185	200	99	72	34	2.6	2.4	21
28	3.6	1,750	423	716	275	172	87	60	29	2.4	36	23
29	4.0	433	324	716	------	160	78	80	26	1.6	484	624
30	5.8	223	465	359	------	474	94	1,710	22	1.1	491	315
31	7.9	------	220	267	------	542	------	1,440	------	.87	187	------
TOTAL	518.4	7,588.8	7,264	15,116	7,941	12,916	14,528	11,558	3,293	523.37	1,745.2	8,516
MEAN	16.7	253	234	488	284	417	484	373	110	16.9	56.3	284
MAX	119	1,750	1,300	2,100	1,430	2,200	3,180	1,710	627	134	491	2,450
MIN	2.2	7.9	36	60	77	160	76	60	22	.87	1.1	21
CFSM	.08	1.28	1.18	2.46	1.43	2.11	2.44	1.88	.56	.09	.28	1.43
IN.	.10	1.43	1.36	2.84	1.49	2.43	2.73	2.17	.62	.10	.33	1.60

CAL YR 1973 TOTAL 117,253.60 MEAN 321 MAX 4,400 MIN 2.2 CFSM 1.62 IN 22.03
WTR YR 1974 TOTAL 91,507.77 MEAN 251 MAX 3,180 MIN .87 CFSM 1.27 IN 17.19

PEAK DISCHARGE (BASE, 6,000 FT^3/S).--Apr. 2 (0900) 6,150 ft^3/s (11.82 ft); Apr. 8 (1900) 7,260 ft^3/s (12.87 ft).

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, and 7.8 miles (12.6 km) southeast of Bedford.

DRAINAGE AREA.--3,861 mi^2 (10,000 km^2).

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.--21 years (1939-43, 1957-74), 3,688 ft^3/s (104.4 m^3/s), 11.70 in/yr (297 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Jan. 24, Apr. 12; maximum gage height, 21.74 ft (6.626 m) Apr. 12; minimum daily discharge, 482 ft^3/s (13.7 m^3/s) Oct. 28, 29.
Period of record: Maximum discharge, 75,700 ft^3/s (2,140 m^3/s) Mar. 12, 1964; maximum gage height, 35.97 ft (10.964 m) May 11, 1961; minimum daily discharge, 138 ft^3/s (3.91 m^3/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^3/s (4,390 m^3/s) at former site.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 2109: Drainage area. WRD Ind. 1973: 1972.

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	737	523	10,100	12,200	14,100	5,420	6,670	3,180	12,500	4,290	948	3,850
2	844	534	9,590	10,400	11,700	6,100	8,270	3,790	12,700	3,430	958	3,840
3	876	548	8,330	7,190	9,620	6,610	9,950	4,360	12,000	2,950	976	5,490
4	839	571	6,170	5,320	7,440	6,870	11,700	5,080	11,100	2,700	1,070	7,200
5	898	617	4,250	4,520	6,200	6,520	11,800	5,460	9,530	2,530	1,190	7,620
6	975	641	3,720	4,160	5,280	5,950	12,000	4,600	7,600	2,320	1,190	6,400
7	907	639	3,720	3,760	4,770	6,460	13,400	3,530	5,110	2,510	1,130	4,330
8	863	625	3,520	3,560	5,010	7,340	14,200	2,980	3,930	2,380	1,050	3,110
9	826	607	3,080	3,280	6,140	7,340	15,400	2,800	3,710	2,130	984	2,490
10	762	589	2,710	3,270	6,030	8,380	15,400	2,800	3,660	2,000	1,000	3,460
11	679	580	2,450	3,920	5,180	10,100	18,500	2,940	3,670	1,950	1,100	5,570
12	624	569	2,260	4,870	4,460	11,700	20,700	2,930	3,430	1,930	1,050	7,440
13	596	557	2,110	5,310	4,010	12,000	19,800	2,800	3,090	1,820	977	8,390
14	580	546	2,000	4,590	3,710	13,300	16,800	3,060	2,760	1,760	929	8,790
15	565	558	1,920	3,690	3,500	15,000	13,300	3,300	2,490	1,690	895	8,480
16	558	609	1,890	4,690	3,300	15,100	10,100	3,140	2,280	1,750	876	7,870
17	558	661	1,880	6,500	3,120	14,000	7,370	3,070	2,230	1,800	913	6,800
18	568	700	1,830	7,880	2,960	12,700	5,640	3,370	2,680	1,700	1,080	4,720
19	593	757	1,740	9,680	2,950	10,800	4,800	4,670	2,760	1,550	1,070	3,110
20	614	796	1,690	11,100	3,250	9,550	4,270	7,100	2,470	1,430	1,260	2,450
21	612	811	1,850	13,300	4,010	8,300	3,900	9,130	2,220	1,360	1,470	2,130
22	598	915	2,240	16,500	5,510	6,990	3,860	13,100	2,120	1,330	1,380	1,980
23	565	927	2,500	18,900	7,250	6,860	4,680	14,300	2,310	1,290	1,260	2,200
24	533	1,090	2,370	20,800	8,450	6,500	5,630	12,400	2,440	1,220	1,100	2,130
25	512	1,900	3,210	20,200	9,290	5,590	5,780	8,800	3,750	1,170	1,030	1,880
26	496	3,450	4,580	18,400	8,950	5,060	4,740	6,370	5,570	1,120	1,030	1,680
27	488	6,360	7,150	17,000	7,130	4,750	3,900	4,950	7,210	1,080	944	1,550
28	482	8,260	8,720	15,200	5,710	4,530	3,440	4,110	8,960	1,050	1,730	1,570
29	482	9,070	10,100	15,100	------	4,360	3,140	3,590	9,070	1,020	1,750	3,680
30	489	9,710	11,600	16,000	------	4,430	2,940	6,840	6,310	995	2,580	5,270
31	497	------	12,400	15,800	------	5,110	------	12,100	------	976	3,570	------
TOTAL	20,216	54,720	141,680	307,090	169,030	253,720	282,080	170,650	159,660	57,231	38,490	135,480
MEAN	652	1,824	4,570	9,906	6,037	8,185	9,403	5,505	5,322	1,846	1,242	4,516
MAX	975	9,710	12,400	20,800	14,100	15,100	20,700	14,300	12,700	4,290	3,570	8,790
MIN	482	523	1,690	3,270	2,950	4,360	2,940	2,800	2,120	976	876	1,550
CFSM	.17	.47	1.18	2.57	1.56	2.12	2.44	1.43	1.38	.48	.32	1.17
IN.	.19	.53	1.37	2.96	1.63	2.44	2.72	1.64	1.54	.55	.37	1.31

CAL YR 1973 TOTAL 1,822,505 MEAN 4,993 MAX 24,900 MIN 482 CFSM 1.29 IN 17.56
WTR YR 1974 TOTAL 1,790,047 MEAN 4,904 MAX 20,800 MIN 482 CFSM 1.27 IN 17.25

PEAK DISCHARGE (BASE, 13,000 FT^3/S).--Jan. 24 (1400) 21,000 ft^3/s (21.71 ft at 2200 Jan. 24); Mar. 16 (0200) 15,400 ft^3/s (18.40 ft at 0600 Mar. 16); Apr. 12 (1400) 21,000 ft^3/s (21.74 ft at 2000 Apr. 12); May 23 (1000) 14,500 ft^3/s (17.61 ft at 1400 May 23); June 3 (0600) 13,000 ft^3/s (17.26 ft at 2200 May 31).

03371520 Back Creek at Leesville, Ind.

LOCATION.--Lat 38°50'48", long 86°18'06", in SW¼SE¼ 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 mi² (62.4 km²).

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.

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) Apr. 8, gage height, 6.46 ft (1.97 m); minimum daily, 0.11 ft³/s (0.003 m³/s) Aug. 1.

Period of record: Maximum discharge, 15,300 ft³/s (433 m³/s) July 21, 1973, gage height, 14.0 ft (4.27 m), from floodmarks, from rating extended above 550 ft³/s (15.6 m³/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 and July 1971.

Flood in 1913 reached a stage of 18.1 ft (5.52 m) from information by local resident.

REMARKS.--Records fair.

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

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	.29	1.5	21	20	38	36	47	36	122	1.1	.11	36
2	.25	1.3	16	17	34	33	56	36	76	.97	5.0	22
3	1.2	1.3	13	15	28	30	288	41	53	.90	25	45
4	14	1.1	38	13	23	40	119	34	41	.73	2.3	22
5	3.5	1.3	22	11	23	53	64	30	31	.62	.97	12
6	1.5	1.3	16	10	45	43	41	24	28	.62	.68	7.4
7	1.1	1.2	12	9.0	34	38	38	18	25	.48	.53	5.3
8	.97	1.1	10	8.4	29	31	528	25	98	.48	.48	4.2
9	.84	1.1	9.2	15	26	31	182	30	53	.73	.40	3.3
10	.78	1.2	8.3	21	24	298	90	23	34	.68	1.9	349
11	.62	1.2	7.0	27	20	275	58	22	25	.68	2.6	90
12	.58	1.3	6.3	22	19	288	50	20	20	.62	1.3	221
13	.58	1.2	8.8	15	14	138	46	15	15	.53	.78	148
14	.90	1.2	8.3	20	14	71	36	14	11	.78	.53	101
15	.78	1.4	7.0	64	11	54	30	42	10	.68	.44	61
16	.78	2.8	5.0	74	13	62	27	23	6.3	.58	.40	45
17	.78	1.7	4.2	58	12	47	23	21	5.6	.48	1.6	35
18	.68	1.2	3.7	132	11	41	20	32	3.7	.44	1.2	27
19	.68	1.1	4.1	132	59	34	18	31	3.7	.40	.97	22
20	.68	1.1	3.6	208	49	32	17	27	3.3	.40	.68	30
21	.68	5.0	3.5	161	51	56	14	53	2.3	.34	.53	74
22	.73	5.0	5.0	86	112	41	59	47	3.7	.34	.44	38
23	.73	3.0	17	82	76	29	71	40	8.3	.29	.90	28
24	.78	245	60	66	58	31	51	29	4.5	.29	23	22
25	.73	150	176	50	47	31	34	20	2.8	.29	1.1	19
26	.62	103	107	42	39	30	30	15	2.3	.25	.68	16
27	.62	127	84	404	30	29	28	12	2.2	.25	.78	16
28	.58	48	58	98	42	27	21	9.7	1.6	.20	136	96
29	.62	39	47	76	------	30	18	32	1.5	.17	30	179
30	.73	30	40	59	------	56	56	120	1.1	.17	17	54
31	.97	------	31	46	------	49	------	341	------	.14	7.9	------
TOTAL	39.28	781.6	852.0	2,061.4	981	2,084	2,160	1,262.7	694.9	15.63	266.20	1,828.2
MEAN	1.27	26.1	27.5	66.5	35.0	67.2	72.0	40.7	23.2	.50	8.59	60.9
MAX	14	245	176	404	112	298	528	341	122	1.1	136	349
MIN	.25	1.1	3.5	8.4	11	27	14	9.7	1.1	.14	.11	3.3
CFSM	.05	1.08	1.14	2.76	1.45	2.79	2.99	1.69	.96	.02	.36	2.53
IN.	.06	1.21	1.32	3.18	1.51	3.22	3.33	1.95	1.07	.02	.41	2.82

CAL YR 1973 TOTAL 20,571.32 MEAN 56.4 MAX 5,000 MIN .13 CFSM 2.34 IN 31.75
WTR YR 1974 TOTAL 13,026.91 MEAN 35.7 MAX 528 MIN .11 CFSM 1.48 IN 20.11

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	unknown	3.58	488	03-11	unknown	1.28	790	05-30	unknown	4.45	865
01-27	unknown	6.00	1,660	04-03	unknown	4.48	878	05-31	unknown	4.39	839
03-10	unknown	6.00	1,660	04-08	unknown	6.46	1,950	08-28	1100	3.56	481

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, and 0.4 mile (0.6 km) south of center of Nashville.

DRAINAGE AREA.--76.1 mi^2 (197.1 km^2).

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.--12 years, 77.4 ft^3/s (2.192 m^3/s), 13.81 in/yr (351 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	.57	2.4	45	89	94	111	183	78	324	6.9	.78	101
2	1.6	4.1	40	72	80	108	153	70	160	6.0	1.6	25
3	1.4	3.3	33	56	81	101	141	86	96	4.9	6.2	16
4	1.2	2.6	42	50	68	88	135	73	66	4.4	3.7	13
5	.92	2.6	59	44	57	233	108	65	52	4.0	2.0	9.9
6	.75	1.9	45	37	69	181	93	55	61	3.7	1.5	7.7
7	.83	1.8	36	34	222	133	83	46	51	3.4	1.2	6.2
8	.92	1.8	31	31	145	103	1,960	67	66	3.1	1.1	5.3
9	.83	1.9	27	33	110	86	656	174	81	2.8	1.1	4.7
10	2.4	1.5	25	34	90	120	316	127	74	2.8	1.5	11
11	13	1.5	21	33	74	265	208	103	52	2.7	1.5	71
12	13	3.1	20	31	65	1,110	168	116	42	3.5	1.5	206
13	11	2.1	21	30	60	462	136	93	33	2.6	1.6	82
14	11	1.2	31	29	57	250	113	76	27	2.6	1.3	48
15	3.1	2.5	30	52	46	181	89	201	25	3.0	.67	32
16	1.5	4.6	29	181	42	229	75	148	21	2.4	.65	23
17	.83	2.6	17	320	39	186	63	213	19	1.9	1.1	18
18	.69	1.6	15	335	37	154	54	427	16	1.9	.70	15
19	.61	1.1	15	618	117	130	50	485	15	2.6	.72	13
20	.61	.92	14	580	142	104	44	295	14	2.7	.71	12
21	.72	13	13	795	111	218	40	415	13	2.7	.72	24
22	1.0	22	14	299	309	181	191	355	17	3.1	.75	18
23	1.2	12	17	261	226	147	176	309	51	3.5	.75	13
24	4.4	13	44	217	157	125	114	160	33	3.4	.71	11
25	3.1	368	1,030	162	111	113	89	101	21	3.2	4.5	10
26	1.2	227	544	208	89	119	74	71	17	2.3	4.3	9.1
27	.75	196	555	592	90	108	62	53	13	1.0	.94	11
28	.83	165	261	271	141	98	56	42	11	2.1	2.3	20
29	1.2	114	183	196	------	100	49	50	9.9	1.2	6.6	145
30	1.4	78	145	150	------	238	59	756	8.4	.93	4.8	63
31	1.6	------	119	120	------	231	------	1,190	------	.86	3.1	------
TOTAL	84.16	1,253.12	3,521	5,960	2,929	6,013	5,738	6,500	1,489.3	92.19	60.60	1,043.9
MEAN	2.71	41.8	114	192	105	194	191	210	49.6	2.97	1.95	34.8
MAX	13	368	1,030	795	309	1,110	1,960	1,190	324	6.9	6.6	206
MIN	.57	.92	13	29	37	86	40	42	8.4	.86	.65	4.7
CFSM	.04	.55	1.50	2.52	1.38	2.55	2.51	2.76	.65	.04	.03	.46
IN.	.04	.61	1.72	2.91	1.43	2.94	2.80	3.18	.73	.05	.03	.51

CAL YR 1973 TOTAL 39,483.18 MEAN 108 MAX 1,870 MIN .57 CFSM 1.42 IN 19.30
WTR YR 1974 TOTAL 34,684.27 MEAN 95.0 MAX 1,960 MIN .57 CFSM 1.25 IN 16.95

PEAK DISCHARGE (BASE, 1,800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
03-12	1100	8.61	1,920	05-31	0200	9.32	2,210
04-08	1700	12.04	3,430				

03371650 North Fork Salt Creek at Nashville, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Apr. 8, gage height, 12.04 ft (3.670 m); minimum daily, 0.57 ft^3/s (0.016 m^3/s) Oct. 1.
Period of record: Maximum discharge, 7,500 ft^3/s (212 m^3/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, 357 micromhos Aug. 29; minimum, 69 micromhos Apr. 8.
Period of record: Maximum conductance, 357 micromhos Aug. 29, 1974; minimum, 69 micromhos Apr. 8, 1974.

WATER TEMPERATURE, Current year: Maximum temperature, 29.0°C July 9, 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 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	117	113
2	---	---	---	---	---	---	---	---	---	---	117	115
3	---	---	---	---	---	---	---	---	---	---	119	117
4	---	---	---	---	---	---	---	---	---	---	127	119
5	---	---	---	---	---	---	---	---	---	---	129	113
6	---	---	---	---	---	---	---	---	---	---	113	108
7	---	---	---	---	---	---	---	---	---	---	117	112
8	---	---	---	---	---	---	---	---	---	---	123	117
9	---	---	---	---	---	---	---	---	---	---	126	120
10	---	---	---	---	---	---	---	---	---	---	127	119
11	---	---	---	---	---	---	---	---	---	---	122	103
12	---	---	---	---	---	---	---	---	---	---	105	83
13	---	---	---	---	---	---	---	---	---	---	107	97
14	---	---	---	---	---	---	---	---	126	124	112	104
15	---	---	---	---	---	---	---	---	125	122	118	109
16	---	---	---	---	---	---	---	---	126	122	113	109
17	---	---	---	---	---	---	---	---	126	123	109	109
18	---	---	---	---	---	---	---	---	127	124	113	109
19	---	---	---	---	---	---	---	---	135	116	117	113
20	---	---	---	---	---	---	---	---	118	113	121	115
21	---	---	---	---	---	---	---	---	119	112	121	107
22	---	---	---	---	---	---	---	---	116	102	111	106
23	---	---	---	---	---	---	---	---	107	101	115	111
24	---	---	---	---	---	---	---	---	108	106	120	109
25	---	---	---	---	---	---	---	---	113	107	117	113
26	---	---	---	---	---	---	---	---	117	111	117	114
27	---	---	---	---	---	---	---	---	119	115	118	114
28	---	---	---	---	---	---	---	---	120	115	120	116
29	---	---	---	---	---	---	---	---	---	---	131	118
30	---	---	---	---	---	---	---	---	---	---	130	111
31	---	---	---	---	---	---	---	---	---	---	111	107
MONTH	---	---	---	---	---	---	---	---	---	---	131	83

03371650 North Fork Salt Creek at Nashville, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	114	109	123	120	---	---	144	139	175	151	235	121
2	117	110	131	121	---	---	145	141	168	153	174	143
3	119	114	124	119	---	---	148	143	245	157	188	172
4	122	117	124	119	---	---	147	143	180	164	183	172
5	120	116	---	---	---	---	150	139	190	176	199	182
6	120	114	---	---	---	---	153	144	196	188	205	197
7	121	120	---	---	---	---	152	143	197	181	208	203
8	126	69	---	---	---	---	152	143	199	188	211	205
9	105	87	---	---	---	---	152	146	199	190	217	211
10	111	100	---	---	---	---	157	144	199	184	353	201
11	115	110	---	---	---	---	172	158	201	187	205	141
12	118	112	---	---	---	---	174	152	201	195	146	113
13	117	114	---	---	---	---	167	152	222	199	154	138
14	120	116	---	---	---	---	161	155	206	197	164	154
15	121	119	---	---	---	---	160	154	196	187	185	165
16	122	115	---	---	---	---	164	154	196	187	185	172
17	122	115	---	---	---	---	160	150	261	188	195	183
18	119	117	---	---	---	---	156	152	279	204	198	184
19	121	119	---	---	---	---	153	149	297	277	194	186
20	124	120	---	---	---	---	154	150	295	274	204	190
21	125	123	---	---	---	---	157	151	281	253	230	184
22	138	103	---	---	---	---	155	153	277	261	216	176
23	107	103	---	---	---	---	153	147	277	257	178	170
24	110	105	---	---	133	132	151	148	265	216	180	168
25	118	110	---	---	134	132	154	149	257	184	198	177
26	119	115	---	---	145	133	158	151	203	130	186	177
27	120	118	---	---	141	134	162	155	132	123	212	180
28	124	119	---	---	138	134	196	150	352	123	193	184
29	125	122	---	---	139	136	192	188	357	148	187	143
30	127	123	---	---	140	136	188	177	250	165	155	144
31	---	---	---	---	---	---	182	167	250	212	---	---
MONTH	138	69	---	---	---	---	196	139	357	123	353	113

03371650 North Fork Salt Creek at Nashville, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	7.5	5.5
2	---	---	---	---	---	---	---	---	---	---	11.5	7.0
3	---	---	---	---	---	---	---	---	---	---	14.0	11.0
4	---	---	---	---	---	---	---	---	---	---	13.5	13.0
5	---	---	---	---	---	---	---	---	---	---	13.5	11.0
6	---	---	---	---	---	---	---	---	---	---	12.0	9.0
7	---	---	---	---	---	---	---	---	---	---	16.0	12.0
8	---	---	---	---	---	---	---	---	---	---	16.5	13.5
9	---	---	---	---	---	---	---	---	---	---	15.5	14.0
10	---	---	---	---	---	---	---	---	---	---	15.0	11.5
11	---	---	---	---	---	---	---	---	---	---	11.5	8.5
12	---	---	---	---	---	---	---	---	---	---	8.5	7.5
13	---	---	---	---	---	---	---	---	---	---	8.0	5.5
14	---	---	---	---	---	---	---	---	6.0	5.0	7.5	5.5
15	---	---	---	---	---	---	---	---	5.0	4.0	7.5	7.0
16	---	---	---	---	---	---	---	---	5.5	3.0	7.5	5.5
17	---	---	---	---	---	---	---	---	5.0	2.5	5.5	5.5
18	---	---	---	---	---	---	---	---	5.5	3.0	8.5	5.0
19	---	---	---	---	---	---	---	---	6.0	5.0	10.0	8.0
20	---	---	---	---	---	---	---	---	5.0	3.5	10.0	7.0
21	---	---	---	---	---	---	---	---	6.5	3.0	9.0	5.5
22	---	---	---	---	---	---	---	---	7.0	4.5	7.0	4.0
23	---	---	---	---	---	---	---	---	5.0	2.5	7.0	4.5
24	---	---	---	---	---	---	---	---	4.5	1.5	4.5	1.5
25	---	---	---	---	---	---	---	--	2.0	0.0	5.5	1.0
26	---	---	---	---	---	---	---	---	2.0	0.0	9.0	4.0
27	---	---	---	---	---	---	---	---	5.0	1.0	10.5	6.5
28	---	---	---	---	---	---	---	---	7.5	5.0	10.0	8.0
29	---	---	---	---	---	---	---	---	---	---	12.0	9.0
30	---	---	---	---	---	---	---	---	---	---	11.5	6.5
31	---	---	---	---	---	---	---	---	---	---	10.0	5.5
MONTH	---	---	---	---	---	---	---	---	---	---	16.5	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	18.0	15.5	---	---	25.0	22.0	25.5	21.0	24.5	20.5
2	14.0	10.5	16.5	15.0	---	---	26.5	23.5	23.5	21.5	22.0	20.0
3	14.0	11.0	16.0	15.0	---	---	28.0	24.5	23.0	20.5	20.0	17.5
4	14.0	11.0	14.5	13.5	---	---	27.0	25.5	22.5	21.0	17.5	16.5
5	11.0	7.5	---	---	---	---	27.0	25.0	23.0	19.5	17.5	16.0
6	10.0	5.5	---	---	---	---	27.0	24.5	23.0	19.5	18.0	16.0
7	10.5	8.5	---	---	---	---	27.5	24.5	23.5	19.5	18.0	17.0
8	10.0	6.0	---	---	---	---	28.0	25.0	24.5	20.5	19.5	18.0
9	10.0	5.0	---	---	---	---	29.0	25.0	24.5	21.5	21.0	18.5
10	12.0	7.5	---	---	---	---	28.0	25.5	23.5	22.0	21.0	19.5
11	13.5	11.5	---	---	---	---	27.5	24.5	24.5	22.5	21.5	20.0
12	15.0	12.0	---	---	---	---	27.0	24.0	27.0	23.0	20.5	19.5
13	16.0	13.5	---	---	---	---	26.0	23.5	26.0	23.0	20.5	19.0
14	16.5	13.5	---	---	---	---	27.5	24.0	25.5	23.0	19.0	17.5
15	13.0	10.5	---	---	---	---	27.5	25.0	26.5	23.0	18.0	16.0
16	11.0	9.0	---	---	---	---	26.5	24.0	26.0	23.5	18.0	16.0
17	12.5	8.5	---	---	---	---	26.5	23.5	26.5	24.0	17.5	16.0
18	13.5	11.0	---	---	---	---	27.5	23.5	25.5	24.0	18.0	17.0
19	16.5	13.0	---	---	---	---	26.0	24.5	26.0	23.0	18.5	17.5
20	17.5	13.5	---	---	---	---	26.5	24.0	26.0	22.5	20.0	19.0
21	16.5	15.5	---	---	---	---	25.5	23.5	25.5	22.5	19.0	18.5
22	15.5	13.5	---	---	---	---	23.5	22.0	25.5	22.5	18.0	15.5
23	13.5	10.0	---	---	---	---	23.0	21.5	25.0	22.5	15.0	13.5
24	13.0	9.0	---	---	20.5	19.5	23.5	21.5	25.0	23.0	15.0	13.0
25	13.0	10.5	---	---	19.5	18.0	23.5	21.0	24.0	22.5	16.0	13.5
26	15.5	11.5	---	---	20.0	18.0	26.0	21.5	26.0	23.5	15.5	13.5
27	17.5	14.0	---	---	21.0	18.5	26.5	22.0	25.5	23.5	15.0	14.0
28	19.0	17.0	---	---	21.0	19.5	25.5	22.5	25.0	23.5	16.5	15.0
29	20.0	18.0	---	---	22.5	19.5	24.5	22.0	24.0	23.0	16.0	14.5
30	19.0	17.0	---	---	23.5	21.5	24.0	22.0	24.0	22.5	14.5	13.0
31	---	---	---	---	---	---	24.5	21.0	25.0	23.0	---	---
MONTH	20.0	5.0	---	---	---	---	29.0	21.0	27.0	19.5	24.5	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^2 (28.2 km^2).

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.

EXTREMES.--Current year: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) May 29, gage height, 10.80 ft (3.292 m); no flow Nov. 8, 11-14. Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) May 29, 1974, gage height, 10.80 ft (3.292 m); no flow at times each year.

REMARKS.--Records good.

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	0	.03	5.1	10	14	24	24	9.7	48	1.2	.12	75
2	.06	.06	4.0	8.0	13	21	28	9.4	26	1.0	.31	9.5
3	.02	.04	3.4	6.4	10	18	25	13	15	.87	.52	6.9
4	.01	.04	6.3	5.2	8.0	15	20	10	9.8	.91	.31	4.7
5	0	.06	6.4	4.4	6.9	43	16	8.5	11	.87	.27	3.4
6	0	.02	5.0	3.6	22	33	13	6.9	12	.75	.23	2.6
7	.01	.01	4.1	3.1	41	25	11	5.5	12	.68	.20	2.1
8	0	0	3.4	2.9	27	19	178	8.5	22	.65	.17	1.7
9	0	.02	3.0	3.0	19	16	76	11	20	.56	.17	1.4
10	0	.01	2.6	3.3	15	20	46	9.4	13	10	.20	11
11	0	0	2.3	2.8	12	43	28	9.1	8.9	2.1	.25	36
12	0	0	2.0	2.2	10	161	23	11	6.6	1.0	.29	114
13	.01	0	2.4	1.7	9.1	80	17	8.5	4.9	.75	.28	30
14	0	0	2.7	1.5	7.4	42	14	7.2	3.9	.64	.25	16
15	0	3.0	2.3	6.2	6.4	33	11	18	3.5	.56	.22	9.6
16	0	2.2	2.0	21	5.7	38	9.1	13	2.7	.46	.25	6.4
17	0	1.5	1.8	33	5.2	30	7.7	16	2.3	.38	1.9	4.7
18	0	1.3	1.6	41	4.8	24	6.4	20	2.0	.33	.62	3.6
19	0	1.1	1.4	57	27	18	5.9	16	2.1	.32	.50	2.8
20	0	.98	1.7	84	23	15	5.0	12	1.9	.30	.39	11
21	0	4.4	1.5	88	21	30	4.4	91	2.1	.26	.36	17
22	0	3.5	1.4	43	41	26	39	143	4.8	.25	.31	7.8
23	0	2.5	1.3	40	34	21	27	79	10	.23	.30	5.3
24	0	7.2	17	32	27	19	18	35	4.3	.23	.25	4.0
25	0	73	139	23	21	17	14	19	3.3	.20	.23	3.2
26	0	38	123	47	19	18	11	12	2.6	.18	.21	2.6
27	0	23	75	70	19	16	9.1	8.4	2.2	.16	.19	3.1
28	0	16	36	42	30	15	7.4	6.1	1.8	.17	15	14
29	0	10	25	31	------	15	6.2	44	1.6	.14	7.3	49
30	0	6.9	18	23	------	25	9.7	216	1.4	.16	3.4	18
31	.02	------	14	18	------	26	------	127	------	.15	3.5	------
TOTAL	.13	194.87	514.7	757.3	498.5	946	709.9	1,003.2	261.7	26.46	38.50	476.4
MEAN	.004	6.50	16.6	24.4	17.8	30.5	23.7	32.4	8.72	.85	1.24	15.9
MAX	.06	73	139	88	41	161	178	216	48	10	15	114
MIN	0	0	1.3	1.5	4.8	15	4.4	5.5	1.4	.14	.12	1.4
CFSM	.0004	.60	1.52	2.24	1.63	2.80	2.17	2.97	.80	.08	.11	1.46
IN.	0	.67	1.76	2.58	1.70	3.23	2.42	3.42	.89	.09	.13	1.63

CAL YR 1973 TOTAL 5,310.47 MEAN 14.5 MAX 254 MIN 0 CFSM 1.33 IN 18.12
WTR YR 1974 TOTAL 5,427.66 MEAN 14.9 MAX 216 MIN 0 CFSM 1.37 IN 18.52

PEAK DISCHARGE (BASE, 150 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-25	0600	7.76	348	03-12	1400	6.78	240	05-29	2400	10.80	1,000
12-26	1800	8.12	388	04-08	1200	8.64	447	09-01	0400	10.02	620
01-20	2100	6.74	236	05-21	1600	8.93	482	09-11	1700	6.33	199
01-26	2000	6.26	185	05-22	1500	8.34	413	09-12	0700	7.00	272

03372400 Monroe Lake near Harrodsburg, Ind.

LOCATION.--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, 1.1 miles (1.8 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 25.9 miles (41.7 km) upstream from mouth.

DRAINAGE AREA.--432 mi^2 (1,119 km^2).

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, 231,300 acre-ft (285 hm^3) June 9, 10, elevation, 542.25 ft (165.278 m); minimum, 164,900 acre-ft (203 hm^3) Nov. 14, 15, elevation, 536.34 ft (163.476 m).
Period of record: Maximum contents, 348,700 acre-ft (430 hm^3) May 2, 1973, elevation, 550.60 ft (167.823 m); minimum, 149,500 acre-ft (184 hm^3) 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^3), elevation, 515 ft (157.0 m). Capacity at uncontrolled spillway elevation, 556 ft (169.5 m) is 446,000 acre-ft (550 hm^3). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 26, 1966.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1973 to September 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	537.10	172,700	-
Oct. 31	536.62	167,800	-4,900
Nov. 30	537.86	180,700	+12,900
Dec. 31	540.04	205,000	+24,300
Calendar year 1973	-	-	-13,100
Jan. 31	541.90	227,000	+22,000
Feb. 28	538.45	187,100	-39,900
Mar. 31	538.83	191,300	+4,200
Apr. 30	538.51	187,800	-3,500
May 31	541.62	223,600	+35,800
June 30	538.35	186,000	-37,600
July 31	537.47	176,600	-9,400
Aug. 31	537.41	176,000	-600
Sept. 30	539.02	193,400	+17,400
Water year 1974	-	-	+20,700

03372500 Salt Creek near Harrodsburg, Ind.

LOCATION.--Lat 39°00'16", long 86°30'31", in NE¼NW¼ sec.34, T.7 N., R.1 W., Monroe County, on right bank 1,300 ft (396 m) downstream from Monroe Lake, 0.9 mile (1.4 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 25.1 miles (40.4 km) upstream from mouth.

DRAINAGE AREA.--432 mi^2 (1,119 km^2).

PERIOD OF RECORD.--WATER DISCHARGE: May 1955 to current year.
WATER TEMPERATURE: August 1966 to current year.

GAGE.--Water-stage recorder with temperature attachment. 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 3,500 ft (1,070 m) upstream at datum 2.41 ft (0.735 m) higher.

AVERAGE DISCHARGE.--19 years, 477 ft^3/s (13.51 m^3/s), 14.99 in/yr (381 mm/yr).

COE Q 74 wy

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	50	49	50	210	1,470	1,050	1,820	799	214	366	51	52
2	50	49	50	210	1,600	1,050	1,820	732	215	366	51	52
3	50	49	50	210	1,700	1,050	1,570	732	442	311	52	52
4	49	49	50	804	1,890	1,050	1,210	733	606	200	52	52
5	49	49	50	1,240	1,880	1,050	785	732	606	200	51	52
6	49	49	50	1,550	1,880	1,050	202	674	468	113	51	52
7	49	49	51	1,840	1,870	1,050	203	558	273	56	51	52
8	49	49	51	1,840	1,870	1,050	205	494	215	52	51	52
9	49	49	51	1,830	1,860	1,050	207	366	337	52	51	52
10	49	49	51	1,820	1,850	1,050	212	367	517	52	51	52
11	49	49	51	1,410	1,920	708	212	491	607	52	51	52
12	49	49	51	665	1,980	206	212	558	535	52	51	52
13	49	49	51	366	1,970	209	213	558	391	52	51	52
14	49	49	51	310	1,960	210	213	354	391	52	51	52
15	49	49	51	200	1,330	211	836	258	390	52	51	52
16	49	49	51	303	731	211	1,420	258	1,060	52	51	52
17	49	49	51	595	486	212	1,610	258	1,530	52	51	52
18	49	49	51	933	366	447	1,730	258	1,600	52	51	52
19	49	49	51	1,060	366	1,050	1,730	260	1,590	52	51	52
20	49	49	221	735	593	1,580	1,720	220	1,680	52	51	52
21	49	49	308	209	729	1,780	1,710	194	1,730	52	47	52
22	49	49	249	210	729	1,870	1,710	195	1,720	52	51	52
23	49	49	132	211	734	1,870	1,710	196	1,720	52	51	52
24	49	49	132	211	736	1,860	1,710	198	1,710	52	51	52
25	49	49	318	211	937	1,860	1,700	198	1,700	52	51	52
26	49	50	569	212	1,060	1,850	1,700	159	1,700	52	51	52
27	49	50	747	212	1,050	1,850	1,690	511	1,690	52	51	52
28	49	50	414	214	1,050	1,840	1,680	375	1,180	52	51	52
29	49	50	209	214	------	1,830	1,310	196	561	52	51	52
30	49	50	210	215	------	1,830	883	481	495	52	51	52
31	49	------	210	799	------	1,830	------	415	------	51	51	------
TOTAL	1,522	1,475	4,682	21,049	36,597	35,814	33,933	12,778	27,873	2,859	1,579	1,560
MEAN	49.1	49.2	151	679	1,307	1,155	1,131	412	929	92.2	50.9	52.0
MAX	50	50	747	1,840	1,980	1,870	1,820	799	1,730	366	52	52
MIN	49	49	50	200	366	206	202	159	214	51	47	52

CAL YR 1973 TOTAL 234,599 MEAN 643 MAX 3,100 MIN 32
WTR YR 1974 TOTAL 181,721 MEAN 498 MAX 1,980 MIN 47

03372500 Salt Creek near Harrodsburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum daily discharge, 1,980 ft^3/s (56.1 m^3/s) Feb. 12; maximum gage height, 18.61 ft (5.672 m) Mar. 10; minimum daily, 47 ft^3/s (1.33 m^3/s) Aug. 21.
Period of record: Maximum discharge, 22,000 ft^3/s (623 m^3/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, 27.0°C July 11; minimum, 1.5°C Jan. 14-17.
Period of record: Maximum temperature, 29.0°C July 10, 11, 1973; minimum, 1.0°C Jan. 4, 5, 8-13, 1968
Maximum observed temperature, 31.0°C Aug. 6, 1964.

REMARKS.--Records fair. Flow regulated by Monroe Lake (See sta 03372400).

REVISIONS (WATER YEARS).--WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	21.5	15.5	15.0	10.5	10.5	3.5	3.0	5.5	5.0	4.0	4.0
2	22.0	21.5	15.0	14.5	10.5	10.0	3.0	3.0	5.5	5.0	4.0	4.0
3	21.5	21.5	14.5	14.5	10.0	10.0	3.0	2.5	5.5	5.5	4.5	4.0
4	22.0	21.5	14.5	14.0	10.0	10.0	2.5	2.0	5.5	5.5	5.5	4.5
5	22.0	21.5	14.0	13.5	10.0	9.5	2.0	2.0	5.5	4.5	6.0	5.5
6	21.5	21.0	13.5	13.5	9.5	9.5	2.0	2.0	4.5	4.5	6.5	6.0
7	21.5	21.5	13.5	13.0	9.5	9.0	2.0	2.0	4.5	4.5	6.5	6.5
8	21.5	21.5	13.0	13.0	9.0	8.5	2.0	2.0	4.5	4.0	7.0	6.5
9	21.5	21.5	13.0	13.0	8.5	8.5	2.0	2.0	4.0	3.5	8.0	7.0
10	22.0	21.5	13.0	12.0	8.5	7.5	2.0	2.0	3.5	3.5	9.0	8.0
11	22.0	21.5	12.0	11.5	7.5	7.0	2.0	2.0	3.5	3.0	9.0	9.0
12	21.5	21.5	12.0	11.5	7.0	7.0	2.0	2.0	3.0	2.5	9.0	8.5
13	21.5	21.5	12.0	11.5	7.0	6.5	2.0	2.0	3.0	3.0	8.5	8.5
14	21.5	21.0	11.5	11.0	6.5	6.5	2.0	1.5	3.0	3.0	8.5	8.0
15	21.0	21.0	11.0	11.0	6.5	6.5	1.5	1.5	3.0	3.0	8.0	8.0
16	21.0	20.0	11.0	11.0	6.5	6.0	1.5	1.5	3.0	3.0	8.0	8.0
17	20.0	19.5	11.0	10.5	6.0	6.0	2.0	1.5	3.5	3.0	8.0	8.0
18	19.5	19.0	11.0	10.5	6.0	5.5	2.5	2.0	3.5	3.0	8.0	8.0
19	19.0	18.5	10.5	10.5	5.5	5.5	3.0	2.5	3.5	3.5	8.0	8.0
20	18.5	18.0	10.5	10.5	5.5	4.5	3.5	3.0	3.5	3.5	8.5	8.0
21	18.5	18.0	10.5	10.5	4.5	4.5	3.5	3.5	3.5	3.5	8.5	8.5
22	18.0	18.0	10.5	10.5	4.5	4.0	4.0	3.5	3.5	3.5	8.5	8.0
23	18.0	18.0	10.5	10.0	4.0	4.0	4.0	4.0	3.5	3.5	8.0	8.0
24	18.0	17.5	10.5	10.5	4.0	4.0	4.0	4.0	3.5	3.5	8.0	8.0
25	18.0	17.0	10.5	10.5	4.0	4.0	4.0	4.0	3.5	3.5	8.0	7.5
26	18.0	17.5	10.5	10.5	4.0	4.0	4.0	4.0	3.5	3.5	7.5	7.0
27	17.5	17.0	11.0	10.5	4.0	4.0	4.5	4.0	3.5	3.5	7.5	7.0
28	17.0	17.0	11.0	10.5	4.0	4.0	5.0	4.5	4.0	3.5	8.5	7.5
29	17.0	16.0	10.5	10.5	4.0	4.0	5.0	5.0	---	---	8.5	8.0
30	16.0	15.5	10.5	10.5	4.0	3.5	5.0	4.5	---	---	8.5	8.5
31	15.5	15.5	---	---	3.5	3.5	5.5	5.0	---	---	8.5	8.0
MONTH	22.0	15.5	15.5	10.0	10.5	3.5	5.5	1.5	5.5	2.5	9.0	4.0

03372500 Sa r Creek near Harrodsburg, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	16.0	16.0	19.0	18.5	23.5	23.5	25.5	25.0	25.0	24.5
2	8.5	8.5	16.5	16.0	19.0	18.5	23.5	23.5	25.5	24.5	25.5	25.0
3	9.5	8.5	16.5	16.5	20.5	19.0	24.0	23.5	24.5	24.0	25.0	24.0
4	10.0	9.5	17.0	16.0	20.5	20.0	23.5	23.5	24.5	24.0	24.0	23.5
5	10.0	10.0	17.0	17.0	20.5	20.5	23.5	23.5	24.5	23.5	23.5	23.0
6	10.5	10.0	17.0	16.5	20.5	20.5	25.0	23.5	24.5	24.5	23.5	23.0
7	10.5	10.0	16.5	16.5	20.5	19.5	24.5	24.0	25.0	24.5	23.5	23.0
8	10.0	10.0	16.5	16.0	20.0	19.5	24.5	24.0	25.0	24.5	23.0	23.0
9	10.0	9.5	16.0	16.0	21.0	19.5	25.0	24.5	25.0	24.5	23.0	23.0
10	10.5	10.0	16.0	16.0	21.0	20.5	26.0	25.0	24.5	24.5	23.0	21.0
11	10.5	10.0	16.5	16.0	21.5	21.0	27.0	26.0	24.5	24.5	22.5	21.0
12	11.0	10.5	17.0	16.5	21.5	21.0	26.0	25.0	24.5	24.0	22.0	21.0
13	11.5	11.0	17.0	17.0	21.0	21.0	25.0	24.5	25.5	24.5	22.0	21.0
14	12.0	11.5	17.0	17.0	21.0	21.0	25.5	24.5	26.0	24.5	22.0	21.5
15	12.0	12.0	18.0	17.0	21.0	20.5	26.0	24.5	25.5	25.5	21.5	21.5
16	12.0	12.0	18.0	18.0	22.0	20.5	25.0	24.0	25.5	25.5	21.5	21.5
17	13.0	12.0	18.5	18.0	22.0	22.0	24.0	24.0	25.5	25.0	21.5	21.0
18	13.0	12.5	19.0	18.5	22.0	21.5	24.0	23.5	26.0	25.0	21.0	21.0
19	13.5	12.0	20.5	19.0	22.0	21.5	24.5	24.0	26.0	24.5	21.5	21.0
20	14.5	13.5	20.5	20.0	22.5	21.5	25.0	24.5	26.5	25.5	21.5	21.0
21	15.0	13.0	22.0	20.5	23.0	22.0	26.5	24.5	26.5	25.5	21.5	21.0
22	14.5	14.0	20.5	20.0	22.5	22.5	26.0	25.0	26.0	26.0	21.5	20.5
23	14.0	14.0	20.0	19.5	23.5	22.5	25.0	24.5	26.0	25.5	21.0	20.0
24	14.5	14.0	20.5	19.0	23.5	23.5	26.0	24.5	26.0	25.5	20.5	19.5
25	14.5	14.0	20.5	19.0	23.5	23.5	25.5	25.0	26.0	25.5	19.5	19.0
26	14.5	14.0	20.0	19.5	23.5	23.5	25.5	25.0	26.0	25.5	19.5	19.0
27	15.0	14.0	20.0	19.5	24.5	23.5	26.0	25.0	26.0	25.5	19.0	18.5
28	15.5	14.0	20.5	19.5	24.5	24.0	25.5	24.5	25.5	24.5	19.0	18.5
29	15.0	14.0	20.0	19.5	24.5	24.0	25.5	24.0	25.5	25.0	18.5	18.5
30	16.0	15.0	20.5	19.5	24.0	23.5	26.0	23.5	25.5	24.5	18.5	18.0
31	---	---	20.5	18.5	---	---	25.5	24.5	25.5	25.0	---	---
MONTH	16.0	8.0	22.0	16.0	24.5	18.5	27.0	23.5	26.5	23.5	25.5	18.0
YEAR	27.0	1.5										

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 107.6 (173.1 km).

DRAINAGE AREA.--4,927 mi^2 (12,761 km^2).

PERIOD OF RECORD.--June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-6, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 442.25 ft (134.798 m) above mean sea level. See WSP 1725 for history of changes prior to Oct. 26, 1932.

AVERAGE DISCHARGE.--60 years (1903-5, 1909-16, 1923 to current year), 5,341 ft^3/s (151.3 m^3/s), 14.72 in/yr (374 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24,300 ft^3/s (688 m^3/s) Apr. 9, gage height, 16.45 ft (5.014 m); minimum daily, 643 ft^3/s (18.2 m^3/s) Oct. 29, 30.

Period of record: Maximum discharge, 160,000 ft^3/s (4,530 m^3/s) Mar. 28, 1913, gage height, 42.2 ft (12.86 m), from rating curve extended above 100,000 ft^3/s (2,830 m^3/s); minimum daily, 64 ft^3/s (1.81 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	956	690	11,300	14,500	17,300	7,900	9,030	5,460	21,200	6,630	1,200	4,830
2	956	721	11,100	13,300	16,300	8,100	10,400	5,780	17,800	5,100	1,330	5,100
3	1,150	731	9,970	10,300	14,200	8,700	12,100	6,100	15,200	4,370	1,730	5,510
4	1,310	731	8,140	7,540	11,600	8,920	14,600	6,650	14,300	3,900	1,730	7,050
5	1,470	763	6,150	6,430	9,710	9,100	15,200	7,070	12,800	3,600	1,520	8,140
6	1,400	805	4,960	6,300	8,420	8,880	14,600	6,940	11,000	3,370	1,530	7,990
7	1,360	826	4,590	6,120	7,740	8,440	14,300	5,890	8,570	3,210	1,500	6,460
8	1,240	826	4,450	6,060	7,560	8,990	17,400	4,960	6,520	3,290	1,440	4,790
9	1,150	805	4,090	5,910	8,080	9,500	23,500	4,540	6,130	3,060	1,420	3,780
10	1,100	784	3,640	5,890	8,640	12,300	22,800	4,300	5,710	2,780	1,590	4,450
11	1,010	763	3,290	6,240	8,160	15,700	20,100	4,240	5,530	2,560	1,790	10,500
12	908	752	3,020	6,760	7,410	17,600	20,600	4,410	5,330	2,510	1,670	10,700
13	861	731	2,850	6,610	6,890	17,500	21,700	4,430	4,990	2,420	1,470	13,900
14	838	731	2,720	6,030	6,520	16,300	21,200	4,410	4,430	2,330	1,330	12,000
15	805	805	2,610	5,260	6,200	16,400	18,600	4,830	4,050	2,310	1,200	10,700
16	784	968	2,490	5,600	5,600	17,300	15,000	5,030	3,740	2,160	1,160	9,690
17	752	1,040	2,420	7,340	4,740	17,300	12,000	4,610	3,950	2,190	1,120	8,640
18	731	1,040	2,370	9,390	4,300	15,800	9,300	4,810	4,590	2,360	1,180	7,180
19	731	1,020	2,290	13,100	4,220	14,200	7,990	5,780	5,120	2,150	1,360	5,280
20	763	1,060	2,240	15,200	5,060	13,000	7,230	7,200	5,080	1,960	1,370	4,010
21	784	1,230	2,230	18,000	5,420	12,200	6,790	9,030	4,830	1,830	1,560	3,420
22	784	1,530	2,460	19,400	6,720	11,100	6,920	12,500	4,940	1,710	1,790	3,390
23	773	1,610	2,760	19,900	9,190	10,000	8,230	15,500	5,150	1,680	1,700	3,180
24	742	2,960	3,130	21,100	10,300	9,830	8,380	15,400	5,080	1,610	1,560	3,150
25	711	5,510	5,780	21,900	11,300	9,060	8,680	12,600	5,190	1,550	1,420	2,980
26	680	6,940	9,100	21,600	11,600	8,340	8,100	9,120	6,650	1,470	1,300	2,670
27	661	9,360	10,700	21,900	10,600	7,930	7,090	7,140	8,190	1,420	1,270	2,490
28	652	10,200	11,900	21,200	8,700	7,590	6,430	6,130	9,810	1,370	3,080	2,510
29	643	10,800	12,000	18,700	------	7,380	5,990	5,350	10,900	1,310	4,150	5,260
30	643	10,900	12,900	17,600	------	7,680	5,510	7,120	9,280	1,260	3,250	7,160
31	661	------	14,100	17,500	------	8,270	------	17,200	------	1,230	3,840	------
TOTAL	28,009	77,632	181,750	382,680	242,480	351,310	379,770	224,530	236,060	78,700	53,560	186,830
MEAN	904	2,588	5,863	12,340	8,660	11,330	12,660	7,243	7,869	2,539	1,728	6,228
MAX	1,470	10,900	14,100	21,900	17,300	17,600	23,500	17,200	21,200	6,630	4,150	13,900
MIN	643	690	2,230	5,260	4,220	7,380	5,510	4,240	3,740	1,230	1,120	2,490
CFSM	.18	.53	1.19	2.50	1.76	2.30	2.57	1.47	1.60	.52	.35	1.26
IN.	.21	.59	1.37	2.89	1.83	2.65	2.87	1.70	1.78	.59	.40	1.41

CAL YR 1973 TOTAL 2,555,257 MEAN 7,001 MAX 30,900 MIN 643 CFSM 1.42 IN 19.29
WTR YR 1974 TOTAL 2,423,311 MEAN 6,639 MAX 23,500 MIN 643 CFSM 1.35 IN 18.30

PEAK DISCHARGE (BASE, 20,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-27	2000	15.08	22,200	06-01	0900	14.70	21,600
04-09	1900	16.45	24,300				

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, and 3.8 miles (6.1 km) downstream from Lick Creek.

DRAINAGE AREA.--287 mi^2 (743 km^2).

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.--9 years, 329 ft^3/s (9.317 m^3/s), 15.57 in/yr (395 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,200 ft^3/s (147 m^3/s) May 31, gage height, 23.64 ft (7.205 m); minimum daily, 15 ft^3/s (0.42 m^3/s) Nov. 14.
Period of record: Maximum discharge, 7,020 ft^3/s (199 m^3/s) July 22, 1973, gage height, 25.35 ft (7.727 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Oct. 8, 1966.
Flood in March 1964 reached a stage of 28.1 ft (8.56 m), from floodmarks.

REMARKS.--Records fair.

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	22	22	372	418	583	408	428	446	4,860	128	31	1,260
2	22	25	290	334	526	431	610	383	3,520	117	32	776
3	70	21	228	284	479	423	794	441	2,430	106	40	696
4	97	19	210	251	428	382	1,300	458	1,550	99	69	534
5	52	19	245	222	384	389	1,020	378	909	104	87	411
6	40	18	215	198	360	534	734	323	616	109	48	339
7	25	18	172	183	355	735	600	281	518	140	37	292
8	22	18	147	168	342	612	1,490	270	675	110	35	252
9	20	17	132	192	317	506	2,930	568	574	85	43	222
10	19	17	123	362	293	763	2,840	502	429	76	145	207
11	19	16	109	578	274	1,190	2,080	375	348	87	240	357
12	18	16	99	503	255	2,060	1,370	318	302	72	178	495
13	18	16	98	381	243	2,280	915	276	274	63	89	1,030
14	19	15	107	310	229	1,800	714	227	247	59	62	1,510
15	18	19	104	363	209	1,210	621	408	229	57	49	1,030
16	18	51	93	692	195	1,040	542	454	212	73	43	638
17	18	48	85	728	185	900	496	340	194	74	50	492
18	18	27	78	661	171	730	450	344	179	54	45	410
19	17	22	73	1,290	284	636	414	251	170	49	39	347
20	17	20	85	1,660	451	560	384	207	166	44	36	305
21	17	68	118	2,000	364	646	359	179	154	122	33	274
22	17	139	121	1,980	734	693	485	250	173	97	32	239
23	17	76	115	1,640	1,030	594	696	220	463	54	31	210
24	17	135	175	1,390	783	528	545	180	476	45	31	189
25	17	578	862	1,050	593	495	432	145	333	42	43	174
26	17	1,040	973	880	496	486	379	120	259	39	35	166
27	17	1,500	1,130	1,690	446	459	349	106	201	37	31	165
28	17	1,450	885	1,570	421	430	320	91	174	36	332	212
29	17	970	660	1,190	------	410	293	97	157	34	1,260	1,560
30	19	528	638	854	------	422	311	1,030	142	33	2,070	1,510
31	20	------	531	681	------	452	------	4,110	------	32	1,940	------
TOTAL	761	6,928	9,273	24,703	11,430	23,204	24,901	13,778	20,934	2,277	7,236	16,302
MEAN	24.5	231	299	797	408	749	830	444	698	73.5	233	543
MAX	97	1,500	1,130	2,000	1,030	2,280	2,930	4,110	4,860	140	2,070	1,560
MIN	17	15	73	168	171	382	293	91	142	32	31	165
CFSM	.09	.80	1.04	2.78	1.42	2.61	2.89	1.55	2.43	.26	.81	1.89
IN.	.10	.90	1.20	3.20	1.48	3.01	3.23	1.79	2.71	.30	.94	2.11

CAL YR 1973 TOTAL 162,170 MEAN 444 MAX 6,520 MIN 15 CFSM 1.55 IN 21.02
WTR YR 1974 TOTAL 161,727 MEAN 443 MAX 4,860 MIN 15 CFSM 1.54 IN 20.96

PEAK DISCHARGE (BASE, 2,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	2200	19.10	2,120	05-31	1800	23.64	5,200
03-13	0400	19.60	2,320	08-30	1600	19.74	2,180
04-09	1900	21.05	3,040				

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 47.7 (76.7 km).

DRAINAGE AREA.--11,125 mi^2 (28,814 km^2).

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 U.S. Weather Bureau.

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.--47 years, 11,431 ft^3/s (324.0 m^3/s), 13.96 in/yr (355 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	2,550	2,100	25,300	39,100	43,600	20,900	18,900	11,500	35,600	20,200	3,530	10,600
2	2,540	2,180	25,200	40,200	42,000	20,400	21,200	11,400	41,400	14,700	3,530	11,600
3	2,620	2,270	24,400	40,000	40,100	20,700	23,900	11,700	45,900	12,200	4,590	12,100
4	2,780	2,380	21,900	36,500	36,700	21,000	27,900	11,800	45,800	11,600	4,370	11,600
5	3,120	2,500	18,200	28,200	30,200	21,000	30,900	12,100	41,000	10,700	3,900	11,500
6	3,160	2,470	15,400	19,800	23,900	21,400	33,000	12,100	33,000	10,500	3,670	11,400
7	3,090	2,450	14,000	15,400	20,600	22,300	33,400	11,700	25,900	9,870	3,620	10,800
8	3,140	2,410	12,800	14,200	18,800	22,800	35,100	10,600	21,600	9,300	4,250	9,200
9	3,300	2,380	11,800	14,100	18,600	23,300	40,300	9,610	18,900	8,860	3,790	7,520
10	3,180	2,270	10,700	14,100	19,000	24,700	42,900	9,250	18,300	8,440	4,790	6,560
11	3,020	2,190	9,720	14,400	18,800	27,900	45,800	9,800	18,000	8,250	6,500	9,540
12	2,860	2,140	8,940	14,500	17,700	33,400	46,200	9,770	17,300	7,440	5,670	17,500
13	2,750	2,090	8,230	14,500	16,300	35,600	45,500	10,500	15,600	7,050	4,870	21,700
14	2,700	2,060	7,240	14,000	15,100	36,300	44,500	12,900	13,900	6,820	4,330	25,700
15	2,630	2,190	6,710	13,100	14,300	36,700	41,900	14,300	13,600	6,480	3,860	25,400
16	2,780	2,450	6,550	13,100	13,800	37,300	37,200	14,800	11,500	6,060	3,600	21,700
17	2,910	2,370	6,420	14,700	13,100	37,000	30,700	16,400	11,900	5,670	3,360	16,900
18	2,740	2,490	6,280	18,400	12,300	34,700	24,200	17,800	11,600	5,480	3,530	13,900
19	2,540	2,620	6,060	25,200	12,100	31,800	20,200	19,400	12,900	5,370	3,480	11,600
20	2,430	2,600	5,900	30,200	13,000	28,200	17,200	21,400	13,200	5,100	3,500	9,290
21	2,370	2,760	5,650	34,700	14,400	25,800	15,500	23,600	12,300	5,030	3,480	7,450
22	2,340	2,970	5,370	38,000	16,100	23,900	15,000	28,500	11,800	4,890	3,530	6,870
23	2,300	3,280	5,530	41,300	18,800	22,600	16,000	32,500	13,200	4,920	3,650	7,290
24	2,250	4,130	5,990	45,000	22,000	21,300	17,600	37,100	14,900	4,710	3,550	6,420
25	2,200	7,850	11,700	49,000	23,800	20,300	17,700	40,000	16,700	4,440	3,420	5,870
26	2,150	13,200	17,900	53,500	24,500	19,000	16,700	39,000	18,300	4,270	3,270	5,500
27	2,100	20,000	25,100	57,400	24,400	17,900	15,300	34,800	19,500	4,140	3,090	5,160
28	2,050	22,300	27,800	56,500	23,000	17,000	13,600	27,600	23,100	3,990	4,490	5,160
29	2,030	24,100	30,200	54,000	------	16,300	12,200	19,500	25,800	3,870	9,150	8,990
30	2,000	25,100	32,400	50,200	------	16,300	11,600	16,400	26,100	3,750	10,800	11,700
31	2,030	------	35,800	46,300	------	17,400	------	23,800	------	3,620	10,500	------
TOTAL	80,660	172,300	455,190	959,600	607,000	775,200	812,100	581,630	648,600	227,720	141,670	346,520
MEAN	2,602	5,743	14,680	30,950	21,680	25,010	27,070	18,760	21,620	7,346	4,570	11,550
MAX	3,300	25,100	35,800	57,400	43,600	37,300	46,200	40,000	45,900	20,200	10,800	25,700
MIN	2,000	2,060	5,370	13,100	12,100	16,300	11,600	9,250	11,500	3,620	3,090	5,160
CFSM	.23	.52	1.32	2.78	1.95	2.25	2.43	1.69	1.94	.66	.41	1.04
IN.	.27	.58	1.52	3.21	2.03	2.59	2.72	1.94	2.17	.76	.47	1.16

CAL YR 1973 TOTAL 5,663,540 MEAN 15,520 MAX 57,800 MIN 2,000 CFSM 1.40 IN 18.94
WTR YR 1974 TOTAL 5,808,190 MEAN 15,910 MAX 57,400 MIN 2,000 CFSM 1.43 IN 19.42

03374000 White River at Petersburg, Ind.--Continued

EXTREMES.--WATER DISCHARGE, Current year: Maximum discharge, 57,800 ft³/s (1,637 m³/s) Jan. 27, gage height, 22.08 ft (6.730 m); minimum daily, 2,000 ft³/s (56.6 m³/s) Oct. 30.

Period of record: Maximum discharge, 183,000 ft³/s (5,180 m³/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 ft³/s (16.2 m³/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 ft³/s (6,660 m³/s).

WATER TEMPERATURE, Current year: Maximum temperature, 32.0°C July 29, Aug. 17, 18, 20-22, 26, 27; minimum, 3.0°C Jan. 4-6.

Period of record: Maximum temperature, 34.0°C July 21, 22, 1972; minimum, freezing point on many days during most winter periods.

REMARKS.--Records good. Natural flow of stream affected by reservoirs.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 2109: Drainage area.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	AX	MIN	MAX	MIN
1	25.5	25.0	16.0	15.0	12.0	11.0	4.5	4.0	8.5	8.0	6.5	5.5
2	25.0	24.5	15.5	15.5	11.0	10.5	4.0	3.5	8.0	8.0	8.0	6.5
3	24.5	24.5	15.5	14.0	10.5	10.5	3.5	3.5	8.0	8.0	9.5	8.0
4	25.0	24.5	14.5	14.0	10.5	10.5	3.5	3.0	8.0	7.0	11.0	9.5
5	25.0	23.5	15.0	14.5	11.0	10.5	3.0	3.0	7.0	6.5	11.5	11.0
6	23.5	23.0	15.0	14.0	11.0	11.0	3.5	3.0	6.5	6.5	12.5	11.5
7	23.0	23.0	14.5	14.0	11.0	10.5	3.5	3.5	6.5	6.5	13.5	12.5
8	23.0	23.0	14.0	13.0	10.5	10.0	3.5	3.5	6.5	6.5	14.5	13.5
9	24.0	23.0	13.5	12.5	10.0	9.5	4.0	3.5	6.5	6.5	15.0	14.5
10	24.5	24.0	13.5	13.0	9.5	9.0	4.0	4.0	6.5	6.0	15.5	15.0
11	24.5	24.5	13.0	13.0	9.0	8.5	4.5	4.0	6.0	5.5	15.5	14.5
12	24.5	24.0	13.5	13.0	8.5	8.0	4.0	4.0	6.0	5.5	14.5	13.5
13	24.0	23.5	14.0	13.5	8.5	8.0	4.0	4.0	6.0	6.0	13.5	12.0
14	23.5	23.0	15.0	13.5	9.0	8.5	4.0	4.0	6.5	6.0	12.0	10.5
15	23.0	21.5	16.5	15.0	9.0	9.0	4.5	4.0	6.5	6.5	10.5	10.0
16	22.0	21.5	16.5	16.5	9.0	8.5	5.5	4.5	7.0	6.5	10.0	9.5
17	21.5	20.5	16.5	15.5	8.5	8.0	6.0	5.5	7.0	7.0	9.5	8.5
18	20.5	18.5	15.5	15.5	8.0	8.0	6.5	6.0	7.5	7.0	8.5	8.5
19	19.0	18.5	16.0	15.5	8.0	7.5	8.0	6.5	8.0	7.5	8.5	8.5
20	18.5	18.5	16.0	15.5	7.5	6.5	8.0	8.0	8.0	8.0	9.0	8.5
21	18.5	16.0	16.5	16.0	6.5	6.0	8.5	8.0	8.0	8.0	9.0	9.0
22	18.0	17.5	16.5	16.0	7.0	6.0	9.0	8.5	8.0	8.0	9.0	9.0
23	18.0	17.5	16.0	15.5	7.0	6.5	9.0	9.0	8.0	8.0	9.0	9.0
24	18.0	17.5	16.0	16.0	7.0	6.0	9.0	9.0	8.0	7.5	9.0	9.0
25	18.0	18.0	16.0	14.5	7.0	5.5	9.0	9.0	7.5	6.5	9.0	8.5
26	18.0	18.0	14.5	13.5	5.5	5.5	9.0	8.5	6.5	6.0	9.0	9.0
27	18.0	17.0	13.5	13.5	6.0	5.5	8.5	8.5	6.0	6.0	9.5	9.0
28	17.5	17.0	13.5	13.0	6.0	6.0	8.5	8.5	6.0	5.5	10.5	9.5
29	17.0	16.0	13.0	12.0	6.0	6.0	8.5	8.5	---	---	11.5	10.5
30	16.5	16.0	12.0	12.0	6.0	5.5	8.5	8.5	---	---	12.0	11.5
31	16.5	16.0	---	---	5.5	4.5	8.5	8.5	---	---	11.5	11.0
MONTH	25.5	16.0	16.5	12.0	12.0	4.5	9.0	3.0	8.5	5.5	15.5	5.5

03374000 White River at Petersburg, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	18.5	18.5	20.5	20.0	24.5	23.5	31.0	29.0	26.5	26.0
2	12.0	12.0	18.5	18.5	20.0	20.0	25.5	24.5	30.5	29.0	26.0	25.5
3	13.0	12.0	18.5	18.5	20.5	20.0	26.5	25.5	29.0	26.5	25.5	24.5
4	13.0	13.0	18.5	18.5	21.0	20.5	27.0	26.5	26.5	26.5	24.5	24.0
5	13.0	12.0	18.5	18.5	21.0	21.0	28.0	26.5	27.0	26.0	24.0	23.5
6	12.0	12.0	18.5	18.5	21.0	21.0	28.0	28.0	28.0	26.5	23.5	23.0
7	12.0	12.0	18.5	18.5	21.5	21.0	28.5	28.0	28.0	27.5	23.0	23.0
8	12.0	10.5	18.5	17.0	21.5	21.5	29.5	28.5	28.0	27.0	23.0	23.0
9	10.5	10.0	17.0	17.0	21.5	21.5	30.0	29.0	28.5	27.0	23.0	23.0
10	10.5	10.0	17.0	16.5	21.5	21.5	30.0	30.0	29.0	28.0	23.5	23.0
11	10.5	10.0	17.0	17.0	22.0	21.5	30.0	29.0	28.0	27.0	23.5	23.5
12	12.0	10.5	18.0	17.0	22.0	22.0	30.0	29.5	27.5	27.0	23.5	23.5
13	13.0	12.0	18.0	17.5	22.0	22.0	30.5	30.0	29.5	27.5	23.5	23.0
14	13.5	13.0	18.0	18.0	22.0	22.0	30.5	29.5	30.5	29.0	23.0	22.0
15	13.5	13.5	19.0	18.0	22.0	22.0	31.0	30.0	31.0	30.0	22.0	22.0
16	13.5	13.5	19.0	18.5	22.0	22.0	31.0	31.0	31.5	31.0	22.0	22.0
17	14.0	13.5	19.5	19.0	22.0	22.0	31.0	31.0	32.0	31.0	22.0	21.5
18	4.0	14.0	20.0	19.5	22.0	22.0	31.0	30.5	32.0	31.0	21.5	21.5
19	15.0	14.0	20.5	20.0	22.0	22.0	31.0	31.0	31.5	30.5	22.0	21.5
20	15.5	15.0	21.0	20.5	23.0	22.0	31.0	31.0	32.0	30.5	22.5	22.0
21	15.5	15.0	21.5	21.0	23.5	23.0	31.0	31.0	32.0	31.0	23.0	22.5
22	16.0	15.5	21.5	21.5	23.5	23.5	31.0	30.0	32.0	31.0	23.0	22.5
23	16.0	16.0	21.5	21.5	23.5	23.5	30.0	29.0	31.5	30.5	22.5	22.0
24	16.0	15.5	21.5	21.5	23.5	23.5	29.0	29.0	31.5	30.5	22.0	22.0
25	15.5	15.0	21.5	21.5	23.5	22.0	29.5	29.0	31.5	30.0	22.0	22.0
26	16.0	15.0	21.5	21.5	22.5	22.0	31.0	29.0	32.0	30.0	22.0	22.0
27	16.5	16.0	21.5	21.0	22.0	22.0	31.0	30.0	32.0	30.5	22.0	21.5
28	16.5	16.5	21.0	21.0	22.5	22.0	31.5	31.0	31.5	27.5	21.5	21.5
29	18.0	16.5	21.0	21.0	23.0	22.5	32.0	31.5	27.5	27.0	21.5	20.0
30	18.5	18.0	21.0	20.5	23.5	23.0	31.5	30.5	27.0	26.5	20.0	19.5
31	---	---	21.0	21.0	---	---	31.0	29.0	26.5	26.0	---	---
MONTH	18.5	10.0	21.5	16.5	23.5	20.0	32.0	23.5	32.0	26.0	26.5	19.5

03374100 White River at Hazleton, Ind.

LOCATION.--Lat 38°29'23", long 87°33'00", in SE¼NW¼ 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^2 (29,280 km^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: February 1973 to current year.
WATER TEMPERATURE: October 1973 to current year.

EXTREMES.--SPECIFIC CONDUCTANCE, Current year: Maximum conductance, 754 micromhos Nov. 5, 6; minimum, 225 micromhos Apr. 15.
Period of record: Maximum conductance, 754 micromhos Nov. 5, 6, 1973; minimum, 225 micromhos Apr. 15, 1974.

WATER TEMPERATURE, Current year: Maximum temperature, 30.0°C Aug. 17; minimum, 1.5°C Jan. 3-5.
Period of record: Maximum temperature, 30.0°C Aug. 17, 1974; minimum, 1.5°C Jan. 3-5, 1974.

REMARKS.--Water discharge obtained from station White River at Petersburg (See sta 03374000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
24...	1200	17.0	--	20	580	12.4	8.3	2.2	223	272
NOV.										
21...	1000	14.5	2600	50	670	9.8	7.9	5.3	217	264
DEC.										
19...	1115	6.0	6360	--	540	12.0	7.8	6.6	213	260
JAN.										
08...	1000	4.0	14800	70	527	--	7.9	4.6	187	228
FEB.										
06...	1300	6.0	22500	40	451	10.8	7.9	3.8	156	190
MAR.										
12...	1200	9.0	33600	100	360	--	7.8	3.6	116	141
APR.										
16...	0930	13.5	37000	60	384	9.8	8.0	2.6	131	160
MAY										
15...	1530	18.0	14100	90	400	7.4	7.6	6.4	130	159
JUNE										
18...	1400	22.5	11700	100	530	7.6	7.8	6.1	197	240
JULY										
24...	1030	26.0	4740	60	580	8.7	8.1	3.4	222	271
SEP.										
05...	1200	21.0	11300	100	360	--	7.6	5.4	110	134

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.									
24...	--	1.5	.25	1.2	.03	--	290	66	76
NOV.									
21...	0	2.0	.98	1.0	.23	--	300	84	71
DEC.									
19...	0	.98	.88	.10	.04	--	210	0	80
JAN.									
08...	0	3.9	.65	3.2	.13	--	270	87	70
FEB.									
06...	0	3.7	.80	2.9	.22	--	230	71	58
MAR.									
12...	0	--	--	--	--	--	150	38	40
APR.									
16...	0	--	--	--	--	--	170	42	48
MAY									
15...	0	.91	.48	.43	.25	3.5	180	51	48
JUNE									
18...	0	--	--	--	--	--	270	72	73
JULY									
24...	0	--	--	--	--	--	310	88	83
SEP.									
05...	0	--	--	--	--	--	150	38	36

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
NOV.											
21...	1000	3	0	3	0	2	2	0	10	10	3

03374100 White River at Hazleton, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	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)
OCT.									
24...	24	19	.5	12	3.4	26	67	.3	6.9
NOV.									
21...	30	23	.6	14	6.4	31	73	.6	5.6
DEC.									
19...	2.4	27	.8	21	4.7	26	58	.2	.3
JAN.									
08...	24	13	.3	9	3.2	22	57	.1	9.0
FEB.									
06...	20	8.7	.3	8	2.4	17	61	.3	8.5
MAR.									
12...	13	7.0	.2	9	3.3	12	42	.2	6.8
APR.									
16..	13	11	.4	12	2.1	11	44	.3	6.5
MAY									
15...	15	9.8	.3	10	2.4	14	48	.2	5.6
JUNE									
18...	21	11	.3	8	2.3	18	59	.2	8.7
JULY									
24...	25	15	.4	9	3.0	26	61	.5	4.6
SEP.									
05...	14	9.5	.3	12	3.5	14	41	.5	6.2

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	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.									
24...	--	--	--	--	368	357	--	.50	6.4
NOV.									
21...	84800	540	950	--	390	371	2740	.53	8.8
DEC.									
19...	--	--	860	--	403	327	6920	.55	4.3
JAN.									
08...	1800	--	250	--	398	311	15900	.54	17
FEB.									
06...	82400	--	120	--	307	270	18700	.42	16
MAR.									
12...	6000	--	1100	--	241	194	21900	.33	--
APR.									
16...	2000	50	90	2100	243	215	24300	.33	--
MAY									
15...	17000	84100	85300	1900	260	221	9900	.35	4.0
JUNE									
18...	3900	190	55	8700	380	312	12000	.52	--
JULY									
24...	9100	620	820	52000	426	352	5450	.58	--
SEP.									
05...	10000	2800	380	--	217	191	6620	.30	--

DATE	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED 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-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV.											
21...	2	5	5	12	17	3300	0	13	190	200	270

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	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)
NOV.											
21...	300	33	20	30	50	8	0	8	.0	.0	.0

03374100 White River at Hazleton, Ind.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	621	503	716	682	---	---	312	296	380	372	250	239
2	646	531	709	705	---	---	337	313	388	379	423	250
3	617	477	720	705	---	---	372	343	403	386	438	384
4	613	493	733	720	---	---	426	367	419	403	448	440
5	622	567	754	733	---	---	470	430	440	419	456	447
6	637	625	754	686	---	---	494	476	462	439	464	452
7	643	503	741	705	---	---	527	499	464	243	455	407
8	659	557	705	644	---	---	537	519	245	242	413	405
9	652	613	712	651	---	---	518	514	244	239	430	409
10	654	632	690	631	---	---	511	497	240	231	443	428
11	686	591	693	686	---	---	494	492	234	229	437	400
12	679	530	693	682	---	---	489	482	237	230	396	319
13	653	543	686	618	---	---	485	481	246	238	318	315
14	655	518	693	597	---	---	488	482	247	244	315	300
15	622	548	697	542	---	---	503	483	250	244	299	286
16	635	591	697	634	---	---	498	480	254	248	308	294
17	657	615	658	555	---	---	485	471	259	250	325	309
18	679	607	675	561	---	---	470	451	260	255	335	326
19	662	576	690	679	547	534	461	400	260	254	350	335
20	655	574	690	679	538	532	397	364	263	254	365	350
21	654	540	712	672	559	527	376	356	262	257	390	366
22	631	543	707	699	570	512	366	357	262	257	396	353
23	631	522	703	676	571	562	366	363	263	256	406	378
24	612	582	679	575	576	495	364	345	257	244	403	379
25	631	523	621	409	574	438	368	361	245	238	400	370
26	644	532	---	---	431	330	367	357	240	234	417	360
27	690	563	---	---	349	244	370	364	239	233	422	411
28	701	686	---	---	250	237	379	367	243	236	424	417
29	712	701	---	---	281	252	383	376	---	---	432	422
30	716	712	---	---	287	269	375	331	---	---	440	396
31	720	712	---	---	306	275	376	343	---	---	438	393
MONTH	720	477	754	409	---	---	537	296	464	229	464	239

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	428	400	434	389	---	---	---	---	643	585	539	338
2	409	401	445	365	---	---	---	---	627	585	388	323
3	406	398	437	273	---	---	---	---	582	542	359	326
4	401	369	415	295	---	---	---	---	560	524	352	323
5	379	352	440	340	---	---	---	---	560	512	357	344
6	378	361	437	331	---	---	---	---	577	532	373	352
7	361	355	405	393	---	---	---	---	588	544	351	316
8	357	330	390	378	---	---	---	---	588	519	388	338
9	351	321	376	364	---	---	---	---	591	552	430	390
10	327	316	381	358	---	---	---	---	577	547	483	432
11	314	289	388	375	---	---	534	497	580	555	505	473
12	301	283	394	378	---	---	637	501	598	401	501	483
13	306	282	407	379	---	---	640	604	430	401	489	468
14	320	230	411	395	---	---	646	595	509	438	468	450
15	347	225	---	---	---	---	650	604	529	507	450	440
16	335	271	---	---	---	---	650	604	534	527	442	430
17	343	285	---	---	---	---	656	604	527	505	442	428
18	339	240	---	---	---	---	666	611	505	425	452	432
19	441	329	---	---	---	---	656	614	519	479	462	444
20	464	404	---	---	---	---	669	614	495	477	462	456
21	466	423	---	---	---	---	663	617	499	479	470	450
22	471	407	---	---	---	---	621	580	517	495	454	436
23	466	435	---	---	---	---	577	555	550	512	436	419
24	451	411	---	---	---	---	608	539	555	539	427	412
25	417	346	---	---	---	---	630	611	547	532	422	411
26	411	378	---	---	---	---	630	598	542	522	425	408
27	407	368	---	---	---	---	656	588	534	524	420	408
28	390	344	---	---	---	---	656	601	522	419	450	411
29	409	367	---	---	---	---	643	614	485	323	501	411
30	415	365	---	---	---	---	634	598	360	325	464	390
31	---	---	---	---	---	---	630	582	550	364	---	---
MONTH	471	225	---	---	---	---	---	---	643	323	539	316

03374100 White River at Hazleton, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.5	23.5	15.5	14.0	---	---	3.5	2.5	8.5	7.5	16.0	16.0
2	24.0	23.0	15.5	15.0	---	---	2.5	2.0	8.0	8.0	16.0	5.0
3	24.0	22.0	15.5	14.5	---	---	2.0	1.5	8.0	6.5	6.5	5.0
4	24.0	23.5	15.0	13.0	---	---	2.0	1.5	6.5	6.0	8.0	6.5
5	23.5	22.0	14.0	13.0	---	---	2.0	1.5	6.0	5.5	8.5	8.0
6	22.0	21.0	13.5	12.5	---	---	2.5	2.0	6.0	6.0	9.5	8.0
7	21.5	21.0	13.5	12.5	---	---	3.0	2.5	20.0	5.5	10.5	9.5
8	21.5	21.0	13.0	12.5	---	---	4.0	3.0	20.0	18.5	11.5	10.5
9	23.0	21.0	12.5	10.0	---	---	4.0	4.0	19.0	18.0	11.5	11.0
10	24.0	22.0	10.0	9.0	---	---	4.5	4.0	19.5	19.0	11.5	11.0
11	24.0	23.0	11.0	9.5	---	---	4.5	4.0	19.5	19.0	11.0	10.5
12	23.5	22.5	12.0	11.0	---	---	4.0	3.5	19.0	18.5	10.0	8.5
13	22.5	21.0	13.5	11.5	---	---	3.5	3.5	19.5	18.5	8.5	7.0
14	21.5	20.5	15.5	13.5	---	---	4.0	3.5	19.5	18.0	7.5	6.5
15	22.0	20.5	16.0	15.0	---	---	5.0	4.0	19.5	17.0	6.5	6.0
16	21.0	19.0	15.0	14.0	---	---	6.0	5.0	19.5	17.5	6.0	5.0
17	19.0	18.0	14.5	13.0	---	---	7.0	6.0	18.5	16.5	5.0	4.5
18	18.5	17.5	14.0	14.0	---	---	8.0	7.0	18.5	17.5	5.5	4.5
19	18.0	17.0	15.0	14.0	6.0	5.5	9.0	8.0	19.5	17.5	5.5	5.5
20	18.5	17.0	15.5	15.0	5.5	4.0	10.0	9.0	19.5	17.5	6.0	5.0
21	18.0	16.5	15.5	14.0	4.0	3.0	10.0	9.5	19.0	14.0	5.5	5.5
22	17.5	16.5	14.5	13.5	3.5	3.0	10.5	10.0	18.0	16.0	6.0	5.5
23	17.5	16.0	14.5	14.0	4.5	3.5	10.0	10.0	18.0	17.5	6.0	5.5
24	17.0	16.5	15.5	14.5	5.5	4.5	10.0	9.0	17.5	15.0	6.0	5.5
25	20.0	18.5	15.5	14.5	6.0	5.0	9.0	9.0	15.0	15.0	6.0	5.5
26	20.0	18.5	---	---	6.0	5.0	9.0	8.5	15.5	14.5	6.5	6.0
27	19.0	18.0	---	---	6.0	5.5	9.5	9.0	15.5	15.0	7.0	6.5
28	17.5	16.5	---	---	6.0	6.0	9.0	8.5	16.0	15.0	8.0	7.0
29	16.5	14.5	---	---	6.0	6.0	8.5	8.5	---	---	9.5	8.0
30	15.0	14.0	---	---	6.0	5.0	8.5	8.0	---	---	9.5	9.0
31	15.0	14.5	---	---	5.0	3.5	8.5	8.5	---	---	9.5	9.0
MONTH	24.5	14.0	16.0	9.0	---	---	10.5	1.5	20.0	5.5	16.0	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5	18.0	17.0	---	---	---	---	22.0	21.5	24.5	13.0
2	11.0	10.0	17.5	17.5	---	---	---	---	23.5	21.5	24.0	22.5
3	11.5	10.5	18.0	17.0	---	---	---	---	23.5	19.5	22.5	21.5
4	12.0	11.5	18.0	17.0	---	---	---	---	23.5	20.0	22.0	21.0
5	11.5	10.5	18.0	17.0	---	---	---	---	22.5	21.0	21.5	20.5
6	12.0	10.5	18.0	14.0	---	---	---	---	23.0	22.5	21.5	20.5
7	11.5	11.0	18.0	15.5	---	---	---	---	23.5	22.5	21.0	20.5
8	11.5	10.0	18.0	17.5	---	---	---	---	24.0	19.0	21.0	20.5
9	10.5	9.0	18.5	18.0	---	---	---	---	24.0	20.0	21.0	20.5
10	14.0	9.5	18.5	17.0	---	---	---	---	21.5	19.0	21.0	19.5
11	14.5	11.0	19.5	18.0	---	---	28.5	28.0	23.5	17.5	22.5	20.0
12	13.0	11.5	19.5	14.5	---	---	24.5	24.5	26.0	16.5	20.5	15.0
13	14.0	13.0	19.5	12.5	---	---	25.0	24.5	27.0	25.5	15.0	9.5
14	15.0	14.5	20.0	14.0	---	---	25.0	24.5	28.0	26.0	10.5	8.0
15	14.5	13.5	---	---	---	---	26.5	25.0	28.5	26.5	9.5	8.5
16	14.0	13.5	---	---	---	---	27.0	25.5	29.0	27.0	13.0	10.0
17	15.0	13.5	---	---	---	---	25.5	25.0	30.0	27.5	14.0	13.0
18	15.0	14.0	---	---	---	---	25.0	25.0	29.5	27.0	15.0	13.0
19	15.5	14.5	---	---	---	---	25.0	24.0	29.0	27.5	16.0	15.0
20	16.0	15.0	---	---	---	---	24.0	23.0	29.0	27.0	18.0	16.0
21	16.0	16.0	---	---	---	---	23.5	23.0	29.5	27.5	19.0	18.0
22	16.0	16.0	---	---	---	---	24.0	23.5	29.0	27.5	19.0	19.0
23	16.0	15.5	---	---	---	---	25.0	24.0	29.5	28.0	19.5	19.0
24	15.5	14.5	---	---	---	---	26.0	25.0	29.0	27.5	19.5	19.0
25	15.5	14.5	---	---	---	---	27.0	25.0	29.0	27.0	19.5	19.0
26	15.5	14.5	---	---	---	---	26.5	25.0	29.0	27.5	20.0	19.5
27	16.0	15.5	---	---	---	---	25.0	23.5	29.0	28.0	20.0	19.5
28	17.0	15.5	---	---	---	---	24.0	23.5	28.5	27.0	20.0	411.0
29	17.5	16.5	---	---	---	---	24.0	23.5	27.0	24.5	18.5	411.0
30	18.0	17.5	---	---	---	---	24.0	23.0	25.0	24.0	17.0	16.0
31	---	---	---	---	---	---	23.5	21.5	24.5	13.0	---	---
MONTH	18.0	9.0	---	---	---	---	---	---	30.0	13.0	24.5	8.0

03374100 White River at Hazleton, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	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.								
24...	1200	17.0	2250	40	245	--	--	--
NOV.								
21...	1000	14.5	2600	50	351	--	--	--
DEC.								
19...	1115	6.0	6360	27	464	--	--	--
JAN.								
08...	1000	4.0	14800	82	3280	--	--	--
FEB.								
06...	1300	6.0	22500	73	4430	--	--	--
MAR.								
12...	1200	9.0	33600	332	30100	40	47	58
APR.								
16...	0930	13.5	37000	76	7590	--	--	--
MAY								
15...	1520	--	--	215	8190	42	51	61
JUNE								
18...	1400	22.5	11700	153	4830	--	--	--
JULY								
24...	1030	26.0	4740	124	1590	--	--	--
SEP.								
05...	1200	21.0	11300	291	8880	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.							
24...	--	--	--	--	--	--	--
NOV.							
21...	--	--	--	--	--	--	--
DEC.							
19...	--	--	--	--	--	--	--
JAN.							
08...	--	--	--	--	--	--	--
FEB.							
06...	--	--	--	--	--	--	--
MAR.							
12...	68	75	79	79	80	82	100
APR.							
16...	--	--	--	--	--	--	--
MAY							
15...	75	90	97	98	99	100	--
JUNE							
18...	--	--	--	--	--	--	--
JULY							
24...	--	--	--	--	--	--	--
SEP.							
05...	--	--	--	--	--	-	--

03374455 Patoka River near Hardinsburg, Ind.

LOCATION.--Lat 38°26'41", long 86°23'14", in NW¼SE¼ sec.10, T.1 S., R.1 E., Orange County, on downstream edge of center pier of county road bridge, 0.2 mile (0.3 km) upstream from left-bank tributary, 0.7 mile (1.1 km) northeast of Valeene, and 6.0 miles (9.7 km) southwest of Hardinsburg.

DRAINAGE AREA.--12.8 mi^2 (33.2 km^2).

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.--6 years, 23.8 ft^3/s (0.674 m^3/s), 25.25 in/yr (641 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) Nov. 26, gage height, 6.31 ft (1.923 m); minimum daily, 0.36 ft^3/s (0.010 m^3/s) Oct. 12, 17, 19, 21, 25, 26, 28, 29.
Period of record: Maximum discharge, 1,600 ft^3/s (45.3 m^3/s) July 21, 1973, gage height, 7.39 ft (2.252 m); no flow for several days in 1971, 1972.

REMARKS.--Records good.

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	.65	.92	11	23	22	23	76	16	138	1.5	.58	3.5
2	.45	.64	8.7	17	19	28	180	16	51	1.3	.77	3.5
3	.65	.58	7.2	14	15	24	94	25	26	1.2	1.4	4.8
4	.58	.52	11	12	12	20	79	17	17	1.3	1.0	3.7
5	.46	.64	17	10	11	37	45	14	13	1.5	.85	2.8
6	.40	.58	11	9.6	11	153	33	11	11	1.6	.70	2.1
7	.46	.52	7.5	8.3	11	97	27	9.1	22	1.4	.58	1.8
8	.46	.52	6.5	7.5	10	51	303	48	18	1.2	.58	1.5
9	.46	.46	5.8	37	9.1	36	136	123	10	1.1	.64	1.4
10	.40	.46	5.1	116	8.3	76	66	43	6.5	1.0	1.2	9.1
11	.40	.46	4.2	99	7.2	218	44	27	4.8	1.0	15	5.4
12	.36	.46	4.0	45	6.8	213	33	22	4.0	.92	7.9	28
13	.58	.46	4.2	28	6.8	114	26	15	3.5	.85	2.5	69
14	.70	.46	4.0	24	6.1	61	21	12	3.2	.77	1.5	33
15	.46	.64	3.7	82	5.4	49	17	31	3.0	.92	1.3	13
16	.40	.64	3.5	82	5.1	94	14	23	2.8	.92	1.2	8.3
17	.36	.52	3.5	49	4.8	54	12	15	2.3	.77	1.1	5.8
18	.40	.52	3.2	35	4.5	40	11	12	2.1	.70	1.6	4.5
19	.36	.52	3.0	161	34	32	10	10	2.1	.70	1.1	3.5
20	.40	.52	34	219	33	25	8.7	8.3	2.1	18	.92	3.0
21	.36	2.0	27	214	26	56	7.9	23	1.8	4.5	.85	2.8
22	.40	1.8	17	86	173	42	169	31	7.5	1.8	.77	2.1
23	.40	1.3	13	137	82	32	92	18	9.6	1.5	.70	2.0
24	.40	12	26	79	48	26	40	12	4.0	1.3	.64	1.8
25	.36	60	76	47	31	27	26	8.3	3.0	1.1	.64	1.6
26	.36	223	119	100	25	28	20	6.5	2.3	1.1	.58	1.6
27	.40	92	100	130	25	23	17	5.4	2.0	.92	.58	1.8
28	.36	128	48	74	24	21	14	4.5	2.0	.85	1.4	15
29	.36	32	79	54	------	20	12	6.8	1.8	.92	12	135
30	.58	17	64	38	------	31	12	89	1.5	.77	24	21
31	.70	------	38	29	------	26	------	343	------	.64	5.8	------
TOTAL	14.07	580.14	765.1	2,066.4	676.1	1,777	1,645.6	1,044.9	377.9	54.05	90.38	392.4
MEAN	.45	19.3	24.7	66.7	24.1	57.3	54.9	33.7	12.6	1.74	2.92	13.1
MAX	.70	223	119	219	173	218	303	343	138	18	24	135
MIN	.36	.46	3.0	7.5	4.5	20	7.9	4.5	1.5	.64	.58	1.4
CFSM	.04	1.51	1.93	5.21	1.88	4.48	4.29	2.63	.98	.14	.23	1.02
IN.	.04	1.69	2.22	6.01	1.96	5.16	4.78	3.04	1.10	.16	.26	1.14

CAL YR 1973 TOTAL 11,428.21 MEAN 31.3 MAX 750 MIN .24 CFSM 2.45 IN 33.21
WTR YR 1974 TOTAL 9,484.04 MEAN 26.0 MAX 343 MIN .36 CFSM 2.03 IN 27.56

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1400	6.31	1,170	03-06	1200	3.67	369	04-22	1315	4.49	585
12-26	1800	3.45	316	03-11	1545	5.19	791	05-08	2300	3.65	364
01-20	2115	4.90	703	04-02	0200	3.95	442	05-31	1400	4.92	709
01-26	2015	3.60	352	04-08	0945	6.07	1,090	09-29	0115	4.11	483
02-22	0530	3.25	270								

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, and 8.7 miles (14.0 km) south of Paoli.

DRAINAGE AREA.--30.8 mi^2 (79.77 km^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: July 1969 to current year.
WATER TEMPERATURES: August 1970 to current year.

EXTREMES.--WATER TEMPERATURE, Current year: Maximum temperature, 26.5°C July 9, 12; minimum, 2.0°C Dec. 18, 19, Jan. 3.
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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
24...	1550	16.5	.30	10	380	7.7	6.6	171	208	0
DEC.										
06...	1200	7.0	23	5	300	7.3	12	125	152	0
JAN.										
08...	1400	2.0	15	7	314	8.1	2.1	136	166	0
FEB.										
06...	1830	7.0	20	5	304	8.0	2.4	125	152	0
MAR.										
12...	1915	11.0	361	40	182	7.6	3.3	67	82	0
APR.										
16...	1330	10.5	26	7	285	8.2	1.5	119	145	0
MAY										
16...	1130	17.0	40	9	250	7.3	10	105	128	--
JUNE										
18...	1845	21.0	4.2	3	330	7.9	3.8	156	190	--
JULY										
24...	1730	23.0	2.2	50	220	7.5	5.9	96	117	--
SEP.										
05...	1745	17.5	7.6	0	340	7.9	3.8	155	189	0

03374470 Patoka River near English, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.										
24...	--	.01	--	--	.04	--	200	28	67	7.6
DEC.										
06...	.01	.70	.71	--	.02	--	160	37	54	6.4
JAN.										
08...	.01	.54	.55	--	.00	--	150	17	53	5.1
FEB.										
06...	.01	.61	.62	--	.00	--	150	23	51	5.0
MAR.										
12...	.00	.43	.43	--	.02	--	82	15	28	2.9
APR.										
16...	.00	.38	.38	.00	.01	.00	130	13	46	4.1
MAY										
16...	.01	.15	.16	.03	.01	.01	120	16	41	4.5
JUNE										
18...	.00	.47	.47	.03	.00	.01	180	29	64	6.0
JULY										
24...	.02	.49	.51	.00	.03	.00	120	20	40	3.9
SEP.										
05...	.00	.43	.43	.00	.01	.00	160	8	51	8.6

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.										
24...	3.9	.1	4	3.9	5.5	26	.2	5.9	140	70
DEC.										
06...	3.6	.1	5	1.7	3.3	29	.6	8.5	1300	0
JAN.										
08...	5.4	.2	7	1.2	3.9	27	.0	6.1	180	100
FEB.										
06...	3.3	.1	5	1.0	3.0	26	.4	6.5	250	110
MAR.										
12...	1.9	.1	5	1.6	1.7	19	.1	8.0	1100	100
APR.										
16...	2.8	.1	4	1.0	2.1	24	.2	6.6	440	10
MAY										
16...	2.7	.1	5	1.3	2.6	24	.1	7.0	200	10
JUNE										
18...	2.2	.1	3	1.2	3.2	25	.2	5.4	310	30
JULY										
24...	2.6	.1	4	4.4	2.6	17	1.7	4.1	750	60
SEP.										
05...	--	--	--	--	3.2	25	.1	8.1	310	80

03374470 Patoka River near English, Ind.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.									
24...	--	26	26	242	222	.20	.33	.10	--
DEC.									
06...	14	43	29	187	185	11.9	.25	3.1	.00
JAN.									
08...	0	38	38	210	186	8.51	.29	2.4	.00
FEB.									
06...	70	100	30	169	174	9.49	.23	2.7	.03
MAR.									
12...	80	80	0	103	106	100	.14	1.9	.00
APR.									
16...	2	35	33	173	160	12.1	.24	1.7	.00
MAY									
16...	25	50	25	160	147	17.3	.22	.66	.03
JUNE									
18...	4	33	29	233	203	2.64	.32	2.1	.00
JULY									
24...	55	80	25	174	136	1.03	.24	2.2	.07
SEP.									
05...	10	40	30	208	--	4.27	.28	1.9	.00

03374470 Patoka River near English, Ind.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	19.0	11.5	9.0	9.5	9.0	3.5	3.0	9.5	8.5	9.5	8.5
2	20.5	19.0	11.5	10.0	9.5	9.0	3.0	3.0	9.5	9.0	12.0	9.5
3	20.5	18.5	11.5	10.5	10.0	8.5	3.0	2.0	9.5	8.0	13.0	12.0
4	21.0	19.5	11.5	10.0	11.0	9.5	3.0	2.5	8.0	6.0	14.0	13.0
5	21.0	18.0	10.0	8.5	10.5	9.5	3.5	3.0	6.0	5.0	14.0	13.0
6	18.0	15.0	8.5	6.5	9.5	7.5	3.5	3.0	7.0	6.0	13.0	11.0
7	19.0	16.5	8.5	7.0	7.5	6.5	4.0	3.5	7.5	6.5	14.5	12.0
8	20.5	18.5	8.0	6.5	6.5	5.5	3.5	3.0	6.5	5.5	14.5	13.0
9	21.0	18.0	8.0	6.5	6.0	5.0	5.0	3.5	5.5	4.5	14.0	13.5
10	21.5	18.0	6.5	4.5	5.5	4.0	6.0	5.0	4.5	4.5	14.0	12.0
11	21.0	17.0	6.5	4.0	4.0	3.0	6.5	6.0	5.0	3.5	12.0	11.0
12	20.5	18.0	8.5	6.5	4.0	2.5	6.0	4.5	6.0	4.0	---	---
13	18.5	18.0	10.5	7.0	4.5	4.0	4.5	4.0	8.0	6.0	---	---
14	20.0	17.0	13.5	10.0	5.0	4.5	5.5	4.5	8.0	7.0	---	---
15	19.5	16.0	14.0	12.5	5.0	4.0	7.0	5.5	8.0	6.5	---	---
16	16.5	12.0	12.5	9.5	4.5	3.5	8.5	7.0	7.5	6.0	---	---
17	14.0	10.0	9.5	7.5	3.5	2.5	9.5	8.5	7.5	5.5	---	---
18	14.5	10.5	9.5	8.5	3.0	2.0	10.5	9.5	7.0	5.5	---	---
19	14.5	10.5	11.0	9.5	3.0	2.0	10.5	10.5	8.0	6.5	---	---
20	15.0	12.0	12.0	10.0	4.0	2.5	11.0	10.5	8.0	7.0	---	---
21	14.5	10.5	12.5	10.5	4.0	3.5	11.0	10.5	9.0	7.5	---	---
22	14.5	10.5	11.5	9.5	5.0	3.0	11.0	9.5	9.5	8.5	---	---
23	14.5	10.5	11.5	10.5	7.5	5.0	11.5	10.0	8.5	7.5	---	---
24	15.5	11.5	13.0	11.5	9.5	7.5	10.5	9.0	8.5	6.5	---	---
25	16.0	12.0	13.5	13.0	9.5	8.5	9.5	8.0	6.5	4.5	---	---
26	14.5	11.0	13.0	10.5	8.5	7.5	10.5	8.5	5.5	4.5	---	---
27	13.5	11.5	13.5	12.5	8.0	7.0	11.0	10.5	7.5	5.0	---	---
28	13.0	11.0	13.0	11.5	8.0	7.0	11.0	10.0	9.0	7.5	---	---
29	11.0	9.0	11.5	9.5	7.0	6.5	10.5	9.5	---	---	---	---
30	10.5	9.5	10.0	9.0	6.5	5.0	9.5	8.5	---	---	---	---
31	10.0	9.0	---	---	5.0	3.5	10.0	9.0	---	---	---	---
MONTH	21.5	9.0	14.0	4.0	11.0	2.0	11.5	2.0	9.5	3.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	16.0	15.0	23.5	20.5	---	---	---	---
2	---	---	---	---	16.0	14.5	24.0	21.5	---	---	---	---
3	---	---	---	---	17.0	15.5	25.5	22.0	---	---	---	---
4	---	---	---	---	18.0	16.0	24.0	22.5	---	---	---	---
5	---	---	---	---	18.0	17.5	24.0	22.0	---	---	---	---
6	---	---	---	---	19.0	17.5	24.0	22.0	---	---	---	---
7	---	---	---	---	19.5	19.0	24.0	21.5	---	---	---	---
8	---	---	---	---	20.5	19.5	25.5	22.5	---	---	---	---
9	---	---	---	---	21.5	19.5	26.5	22.5	---	---	---	---
10	---	---	---	---	21.0	20.5	26.0	22.0	---	---	---	---
11	---	---	---	---	20.5	19.0	26.0	22.0	---	20.5	---	---
12	---	---	---	---	20.5	18.5	26.5	21.5	23.0	21.0	---	---
13	---	---	---	---	19.5	17.5	24.5	20.5	23.5	21.5	---	---
14	---	---	---	---	19.5	18.0	25.5	21.5	24.0	21.5	---	---
15	---	---	---	---	21.0	19.0	26.0	23.0	24.0	22.0	---	---
16	---	---	---	---	19.5	18.0	25.5	21.0	24.5	22.5	---	---
17	---	---	19.5	18.0	19.0	17.0	25.5	21.0	24.0	22.5	---	---
18	---	---	20.5	19.0	20.0	16.5	25.5	20.5	24.5	22.5	---	---
19	---	---	20.5	19.5	21.0	18.5	24.5	23.0	24.0	21.0	---	---
20	---	---	21.5	20.0	22.0	19.5	25.5	22.0	23.5	20.5	---	---
21	---	---	21.0	18.5	22.0	21.0	24.0	22.5	---	21.0	---	---
22	---	---	18.5	17.0	21.5	21.0	22.5	21.0	24.0	21.5	---	---
23	---	---	18.5	16.5	21.5	20.5	22.0	21.0	24.0	22.0	---	---
24	---	---	19.0	18.0	20.5	19.0	23.5	20.0	24.0	21.5	---	---
25	---	---	18.5	17.5	19.0	18.0	23.5	19.5	25.0	21.0	---	---
26	---	---	17.5	17.0	19.0	17.0	24.5	21.0	---	22.0	---	---
27	---	---	18.0	16.0	20.0	17.0	25.0	21.0	---	22.5	---	---
28	---	---	18.5	16.5	19.0	18.0	25.0	21.5	22.5	22.0	---	---
29	---	---	18.5	18.0	21.0	18.0	25.5	21.5	22.0	21.0	---	---
30	---	---	18.0	16.5	21.5	19.0	23.5	19.0	21.5	20.5	---	---
31	---	---	17.0	15.5	---	---	22.0	18.0	---	---	---	---
MONTH	---	---	---	---	22.0	14.5	26.5	18.0	---	---	---	---
YEAR	26.5	2.0										

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, 2.9 miles (4.7 km) upstream from Dillon Creek, and 4 miles (6 km) east of Dubois.

DRAINAGE AREA.--171 mi^2 (443 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--13 years, 210 ft^3/s (5.947 m^3/s), 16.68 in/yr (424 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Nov. 27, gage height, 12.89 ft (3.929 m); minimum daily, 0.56 ft^3/s (0.016 m^3/s) Oct. 27.

Period of record: Maximum discharge, 14,700 ft^3/s (416 m^3/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^3/s (348 m^3/s).

REMARKS.--Records good.

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	2.8	1.9	261	344	280	210	250	239	1,560	9.3	4.7	119
2	1.5	3.2	155	233	229	200	717	190	1,530	8.1	4.7	99
3	.98	3.9	123	187	195	192	1,060	203	1,230	7.0	7.6	87
4	3.2	4.3	145	162	162	182	1,310	196	324	6.1	19	81
5	2.8	4.3	215	145	140	221	832	158	212	6.1	14	69
6	1.9	3.9	190	131	131	740	412	129	225	7.0	9.9	50
7	1.2	4.7	137	121	135	993	322	108	324	7.0	9.3	36
8	.76	5.2	108	110	129	623	900	101	324	7.6	8.1	26
9	.76	4.7	93	277	116	376	1,490	157	275	6.6	8.1	21
10	1.2	4.7	81	681	108	430	1,420	303	145	6.6	87	18
11	1.5	5.2	70	1,100	95	997	1,030	192	104	14	178	27
12	1.2	4.7	65	905	89	1,480	387	150	79	18	152	133
13	1.2	6.1	67	401	85	1,500	313	152	63	8.6	173	369
14	1.5	12	70	295	81	1,300	242	116	50	6.6	53	883
15	1.9	7.6	67	355	74	663	196	269	39	4.7	23	424
16	2.2	5.6	67	673	69	765	165	311	34	9.9	14	160
17	1.9	4.3	62	632	63	644	151	208	18	7.0	9.9	105
18	1.9	3.5	55	399	60	426	134	160	22	4.7	13	81
19	1.5	3.5	50	1,110	189	337	120	126	22	3.5	14	63
20	1.2	3.5	168	1,410	333	287	109	116	22	3.5	9.3	50
21	1.2	30	337	1,630	311	454	97	145	22	3.5	8.6	43
22	1.2	43	311	1,520	778	488	401	839	27	3.5	7.6	37
23	.98	34	210	1,390	1,130	367	855	528	70	6.1	6.1	30
24	.98	112	328	1,210	873	313	593	274	55	11	4.7	26
25	.76	464	822	795	404	290	313	160	41	8.6	4.7	23
26	.76	1,040	887	530	300	284	215	114	27	7.0	3.9	22
27	.56	1,760	1,090	1,260	253	261	176	89	18	6.1	3.5	22
28	.76	1,770	866	1,150	230	231	148	75	14	5.2	20	57
29	.98	1,610	592	803	------	218	126	70	11	5.2	196	1,070
30	1.2	1,000	790	480	------	239	185	324	11	6.1	847	913
31	1.5	------	560	353	------	273	------	1,320	------	6.1	387	------
TOTAL	43.98	7,959.8	9,042	20,792	7,042	15,984	14,669	7,522	6,898	220.3	2,300.7	5,144
MEAN	1.42	265	292	671	252	516	489	243	230	7.11	74.2	171
MAX	3.2	1,770	1,090	1,630	1,130	1,500	1,490	1,320	1,560	18	847	1,070
MIN	.56	1.9	50	110	60	182	97	70	11	3.5	3.5	18
CFSM	.008	1.55	1.71	3.92	1.47	3.02	2.86	1.42	1.35	.04	.43	1.00
IN.	.009	1.73	1.97	4.52	1.53	3.48	3.19	1.64	1.50	.05	.50	1.12

CAL YR 1973 TOTAL 108,069.38 MEAN 296 MAX 2,130 MIN .56 CFSM 1.73 IN 23.51
WTR YR 1974 TOTAL 97,617.78 MEAN 267 MAX 1,770 MIN .56 CFSM 1.56 IN 21.24

PEAK DISCHARGE (BASE, 1,200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-27	0800	12.89	1,890	03-12	1900	11.94	1,540	06-01	0500	12.13	1,580
01-21	1400	12.58	1,680	04-04	0800	11.15	1,380	09-29	1500	10.38	1,230
01-27	1100	11.29	1,410	04-09	0600	11.85	1,520				

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, and 3.3 miles (5.3 km) northeast of Jasper.

DRAINAGE AREA.--262 mi^2 (679 km^2).

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 1,500 ft^3/s (42.5 m^3/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.--26 years (1948 to current year), 351 ft^3/s (9.940 m^3/s), 18.19 in/yr (462 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,050 ft^3/s (58.1 m^3/s) Jan. 23, gage height, 14.64 ft (4.462 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 27, 28.

Period of record: Maximum discharge, 14,100 ft^3/s (399 m^3/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^3/s (453 m^3/s).

REMARKS.--Records fair. Flow partially regulated by Beaver Creek Reservoir. (See sta 03375200).

REVISIONS (WATER YEARS).--WSP 1909: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	4.0	1,870	752	665	323	345	429	1,220	19	4.8	611
2	5.1	2.9	1,460	454	426	317	423	385	1,410	18	10	231
3	18	3.7	617	315	338	306	914	314	1,570	15	26	316
4	23	4.0	280	255	276	274	1,110	297	1,650	13	17	178
5	11	4.5	291	216	225	286	1,270	265	1,500	13	7.4	108
6	6.3	5.0	310	189	197	545	1,320	211	825	12	9.4	77
7	4.8	5.5	260	167	193	1,010	881	164	602	10	7.2	55
8	4.0	5.8	195	150	190	1,140	939	135	882	10	5.6	40
9	3.9	11	154	220	173	1,090	1,280	140	827	10	4.8	33
10	3.7	5.5	128	609	153	807	1,480	204	473	18	11	28
11	3.6	4.5	111	1,030	135	929	1,630	315	266	23	73	26
12	8.8	11	97	1,170	122	1,290	1,660	225	175	25	204	31
13	5.6	5.3	96	1,180	114	1,480	1,410	168	125	26	163	125
14	3.4	4.0	100	717	108	1,650	684	161	94	17	155	526
15	3.4	4.3	103	491	97	1,740	378	276	76	11	46	814
16	10	7.8	100	734	89	1,690	286	426	63	9.1	23	451
17	12	10	95	921	82	1,530	253	371	53	9.7	14	187
18	11	7.4	86	849	78	1,260	217	297	45	13	9.7	112
19	5.0	6.0	77	1,380	146	820	188	222	39	8.8	7.4	77
20	3.4	5.3	100	1,570	437	522	162	163	44	7.2	11	58
21	3.9	26	306	1,840	477	627	138	317	43	7.2	9.1	46
22	4.2	61	456	2,020	677	794	305	778	50	6.1	6.7	37
23	11	76	439	2,030	1,070	696	734	920	113	5.5	6.1	33
24	4.8	105	455	1,950	1,240	545	927	636	107	4.8	5.6	28
25	8.8	413	975	1,860	1,280	466	717	333	71	4.6	4.6	24
26	4.2	971	1,150	1,720	812	439	406	199	53	7.8	4.0	22
27	2.5	1,260	1,280	1,550	442	408	293	131	39	7.8	3.7	22
28	2.5	1,470	1,350	1,490	366	363	235	96	31	6.7	8.1	49
29	7.4	1,720	1,380	1,550	------	327	192	101	26	6.3	251	724
30	3.7	1,920	1,230	1,540	------	308	195	309	21	6.0	1,010	1,070
31	8.8	------	1,060	1,210	------	325	------	968	------	5.5	1,060	------
TOTAL	213.3	8,139.5	16,611	32,129	10,608	24,307	20,972	9,956	12,493	356.1	3,178.2	6,139
MEAN	6.88	271	536	1,036	379	784	699	321	416	11.5	103	205
MAX	23	1,920	1,870	2,030	1,280	1,740	1,660	968	1,650	26	1,060	1,070
MIN	2.5	2.9	77	150	78	274	138	96	21	4.6	3.7	22
CFSM	.03	1.03	2.05	3.95	1.45	2.99	2.67	1.23	1.59	.04	.39	.78
IN.	.03	1.16	2.36	4.56	1.51	3.45	2.98	1.41	.77	.05	.45	.87

CAL YR 1973 TOTAL 161,522.4 MEAN 443 MAX 2,340 MIN 2.1 CFSM 1.69 IN 22.93
WTR YR 1974 TOTAL 145,102.1 MEAN 398 MAX 2,030 MIN 2.5 CFSM 1.52 IN 20.60

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, and 3.3 miles (5.3 km) north of St. Anthony.

DRAINAGE AREA.--21.8 mi^2 (56.5 km^2).

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.

EXTREMES.--Current year: Maximum discharge, 584 ft^3/s (16.5 m^3/s) Nov. 26, gage height, 11.38 ft (3.469 m); minimum daily, 0.01 ft^3/s (0.000 m^3/s) Oct. 26.
Period of record: Maximum discharge, 584 ft^3/s (16.5 m^3/s) Apr. 12, 1972, gage height, 11.43 ft (3.484 m); minimum daily, no flow for many days in most years.

REMARKS.--Records good.

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	3.6	.61	7.9	8.5	20	18	34	42	71	1.2	.18	4.6
2	.64	.32	6.6	7.0	18	18	70	30	31	1.1	.23	14
3	12	.18	5.9	5.8	15	17	160	27	17	.95	17	9.2
4	.98	.14	5	5.2	12	16	101	20	12	.86	4.6	5.3
5	.22	.14	3	4.9	11	30	50	16	46	1.7	2.1	3.2
6	.12	.16	9.1	4.6	12	135	39	13	42	1.1	1.7	2.1
7	.07	.18	7.1	4.3	13	68	32	10	98	1.3	1.5	1.5
8	.05	.14	6.6	4.0	11	36	280	13	116	.86	1.4	1.2
9	.05	.12	6.2	53	9.9	28	97	13	100	.78	1.3	.99
10	.09	.12	5.4	163	9.6	52	51	10	33	17	6.1	1.1
11	.06	.12	3.8	69	8.9	189	38	8.5	18	8.1	13	2.0
12	.04	.10	4.7	15	9.2	195	31	7.3	14	3.0	3.0	28
13	.07	.10	18	8.9	9.2	89	25	5.9	9.7	.95	1.8	20
14	.56	.12	6.9	11	8.1	61	21	5.3	7.3	.78	1.3	14
15	.23	.18	6.5	58	7.4	61	17	48	5.9	1.7	1.1	5.0
16	.13	.26	5.0	59	7.5	86	16	12	4.2	1.7	.87	4.3
17	.09	.23	4.5	35	6.9	57	16	8.8	3.3	.71	.81	3.6
18	.06	.16	4.0	19	6.9	45	13	10	2.6	.52	.76	2.5
19	.04	.16	3.5	250	50	37	12	7.0	2.4	.41	.76	1.7
20	.04	.16	47	300	35	33	9.7	5.3	3.7	.41	.70	1.5
21	.04	12	13	180	27	102	9.1	52	3.0	.37	.65	1.3
22	.04	1.4	12	100	147	56	106	55	2.4	.33	.56	1.1
23	.03	1.6	20	150	67	43	47	25	47	.29	.51	.81
24	.02	28	113	89	42	40	28	13	5.3	.33	.51	.70
25	.02	68	118	53	26	43	21	7.8	3.0	.29	.47	.65
26	.01	306	94	118	21	30	17	5.6	2.4	.26	.47	.61
27	.02	137	45	143	21	24	14	4.0	2.0	.26	.47	5.3
28	.02	86	16	101	19	22	12	3.0	1.7	.23	44	64
29	.02	15	78	65	------	20	10	7.0	1.5	.26	72	232
30	.02	11	18	42	------	24	64	46	1.3	.26	98	35
31	.08	------	13	27	------	19	------	288	------	.20	8.2	------
TOTAL	19.46	669.70	726.7	2,153.2	650.6	1,694	1,440.8	818.5	706.7	48.21	286.05	467.26
MEAN	.63	22.3	23.4	69.5	23.2	54.6	48.0	26.4	23.6	1.56	9.23	15.6
MAX	12	306	118	300	147	195	280	288	116	17	98	232
MIN	.01	.10	3.5	4.0	6.9	16	9.1	3.0	1.3	.20	.18	.61
CFSM	.03	1.02	1.07	3.19	1.06	2.50	2.20	1.21	1.08	.07	.42	.72
IN.	.03	1.14	1.24	3.67	1.11	2.89	2.46	1.40	1.21	.08	.49	.80

CAL YR 1973 TOTAL 9,778.70 MEAN 26.8 MAX 438 MIN .01 CFSM 1.23 IN 16.69
WTR YR 1974 TOTAL 9,681.18 MEAN 26.5 MAX 306 MIN .01 CFSM 1.22 IN 16.52

PEAK DISCHARGE (BASE, 400 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1615	11.38	584	05-31	1245	9.82	444
04-03	1815	10.14	480	08-29	2345	10.04	424
04-08	1245	10.48	518	09-29	0315	10.34	502

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, and 6.2 miles (10.0 km) east of junction of State Highways 56 and 61.

DRAINAGE AREA.--21.3 mi^2 (55.2 km^2).

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.--10 years, 20.2 ft^3/s (0.572 m^3/s), 12.88 in/yr (327 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Jan. 19, gage height, 11.33 ft (3.453 m); minimum daily, 0.53 ft^3/s (0.015 m^3/s) Oct. 22, 27.
Period of record: Maximum discharge, 1,320 ft^3/s (37.4 m^3/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).

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

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	8.4	1.3	6.2	11	18	20	11	6.4	35	2.6	2.0	6.0
2	2.1	.95	5.6	8.3	17	32	14	8.0	19	2.7	13	4.6
3	14	.80	5.1	7.6	14	23	18	10	13	1.9	71	5.1
4	3.3	.75	16	6.6	10	16	18	6.5	11	2.7	5.9	3.8
5	1.4	1.0	13	5.8	10	34	8.5	4.7	12	2.6	2.7	2.8
6	1.2	1.3	6.3	5.2	14	95	7.2	3.7	27	2.6	2.3	2.6
7	.85	1.3	4.5	4.9	16	45	6.8	3.3	22	2.7	1.9	2.5
8	.80	1.1	4.1	4.5	11	25	466	3.9	27	2.4	1.8	2.8
9	.70	.90	3.9	30	9.8	28	63	5.5	22	1.8	1.8	3.0
10	1.2	.95	3.7	55	9.2	82	26	4.5	13	78	38	3.2
11	1.1	.80	3.4	44	8.3	211	16	5.0	10	44	13	4.0
12	1.2	.75	3.6	16	7.9	109	14	6.5	9.1	6.4	10	5.7
13	1.2	.70	4.0	11	8.2	37	11	3.7	7.7	4.6	3.7	8.7
14	1.8	.75	3.9	10	7.9	25	9.1	3.2	7.4	3.9	2.6	6.4
15	1.2	30	3.6	53	7.9	30	6.3	33	7.4	3.3	2.3	3.0
16	1.1	11	3.0	106	8.5	55	11	9.0	7.0	2.7	2.0	3.3
17	.95	3.2	3.0	98	7.9	28	28	6.0	6.8	2.5	1.8	3.3
18	.80	2.7	3.1	86	7.4	23	12	7.0	6.3	2.7	2.4	2.9
19	.75	2.5	3.3	614	40	20	8.8	8.4	11	2.8	2.2	2.8
20	.80	2.5	4.5	189	30	18	6.8	5.1	25	2.8	2.2	5.1
21	.66	19	5.1	98	20	103	6.8	204	8.8	2.9	2.0	3.7
22	.53	4.6	4.0	43	70	28	69	348	55	3.3	1.7	2.8
23	.61	3.1	5.6	67	37	17	25	36	57	2.7	2.0	1.5
24	.90	41	136	39	25	17	12	17	6.9	2.3	1.9	.87
25	.85	75	378	30	20	19	8.8	11	4.9	1.9	1.5	.79
26	.57	180	187	74	18	17	7.4	8.0	3.9	2.0	1.8	.89
27	.53	56	100	82	28	13	5.9	6.8	3.4	1.5	2.0	2.1
28	.66	45	33	42	28	12	5.5	6.2	3.0	1.2	25	115
29	.70	12	45	33	------	13	4.9	16	2.7	1.8	85	151
30	.61	7.7	25	27	------	22	5.4	53	2.7	2.3	55	8.3
31	.66	------	16	21	------	14	------	239	------	2.1	6.2	------
TOTAL	52.13	508.65	1,038.5	1,921.9	509.0	1,231	912.2	1,088.4	447.0	199.7	366.7	368.55
MEAN	1.68	17.0	33.5	62.0	18.2	39.7	30.4	35.1	14.9	6.44	11.8	12.3
MAX	14	180	378	614	70	211	466	348	57	78	85	151
MIN	.53	.70	3.0	4.5	7.4	12	4.9	3.2	2.7	1.2	1.5	.79
CFSM	.08	.80	1.57	2.91	.85	1.86	1.43	1.65	.70	.30	.55	.58
IN.	.09	.89	1.81	3.36	.89	2.15	1.59	1.90	.78	.35	.64	.64

CAL YR 1973 TOTAL 9,759.44 MEAN 26.7 MAX 597 MIN .53 CFSM 1.25 IN 17.04
WTR YR 1974 TOTAL 8,643.73 MEAN 23.7 MAX 614 MIN .53 CFSM 1.11 IN 15.10

PEAK DISCHARGE (BASE, 450 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1300	9.99	511	03-11	1300	10.03	523	05-31	0800	9.83	471
12-25	0200	10.45	771	04-08	1200	11.04	880	09-28	2400	10.34	618
01-19	0600	11.33	1,010	05-21	2200	11.04	880				

03376300 Patoka River at Winslow, Ind.

LOCATION.--Lat 38°22'48", long 87°13'00", in SW¼SW¼ sec.32, T.1 S., R.7 W., Pike County, on right bank at abandoned bridge abutment, 65 ft (20 m) upstream from bridge on State Highway 61, 100 ft (30 m) downstream from dam of Winslow Water Company, and 41.3 miles (66.5 km) above mouth.

DRAINAGE AREA.--603 mi^2 (1,562 km^2).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued). Discharge measurements and gage readings June 1961 to Sept. 1963, obtained by Indiana Flood Control and Water Resources Commission, are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Nov. 21, 1963, nonrecording gage on downstream side of bridge 65 ft (20 m) downstream at same datum.

AVERAGE DISCHARGE.--11 years, 678 ft^3/s (19.20 m^3/s), 15.27 in/yr (388 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,580 ft^3/s (101 m^3/s) Jan. 29, gage height, 23.76 ft (7.242 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Nov. 1, 2, 6.

Period of record: Maximum discharge, 15,500 ft^3/s (439 m^3/s) Mar. 13, 1964, gage height, 28.84 ft (8.790 m); minimum daily, 0.5 ft^3/s (0.014 m^3/s) Aug. 5, 1964.

Flood in January 1937 reached a stage of 28.9 ft (8.81 m), from floodmarks, information from Indiana Flood Control and Water Resources Commission.

REMARKS.--Records poor. An average 0.13 ft^3/s (0.004 m^3/s) is diverted for municipal water supply 100 ft (30 m) above gage.

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	19	10	1,750	1,610	2,990	1,320	763	686	1,540	80	13	1,360
2	29	10	1,700	1,600	2,690	1,220	668	784	1,540	68	16	1,360
3	30	13	1,600	1,570	2,410	1,060	767	832	1,550	54	74	1,290
4	37	12	1,500	1,490	2,170	917	1,060	774	1,570	49	265	1,100
5	54	11	1,200	1,330	1,930	810	1,100	661	1,580	44	265	600
6	61	10	1,000	1,050	1,630	894	1,150	532	1,670	39	80	300
7	50	11	800	748	1,300	1,210	1,200	435	1,720	36	50	213
8	39	13	500	478	970	1,270	1,870	365	1,750	33	38	164
9	30	15	380	392	700	1,300	2,290	337	1,780	30	30	130
10	24	15	320	610	489	1,390	2,240	329	1,770	30	65	110
11	19	14	260	936	362	1,610	2,230	310	1,740	35	203	93
12	16	13	220	1,030	303	1,980	2,180	338	1,690	100	320	88
13	24	14	190	1,090	269	2,030	2,140	381	1,540	140	295	128
14	20	13	168	1,150	243	2,000	2,090	340	1,270	150	277	177
15	17	12	155	1,230	217	2,000	2,040	449	929	94	261	274
16	15	11	148	1,340	200	2,080	2,000	706	579	70	250	602
17	14	12	143	1,420	184	2,120	1,970	714	314	50	194	730
18	18	13	134	1,450	174	2,160	1,840	742	208	44	150	508
19	21	12	128	2,110	225	2,180	1,610	742	171	41	113	284
20	22	11	125	2,330	445	2,170	1,320	621	175	33	93	181
21	20	15	126	2,590	593	2,290	1,020	698	168	30	70	130
22	18	20	207	2,780	870	2,300	922	1,730	175	30	53	100
23	16	70	309	2,870	1,110	2,270	1,080	1,700	385	28	42	87
24	15	150	463	2,960	1,180	2,130	1,130	1,610	526	26	33	75
25	14	500	1,240	3,040	1,220	1,980	1,140	1,510	413	23	28	66
26	18	1,500	1,400	3,130	1,260	1,840	1,140	1,400	290	21	24	60
27	16	1,600	1,570	3,310	1,310	1,650	1,100	1,170	200	20	22	56
28	15	1,700	1,550	3,480	1,350	1,440	948	855	150	19	60	110
29	14	1,800	1,580	3,540	------	1,240	736	538	120	18	152	716
30	12	1,800	1,610	3,460	------	1,050	548	604	100	15	965	1,140
31	11	------	1,630	3,250	------	896	------	1,190	------	13	1,370	------
TOTAL	728	9,400	24,106	59,374	28,794	50,807	42,290	24,083	27,613	1,463	5,871	12,232
MEAN	23.5	313	778	1,915	1,028	1,639	1,410	777	920	47.2	189	408
MAX	61	1,800	1,750	3,540	2,990	2,300	2,290	1,730	1,780	150	1,370	1,360
MIN	11	10	125	392	174	810	548	310	100	13	13	56
CFSM	.04	.52	1.29	3.18	1.70	2.72	2.34	1.29	1.53	.08	.31	.68
IN.	.04	.58	1.49	3.66	1.78	3.13	2.61	1.49	1.70	.09	.36	.75

CAL YR 1973 TOTAL 311,509.2 MEAN 853 MAX 5,060 MIN 2.1 CFSM 1.41 IN 19.22
WTR YR 1974 TOTAL 286,761.0 MEAN 786 MAX 3,540 MIN 10 CFSM 1.30 IN 17.69

NOTE.--No gage-height record Oct. 6 to Dec. 13.

03376350 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, and 3.1 miles (5.0 km) north of Spurgeon.

DRAINAGE AREA.--42.8 mi^2 (110.9 km^2).

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.--10 years, 43.5 ft^3/s (1.232 m^3/s), 13.80 in/yr (351 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Apr. 8, gage height, 10.67 ft (3.252 m); minimum daily, 4.[illegible] ft^3/s (0.12 m^3/s) Nov. 10.
Period of record: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Apr. 28, 1970, gage height, 12.79 ft (3.898 m); minimum daily, 2.3 ft^3/s (0.065 m^3/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.

REMARKS.--Records good. Some slight regulation by coal-washing operation and strip-mining above gage.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	29	41	40	34	39	80	148	16	6.7	24
2	5.0	7.2	25	36	41	33	45	63	87	14	19	23
3	56	6.3	23	33	36	32	147	48	60	14	110	23
4	9.1	6.3	44	29	32	30	114	34	49	14	20	15
5	6.3	10	33	27	30	51	59	30	103	14	12	12
6	9.6	6.3	23	25	33	213	45	26	141	15	9.4	10
7	16	5.0	21	24	30	103	41	22	99	16	8.3	9.7
8	15	5.0	18	23	27	62	536	43	94	13	8.3	10
9	13	4.7	17	71	25	52	181	42	70	12	8.2	15
10	6.5	4.2	17	176	26	67	103	29	50	24	64	19
11	6.0	4.5	17	104	24	261	74	24	43	21	28	13
12	5.5	5.4	15	52	23	295	66	23	39	17	18	46
13	15	6.3	18	47	23	115	56	18	29	13	12	30
14	11	5.4	15	38	21	73	50	15	26	13	9.6	23
15	8.0	7.7	17	80	20	92	44	162	28	14	7.8	15
16	6.5	6.3	15	130	21	117	50	56	26	11	7.0	14
17	5.4	4.7	14	90	20	70	50	60	24	10	6.9	13
18	5.4	4.7	13	70	20	58	41	75	21	10	18	11
19	5.0	5.8	12	200	86	49	38	58	42	9.6	7.8	10
20	5.0	5.0	40	250	48	45	34	41	59	14	7.1	11
21	5.8	51	59	150	54	207	36	196	44	13	6.6	11
22	6.7	11	52	90	166	83	165	316	108	9.6	6.0	9.3
23	5.4	29	40	130	74	62	80	136	83	9.1	6.1	9.4
24	5.0	94	227	80	56	63	49	73	37	8.6	6.5	8.8
25	5.0	132	303	60	43	59	40	50	30	8.1	6.0	9.1
26	5.0	331	251	150	41	54	35	43	26	7.7	5.4	9.5
27	4.7	165	155	160	43	47	32	38	23	7.7	6.2	49
28	5.4	149	77	90	39	44	29	34	20	7.7	23	119
29	5.8	52	128	69	------	44	26	79	17	8.1	194	168
30	5.8	35	70	54	------	48	106	254	17	7.2	115	44
31	18	------	54	47	------	40	------	418	------	6.7	32	------
TOTAL	291.9	1,175.8	1,842	2,626	1,142	2,603	2,411	2,586	1,643	378.1	794.9	783.8
MEAN	9.42	39.2	59.4	84.7	40.8	84.0	80.4	83.4	54.8	12.2	25.6	26.1
MAX	56	331	303	250	166	295	536	418	148	24	194	168
MIN	4.7	4.2	12	23	20	30	26	15	17	6.7	5.4	8.8
CFSM	.22	.92	1.39	1.98	.95	1.96	1.88	1.95	1.28	.29	.60	.61
IN.	.25	1.02	1.60	2.28	.99	2.26	2.10	2.25	1.43	.33	.69	.68

CAL YR 1973 TOTAL 21,549.0 MEAN 59.0 MAX 621 MIN 3.7 CFSM 1.38 IN 18.73
WTR YR 1974 TOTAL 18,277.5 MEAN 50.1 MAX 536 MIN 4.2 CFSM 1.17 IN 15.89

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1300	9.16	915	04-08	1100	10.67	1,130	08-29	2100	8.11	785
12-24	2300	5.76	517	05-21	2200	7.56	719	09-28	2300	6.23	566
12-26	1700	6.32	576	05-31	0800	9.67	983				

03377500 Wabash River at Mount Carmel, Ill.

LOCATION.--Lat 38°24'07", long 87°45'10", in SE¼NW¼ sec.28, T.1 S., R.12 W., Wabash County, on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.1 mile (0.2 km) downstream from Patoka River, and at mile 94.5 (152.0 km).

DRAINAGE AREA.--28,635 mi^2 (74,165 km^2).

PERIOD OF RECORD.--January 1908 to September 1913 (gage heights only), October 1927 to current year. Gage-height records collected in this vicinity November 1874 to December 1878, are contained in files of Louisville office of the Corps of Engineers and since June 1884, are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 371.46 ft (113.221 m) above mean sea level. See WSP 1725 for history of changes prior to Sept. 30, 1949.

AVERAGE DISCHARGE.--47 years, 26,840 ft^3/s (760.0 m^3/s), 12.72 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 150,000 ft^3/s (4,250 m^3/s) Jan. 29, gage height, 25.53 ft (7.782 m); minimum daily, 6,760 ft^3/s (191 m^3/s) Oct. 30.

Period of record: Maximum discharge, 305,000 ft^3/s (8,640 m^3/s) May 25, 1943, maximum gage height, 28.62 ft (8.723 m) Feb. 5, 6, 1969; minimum daily discharge, 1,650 ft^3/s (46.7 m^3/s) Sept. 27, 28, 1941.

1874-78, 1884 to current year: Maximum discharge, 428,000 ft^3/s (12,100 m^3/s), from rating curve extended above 310,000 ft^3/s (8,780 m^3/s) Mar. 30, 1913, gage height, 31.0 ft (9.45 m), present site and datum.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

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

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	6,950	7,020	52,100	90,200	139,000	65,600	51,000	30,900	86,400	74,100	8,600	26,600
2	7,050	7,110	52,500	91,100	132,000	65,500	54,700	30,400	93,300	64,100	8,330	30,000
3	7,370	7,370	52,500	91,100	125,000	65,700	58,000	30,400	97,900	51,200	11,200	29,500
4	7,700	7,600	51,700	91,400	117,000	65,200	61,700	30,700	103,000	38,700	10,600	25,400
5	7,540	8,100	49,500	90,000	107,000	64,100	66,200	30,100	105,000	30,300	9,540	21,500
6	8,200	8,360	47,400	87,000	97,000	63,300	70,800	29,100	100,000	27,200	8,770	20,200
7	8,630	8,330	45,900	82,000	84,900	63,200	74,900	27,800	87,900	25,400	8,360	19,300
8	8,770	8,100	43,900	70,000	76,000	63,200	80,100	26,300	73,900	24,100	10,000	17,500
9	8,900	7,900	41,700	60,000	69,700	63,200	85,900	24,700	61,900	22,800	10,200	15,200
10	8,900	7,730	38,900	50,500	65,800	64,300	91,000	24,600	52,600	21,800	9,480	13,700
11	8,900	7,540	35,000	46,500	62,500	66,700	94,200	25,600	47,200	21,100	11,700	18,300
12	8,630	7,440	31,200	44,200	59,400	71,700	96,200	27,400	44,300	19,800	12,300	26,500
13	8,560	7,310	28,200	42,900	56,300	77,600	97,500	29,800	41,500	18,700	11,700	42,500
14	8,700	7,240	25,100	41,500	53,100	81,800	96,900	31,500	38,000	17,800	10,900	50,600
15	8,600	7,410	22,500	39,600	50,200	84,600	93,700	34,200	36,100	17,000	11,700	50,400
16	8,230	7,570	21,100	37,300	47,900	86,400	88,700	41,200	34,900	16,000	11,000	47,300
17	8,400	7,500	20,400	37,200	46,300	86,700	82,500	47,000	33,700	15,100	10,300	43,600
18	8,730	7,570	19,500	44,000	45,100	84,900	74,500	51,000	34,900	14,300	10,700	38,800
19	8,500	7,830	18,400	51,000	44,600	81,500	65,300	55,400	35,600	13,600	11,100	33,000
20	8,100	8,130	17,900	61,200	46,600	76,400	57,400	58,500	34,500	13,100	10,300	24,600
21	7,800	8,770	16,700	68,500	48,900	70,800	51,800	62,000	33,000	12,300	9,650	19,200
22	7,670	8,830	15,600	74,700	51,600	66,000	47,900	68,600	32,200	12,000	8,930	18,400
23	7,540	9,240	14,900	83,000	54,400	61,000	46,800	78,100	39,600	11,900	8,600	17,000
24	7,340	10,600	14,700	92,200	57,500	55,500	49,300	87,800	47,000	11,500	8,330	15,000
25	7,210	18,600	22,000	103,000	60,400	50,700	50,300	96,200	51,800	10,900	8,060	13,200
26	7,080	30,100	39,200	116,000	62,700	47,400	47,700	102,000	55,000	10,400	7,900	12,100
27	7,020	42,100	55,800	130,000	64,300	45,300	42,400	103,000	58,200	10,100	7,570	11,500
28	6,890	48,300	64,400	141,000	65,400	43,600	37,100	102,000	62,600	9,780	8,160	11,600
29	6,790	50,700	69,800	148,000	------	42,500	33,700	95,800	69,600	9,580	15,800	17,700
30	6,760	51,600	76,300	149,000	------	42,700	31,900	85,000	75,300	9,240	24,000	26,900
31	6,850	------	84,100	145,000	------	46,500	------	81,400	------	9,100	27,600	------
TOTAL	244,310	432,000	1,188.9M	2,499.1M	1,990.6M	2,013.6M	1,980.1M	1,648.5M	1,766.9M	663,000	341,380	757,100
MEAN	7,881	14,400	38,350	80,620	71,090	64,950	66,000	53,180	58,900	21,390	11,010	25,240
MAX	8,900	51,600	84,100	149,000	139,000	86,700	97,500	103,000	105,000	74,100	27,600	50,600
MIN	6,760	7,020	14,700	37,200	44,600	42,500	31,900	24,600	32,200	9,100	7,570	11,500
CFSM	.28	.50	1.34	2.82	2.48	2.27	2.30	1.86	2.06	.75	.38	.88
IN.	.32	.56	1.54	3.25	2.59	2.62	2.57	2.14	2.30	.86	.44	.98

CAL YR 1973 TOTAL 13,773,010 MEAN 37,730 MAX 115,000 MIN 6,760 CFSM 1.32 IN 17.89
WTR YR 1974 TOTAL 15,525,490 MEAN 42,540 MAX 149,000 MIN 6,760 CFSM 1.49 IN 20.17

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^2 (591 km^2).

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.--34 years, 218 ft^3/s (6.174 m^3/s), 12.98 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,100 ft^3/s (87.8 m^3/s) Dec. 28, gage height, 19.25 ft (5.867 m); no flow for several days.

Period of record: Maximum discharge, 7,500 ft^3/s (212 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	.5	1,150	800	52	657	256	282	1,550	65	0	45
2	3.0	0	348	400	38	580	308	179	1,570	55	1.2	58
3	3.7	1.0	80	250	32	359	269	141	1,510	42	797	64
4	3.5	2.2	134	150	28	205	183	100	1,210	34	532	30
5	3.4	2.2	359	120	23	391	148	75	678	28	84	13
6	3.2	1.0	330	100	36	681	96	58	669	22	22	6.8
7	4.9	.7	126	80	44	583	88	46	1,000	18	11	3.6
8	4.9	1.2	58	70	42	216	1,210	42	1,350	15	7.8	1.8
9	4.2	2.3	42	56	34	128	1,680	47	1,480	12	5.7	.67
10	3.4	2.3	33	176	31	715	2,000	39	1,290	9.8	55	63
11	2.8	1.7	27	261	31	941	1,760	38	874	37	60	.43
12	2.4	1.3	23	120	32	1,130	1,270	57	220	11	54	115
13	5.2	1.3	21	80	34	1,210	545	42	52	5.8	37	244
14	34	1.4	19	50	35	1,010	212	40	35	4.7	19	112
15	70	2.9	17	150	33	495	172	549	173	4.0	9.4	38
16	32	4.4	16	470	32	442	157	402	50	3.5	6.1	15
17	15	2.4	15	812	31	417	298	169	35	3.0	5.1	8.1
18	8.1	2.6	16	1,150	30	248	505	109	24	2.7	4.4	4.9
19	5.0	1.6	16	1,430	344	167	272	385	23	2.4	3.6	3.2
20	3.7	1.2	22	1,570	675	127	138	347	143	2.2	34	2.0
21	2.9	30	24	1,700	826	477	101	254	1,290	2.0	23	1.2
22	2.0	38	29	1,530	1,310	614	143	1,200	1,210	1.9	10	.60
23	1.4	29	33	1,420	1,340	431	235	1,330	1,160	2.0	5.3	.40
24	.88	423	189	1,180	1,320	197	169	1,290	1,080	1.2	2.8	.30
25	.50	1,280	1,530	782	998	173	122	952	917	.60	1.3	.20
26	.50	1,950	2,210	318	416	196	93	227	408	.10	.44	.10
27	.50	2,670	3,000	637	313	193	78	32	106	0	.28	.40
28	.30	2,620	3,060	630	584	142	66	24	92	0	1.1	109
29	.10	2,280	2,850	502	------	157	60	25	84	0	21	969
30	0	1,740	2,440	393	------	344	160	532	76	0	28	872
31	.30	------	1,500	138	------	455	------	1,380	------	0	59	------
TOTAL	225.48	13,094.2	19,717	17,525	8,744	14,081	12,794	10,393	20,359	384.90	1,900.52	2,719.33
MEAN	7.27	436	636	565	312	454	426	335	679	12.4	61.3	90.6
MAX	70	2,670	3,060	1,700	1,340	1,210	2,000	1,380	1,570	65	797	969
MIN	0	0	15	50	23	127	60	24	23	0	0	.10
CFSM	.03	1.91	2.79	2.48	1.37	1.99	1.87	1.47	2.98	.05	.27	.40
IN.	.04	2.14	3.22	2.86	1.43	2.30	2.09	1.70	3.32	.06	.31	.44

CAL YR 1973 TOTAL 133,187.52 MEAN 365 MAX 3,060 MIN 0 CFSM 1.60 IN 21.73
WTR YR 1974 TOTAL 121,937.43 MEAN 334 MAX 3,060 MIN 0 CFSM 1.46 IN 19.90

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^2 (269 km^2).

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.--9 years, 110 ft^3/s (3.115 m^3/s), 14.36 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,700 ft^3/s (76.5 m^3/s) May 31, gage height, 18.39 ft (5.605 m); minimum daily, 0.15 ft^3/s (0.004 m^3/s) Oct. 24.
Period of record: Maximum discharge, 5,370 ft^3/s (152 m^3/s) Apr. 28, 1970, gage height, 19.18 ft (5.846 m); no flow at times most years.

REMARKS.--Records good.

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	47	.80	15	43	75	51	55	86	800	9.5	.29	13
2	97	.93	11	37	71	49	48	61	203	8.3	22	5.9
3	46	.58	9.0	30	53	44	64	105	90	6.7	704	3.9
4	20	.48	11	24	41	38	135	37	58	5.3	77	2.6
5	3.2	.63	16	21	38	52	42	27	76	4.6	7.0	1.9
6	1.2	.63	8.3	20	41	656	33	21	73	3.9	3.9	1.7
7	.69	.58	5.3	18	38	278	36	15	583	3.2	2.9	1.5
8	.58	.53	4.5	16	33	124	1,650	20	340	2.9	2.3	1.4
9	.53	.44	4.5	86	29	88	1,050	23	654	2.3	1.8	1.1
10	.44	.40	4.5	212	27	166	192	15	164	7.6	112	1.2
11	.40	.36	3.7	164	24	672	124	15	84	64	246	1.4
12	.36	.36	3.3	64	26	1,130	101	16	62	6.8	38	1.4
13	4.0	.36	4.5	47	26	224	73	8.7	46	3.0	6.8	7.2
14	18	.36	4.3	39	21	130	57	8.0	38	2.2	2.4	17
15	4.0	.40	4.3	162	18	122	41	295	221	1.8	2.3	4.6
16	1.4	.36	4.5	230	19	250	44	73	60	1.6	2.0	1.8
17	.58	.32	3.9	279	18	125	51	54	32	1.2	1.0	1.4
18	.29	.29	3.0	211	17	99	38	107	24	1.1	.80	1.1
19	.22	.36	3.5	513	75	82	33	40	113	1.0	1.2	1.0
20	.25	.40	7.6	428	64	78	27	26	236	7.6	.80	.93
21	.22	7.0	7.6	558	57	884	28	51	398	1.8	.74	.80
22	.19	12	6.3	176	253	198	111	285	115	1.0	.63	.74
23	.17	37	9.7	246	147	128	64	72	96	.80	1.2	.53
24	.15	183	125	163	101	98	35	44	40	.74	1.1	.48
25	.17	261	937	115	71	106	29	26	30	.63	1.0	.48
26	.17	1,210	627	326	62	110	26	19	23	.63	.69	.48
27	.17	254	845	1,300	77	82	22	14	19	.53	.48	.48
28	.22	160	174	251	71	73	18	10	15	.44	118	98
29	.22	46	225	187	------	74	15	13	13	.40	701	825
30	.19	22	159	130	------	75	58	1,990	11	.32	1,110	41
31	.48	------	78	103	------	65	------	2,600	------	.29	52	------
TOTAL	248.49	2,201.57	3,325.3	6,199	1,593	6,351	4,300	6,176.7	4,717	152.18	3,221.33	1,040.02
MEAN	8.02	73.4	107	200	56.9	205	143	199	157	4.91	104	34.7
MAX	97	1,210	937	1,300	253	1,130	1,650	2,600	800	64	1,110	825
MIN	.15	.29	3.0	16	17	38	15	8.0	11	.29	.29	.48
CFSM	.08	.71	1.03	1.92	.55	1.97	1.38	1.91	1.51	.05	1.00	.33
IN.	.09	.79	1.19	2.22	.57	2.27	1.54	2.21	1.69	.05	1.15	.37

CAL YR 1973 TOTAL 56,896.23 MEAN 156 MAX 2,380 MIN .15 CFSM 1.50 IN 20.35
WTR YR 1974 TOTAL 39,525.59 MEAN 108 MAX 2,600 MIN .15 CFSM 1.04 IN 14.14

PEAK DISCHARGE (BASE, 2,400 FT^3/S).--Apr. 8 (2100) 2,420 ft^3/s (17.89 ft); May 31 (1500) 2,700 ft^3/s (18.39 ft).

04087500 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^2 (183.1 km^2).

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 Indiana Flood Control and Water Resources Commission). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft (366 m) upstream from base gage, at same datum.

AVERAGE DISCHARGE.--32 years, 58.4 ft^3/s (1.654 m^3/s), 11.22 in/yr (285 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) May 18, gage height, 5.59 ft (1.704 m); minimum daily, 4.8 ft^3/s (0.14 m^3/s) Aug. 7.
Period of record: Maximum discharge, 2,670 ft^3/s (75.6 m^3/s) Apr. 28, 1959; maximum gage height, 7.83 ft (2.387 m) Oct. 11, 1954; minimum daily discharge, 1.6 ft^3/s (0.045 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	9.6	34	111	74	160	43	44	15	7.0	6.2
2	18	16	8.7	27	72	72	113	36	40	199	7.8	7.0
3	7.0	10	8.7	24	56	77	203	33	30	42	8.7	9.6
4	11	8.7	73	22	40	163	367	28	25	29	7.0	11
5	6.2	7.8	70	20	40	213	275	25	22	21	6.2	7.8
6	5.5	7.8	37	19	34	141	194	24	58	18	5.5	7.8
7	9.0	7.0	24	18	33	160	132	23	148	17	4.8	7.0
8	6.2	7.8	20	18	30	157	98	137	275	40	5.5	7.0
9	6.2	7.8	18	17	25	205	74	141	362	24	5.5	7.0
10	7.0	7.8	15	16	23	211	60	81	244	18	27	7.8
11	6.2	7.8	12	16	22	160	114	86	132	15	174	7.8
12	6.2	7.8	10	16	25	126	208	86	84	12	51	65
13	86	8.7	82	17	29	114	225	64	56	10	28	78
14	36	8.7	49	16	34	90	199	76	43	10	19	27
15	15	8.7	32	17	32	72	166	157	34	9.6	14	15
16	10	7.8	24	20	30	70	103	138	27	8.7	12	10
17	8.7	7.0	20	20	30	68	77	835	23	7.8	12	9.6
18	7.8	7.8	18	22	34	62	62	1,240	19	7.0	10	7.8
19	7.8	7.8	16	32	77	70	64	700	18	7.8	8.7	7.0
20	7.8	7.8	15	346	108	68	52	330	18	7.0	7.8	6.2
21	7.8	12	16	784	152	64	46	235	45	7.8	7.0	6.2
22	7.8	8.7	15	763	742	58	42	985	100	74	8.7	6.2
23	8.7	7.8	14	533	608	52	36	1,050	171	30	7.0	7.0
24	7.8	14	18	297	241	46	30	400	70	16	7.0	6.2
25	8.7	7.8	137	202	113	37	28	211	42	14	7.0	7.8
26	9.6	7.8	225	199	90	36	28	132	30	11	7.0	7.0
27	21	7.8	205	390	79	33	25	95	23	7.8	7.0	7.8
28	12	32	143	303	79	34	30	74	19	7.0	6.2	19
29	9.6	15	95	171	------	62	50	66	16	6.2	6.2	64
30	10	12	56	141	------	219	54	60	14	6.2	7.0	16
31	17	------	48	149	------	258	------	49	------	5.5	6.2	------
TOTAL	409.6	302.5	1,534.0	4,669	2,989	3,272	3,315	7,640	2,232	703.4	497.8	458.8
MEAN	13.2	10.1	49.5	151	107	106	111	246	74.4	22.7	16.1	15.3
MAX	86	32	225	784	742	258	367	1,240	362	199	174	78
MIN	5.5	7.0	8.7	16	22	33	25	23	14	5.5	4.8	6.2
CFSM	.19	.14	.70	2.14	1.51	1.50	1.57	3.48	1.05	.32	.23	.22
IN.	.22	.16	.81	2.46	1.57	1.72	1.74	4.02	1.17	.37	.26	.24

CAL YR 1973 TOTAL 26,809.7 MEAN 73.5 MAX 1,050 MIN 4.8 CFSM 1.04 IN 14.11
WTR YR 1974 TOTAL 28,023.1 MEAN 76.8 MAX 1,240 MIN 4.8 CFSM 1.09 IN 14.74

PEAK DISCHARGE (BASE, 800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	2300	3.82	877	05-1[illegible]	0700	5.59	1,540
02-22	2300	3.80	870	05-2[illegible]	0300	5.26	1,400

04087600 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^2 (233 km^2). 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.--16 years, 68.2 ft^3/s (1.931 m^3/s), 10.29 in/yr (261 mm/yr).

EXTREMES.--Current year: Maximum discharge, 874 ft^3/s (24.8 m^3/s) May 18, gage height, 13.21 ft (4.026 m); minimum daily, 7.7 ft^3/s (0.22 m^3/s) Sept. 1.
Period of record: Maximum discharge, 1,510 ft^3/s (42.8 m^3/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^3/s (0.054 m^3/s) Aug. 20, 1964.

REMARKS.--Records good. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	32	16	60	187	126	212	60	91	22	12	7.7
2	47	26	14	48	144	113	161	49	77	220	13	8.4
3	17	20	13	44	115	102	219	45	67	128	13	11
4	34	17	115	40	87	172	403	38	59	87	11	12
5	17	15	129	37	70	240	361	33	53	67	11	9.2
6	13	14	62	33	60	188	282	30	122	52	10	9.0
7	17	13	42	30	55	191	210	28	592	41	9.8	8.6
8	14	13	35	29	51	201	165	136	667	42	9.6	8.2
9	14	12	31	27	50	225	129	160	530	59	9.4	8.1
10	14	12	26	26	45	223	104	101	420	34	16	8.4
11	12	12	22	25	39	165	156	103	278	27	170	8.1
12	13	12	21	23	35	143	229	98	201	21	113	84
13	159	12	116	23	37	127	239	80	150	18	66	201
14	76	12	82	24	41	97	238	79	117	16	49	61
15	29	13	53	25	41	87	208	163	95	15	38	34
16	20	11	40	25	37	91	149	218	72	14	31	26
17	16	9.8	34	28	36	87	112	606	58	12	30	20
18	14	11	30	33	39	87	93	835	50	12	24	16
19	13	11	44	51	79	106	94	655	45	12	18	14
20	11	11	50	276	129	84	77	478	41	12	15	12
21	10	17	31	585	147	75	63	381	91	11	13	11
22	10	12	25	615	531	67	55	578	149	92	15	10
23	10	11	20	534	569	57	48	708	220	66	11	11
24	10	24	29	429	387	47	43	539	130	33	9.6	9.8
25	9.4	13	151	338	247	39	39	383	83	26	8.8	9.6
26	9.0	11	293	298	188	40	37	287	62	21	8.6	9.4
27	23	11	293	397	157	38	34	220	47	16	8.8	8.6
28	30	47	229	390	139	49	40	174	38	14	9.0	11
29	14	23	159	288	------	72	73	153	31	12	8.8	108
30	15	19	99	233	------	203	72	132	26	11	8.6	34
31	36	------	83	218	------	265	------	108	------	10	7.9	------
TOTAL	751.4	476.8	2,387	5,232	3,742	3,807	4,345	7,658	4,662	1,223	777.9	789.1
MEAN	24.2	15.9	77.0	169	134	123	145	247	155	39.5	25.1	26.3
MAX	159	47	293	615	569	265	403	835	667	220	170	201
MIN	9.0	9.8	13	23	35	38	34	28	26	10	7.9	7.7
CFSM	.27	.18	.86	1.88	1.49	1.37	1.61	2.74	1.72	.44	.28	.29
IN.	.31	.20	.99	2.16	1.55	1.57	1.80	3.17	1.93	.51	.32	.33

CAL YR 1973 TOTAL 33,744.0 MEAN 92.4 MAX 796 MIN 7.7 CFSM 1.03 IN 13.95
WTR YR 1974 TOTAL 35,851.2 MEAN 98.2 MAX 835 MIN 7.7 CFSM 1.09 IN 14.82

04090500 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 (1.6 km) downstream from North Creek, and at mile 4.25 (6.84 km).

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--May 1948 to current year.

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.--26 years, 97.5 ft^3/s (2.761 m^3/s), 12.73 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,970 ft^3/s (84.1 m^3/s) June 7, gage height, 14.36 ft (4.377 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Nov. 11.
Period of record: Maximum discharge, 4,700 ft^3/s (133 m^3/s) July 13, 1957, gage height, 16.00 ft (4.877 m); minimum daily, 4.4 ft^3/s (0.12 m^3/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^3/s (119 m^3/s).

REMARKS.--Records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 ft^3/s (0.45 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	91	37	77	163	120	231	83	76	49	30	28
2	111	54	30	66	126	114	162	72	68	84	39	29
3	50	42	27	62	106	112	244	70	63	76	35	31
4	54	34	228	58	86	246	802	61	59	51	28	33
5	40	32	282	54	82	314	471	53	68	43	28	32
6	32	31	118	51	75	200	296	52	200	39	29	31
7	37	31	76	47	70	210	196	53	2,470	36	28	32
8	31	30	66	44	65	221	151	294	1,420	57	30	30
9	33	31	60	42	61	270	124	217	1,020	220	34	30
10	33	28	56	41	56	238	109	124	629	64	42	31
11	28	26	50	44	55	166	229	142	314	48	79	31
12	45	29	50	40	65	162	284	148	203	43	42	115
13	404	33	242	38	79	140	199	108	148	38	30	205
14	171	32	163	41	73	112	220	98	118	41	29	65
15	73	40	94	46	63	112	182	214	151	41	29	40
16	54	36	72	55	61	121	134	333	100	35	31	35
17	46	34	67	57	61	114	110	1,670	84	33	31	34
18	44	33	62	59	68	109	98	1,780	76	33	29	33
19	42	29	54	97	146	150	120	840	90	36	30	33
20	39	30	57	582	158	116	96	404	75	34	33	34
21	38	47	56	1,250	172	104	83	290	214	33	30	35
22	35	38	56	842	958	96	79	1,050	334	160	31	35
23	35	31	54	634	818	86	73	1,180	446	96	37	33
24	39	73	58	386	310	73	66	474	183	51	32	32
25	37	52	418	273	173	69	62	234	116	41	31	34
26	38	39	629	269	138	69	61	163	91	38	33	33
27	54	40	517	660	120	68	58	128	77	33	34	35
28	71	121	347	447	122	89	70	108	69	28	34	34
29	42	64	213	261	------	116	134	112	62	28	35	160
30	38	46	132	203	------	379	109	104	53	29	34	49
31	94	------	101	199	------	368	------	87	------	29	30	------
TOTAL	2,003	1,277	4,472	7,025	4,530	4,864	5,253	10,746	9,077	1,667	1,047	1,412
MEAN	64.6	42.6	144	227	162	157	175	347	303	53.8	33.8	47.1
MAX	404	121	629	1,250	958	379	802	1,780	2,470	220	79	205
MIN	28	26	27	38	55	68	58	52	53	28	28	28
CFSM	.62	.41	1.38	2.18	1.56	1.51	1.68	3.34	2.91	.52	.33	.45
IN.	.72	.46	1.60	2.51	1.62	1.74	1.88	3.84	3.25	.60	.37	.51

CAL YR 1973 TOTAL 49,275 MEAN 135 MAX 1,410 MIN 24 CFSM 1.30 IN 17.63
WTR YR 1974 TOTAL 53,373 MEAN 146 MAX 2,470 MIN 26 CFSM 1.40 IN 19.09

PEAK DISCHARGE (BASE, 900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	1245	10.73	1,380	05-17	2130	13.73	2,540
02-22	2115	10.08	1,220	05-23	0100	11.07	1,470
04-04	0915	8.63	906	06-07	1430	14.36	2,970

04091000 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 21.66 (34.85 km).

DRAINAGE AREA.--205 mi^2 (531 km^2).

PERIOD OF RECORD.--October 1947 to current year.

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.--27 years, 174 ft^3/s (4.928 m^3/s), 11.53 in/yr (293 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) May 16, gage height, 17.45 ft (5.319 m), from floodmark; minimum daily, 37 ft^3/s (1.05 m^3/s) Sept. 9.

Period of record: Maximum discharge, 4,440 ft^3/s (126 m^3/s) July 14, 1957, gage height, 20.11 ft (6.130 m); minimum daily, 7.9 ft^3/s (0.22 m^3/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^3/s (135 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	202	71	188	438	254	557	175	179	92	53	39
2	189	106	62	181	339	230	412	146	154	407	74	38
3	86	88	58	146	275	220	475	135	135	290	65	43
4	112	70	336	124	213	414	1,270	123	126	185	52	51
5	78	62	556	111	197	656	1,000	108	118	148	44	46
6	56	60	269	100	170	451	716	98	377	126	48	43
7	66	57	158	92	165	420	519	94	2,420	107	48	42
8	55	57	125	92	153	472	403	434	2,480	106	49	40
9	56	55	112	92	132	552	324	483	1,780	334	53	37
10	53	52	102	87	125	518	268	296	1,290	135	62	40
11	50	49	87	86	117	371	404	289	756	103	272	40
12	65	49	82	78	121	326	611	308	526	85	226	187
13	589	54	418	77	149	301	532	235	388	75	140	622
14	385	52	342	80	148	223	556	222	300	69	112	199
15	127	60	196	82	136	194	499	442	315	73	95	103
16	85	57	143	96	130	230	371	654	227	60	108	75
17	73	48	123	111	126	223	286	1,980	185	56	94	67
18	65	49	113	104	131	211	233	2,840	164	55	74	56
19	59	48	94	164	240	309	262	1,920	170	59	62	52
20	55	49	102	812	351	261	214	1,080	154	62	61	49
21	50	71	100	,780	346	236	180	780	371	56	54	49
22	49	58	100	,730	1,490	215	163	1,330	541	240	52	49
23	51	46	91	,340	1,670	194	147	1,780	819	281	62	46
24	47	103	91	964	908	169	130	1,120	441	121	50	47
25	45	85	550	728	487	147	123	680	266	89	47	46
26	47	58	972	654	363	147	116	505	195	76	48	44
27	73	57	890	1,130	296	139	111	395	158	64	47	43
28	131	199	686	1,010	272	161	124	315	134	56	46	44
29	64	132	473	694	------	227	252	289	120	50	45	366
30	61	86	305	547	------	607	222	280	104	51	47	143
31	118	------	227	500	------	738	------	211	------	48	44	------
TOTAL	3,152	2,219	8,034	13,980	9,688	9,816	11,480	19,747	15,393	3,759	2,334	2,746
MEAN	102	74.0	259	451	346	317	383	637	513	121	75.3	91.5
MAX	589	202	972	1,780	1,670	738	1,270	2,840	2,480	407	272	622
MIN	45	46	58	77	117	139	111	94	104	48	44	37
CFSM	.50	.36	1.26	2.20	1.69	1.55	1.87	3.11	2.50	.59	.37	.45
IN.	.57	.40	1.46	2.54	1.76	1.78	2.08	3.58	2.79	.68	.42	.50

CAL YR 1973 TOTAL 94,570 MEAN 259 MAX 2,450 MIN 31 CFSM 1.26 IN 17.16
WTR YR 1974 TOTAL 102,348 MEAN 280 MAX 2,840 MIN 37 CFSM 1.37 IN 18.57

NOTE.--No gage-height record for part of May 17 and 18.

04093000 Deep River at Lake George Outlet at Hobart, Ind.

LOCATION.--Lat 41°32'10", long 87°15'25", in NW¼NW¼ 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^2 (321 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft (122 m) upstream at datum 11.80 ft (3.597 m) higher.

AVERAGE DISCHARGE.--27 years, 101 ft^3/s (2.860 m^3/s), 11.06 in/yr (281 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Jan. 22, gage height, 10.41 ft (3.173 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Sept. 27.
Period of record: Maximum discharge, 3,880 ft^3/s (110 m^3/s) Oct. 11, 1954, gage height, 19.48 ft (5.938 m) present datum, site then in use; minimum daily, 4.2 ft^3/s (0.12 m^3/s) Sept. 14, 1948.

REMARKS.--Records good. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	39	27	83	264	155	273	95	131	33	15	12
2	18	39	27	72	220	129	258	84	112	148	17	13
3	18	32	24	56	184	114	220	74	95	230	18	17
4	19	27	35	48	146	117	326	65	80	129	17	17
5	17	25	67	43	120	210	409	58	69	75	15	16
6	16	21	64	36	109	203	371	51	74	53	14	15
7	16	20	50	31	91	223	286	49	112	43	14	14
8	16	20	41	29	79	299	224	84	148	35	13	14
9	15	18	35	27	74	315	191	137	173	29	13	13
10	15	17	30	26	68	352	159	132	159	27	14	14
11	14	18	25	26	65	292	155	122	126	26	47	15
12	15	19	24	25	60	213	235	122	104	23	83	21
13	39	20	39	25	63	164	303	114	84	21	64	64
14	48	16	53	26	68	128	310	110	70	20	43	78
15	37	20	53	27	65	103	291	153	60	18	30	47
16	26	19	44	28	61	96	244	191	51	16	24	29
17	20	18	35	33	60	89	195	438	48	17	29	22
18	18	19	32	37	62	106	156	795	45	16	32	16
19	19	18	30	43	82	168	139	799	43	16	24	16
20	15	18	28	160	120	165	127	640	44	15	18	13
21	16	26	27	822	153	153	115	497	58	15	16	14
22	15	20	25	1,040	710	143	100	676	88	32	15	14
23	16	19	24	875	1,020	124	83	926	168	58	13	14
24	17	25	26	697	1,020	117	75	786	136	51	13	14
25	17	20	56	549	779	106	69	598	92	35	13	12
26	14	19	171	459	313	88	63	451	68	26	15	14
27	19	21	222	497	214	85	60	355	55	20	12	11
28	26	31	210	517	175	84	62	291	47	18	12	13
29	27	38	173	447	------	96	79	200	43	16	14	34
30	28	32	129	358	------	141	96	153	35	14	15	35
31	32	------	104	307	------	233	------	151	------	14	13	------
TOTAL	645	694	1,930	7,449	6,445	5,011	5,674	9,397	2,618	1,289	695	641
MEAN	20.8	3.1	62.3	240	230	162	189	303	87.3	41.6	22.4	21.4
MAX	48	39	222	1,040	1,020	352	409	926	173	230	83	78
MIN	14	16	24	25	60	84	60	49	35	14	12	11
CFSM	.17	.19	.50	1.94	1.85	1.31	1.52	2.44	.70	.34	.18	.17
IN.	.19	.21	.58	2.23	1.93	1.50	1.70	2.82	.79	.39	.21	.19

CAL YR 1973 TOTAL 51,389 MEAN 141 MAX 1,400 MIN 12 CFSM 1.14 IN 15.42
WTR YR 1974 TOTAL 42,488 MEAN 116 MAX 1,040 MIN 11 CFSM .94 IN 12.75

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-22	0200	10.41	1,100	05-18	2300	9.40	856
02-23	0300	10.15	1,040	05-23	1100	9.77	943

04093500 Burns ditch at Gary, Ind.

LOCATION.--Lat 41°34'30", long 87°17'20", in SE¼NW¼ 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.

DRAINAGE AREA.--160 mi^2 (414 km^2). During times of floods flow may leave the basin by flowing west through Little Calumet River into the western portion of Calumet River basin; or during times of floods on Hart ditch, flow may enter the basin from western portion of the Little Calumet River basin.

PERIOD OF RECORD.--October 1943 to current year (October 1950 to September 1955, and October 1973 to September 1974, high-water records only).

GAGE.--Water-stage recorder. Datum of gage is 577.04 ft (175.882 m) above mean sea level. Prior to July 28, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years (1943-50, 1955-1973), 139 ft^3/s (3.936 m^3/s), 11.80 in/yr (300 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) Jan. 22, gage height, 10.58 ft (3.225 m).
Period of record: Maximum discharge, 3,430 ft^3/s (97.1 m^3/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^3/s (0.074 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16								300				
17								600				
18								1,130				
19								1,100				
20				309				840				
21				855	250			720				
22				1,270	900			1,000				
23				1,260	1,200			1,220				
24				1,080	1,200			1,220				
25				886	1,000			1,110				
26				744	540			840				
27				729	340							
28				751	240							
29				692	------							
30				582	------							
31		------		513	------		------		------			------
TOTAL												
MEAN												
MAX												
MIN												

04094000 Little Calumet River at Porter, Ind.

LOCATION.--Lat 41°37'18", long 87°05'13", in NE¼NE¼ 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^2 (171.5 km^2)

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.--29 years, 71.1 ft^3/s (2.014 m^3/s), 14.59 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 752 ft^3/s (21.3 m^3/s) Jan. 21, gage height, 7.87 ft (2.399 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Sept. 1.
Period of record: Maximum discharge, 3,110 ft^3/s (88.1 m^3/s) Oct. 10, 1954, gage height, 11.66 ft (3.554 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Aug. 24, 1965.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1084: 1945. WSP 1337: 1946-47. WRD Ind. 1972: Drainage area.

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	45	73	46	53	90	117	118	74	52	38	30	26
2	47	58	43	50	73	103	93	66	46	69	34	27
3	45	51	41	55	65	99	89	60	44	59	33	29
4	49	44	52	46	58	112	325	57	41	46	31	29
5	54	41	90	43	53	225	356	52	38	45	31	28
6	47	39	71	41	50	172	240	51	48	40	30	28
7	45	38	57	40	47	142	152	48	52	38	30	28
8	45	38	45	39	46	141	115	84	77	37	30	28
9	45	36	41	39	45	153	95	115	101	34	29	27
10	44	35	40	39	45	155	82	83	77	33	29	27
11	43	36	40	39	46	113	87	79	57	33	35	27
12	43	36	43	40	47	102	128	105	53	31	35	37
13	72	36	69	41	51	88	128	86	46	31	32	74
14	81	37	98	51	54	76	128	77	42	30	31	45
15	56	37	68	48	49	74	158	156	50	30	30	35
16	45	38	54	48	47	84	107	184	42	29	30	32
17	41	38	46	51	48	79	86	229	39	29	31	31
18	38	37	43	50	51	74	76	344	41	28	30	30
19	35	38	41	56	76	85	74	230	40	31	28	30
20	34	37	39	134	96	82	67	145	38	29	28	30
21	35	41	38	570	106	77	63	96	77	28	28	31
22	34	45	39	510	411	78	61	103	94	38	27	32
23	33	41	40	374	450	72	54	197	165	52	28	32
24	34	41	44	284	216	64	54	148	100	36	28	31
25	33	41	78	185	135	57	53	88	67	32	27	30
26	34	40	167	147	92	58	54	69	56	32	28	30
27	36	39	168	219	84	63	52	59	49	31	27	31
28	47	53	150	237	106	64	53	54	47	30	28	33
29	43	70	107	145	------	67	77	57	43	30	27	90
30	46	53	77	109	------	79	88	56	40	29	27	75
31	53	------	65	107	------	115	------	57	------	29	27	------
TOTAL	1,382	1,287	2,040	3,890	2,737	3,070	3,313	3,309	1,762	1,107	919	1,063
MEAN	44.6	42.9	65.8	125	97.8	99.0	110	107	58.7	35.7	29.6	35.4
MAX	81	73	168	570	450	225	356	344	165	69	35	90
MIN	33	35	38	39	45	57	52	48	38	28	27	26
CFSM	.67	.65	.99	1.89	.48	1.50	1.66	1.62	.89	.54	.45	.53
IN.	.78	.72	1.15	2.19	1.54	1.73	1.86	1.86	.99	.62	.52	.60

CAL YR 1973 TOTAL 33,832 MEAN 92.7 MAX 950 MIN 28 CFSM 1.40 IN 19.01
WTR YR 1974 TOTAL 25,879 MEAN 70.9 MAX 570 MIN 26 CFSM 1.07 IN 14.54

PEAK DISCHARGE (BASE, 700 FT^3/S).--Jan. 21 (1800) 752 ft^3/s (7.87 ft).

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, and 1.5 miles (2.4 km) upstream from Little Calumet River.

DRAINAGE AREA.--74.6 mi^2 (193.2 km^2).

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 594.10 ft (181.082 • above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 25, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 71.4 ft^3/s (2.022 m^3/s), 13.00 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 989 ft^3/s (28.0 m^3/s) Jan. 21, gage height, 8.51 ft (2.594 m); minimum daily, 28 ft^3/s (0.79 m^3/s) Sept. 22, 25-27.
Period of record: Maximum discharge, 3,180 ft^3/s (90.1 m^3/s) Oct. 11, 1954, gage height, 14.12 ft (4.304 m); minimum daily, 14 ft^3/s (0.40 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	79	51	63	119	134	163	88	62	39	32	30
2	40	62	46	56	101	127	143	69	54	110	36	30
3	40	52	45	58	88	116	117	62	50	97	36	34
4	38	45	62	51	77	122	193	57	47	59	34	34
5	40	41	108	46	67	211	302	51	45	56	33	32
6	38	39	80	42	60	227	296	49	58	48	32	31
7	36	40	62	41	55	191	228	46	65	44	31	30
8	35	43	57	40	51	246	167	92	89	40	31	30
9	34	41	52	39	48	261	134	128	107	40	31	30
10	34	42	48	39	46	238	114	91	89	38	31	30
11	33	41	44	40	45	182	103	92	67	40	47	31
12	33	44	42	41	47	137	133	126	63	37	65	52
13	64	40	80	43	50	110	154	104	54	35	45	97
14	76	40	104	47	54	90	156	83	47	34	38	55
15	47	40	72	48	54	80	169	181	48	33	35	40
16	39	41	56	50	51	85	123	145	42	33	34	32
17	35	40	48	54	51	84	97	256	40	33	51	31
18	31	40	45	55	50	77	82	389	40	32	40	30
19	33	40	40	58	61	83	80	328	38	33	34	29
20	33	40	39	188	100	86	75	187	37	33	33	29
21	34	44	38	743	104	79	70	120	77	32	32	29
22	33	51	39	630	309	78	66	233	89	42	31	28
23	33	46	40	448	533	73	60	418	124	32	33	29
24	33	43	46	347	329	66	56	379	77	44	36	29
25	32	44	119	234	164	57	53	194	61	38	32	28
26	32	43	243	180	114	54	53	113	54	36	31	28
27	34	43	212	206	97	54	52	90	50	35	31	28
28	48	63	168	249	107	54	52	79	46	33	31	31
29	46	88	117	192	------	62	71	74	44	32	31	75
30	44	63	92	149	------	80	100	72	41	32	31	67
31	51	------	75	133	------	143	------	66	------	32	30	------
TOTAL	1,215	1,418	2,370	4,610	3,032	3,687	3,662	4,462	1,805	1,332	1,098	1,109
MEAN	39.2	47.3	76.5	149	108	119	122	144	60.2	43.0	35.4	37.0
MAX	76	88	243	743	533	261	302	418	124	110	65	97
MIN	31	39	38	39	45	54	52	46	37	32	30	28
CFSM	.53	.63	1.03	2.00	1.45	1.60	1.64	1.93	.81	.58	.47	.50
IN.	.61	.71	1.18	2.30	1.51	1.84	1.83	2.23	.90	.66	.55	.55

CAL YR 1973 TOTAL 34,898 MEAN 95.6 MAX 981 MIN 26 CFSM 1.28 IN 17.40
WTR YR 1974 TOTAL 29,800 MEAN 81.6 MAX 743 MIN 28 CFSM 1.09 IN 14.86

PEAK DISCHARGE (BASE, 600 FT^3/S).--Jan. 21 (1800) 989 ft^3/s (8.51 ft); Feb. 23 (0100) 643 ft^3/s (6.99 ft).

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^2 (140.1 km^2).

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.--5 years, 68.3 ft^3/s (1.934 m^3/s), 17.14 in/yr (435 mm/yr).

EXTREMES.--Current year: Maximum discharge, 674 ft^3/s (19.1 m^3/s) Jan. 21, gage height, 8.05 ft (2.454 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 26, 27.
Period of record: Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) Apr. 22, 1973, gage height, 10.66 ft (3.249 m); minimum daily, 21 ft^3/s (0.59 m^3/s) July 20, 1971.

REMARKS.--Records good.

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	32	80	39	51	76	77	109	78	60	51	34	28
2	36	57	37	50	69	75	89	70	57	58	40	28
3	34	53	38	52	65	79	108	68	55	48	38	29
4	40	46	63	54	61	113	392	67	53	52	35	29
5	38	44	86	62	58	183	224	63	51	49	37	28
6	31	43	54	62	58	115	147	61	61	44	35	28
7	32	40	47	62	63	106	107	59	62	41	33	28
8	31	34	46	60	55	99	93	120	72	40	33	28
9	30	34	43	58	55	124	82	121	87	40	33	28
10	30	34	41	55	53	105	75	85	68	45	33	28
11	29	34	39	48	54	86	83	92	58	42	37	28
12	30	35	38	45	55	88	103	141	60	38	37	55
13	77	35	43	50	61	77	98	95	55	37	33	116
14	58	36	50	52	63	70	101	87	109	36	33	44
15	37	37	51	54	57	71	97	222	306	35	32	33
16	33	38	43	56	54	84	79	189	108	34	35	31
17	32	37	36	55	56	77	71	341	74	34	46	31
18	34	37	35	53	59	72	67	253	72	35	35	31
19	34	37	34	62	90	88	78	178	74	37	33	29
20	32	36	34	200	96	79	71	118	70	35	32	29
21	32	49	34	588	99	75	65	96	179	33	32	29
22	32	41	34	279	398	80	64	132	190	47	32	29
23	32	38	35	237	218	75	61	138	211	48	32	28
24	32	39	36	146	108	67	59	94	93	39	32	28
25	33	41	111	105	80	59	58	78	73	37	30	28
26	33	39	178	95	70	65	58	70	64	37	29	27
27	36	40	155	158	68	67	58	66	61	35	28	27
28	47	70	110	124	75	67	61	64	58	34	28	28
29	42	63	80	98	------	70	90	63	56	34	28	70
30	49	44	63	87	------	77	91	62	53	33	28	42
31	58	------	55	86	------	128	------	61	------	33	28	------
TOTAL	1,156	1,291	1,788	3,244	2,374	2,698	2,939	3,432	2,650	1,241	1,031	1,045
MEAN	37.3	43.0	57.7	105	84.8	87.0	98.0	111	88.3	40.0	33.3	34.8
MAX	77	80	178	588	398	183	392	341	306	58	46	116
MIN	29	34	34	45	53	59	58	59	51	33	28	27
CFSM	.69	.79	1.07	1.94	1.57	1.61	1.81	2.05	1.63	.74	.62	.64
IN.	.79	.89	1.23	2.23	1.63	1.86	2.02	2.36	1.82	.85	.71	.72

CAL YR 1973 TOTAL 27,634 MEAN 75.7 MAX 788 MIN 26 CFSM 1.40 IN 19.00
WTR YR 1974 TOTAL 24,889 MEAN 68.2 MAX 588 MIN 27 CFSM 1.26 IN 17.11

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	0200	4.64	226	03-05	0600	4.36	203	05-17	1700	6.10	408
01-21	1400	8.05	674	04-04	0800	6.62	476	06-14	2300	5.89	389
02-22	1500	6.63	477	05-15	1000	4.99	274	06-22	2000	5.37	326

04096100 Galena River near LaPorte, Ind.

LOCATION.--Lat 41°44'54", long 86°40'30", in SE¼NW¼ 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 Court House in LaPorte.

DRAINAGE AREA.--17.2 mi^2 (44.5 km^2).

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.--5 years, 25.1 ft^3/s (0.711 m^3/s), 19.82 in/yr (503 mm/yr).

EXTREMES.--Current year: Maximum discharge, 180 ft^3/s (5.10 m^3/s) Jan. 21, gage height, 5.70 ft (1.737 m); minimum daily, 7.0 ft^3/s (0.20 m^3/s) Sept. 25.
Period of record: Maximum discharge, about 200 ft^3/s (5.66 m^3/s) Feb. 5, 1971 (gage height, unknown); minimum daily, 6.7 ft^3/s (0.19 m^3/s) Sept. 13, 1973.

REMARKS.--Records good.

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	16	51	22	25	34	29	37	22	14	12	9.5	7.3
2	17	31	20	22	30	28	30	18	13	13	11	9.0
3	17	26	21	21	29	29	34	18	14	12	10	10
4	21	20	35	23	27	38	119	18	12	14	9.8	9.0
5	23	17	45	25	25	60	66	17	10	15	12	8.2
6	17	15	30	25	25	41	47	16	14	12	12	7.6
7	18	15	28	25	27	36	40	15	16	11	11	7.3
8	17	14	27	25	28	34	35	42	19	11	11	8.2
9	17	15	25	23	21	41	29	38	29	9.7	9.5	7.8
10	15	14	22	22	22	35	26	27	17	11	9.3	7.8
11	16	14	21	20	20	34	29	35	16	11	12	8.2
12	15	14	20	20	22	34	38	51	18	9.5	13	27
13	31	16	24	21	24	27	31	33	14	11	11	36
14	34	16	27	22	24	24	32	29	13	15	9.5	18
15	23	15	31	23	22	26	30	65	67	12	9.5	14
16	19	14	26	23	21	31	24	58	31	11	10	11
17	18	14	23	23	21	28	22	92	26	12	15	9.0
18	17	14	20	23	23	26	21	59	26	12	12	7.7
19	16	14	18	29	35	31	30	48	25	11	12	7.5
20	16	14	17	68	37	27	23	35	23	9.8	10	10
21	17	18	16	163	36	26	21	30	31	8.5	9.0	10
22	20	16	16	98	105	27	18	42	36	10	9.3	9.5
23	18	16	17	89	61	26	17	41	57	12	8.5	8.2
24	17	17	25	57	37	23	17	30	34	10	8.0	7.7
25	16	18	50	45	29	25	16	22	25	9.5	8.7	7.0
26	16	18	74	42	26	23	16	20	20	9.0	8.0	7.2
27	17	17	64	74	26	23	15	17	20	8.2	8.0	8.2
28	25	37	49	54	29	23	16	16	18	8.0	8.2	13
29	23	35	38	44	------	24	28	15	16	8.2	7.3	32
30	25	25	32	39	------	25	29	15	14	8.5	8.7	28
31	29	------	29	39	------	39	------	15	------	9.0	7.8	------
TOTAL	606	580	912	1,252	866	943	936	999	688	335.9	310.6	361.4
MEAN	19.5	19.3	29.4	40.4	30.9	30.4	31.2	32.2	22.9	10.8	10.0	12.0
MAX	34	51	74	163	105	60	119	92	67	15	15	36
MIN	15	14	16	20	20	23	15	15	10	8.0	7.3	7.0
CFSM	1.13	1.12	1.71	2.35	1.80	1.77	1.81	1.87	1.33	.63	.58	.70
IN.	1.31	1.25	1.97	2.71	1.87	2.04	2.02	2.16	1.49	.73	.67	.78

CAL YR 1973 TOTAL 9,815.1 MEAN 26.9 MAX 133 MIN 6.7 CFSM 1.56 IN 21.23
WTR YR 1974 TOTAL 8,789.9 MEAN 24.1 MAX 163 MIN 7.0 CFSM 1.40 IN 19.01

PEAK DISCHARGE (BASE, 75 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-26	0300	3.81	91	04-04	0600	5.02	149
01-21	0500	5.70	180	05-17	1600	4.06	104
02-22	1300	4.50	126	06-15	1000	3.98	99

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^2 (45.3 km^2), of which 3.68 mi^2 (9.53 km^2) 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.--5 years, 6.79 ft^3/s (0.192 m^3/s), 5.27 in/yr (134 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29 ft^3/s (0.82 m^3/s) Apr. 3, gage height, 4.54 ft (1.384 m); minimum daily discharge, 0.04 ft^3/s (0.001 m^3/s) Aug. 8.
Period of record: Maximum discharge 29 ft^3/s (0.82 m^3/s) Apr. 3, 1974, gage height, 4.54 ft (1.384 m); no flow at times most years.

REMARKS.--Records fair.

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	1.2	1.4	5.8	9.8	14	15	22	12	17	6.1	.15	.15
2	1.6	1.6	5.9	9.5	14	15	24	12	16	6.0	.21	.14
3	2.0	1.6	5.5	9.2	14	16	25	12	16	2.9	.26	.24
4	2.2	1.6	5.6	9.0	14	18	28	12	15	.91	.19	.22
5	1.9	1.5	5.9	8.7	14	21	27	12	14	1.0	.12	.21
6	1.7	1.4	5.1	8.6	15	21	26	11	14	1.2	.10	.19
7	1.6	1.3	4.9	8.4	15	23	26	11	14	1.3	.07	.17
8	1.6	3.9	4.7	8.2	15	23	26	12	16	1.3	.04	.19
9	1.6	6.9	4.6	8.9	14	24	25	12	16	.85	.10	.19
10	1.6	6.3	4.4	9.0	14	25	24	12	15	.76	.14	.23
11	1.4	5.8	4.2	9.0	14	25	24	13	14	.68	.27	.31
12	1.7	5.4	4.2	9.0	14	24	25	14	14	.67	.26	1.5
13	2.2	5.1	4.6	8.8	13	24	25	14	13	1.1	.13	1.6
14	2.0	5.0	4.8	8.2	14	24	25	19	12	1.6	.12	1.4
15	1.4	4.8	4.7	8.1	14	24	24	24	11	1.5	.13	1.2
16	.95	4.5	4.7	8.0	13	24	23	24	10	1.3	.19	1.0
17	.76	4.4	4.4	7.8	13	23	23	26	9.8	1.0	.42	.97
18	.61	4.3	4.4	7.8	13	24	22	26	9.4	.18	.43	.83
19	.61	4.2	4.9	7.8	13	24	23	24	9.9	.16	.45	.84
20	.45	4.1	6.3	9.0	14	23	22	24	10	.29	.49	.68
21	.45	5.2	6.4	11	14	23	23	24	10	.56	.50	.60
22	.40	5.2	6.4	11	17	23	21	24	9.8	.56	.46	.49
23	.40	4.9	6.1	11	17	22	18	24	9.2	.66	.41	.42
24	.50	5.2	6.2	11	17	22	16	23	8.7	.73	.35	.41
25	.50	5.3	7.9	11	16	22	13	22	8.2	.82	.33	.29
26	.40	5.4	8.8	11	16	21	13	20	8.1	.75	.36	.34
27	.40	5.2	11	13	16	21	12	19	7.9	.62	.32	.39
28	.55	6.3	11	14	15	21	12	19	7.6	.40	.26	.50
29	.50	6.4	10	15	------	21	13	19	7.1	.34	.23	.47
30	.55	6.3	10	15	------	22	13	19	6.8	.22	.22	.41
31	.76	------	10	14	------	22	------	18	------	.16	.19	------
TOTAL	34.49	130.5	193.4	309.8	406	680	643	557	349.5	36.62	7.90	16.58
MEAN	1.11	4.35	6.24	9.99	14.5	21.9	21.4	18.0	11.7	1.18	.25	.55
MAX	2.2	6.9	11	15	17	25	28	26	17	6.1	.50	1.6
MIN	.40	1.3	4.2	7.8	13	15	12	11	6.8	.16	.04	.14
CFSM	.06	.25	.36	.57	.83	1.25	1.22	1.03	.67	.07	.01	.03
IN.	.07	.28	.41	.66	.86	1.45	1.37	1.18	.74	.08	.02	.04

CAL YR 1973 TOTAL 3,634.33 MEAN 9.96 MAX 24 MIN .40 CFSM .57 IN 7.73
WTR YR 1974 TOTAL 3,364.79 MEAN 9.22 MAX 28 MIN .04 CFSM .53 IN 7.15

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^2 (497 km^2).

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.--17 years, 157 ft^3/s (4.446 m^3/s), 11.10 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 449 ft^3/s (12.7 m^3/s) Feb. 26, gage height, 4.32 ft (1.317 m); minimum, 60 ft^3/s (1.70 m^3/s) Aug. 31, Sept. 1 (gage height, 2.09 ft (0.637 m).
Period of record: Maximum daily discharge, 600 ft^3/s (17.0 m^3/s) Jan. 30, 1969; minimum discharge, 26 ft^3/s (0.74 m^3/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^3/s (21.2 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	110	154	237	328	300	285	233	266	176	79	75
2	98	108	154	212	317	287	287	238	258	172	78	69
3	107	125	158	187	309	285	293	248	252	168	85	71
4	115	118	160	196	298	295	311	232	240	152	109	80
5	122	98	160	189	302	315	317	223	239	165	78	79
6	111	114	144	187	252	344	335	220	227	164	85	86
7	107	110	152	189	231	358	349	207	225	147	73	88
8	110	106	155	177	248	356	360	218	233	143	81	77
9	105	107	157	147	244	392	355	228	242	141	80	74
10	103	107	135	175	250	397	341	226	254	137	65	63
11	103	114	136	182	256	397	331	244	246	121	67	77
12	88	103	129	172	278	399	329	252	242	125	86	101
13	107	87	134	158	280	402	327	254	233	111	92	124
14	112	102	142	158	268	402	320	274	227	110	75	135
15	106	123	144	170	248	392	315	298	212	118	89	137
16	125	110	146	177	239	390	310	322	203	94	90	131
17	105	123	108	184	233	381	306	337	205	100	84	128
18	110	112	119	187	222	370	300	346	207	104	102	117
19	129	107	94	198	220	365	296	360	212	100	95	97
20	88	108	101	198	214	363	290	353	210	93	102	109
21	116	103	108	250	231	358	281	353	212	95	102	111
22	114	118	119	287	264	349	269	349	208	81	81	117
23	106	115	132	302	285	340	262	349	218	86	91	105
24	103	119	144	310	311	331	261	340	207	87	88	92
25	103	114	150	319	324	320	259	324	199	90	77	93
26	92	121	182	313	365	304	253	311	194	97	79	87
27	116	130	212	327	315	295	248	300	189	87	69	103
28	97	134	240	326	315	291	240	291	199	82	87	91
29	105	146	242	335	------	287	230	285	196	75	69	102
30	123	149	233	335	------	289	232	278	181	86	84	104
31	105	------	229	335	------	285	------	274	------	75	65	------
TOTAL	3,334	3,441	4,773	7,119	7,647	10,639	8,892	8,767	6,636	3,582	2,587	2,923
MEAN	108	115	154	230	273	343	296	283	221	116	83.5	97.4
MAX	129	149	242	335	365	402	360	360	266	176	109	137
MIN	88	87	94	147	214	285	230	207	181	75	65	63
CFSM	.56	.60	.80	1.20	1.42	1.79	1.54	1.47	1.15	.60	.43	.51
IN.	.65	.67	.92	1.38	1.48	2.06	1.72	1.70	1.29	.69	.50	.57

CAL YR 1973 TOTAL 71,428 MEAN 196 MAX 351 MIN 78 CFSM 1.02 IN 13.84
WTR YR 1974 TOTAL 70,340 MEAN 193 MAX 402 MIN 63 CFSM 1.01 IN 13.63

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. hydroelectric plant, 4 miles (6 km) upstream from Pigeon River, and at mile 96 (154 km).

DRAINAGE AREA.--1,866 mi^2 (4,833 km^2).

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 (1.3 m) higher.

AVERAGE DISCHARGE.--51 years, 1,522 ft^3/s (43.10 m^3/s), 11.08 in/yr (281 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,640 ft^3/s (188 m^3/s) Mar. 10, gage height, 7.87 ft (2.399 m); minimum, 132 ft^3/s (3.74 m^3/s) Aug. 17, gage height, 1.09 ft (0.332 m); minimum daily, 438 ft^3/s (12.4 m^3/s) Aug. 31.
Period of record: Maximum discharge, 10,700 ft^3/s (303 m^3/s) Apr. 27, 1950, gage height, 6.56 ft (2.00 m), site and datum then in use; minimum daily, 39 ft^3/s (1.10 m^3/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 1973 TO SEPTEMBE 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,260	1,690	2,590	4,500	3,700	3,660	2,700	2,710	1,810	860	685
2	1,180	1,230	1,570	2,560	4,070	3,740	3,840	2,640	2,700	1,840	663	618
3	1,660	685	1,560	2,360	3,830	3,660	3,940	2,620	2,620	1,920	670	932
4	1,480	1,150	1,790	2,230	3,870	3,780	4,270	2,510	2,390	1,670	640	836
5	1,670	1,350	1,720	2,230	3,430	4,200	4,430	2,460	2,390	1,780	958	860
6	1,070	1,420	1,690	2,210	3,070	4,660	4,450	2,430	2,400	1,640	1,260	852
7	1,280	1,290	1,770	2,250	2,910	5,220	4,420	2,380	2,510	1,660	820	565
8	1,680	1,520	1,530	2,230	2,660	5,260	4,440	2,510	2,310	1,530	994	508
9	1,220	1,040	1,620	2,010	2,730	5,650	4,380	2,530	2,320	1,710	994	884
10	1,260	908	1,610	1,930	2,870	6,400	4,280	2,570	2,480	1,210	618	976
11	1,390	924	1,600	1,940	2,700	6,480	4,110	2,690	2,620	1,670	663	924
12	1,380	1,260	1,400	2,000	2,700	6,450	4,080	2,790	2,280	1,160	1,180	994
13	1,040	958	1,500	2,290	2,710	6,200	4,120	2,840	2,380	1,330	967	1,110
14	1,040	1,320	1,460	1,930	2,740	5,970	3,940	3,060	2,390	1,160	1,080	678
15	1,580	1,020	1,600	1,840	2,690	5,610	3,830	3,350	1,980	1,420	1,250	678
16	1,430	1,280	1,440	1,840	2,580	5,340	3,700	3,630	2,200	1,350	1,620	916
17	1,140	1,070	1,370	1,870	2,530	4,960	3,620	3,990	2,300	1,250	618	958
18	1,270	860	1,230	1,920	2,320	4,690	3,440	4,530	2,100	1,020	588	985
19	1,720	1,530	1,540	2,000	2,430	4,530	3,360	5,070	2,200	1,030	565	884
20	1,120	1,200	1,350	2,020	2,460	4,260	3,140	5,170	2,210	693	487	1,050
21	1,170	1,280	1,020	2,720	2,170	4,140	3,150	5,030	2,190	685	595	804
22	1,130	700	860	3,360	2,940	3,950	3,120	4,750	2,420	1,360	1,280	625
23	1,030	1,790	1,420	4,090	3,270	3,950	3,060	4,420	2,330	1,350	1,160	924
24	1,080	949	1,490	4,280	3,540	3,790	2,880	4,090	2,190	985	932	844
25	958	788	1,520	4,520	3,980	3,380	2,850	3,680	2,260	958	740	796
26	1,280	1,460	1,970	4,740	3,950	3,730	2,760	3,470	2,240	1,130	994	828
27	1,050	1,600	2,160	4,560	3,980	3,120	2,680	3,260	2,130	708	932	844
28	603	1,380	2,570	4,690	3,950	3,330	2,650	3,110	2,100	655	852	640
29	1,290	1,490	2,730	4,720	------	3,130	2,560	3,070	1,970	976	852	648
30	1,390	1,800	2,880	4,710	------	3,240	2,780	2,810	2,010	1,120	756	952
31	1,360	------	2,710	4,620	------	3,370	------	2,710	------	655	438	------
TOTAL	39,241	36,512	52,370	89,260	87,580	139,890	107,940	102,870	69,330	39,435	27,026	24,798
MEAN	1,266	1,217	1,689	2,879	3,128	4,513	3,598	3,318	2,311	1,272	872	827
MAX	1,720	1,800	2,880	4,740	4,500	6,480	4,450	5,170	2,710	1,920	1,620	1,110
MIN	603	685	860	1,840	2,170	3,120	2,560	2,380	1,970	655	438	508
CFSM	.68	.65	.91	1.54	1.68	2.42	1.93	1.78	1.24	.68	.47	.44
IN.	.78	.73	1.04	1.78	1.75	2.79	2.15	2.05	1.38	.79	.54	.49

CAL YR 1973 TOTAL 784,541 MEAN 2,149 MAX 4,700 MIN 603 CFSM 1.15 IN 15.64
WTR YR 1974 TOTAL 816,252 MEAN 2,236 MAX 6,480 MIN 438 CFSM 1.20 IN 16.27

04099500 Pigeon Creek and Hogback Lake near Angola, Ind.

LOCATION.--Lat 41°37'24", long 85°05'44", in NE¼NW¼ sec.36, T.37 N., R.12 E., Steuben County, on right bank 200 ft (61 m) north of lake outlet, 2 miles (3.2 km) southeast of Flint, and 5.1 miles (8.2 km) west of Angola.

DRAINAGE AREA.--103 mi^2 (267 km^2), of which 22.5 mi^2 (58.3 km^2) does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1945 to September 1974 (discontinued). Prior to October 1947, published as "near Flint". Published as Pigeon Creek near Hogback Lake Outlet near Angola, October 1947 to September 1971.

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 1.5 miles (2.4 km) downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 600 ft (183 m) downstream at same datum.

AVERAGE DISCHARGE.--29 years, 73.0 ft^3/s (2.067 m^3/s), 9.62 in/yr (244 mm/yr).

EXTREMES.--Current year: Maximum discharge, 339 ft^3/s (9.60 m^3/s) Jan. 30, gage height, 13.43 ft (4.093 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Sept. 23-30.
Period of record: Maximum discharge, 744 ft^3/s (21.1 m^3/s) Apr. 8, 1950, gage height, 14.95 ft (4.557 m); minimum daily, 3.4 ft^3/s (0.096 m^3/s) Oct. 25-27, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1144: 1948. WSP 2111: Drainage area.

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	22	19	46	158	332	175	132	104	103	53	27	20
2	23	20	51	153	315	150	150	101	98	53	27	20
3	23	20	54	144	295	135	162	97	94	51	26	20
4	25	20	55	135	270	131	172	94	90	49	26	20
5	25	21	56	125	250	140	180	92	87	47	26	20
6	25	20	55	116	230	153	187	89	84	45	25	20
7	25	21	54	108	215	171	190	86	82	44	25	19
8	25	20	52	98	200	200	182	88	81	42	25	19
9	25	20	51	92	181	210	170	92	80	41	26	19
10	25	20	50	87	170	215	160	96	77	40	26	19
11	24	20	48	83	158	221	148	102	76	40	26	19
12	24	20	47	78	147	239	140	111	73	38	26	19
13	24	20	47	74	138	241	145	119	78	37	26	19
14	24	20	47	70	129	240	159	127	80	36	26	19
15	24	20	47	68	125	232	170	136	78	36	26	20
16	24	21	47	66	120	212	177	144	77	36	26	20
17	23	21	47	64	118	191	173	158	74	34	28	20
18	23	21	46	62	115	172	168	169	68	33	28	20
19	22	21	46	62	114	159	164	178	66	33	28	19
20	21	21	47	65	117	146	156	184	64	32	27	18
21	21	22	46	78	129	135	148	184	62	32	27	18
22	20	22	44	117	131	125	140	184	62	31	26	18
23	20	22	43	178	171	118	133	176	62	30	25	17
24	20	23	42	225	221	110	129	167	62	29	24	17
25	20	25	44	259	241	102	122	157	62	29	23	17
26	19	26	47	279	250	96	115	147	62	29	22	17
27	19	27	62	301	238	94	111	136	61	29	22	17
28	19	32	87	322	200	92	107	126	60	29	22	17
29	19	35	118	334	------	94	106	119	58	28	21	17
30	19	40	142	338	------	101	105	112	55	27	21	17
31	19	------	155	337	------	115	------	108	------	27	21	------
TOTAL	691	680	1,823	4,676	5,320	4,915	4,501	3,983	2,216	1,140	780	561
MEAN	22.3	22.7	58.8	151	190	159	150	128	73.9	36.8	25.2	18.7
MAX	25	40	155	338	332	241	190	184	103	53	28	20
MIN	19	19	42	62	114	92	105	86	55	27	21	17
CFSM	.22	.22	.57	1.47	1.84	1.54	1.46	1.24	.72	.36	.24	.18
IN.	.25	.25	.66	1.69	1.92	1.78	1.63	1.44	.80	.41	.28	.20

CAL YR 1973 TOTAL 37,262 MEAN 102 MAX 262 MIN 19 CFSM .99 IN 13.46
WTR YR 1974 TOTAL 31,286 MEAN 85.7 MAX 338 MIN 17 CFSM .83 IN 11.30

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 and 2.6 miles (4.2 km) west of Stroh.

DRAINAGE AREA.--1.96 mi^2 (5.08 km^2), of which 1.32 mi^2 (3.42 km^2) 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^3/s (0.014 m^3/s) notch capacity. Datum of gage is 960.00 ft (292.608 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 0.48 ft^3/s (0.136 m^3/s), 3.33 in/yr (85 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17 ft^3/s (0.48 ft^3/s) Mar. 4, gage height, 7.73 ft (2.356 m); minimum daily discharge, 0.11 ft^3/s (0.003 m^3/s) Dec. 23.
Period of record: Maximum discharge, 33 ft^3/s (0.93 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.30	.41	.70	.90	.78	1.8	1.0	1.1	.49	.32	.23
2	.24	.23	.34	.58	.86	.78	2.2	1.0	1.1	.49	.36	.25
3	.27	.21	.34	.45	.73	.82	1.6	1.0	1.1	.46	.36	.34
4	.18	.20	.46	.36	.69	3.4	1.8	1.0	1.1	.44	.34	.30
5	.18	.20	.62	.32	.69	4.2	1.4	1.0	1.1	.44	.34	.27
6	.16	.18	.41	.29	.59	1.8	1.2	.95	.73	.41	.32	.25
7	.16	.16	.36	.27	.52	2.9	1.1	.95	1.1	.41	.30	.25
8	.16	.15	.32	.25	.52	2.3	1.2	.95	2.1	.41	.32	.25
9	.16	.15	.27	.23	.52	2.1	1.1	.95	1.1	.46	.32	.23
10	.16	.15	.27	.22	.49	1.9	.95	.95	1.1	.55	.30	.23
11	.16	.15	.23	.20	.46	1.6	.95	.95	1.0	.62	.46	.26
12	.16	.15	.20	.20	.46	1.5	.95	.95	.95	.49	.36	.94
13	.20	.15	.44	.19	.46	1.4	1.0	1.0	.90	.44	.34	.52
14	.21	.15	.41	.19	.52	1.3	.95	1.0	.86	.41	.32	.39
15	.18	.16	.38	.19	.59	1.3	.86	1.0	.86	.41	.30	.34
16	.16	.16	.25	.21	.49	1.3	.78	1.1	.78	.41	.38	.34
17	.16	.18	.19	.24	.46	1.3	.73	1.1	.78	.39	.55	.32
18	.16	.18	.15	.28	.46	1.2	.78	1.1	.73	.39	.34	.30
19	.15	.18	.13	.31	.85	1.2	.86	1.1	.73	.39	.32	.27
20	.15	.18	.15	.74	.78	1.2	.86	1.1	.69	.39	.30	.27
21	.13	.21	.14	2.8	.84	1.2	.95	1.1	.82	.36	.27	.27
22	.13	.20	.12	2.4	2.5	1.1	1.1	1.1	.78	.36	.27	.27
23	.13	.20	.11	2.1	1.3	1.1	1.1	1.1	.78	.41	.27	.25
24	.15	.18	.55	1.7	.86	1.3	1.1	1.1	.69	.41	.27	.25
25	.18	.32	1.1	1.2	.86	1.2	.90	1.1	.69	.39	.27	.25
26	.18	.30	1.7	1.2	.69	1.2	.78	1.1	.69	.36	.25	.23
27	.18	.27	1.9	1.5	.59	1.2	.78	1.1	.65	.34	.25	.25
28	.21	1.1	1.4	1.5	.65	1.3	.90	1.1	.62	.34	.25	.30
29	.18	.86	1.1	1.2	------	1.3	1.3	1.1	.59	.32	.25	.30
30	.18	.62	1.0	1.1	------	1.5	1.1	1.1	.52	.32	.25	.27
31	.21	------	.81	1.0	------	1.6	------	1.1	------	.32	.23	------
TOTAL	5.49	7.83	16.26	24.12	20.33	48.28	33.08	32.25	26.74	12.83	9.78	9.19
MEAN	.18	.26	.52	.78	.73	1.56	1.10	1.04	.89	.41	.32	.31
MAX	.27	1.1	1.9	2.8	2.5	4.2	2.2	1.1	2.1	.62	.55	.94
MIN	.13	.15	.11	.19	.46	.78	.73	.95	.52	.32	.23	.23
CFSM	.09	.13	.27	.40	.37	.80	.56	.53	.45	.21	.16	.16
IN.	.10	.15	.31	.46	.39	.92	.63	.61	.51	.24	.19	.17

CAL YR 1973 TOTAL 217.94 MEAN .60 MAX 2.8 MIN .11 CFSM .31 IN 4.14
WTR YR 1974 TOTAL 246.18 MEAN .67 MAX 4.2 MIN .11 CFSM .34 IN 4.67

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^2 (935 km^2), of which 53.9 mi^2 (139.6 km^2) 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.--6 years, 332 ft^3/s (9.40 m^3/s), 12.49 in/yr (317 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) Mar. 11, gage height, 5.59 ft (1.704 m); minimum daily, 114 ft^3/s (3.23 m^3/s) Sept. 2.
Period of record: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Feb. 1, 1969, gage height, 6.34 ft (1.932 m); minimum daily, 42 ft^3/s (1.19 m^3/s) Oct. 21, 1971.

REMARKS.--Records good.

REVISIONS.--WSP 2111: Drainage area.

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	180	174	227	430	940	660	562	439	406	255	129	115
2	178	180	215	400	922	659	583	423	389	247	138	114
3	179	171	212	380	882	653	616	411	388	243	147	126
4	188	162	232	360	857	678	657	395	377	238	140	132
5	181	158	265	370	788	780	733	382	364	234	135	128
6	171	153	261	380	780	908	716	374	373	225	131	123
7	163	152	248	380	784	963	677	364	372	214	133	121
8	163	152	238	350	752	1,010	670	390	393	209	142	119
9	161	150	233	320	754	1,060	678	449	430	204	164	117
10	159	150	228	290	685	1,070	669	459	402	198	145	116
11	157	150	220	260	658	1,080	663	447	380	199	150	117
12	154	150	218	250	592	1,070	663	514	387	192	177	160
13	169	150	230	270	569	1,040	670	586	369	183	180	239
14	190	150	258	300	529	1,010	663	562	342	179	161	206
15	181	153	249	320	513	987	636	572	331	173	183	170
16	165	156	239	320	463	973	613	632	325	167	129	153
17	155	157	220	315	445	954	581	675	320	161	190	146
18	151	159	210	302	433	915	554	734	314	159	242	141
19	148	157	200	296	448	881	547	768	335	161	160	137
20	146	156	200	335	489	842	540	694	344	159	154	130
21	146	160	200	545	501	807	517	641	340	151	148	129
22	146	163	205	718	620	762	496	616	331	149	144	126
23	146	163	210	757	784	724	478	616	326	154	139	122
24	147	161	230	732	806	680	460	610	316	158	137	120
25	163	171	342	714	704	635	446	574	300	157	138	119
26	147	190	394	711	669	612	433	541	299	154	129	116
27	142	190	485	808	664	592	423	515	308	148	118	115
28	143	205	537	938	661	573	421	491	296	143	120	122
29	151	255	507	982	------	562	449	492	279	139	121	130
30	154	253	498	944	------	569	458	481	266	133	119	131
31	158	------	448	934	------	573	------	454	------	130	117	------
TOTAL	4,982	5,051	8,659	15,411	18,692	25,282	17,272	16,301	10,402	5,616	4,560	4,040
MEAN	161	168	279	497	668	816	576	526	347	181	147	135
MAX	190	255	537	982	940	1,080	733	768	430	255	242	239
MIN	142	150	200	250	433	562	421	364	266	130	117	114
CFSM	.45	.47	.77	1.38	1.85	2.26	1.60	1.46	.96	.50	.41	.37
IN.	.51	.52	.89	1.59	1.93	2.61	1.78	1.68	1.07	.58	.47	.42

CAL YR 1973 TOTAL 138,540 MEAN 380 MAX 914 MIN 142 CFSM 1.05 IN 14.28
WTR YR 1974 TOTAL 136,268 MEAN 373 MAX 1,080 MIN 114 CFSM 1.03 IN 14.04

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^2 (368 km^2).

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 880.00 ft (268.224 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 569 ft^3/s (16.1 m^3/s) Mar. 10, gage height, 6.84 ft (2.085 m) Mar. 10; minimum daily, 12 ft^3/s (0.34 m^3/s) Sept. 25.
Period of record: Maximum discharge, 569 ft^3/s (16.1 m^3/s) Mar. 10, 1974, gage height, 6.84 ft (2.085 m) Mar. 10, 1974; minimum daily, 2.4 ft^3/s (0.068 m^3/s) Nov. 21, 1971.

REMARKS.--Records good except those for December, January and February, which are fair. Flow regulated at times by dam at Waldron Lake.

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	34	36	76	185	400	296	253	122	128	67	35	19
2	33	41	67	165	390	288	247	115	116	68	37	18
3	33	38	60	150	370	280	253	106	107	69	36	24
4	32	34	66	150	350	302	271	102	103	64	32	21
5	30	30	71	150	330	367	277	97	101	61	32	19
6	28	27	68	150	310	403	277	92	110	57	31	17
7	27	28	67	150	300	482	274	91	112	53	25	16
8	27	26	62	145	280	516	286	111	134	50	16	15
9	27	25	58	135	270	555	289	139	140	51	14	16
10	26	27	51	125	260	567	281	141	140	51	13	17
11	25	26	51	115	240	569	274	143	138	49	16	17
12	25	25	50	110	230	567	274	175	134	56	19	43
13	32	25	58	115	220	555	266	181	125	95	14	51
14	32	27	65	125	210	538	247	175	114	130	17	39
15	28	29	62	130	190	520	242	193	116	142	36	29
16	24	28	57	130	176	508	236	200	118	139	48	24
17	22	30	52	125	165	489	220	214	112	128	77	21
18	20	29	51	125	157	468	201	224	104	122	60	20
19	20	30	50	130	159	450	192	223	94	138	44	19
20	20	31	50	150	172	428	177	216	87	145	37	18
21	20	36	50	220	185	426	161	207	88	138	34	17
22	19	38	51	300	253	382	150	201	102	126	31	16
23	18	39	54	330	313	362	139	207	112	117	31	14
24	18	39	60	340	333	337	132	201	102	94	31	14
25	18	47	86	340	321	316	121	194	91	59	31	12
26	18	55	121	350	313	297	113	184	93	42	30	18
27	20	51	174	374	305	284	107	172	87	41	29	20
28	23	66	208	400	299	272	106	163	81	59	29	29
29	24	89	217	400	------	260	124	155	74	64	26	29
30	27	87	215	400	------	257	127	146	70	57	22	30
31	29	------	200	400	------	254	------	137	------	42	19	------
TOTAL	779	1,139	2,628	6,614	7,501	12,595	6,317	5,027	3,233	2,574	952	662
MEAN	25.1	38.0	84.8	213	268	406	211	162	108	83.0	30.7	22.1
MAX	34	89	217	400	400	569	289	224	140	145	77	51
MIN	18	25	50	110	157	254	106	91	70	41	13	12
CFSM	.18	.27	.60	1.50	1.89	2.86	1.49	1.14	.76	.58	.22	.16
IN.	.20	.30	.69	1.73	1.97	3.30	1.65	1.32	.85	.67	.25	.17

CAL YR 1973 TOTAL 56,228 MEAN 154 MAX 422 MIN 18 CFSM 1.08 IN 14.73
WTR YR 1974 TOTAL 50,021 MEAN 137 MAX 569 MIN 12 CFSM .96 IN 13.10

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) northwest of Burr Oak, and 4.5 miles (7.2 km) south of Albion.

DRAINAGE AREA.--19.2 mi^2 (49.7 km^2).

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.--5 years, 16.0 ft^3/s (0.453 m^3/s), 11.32 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 158 ft^3/s (4.47 m^3/s) Mar. 9, gage height, 4.44 ft (1.353 m); minimum daily, 0.37 ft^3/s (0.010 m^3/s) Aug. 4-9.
Period of record: Maximum discharge, 158 ft^3/s (4.47 m^3/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^3/s (0.004 m^3/s) Sept. 10, 1972.

REMARKS.--Records good. Occasional regulation at Miller Lake outlet.

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	.96	1.3	10	58	67	32	19	15	9.7	9.3	.41	.79
2	1.4	1.2	10	46	59	28	25	15	9.1	9.7	.41	.71
3	1.4	.96	9.7	35	49	26	29	15	8.5	8.5	.41	.79
4	1.4	.87	9.7	28	40	32	44	15	8.1	7.1	.37	.71
5	1.4	.79	9.5	22	32	74	63	14	7.5	5.9	.37	.71
6	1.2	.63	8.9	19	27	105	71	14	7.3	5.5	.37	.71
7	1.3	.63	8.3	17	22	133	67	14	7.3	4.9	.37	.63
8	1.2	.63	7.9	14	19	142	60	15	8.7	4.1	.37	.63
9	1.3	.56	7.5	12	16	151	51	16	9.5	3.7	.37	.63
10	1.4	.56	7.1	12	15	145	43	16	11	3.5	1.1	.71
11	1.3	.56	6.7	11	14	124	35	18	11	3.1	1.2	.63
12	1.2	.63	6.3	11	13	101	33	22	11	2.5	1.3	.71
13	1.4	.56	6.9	9.9	12	81	31	26	10	2.3	1.2	.79
14	1.4	.71	6.9	9.3	12	67	29	28	9.5	2.1	1.1	1.5
15	1.2	.71	6.9	9.3	12	57	26	31	12	1.8	1.1	1.3
16	1.0	.79	6.7	9.3	12	50	24	29	12	1.5	.96	1.1
17	.87	.71	6.5	9.3	11	45	22	32	12	1.4	.96	.96
18	.87	.71	6.3	9.5	11	41	20	29	13	1.2	1.2	.87
19	.79	.79	6.7	11	14	37	20	26	13	1.1	1.2	.79
20	.79	.87	7.3	17	18	32	17	21	13	.96	.96	.71
21	.71	.96	6.7	63	24	30	17	18	15	.87	.96	.71
22	.71	.96	6.5	119	53	27	16	16	19	.87	.87	.63
23	.71	.87	6.1	148	82	24	16	19	21	.79	.79	.56
24	.71	.96	5.7	138	88	22	15	19	21	.71	.79	.56
25	.71	2.0	8.3	114	74	20	14	19	19	.71	.79	.51
26	.71	2.3	14	94	59	19	14	18	18	.63	.71	.51
27	.71	2.7	42	108	47	18	14	16	15	.56	.71	.51
28	.79	6.1	87	114	38	17	14	14	13	.51	.71	.46
29	.79	8.5	95	103	------	17	15	13	11	.51	.71	.53
30	.96	9.7	83	87	------	18	15	11	10	.46	.71	.52
31	1.1	------	70	76	------	18	------	11	------	.41	.71	------
TOTAL	32.39	50.22	580.1	1,533.6	940	1,733	879	585	365.2	87.19	24.19	21.88
MEAN	1.04	1.67	18.7	49.5	33.6	55.9	29.3	18.9	12.2	2.81	.78	.73
MAX	1.4	9.7	95	148	88	151	71	32	21	9.7	1.3	1.5
MIN	.71	.56	5.7	9.3	11	17	14	11	7.3	.41	.37	.46
CFSM	.05	.09	.97	2.58	1.75	2.91	1.53	.98	.64	.15	.04	.04
IN.	.06	.10	1.12	2.97	1.82	3.36	1.70	1.13	.71	.17	.05	.04

CAL YR 1973 TOTAL 7,901.49 MEAN 21.6 MAX 132 MIN .56 CFSM 1.13 IN 15.31
WTR YR 1974 TOTAL 6,831.77 MEAN 18.7 MAX 151 MIN .37 CFSM .97 IN 13.24

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^2 (113.4 km^2).

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.--5 years, 35.2 ft^3/s (0.997 m^3/s), 10.91 in/yr (277 mm/yr).

EXTREMES.--Current year: Maximum discharge, 129 ft^3/s (3.65 m^3/s) Mar. 8, gage height, 4.54 ft (1.384 m); minimum daily, 2.2 ft^3/s (0.062 m^3/s) Sept. 22.
Period of record: Maximum discharge, 129 ft^3/s (3.65 m^3/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^3/s (0.040 m^3/s) Oct. 17, 1971.

REMARKS.--Records good. Flow occasionally regulated by dam on Syracuse Lake.

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	3.3	13	35	42	96	88	88	42	25	35	4.3	3.5
2	3.6	13	34	41	93	87	87	43	22	35	4.6	3.9
3	3.5	8.4	36	41	91	87	89	47	19	35	3.8	4.3
4	3.5	7.9	44	41	90	96	92	42	20	35	3.3	4.6
5	3.5	8.4	43	40	89	109	93	36	25	34	4.1	4.3
6	3.5	9.0	43	39	89	108	92	28	37	34	4.3	3.3
7	3.0	9.0	42	40	88	121	90	22	33	32	4.1	2.9
8	3.3	9.0	41	40	87	124	90	36	38	29	3.9	2.6
9	3.6	9.0	40	40	86	125	88	49	39	29	3.9	3.3
10	3.6	8.4	41	40	85	121	88	46	36	27	3.5	3.6
11	3.6	7.9	41	40	84	120	88	62	35	23	3.6	3.9
12	3.9	9.2	40	40	85	117	88	84	34	21	3.6	5.9
13	4.4	9.8	42	39	84	112	88	83	25	14	3.9	4.6
14	3.6	10	40	40	83	109	87	83	26	8.2	3.8	3.5
15	3.8	10	40	40	82	107	85	84	38	4.4	3.8	2.7
16	3.6	10	38	40	81	105	83	97	43	4.6	4.1	2.9
17	3.9	11	40	40	80	102	82	92	41	4.4	3.8	2.9
18	3.8	9.8	39	40	80	102	81	91	40	4.3	3.2	3.0
19	3.9	25	39	41	83	101	81	88	39	4.3	3.8	2.9
20	3.8	39	39	48	84	100	81	83	39	3.9	3.9	2.9
21	3.2	38	40	77	86	98	79	76	40	3.5	4.1	2.5
22	3.5	36	39	85	100	97	79	78	45	3.9	4.1	2.2
23	3.6	35	39	84	105	94	78	86	46	3.9	4.1	2.7
24	3.6	35	38	82	101	91	70	78	46	4.1	3.6	2.9
25	3.6	35	45	78	99	90	55	71	45	3.9	3.3	2.9
26	3.5	35	48	81	94	89	55	56	47	4.3	3.9	2.9
27	3.5	35	50	98	90	88	54	44	45	3.8	4.1	3.1
28	2.9	39	49	100	89	89	55	44	44	3.5	4.3	2.4
29	3.9	37	48	99	------	89	56	44	43	4.1	4.4	2.4
30	3.6	36	45	97	------	87	56	40	41	4.3	4.4	2.6
31	6.7	------	43	97	------	87	------	29	------	4.3	3.9	------
TOTAL	114.3	597.8	1,281	1,790	2,484	3,140	2,378	1,874	1,096	460.7	121.5	98.1
MEAN	3.69	19.9	41.3	57.7	88.7	101	79.3	60.5	36.5	14.9	3.92	3.27
MAX	6.7	39	50	100	105	125	93	92	47	35	4.6	5.9
MIN	2.9	7.9	34	39	80	87	54	22	19	3.5	3.2	2.2
CFSM	.08	.45	.94	1.32	2.03	2.31	1.81	1.38	.83	.34	.09	.07
IN.	.10	.51	1.09	1.52	2.11	2.67	2.02	1.59	.93	.39	.10	.08

CAL YR 1973 TOTAL 14,143.4 MEAN 38.7 MAX 97 MIN 2.6 CFSM .88 IN 12.01
WTR YR 1974 TOTAL 15,435.4 MEAN 42.3 MAX 125 MIN 2.2 CFSM .97 IN 13.11

04100500 Elkhart River at Goshen, Ind.

LOCATION.--Lat 41°35'36", long 85°50'55", in NE¼NE¼ sec.8, T.36 N., R.6 E., Elkhart County, on right bank 20 ft (6 m) downstream from River Avenue bridge at Goshen and 0.5 mile (0.8 km) upstream from Rock Run.

DRAINAGE AREA.--594 mi^2 (1,538 km^2).

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.--43 years, 502 ft^3/s (14.2 m^3/s), 11.48 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) Mar. 8, gage height, 6.69 ft (2.039 m); minimum daily, 117 ft^3/s (3.31 m^3/s) Sept. 1.
Period of record: Maximum discharge, 5,440 ft^3/s (154 m^3/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^3/s (0.20 m^3/s) Aug. 11, 1964, result of extreme regulation.

REMARKS.--Records good. The flow is regulated by three powerplants upstream from station.

REVISIONS (WATER YEARS).--WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	191	344	600	1,730	1,120	891	602	562	411	191	117
2	242	203	334	540	1,540	1,080	934	579	532	396	198	119
3	243	202	326	500	1,410	1,070	957	568	513	385	190	139
4	229	198	337	480	1,310	1,170	1,180	557	489	378	183	136
5	219	191	358	490	1,140	1,720	1,360	541	494	371	180	132
6	209	193	353	500	1,090	1,950	1,240	531	569	343	169	127
7	205	178	343	480	1,080	2,040	1,120	507	585	328	164	122
8	204	172	335	450	1,060	2,440	1,060	578	597	323	164	120
9	202	173	327	420	980	2,500	1,030	730	617	298	165	120
10	199	172	319	450	980	2,420	980	734	571	308	160	118
11	188	170	297	350	915	2,190	954	762	539	305	167	123
12	185	171	286	350	862	2,010	952	1,070	523	286	169	185
13	203	171	328	380	862	1,890	965	1,110	503	269	155	214
14	210	173	333	408	811	1,780	959	950	492	276	144	216
15	201	174	319	424	740	1,710	913	1,020	552	299	138	191
16	191	174	300	415	707	1,660	870	1,160	543	308	148	172
17	184	172	271	410	693	1,590	835	1,050	516	310	178	162
18	176	172	243	402	661	1,500	808	1,140	507	305	199	153
19	175	174	279	409	716	1,430	798	1,050	503	299	197	148
20	166	178	206	525	869	1,370	757	937	490	293	180	140
21	165	199	248	1,550	906	1,300	722	872	495	299	166	135
22	165	204	250	2,150	1,420	1,230	691	855	511	306	156	130
23	167	204	250	1,980	2,160	1,150	659	889	535	313	154	127
24	166	206	280	1,780	1,830	1,080	630	925	521	300	154	124
25	160	213	358	1,580	1,380	1,010	604	824	497	278	148	120
26	160	223	506	1,460	1,210	968	579	749	486	244	144	119
27	160	241	732	1,680	1,200	933	558	693	485	209	139	120
28	162	315	893	2,020	1,160	898	557	653	470	189	138	139
29	162	346	824	1,850	------	884	626	629	448	191	137	156
30	186	348	682	1,650	------	884	624	613	431	200	132	157
31	177	------	640	1,670	------	881	------	593	------	199	123	------
TOTAL	5,884	6,101	11,901	28,353	31,422	45,858	25,813	24,471	15,576	9,219	5,030	4,281
MEAN	190	203	384	915	1,122	1,479	860	789	519	297	162	143
MAX	243	348	893	2,150	2,160	2,500	1,360	1,160	617	411	199	216
MIN	160	170	206	350	661	881	557	507	431	189	123	117
CFSM	.32	.34	.65	1.54	1.89	2.49	1.45	1.33	.87	.50	.27	.24
IN.	.37	.38	.75	1.78	1.97	2.87	1.62	1.53	.98	.58	.32	.27

CAL YR 1973 TOTAL 218,906 MEAN 600 MAX 2,810 MIN 157 CFSM 1.01 IN 13.71
WTR YR 1974 TOTAL 213,909 MEAN 586 MAX 2,500 MIN 117 CFSM .99 IN 13.40

PEAK DISCHARGE (BASE, 1,800 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-22	1500	6.19	2,250	02-23	1700	6.25	2,290
01-28	1300	5.88	2,070	03-08	2300	6.69	2,550

04101000 St. Joseph River at Elkhart, Ind.

LOCATION.--Lat 41°41'30", long 85°58'30", in SW¼NE¼ 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^2 (8,728 km^2).

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.--27 years, 3,062 ft^3/s (86.7 m^3/s), 12.34 in/yr (313 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,600 ft^3/s (329 m^3/s) Mar. 10, gage height, 24.33 ft (7.416 m); minimum daily, 799 ft^3/s (22.6 m^3/s) Aug. 31.
Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Apr. 5, 1950, gage height, 27.82 ft (8.480 m); minimum daily, 336 ft^3/s (9.52 m^3/s) Aug. 5, 1964.

REMARKS.--Records good. The flow is regulated by Elkhart Hydroelectric Plant and by a hydroelectric plant on Elkhart River at Goshen.

REVISIONS.--WSP 2111: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	2,020	2,870	4,270	8,040	6,520	6,400	4,750	4,730	3,310	1,580	1,310
2	1,940	1,850	2,350	3,970	7,350	6,380	6,820	4,570	4,560	3,200	1,440	1,240
3	2,080	1,460	2,450	3,700	5,460	6,340	6,890	4,520	4,350	3,030	1,430	1,540
4	2,250	1,750	2,810	3,940	5,890	6,660	7,490	4,370	4,080	3,370	1,400	1,520
5	2,240	2,200	2,680	3,570	5,840	7,770	7,940	4,230	3,980	2,800	1,680	1,470
6	1,970	2,100	2,830	3,840	5,520	8,550	7,940	4,200	4,280	2,840	1,880	1,460
7	1,910	1,800	2,310	3,600	5,290	9,220	7,780	4,070	4,330	2,860	1,650	1,070
8	2,210	2,200	2,530	3,630	4,680	9,920	7,650	4,320	4,300	2,860	1,700	968
9	2,010	1,800	2,530	2,860	4,930	10,200	7,560	4,590	4,220	2,900	1,700	1,400
10	1,880	1,700	2,620	3,030	5,030	11,000	7,320	4,620	4,440	2,310	1,360	1,540
11	1,920	1,800	2,330	3,300	5,090	11,100	7,180	4,850	4,450	2,590	1,310	1,540
12	1,910	2,000	2,380	3,490	4,740	10,800	7,090	5,450	4,250	2,300	1,870	1,850
13	2,040	1,500	2,460	3,810	5,020	10,400	7,180	5,600	4,130	2,140	1,670	1,830
14	1,690	2,000	2,420	3,010	4,890	10,100	7,030	5,730	4,150	2,280	1,670	1,630
15	2,040	1,700	2,420	3,570	4,620	9,460	6,750	6,250	3,840	2,350	1,780	1,470
16	2,090	2,100	2,460	3,330	4,460	9,380	6,540	6,850	3,920	2,470	2,170	1,650
17	1,970	1,800	2,040	3,000	4,400	9,080	6,380	7,180	4,020	2,130	1,630	1,700
18	1,880	1,700	2,240	3,540	4,180	8,370	6,130	7,710	3,840	1,950	1,400	1,670
19	1,910	2,200	2,000	3,360	4,380	8,260	5,950	8,130	3,920	1,950	1,380	1,560
20	1,760	1,800	2,220	3,320	4,720	7,870	5,670	8,240	3,950	1,570	1,180	1,560
21	1,780	1,900	1,890	5,780	4,560	7,630	5,530	8,130	3,890	1,530	1,150	1,630
22	1,740	1,800	1,510	7,040	5,740	7,160	5,380	7,860	4,070	2,100	1,820	1,230
23	1,610	2,500	1,960	7,790	7,310	7,200	5,350	7,490	4,170	2,170	1,950	1,570
24	1,670	1,600	2,600	7,880	7,280	6,980	5,030	7,090	4,020	2,100	1,670	1,430
25	1,560	1,800	2,680	7,810	6,900	6,470	4,870	6,590	3,940	1,870	1,420	1,430
26	1,610	2,100	3,390	7,900	6,830	6,540	4,750	6,130	3,840	1,720	1,660	1,400
27	1,780	2,600	4,280	8,160	6,950	6,040	4,590	5,780	3,800	1,610	1,620	1,480
28	1,260	2,380	4,760	8,610	6,810	6,020	4,610	5,330	3,800	1,370	1,480	1,290
29	1,690	2,360	4,870	8,500	------	5,820	4,680	5,290	3,740	1,670	1,460	1,510
30	1,930	2,350	4,500	8,290	------	6,040	4,730	5,040	3,200	1,820	1,370	2,000
31	2,010	------	4,510	8,170	------	6,120	------	4,850	------	1,400	799	------
TOTAL	57,480	58,870	85,900	156,070	156,910	249,400	189,210	179,810	122,210	70,570	48,279	44,948
MEAN	1,854	1,962	2,771	5,035	5,604	8,045	6,307	5,800	4,074	2,276	1,557	1,498
MAX	2,250	2,600	4,870	8,610	8,040	11,100	7,940	8,240	4,730	3,370	2,170	2,000
MIN	1,140	1,460	1,510	2,860	4,180	5,820	4,590	4,070	3,200	1,370	799	968
CFSM	.55	.58	.82	1.49	1.66	2.39	1.87	1.72	1.21	.68	.46	.44
IN.	.63	.65	.95	1.72	1.73	2.75	2.09	1.98	1.35	.78	.53	.50

CAL YR 1973 TOTAL 1,361,930 MEAN 3,731 MAX 8,880 MIN 1,140 CFSM 1.11 IN 15.03
WTR YR 1974 TOTAL 1,419,657 MEAN 3,889 MAX 11,100 MIN 799 CFSM 1.15 IN 15.67

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^2 (9,495 km^2).

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.--44 years, 3,137 ft^3/s (88.84 m^3/s), 11.62 in/yr (295 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,100 ft^3/s (343 m^3/s) Mar. 10, gage height, 11.15 ft (3.399 m); minimum daily, 1,190 ft^3/s (33.7 m^3/s) Sept. 1.
Period of record: Maximum discharge, 20,200 ft^3/s (572 m^3/s) Apr. 5, 1950, gage height, 15.10 ft (4.602 m), present datum; minimum daily, 420 ft^3/s (11.9 m^3/s) Aug. 30, 1931.

REMARKS.--Records good except for those for the winter period and those for periods of no gage-height record, which are fair. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,650	2,210	2,890	4,500	8,520	7,000	7,000	5,000	5,000	3,500	1,620	1,190
2	2,090	2,290	2,730	4,200	8,270	7,000	7,400	5,000	5,000	3,500	1,890	1,360
3	2,250	2,090	2,570	4,000	6,490	6,800	7,400	4,900	4,700	3,300	1,740	1,520
4	2,770	1,760	2,920	4,100	6,720	7,200	8,000	4,700	4,300	3,600	1,650	1,700
5	2,190	1,970	2,890	3,800	6,070	7,950	8,600	4,600	4,300	3,000	1,630	1,670
6	2,690	2,440	2,920	4,000	5,800	9,290	8,500	4,500	4,500	3,000	1,860	1,680
7	2,010	2,270	2,700	4,000	5,600	9,450	8,300	4,400	4,600	3,100	2,070	1,650
8	2,340	1,910	2,840	3,800	5,200	10,700	8,000	4,700	4,700	3,100	1,680	1,340
9	2,430	2,430	2,640	3,100	5,400	10,800	8,000	5,000	4,500	3,100	1,900	1,240
10	2,160	1,810	2,660	3,200	5,500	11,400	7,800	5,000	4,800	2,500	1,860	1,660
11	2,180	1,850	2,450	3,500	5,300	11,700	7,600	5,500	4,800	2,800	1,630	1,710
12	2,180	1,820	2,740	3,700	5,200	11,200	7,600	6,000	4,500	2,500	1,950	2,320
13	2,670	2,190	2,570	4,000	5,400	10,700	7,600	6,000	4,500	2,400	2,040	2,460
14	1,890	1,590	2,760	3,500	5,200	10,400	7,500	6,000	4,300	2,400	1,840	2,140
15	2,280	2,220	2,540	3,800	5,000	9,760	7,400	7,000	4,100	2,500	1,900	1,740
16	2,370	1,720	2,820	3,500	4,800	9,800	7,200	7,400	4,300	2,600	2,030	1,470
17	2,240	2,260	1,950	3,200	4,700	9,600	6,800	8,000	4,300	2,200	2,260	1,730
18	2,030	1,880	2,250	3,700	4,600	9,000	6,600	8,500	4,100	2,100	2,000	1,830
19	2,150	1,780	2,490	3,600	4,800	9,000	6,400	8,800	4,200	2,100	1,880	1,800
20	2,120	2,420	2,280	3,770	5,000	8,500	6,200	9,000	4,100	1,700	1,560	1,740
21	2,070	1,860	2,230	6,130	5,000	8,000	6,000	8,600	4,100	1,700	1,390	2,040
22	2,170	2,090	1,730	8,300	5,600	7,800	6,000	8,400	4,300	2,100	1,630	1,460
23	2,190	1,820	1,900	9,160	7,000	7,800	5,700	8,000	4,500	2,300	1,980	1,480
24	1,530	2,750	2,630	8,700	7,800	7,500	5,500	7,500	4,300	2,200	1,790	1,620
25	1,790	1,540	3,060	8,480	7,500	7,000	5,300	7,000	4,000	1,970	1,690	1,660
26	1,780	2,050	3,500	8,190	7,400	7,000	5,200	6,500	4,100	2,000	1,550	1,610
27	2,220	2,360	4,200	8,640	7,500	6,500	5,000	6,000	4,100	2,180	1,820	1,590
28	1,760	2,730	5,000	9,430	7,200	6,500	5,000	5,700	4,000	1,610	1,680	1,700
29	1,540	2,500	5,200	9,300	------	6,400	5,000	5,700	4,000	1,610	1,720	1,620
30	2,140	2,650	4,800	8,670	------	6,500	5,000	5,400	3,500	1,860	1,580	2,210
31	2,410	------	4,800	8,870	------	6,500	------	5,200	------	1,890	1,710	------
TOTAL	66,290	63,260	91,660	168,840	168,570	264,750	203,600	194,000	130,500	76,420	55,530	50,940
MEAN	2,138	2,109	2,957	5,446	6,020	8,540	6,787	6,258	4,350	2,465	1,791	1,698
MAX	2,770	2,750	5,200	9,430	8,520	11,700	8,600	9,000	5,000	3,600	2,260	2,460
MIN	1,530	1,540	1,730	3,100	4,600	6,400	5,000	4,400	3,500	1,610	1,390	1,190
CFSM	.58	.58	.81	1.49	1.64	2.33	1.85	1.71	1.19	.67	.49	.46
IN.	.67	.64	.93	1.71	1.71	2.69	2.07	1.97	1.32	.78	.56	.52

CAL YR 1973 TOTAL 1,434,610 MEAN 3,930 MAX 10,600 MIN 1,490 CFSM 1.07 IN 14.56
WTR YR 1974 TOTAL 1,534,360 MEAN 4,204 MAX 11,700 MIN 1,190 CFSM 1.15 IN 15.57

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^2 (97.1 km^2).

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.--5 years, 27.2 ft^3/s (0.770 m^3/s), 9.85 in/yr (250 mm/yr).

EXTREMES.--Current year: Maximum discharge, 307 ft^3/s (8.69 m^3/s) Jan. 23, gage height, 8.73 ft (2.661 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) July 31, Aug. 1.
Period of record: Maximum discharge, 314 ft^3/s (8.89 m^3/s) July 4, 1973, gage height, 8.80 ft (2.682 m); minimum daily, 0.52 ft^3/s (0.015 m^3/s) Aug. 31, 1971.

REMARKS.--Records good, except for those above 150 ft^3/s, which are fair.

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	4.8	5.1	37	62	123	56	46	22	24	7.3	1.4	1.8
2	5.5	4.6	31	49	94	53	68	19	23	6.9	1.6	1.9
3	6.9	4.3	29	40	74	61	73	21	27	6.9	1.5	2.6
4	8.5	4.3	27	33	62	96	99	18	28	8.3	1.5	2.3
5	8.7	4.0	30	28	53	199	100	16	23	9.1	1.5	2.2
6	7.9	3.5	25	24	48	190	88	16	15	7.7	1.6	2.1
7	6.7	3.5	20	20	45	195	73	13	12	6.9	1.7	2.0
8	6.9	3.5	17	19	40	184	68	25	13	6.4	2.0	2.0
9	7.5	3.2	15	18	36	185	59	42	13	6.2	2.1	2.0
10	7.3	2.9	14	17	33	215	50	39	13	5.9	2.3	2.1
11	7.3	3.2	11	16	31	171	45	50	12	5.4	2.9	2.3
12	6.9	3.5	9.8	15	29	136	47	94	12	5.1	2.8	3.6
13	7.1	3.5	16	15	28	101	55	84	10	4.3	2.9	3.9
14	6.6	3.6	19	15	28	78	52	68	10	3.3	3.2	3.2
15	5.9	3.9	15	15	26	68	46	100	12	3.1	3.7	2.8
16	5.1	3.6	12	14	24	73	39	91	10	2.8	3.5	2.5
17	4.5	3.7	10	23	23	64	34	117	9.5	2.6	4.2	2.5
18	4.0	4.0	9.2	28	23	54	31	133	9.8	2.3	3.5	2.3
19	3.7	4.0	11	30	38	54	30	103	10	2.1	3.1	2.2
20	3.5	3.9	13	49	55	48	27	86	11	1.9	2.8	2.1
21	3.2	4.8	11	192	63	48	25	62	13	1.8	2.6	2.1
22	3.1	5.1	10	266	173	42	26	50	15	1.8	2.3	2.0
23	2.9	5.1	9.0	301	217	40	24	48	15	1.9	2.7	1.9
24	2.8	5.5	9.0	275	175	34	20	39	12	1.9	2.5	1.8
25	2.9	11	34	213	120	33	18	32	11	1.8	2.2	1.8
26	2.9	13	65	169	83	31	17	27	11	1.7	2.2	1.8
27	2.8	13	136	272	65	31	16	24	11	1.6	2.1	1.9
28	3.3	47	146	285	59	31	18	22	10	1.5	2.0	2.1
29	3.6	58	125	238	------	33	24	23	9.1	1.5	2.0	2.8
30	4.0	48	98	180	------	44	24	23	8.1	1.5	2.0	2.7
31	4.2	------	77	155	------	47	------	23	------	1.4	1.9	------
TOTAL	161.0	286.3	1,091.0	3,076	1,868	2,695	1,342	1,530	412.5	122.9	74.3	69.3
MEAN	5.19	9.54	35.2	99.2	66.7	86.9	44.7	49.4	13.8	3.96	2.40	2.31
MAX	8.7	58	146	301	217	215	100	133	28	9.1	4.2	3.9
MIN	2.8	2.9	9.0	14	23	31	16	13	8.1	1.4	1.4	1.8
CFSM	.14	.25	.94	2.65	1.78	2.32	1.19	1.32	.37	.11	.06	.06
IN.	.16	.28	1.08	3.05	1.85	2.67	1.33	1.52	.41	.12	.07	.07

CAL YR 1973 TOTAL 13,555.1 MEAN 37.1 MAX 146 MIN 2.8 CFSM .99 IN 13.45
WTR YR 1974 TOTAL 12,728.3 MEAN 34.9 MAX 301 MIN 1.4 CFSM .93 IN 12.63

PEAK DISCHARGE (BASE, 100 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	2400	6.65	150	03-10	0600	7.68	224
01-23	1400	8.73	307	04-04	1300	5.84	102
01-27	2400	8.61	297	05-17	2200	6.50	141
02-23	0300	7.68	224				

04178000 St. Joseph River near Newville, Ind.

LOCATION.--Lat 41°23'08", long 84°48'06", in SW¼SW¼ 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.

DRAINAGE AREA.--610 mi^2 (1,580 km^2).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 795.40 ft (242.438 m) above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 501 ft^3/s (14.2 m^3/s), 11.15 in/yr (283 mm/yr).

EXTREMES.--Current year: Maximum discharge 3,670 ft^3/s (104 m^3/s) Jan. 25, gage height, 13.73 ft (4.185 m); minimum daily, 34 ft^3/s (0.96 m^3/s) Sept. 27, 28, 30.
Period of record: Maximum discharge, 9,710 ft^3/s (275 m^3/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Sept. 10, 16, 1964.

REMARKS.--Records fair.

REVISIONS.--WSP 2112: Drainage area.

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	83	72	463	1,200	2,630	1,350	1,000	385	444	227	91	38
2	93	77	355	950	2,280	1,100	1,110	379	407	204	168	36
3	82	84	263	740	1,600	1,050	1,260	352	359	181	164	44
4	85	89	221	600	1,200	1,280	1,760	330	327	162	125	43
5	86	82	220	480	1,000	2,550	1,930	311	302	151	98	45
6	90	77	229	380	850	2,880	1,830	294	284	152	83	47
7	98	72	241	310	740	3,130	1,680	279	271	166	73	45
8	89	76	216	270	610	3,320	1,560	306	273	154	66	42
9	80	77	182	250	530	3,220	1,370	575	298	140	60	40
10	77	74	165	240	470	3,120	1,180	802	326	128	57	41
11	72	73	151	230	420	3,060	1,010	954	309	120	58	41
12	70	71	140	220	390	2,970	885	1,480	280	113	60	51
13	68	68	139	215	375	2,680	920	1,800	261	108	57	54
14	68	66	175	210	365	2,270	949	1,830	249	102	57	60
15	64	65	190	210	355	1,890	904	2,020	247	95	53	73
16	65	65	190	215	350	1,610	749	2,080	248	89	55	70
17	64	65	185	230	350	1,380	677	1,970	229	84	70	64
18	63	70	170	280	360	1,180	590	1,990	209	78	67	58
19	61	71	160	404	453	1,030	541	2,090	205	76	106	52
20	56	69	150	580	745	916	517	2,110	205	73	84	52
21	55	74	140	1,840	1,010	851	502	1,940	325	70	68	49
22	53	75	135	2,370	1,840	794	477	1,550	451	66	58	41
23	54	73	135	2,740	2,210	728	447	1,230	570	66	52	38
24	54	78	145	3,180	2,320	659	422	889	497	66	49	37
25	55	88	205	3,610	2,320	585	390	670	384	67	45	35
26	53	94	583	3,530	2,310	531	360	542	327	68	45	35
27	53	114	1,250	3,570	2,110	505	341	461	310	66	47	34
28	56	181	1,590	3,440	1,750	493	328	405	325	64	44	34
29	56	312	1,640	3,270	------	493	335	372	319	70	44	35
30	60	459	1,650	3,130	------	679	351	363	266	54	42	34
31	64	------	1,500	2,980	------	955	------	428	------	50	40	------
TOTAL	2,127	3,011	13,178	41,874	31,943	49,259	26,375	31,187	9,507	3,310	2,186	1,368
MEAN	68.6	100	425	1,351	1,141	1,589	879	1,006	317	107	70.5	45.6
MAX	98	459	1,650	3,610	2,630	3,320	1,930	2,110	570	227	168	73
MIN	53	65	135	210	350	493	328	279	205	50	40	34
CFSM	.11	.16	.70	2.21	1.87	2.60	1.44	1.65	.52	.18	.12	.07
IN.	.13	.18	.80	2.55	1.95	3.00	1.61	1.90	.58	.20	.13	.08

CAL YR 1973 TOTAL 216,890 MEAN 594 MAX 2,160 MIN 45 CFSM .97 IN 13.23
WTR YR 1974 TOTAL 215,325 MEAN 590 MAX 3,610 MIN 34 CFSM .97 IN 13.13

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, and 0.6 mile (1.0 km) downstream from Cedarville Dam.

DRAINAGE AREA.--763 mi^2 (1,976 km^2).

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, nonrecording 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.--19 years (1955 to current year), 600 ft^3/s (16.99 m^3/s), 10.68 in/yr (271 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 4,610 ft^3/s (131 m^3/s) Jan. 27, maximum gage height, 14.96 ft (4.560 m) Jan. 27; minimum daily discharge, 45 ft^3/s (1.27 m^3/s) Nov. 17.
Period of record: Maximum discharge, 10,100 ft^3/s (286 m^3/s) May 1, 1956, gage height, 18.07 ft (5.508 m), from floodmarks; minimum daily, 1.6 ft^3/s (0.045 m^3/s) May 22, 27, 1958.

REMARKS.--Records good. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Stage-discharge relation affected at times by backwater from Cedar Creek.

REVISIONS (WATER YEARS).--WSP 1912: 1956. WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	68	525	1,370	3,500	2,820	1,200	423	428	316	48	59
2	78	93	455	1,140	2,990	1,220	1,280	443	525	256	109	63
3	109	90	303	804	2,340	1,120	1,410	435	473	240	211	66
4	96	83	257	744	1,880	1,370	2,200	419	414	201	186	70
5	76	77	248	561	1,320	3,110	1,960	406	382	198	155	70
6	66	66	257	450	1,300	3,390	2,230	356	383	189	127	64
7	98	69	238	360	932	3,590	1,980	367	299	186	86	59
8	114	68	229	300	904	3,660	1,890	468	334	197	103	62
9	92	68	200	270	756	4,150	1,680	860	335	175	98	77
10	93	69	138	250	711	4,270	1,440	850	370	173	66	64
11	76	66	144	230	669	3,640	1,330	1,050	395	153	62	56
12	59	65	136	200	612	3,570	1,220	1,670	341	145	75	99
13	59	57	146	200	597	3,230	1,190	1,880	271	144	93	108
14	63	61	193	210	588	3,870	1,300	1,960	324	140	107	67
15	63	88	212	220	488	2,540	980	2,380	319	130	62	64
16	57	60	207	250	461	2,040	1,070	2,340	335	106	116	85
17	50	45	180	280	461	1,770	836	2,360	299	120	120	94
18	60	50	168	384	455	1,450	705	2,020	267	109	52	92
19	56	54	175	576	645	1,210	618	2,060	267	116	80	76
20	55	62	143	1,030	1,300	1,280	576	2,300	260	84	139	61
21	52	57	96	2,090	1,130	940	612	2,300	324	72	109	58
22	51	53	102	2,900	2,710	1,080	582	2,000	423	106	76	64
23	49	70	147	3,430	2,730	940	543	1,700	561	97	78	68
24	52	93	175	3,440	2,690	738	486	1,230	603	96	71	65
25	54	137	252	3,550	2,890	784	430	729	513	93	62	51
26	50	110	1,350	4,080	2,850	726	475	702	385	88	62	51
27	50	103	1,220	4,610	2,520	621	424	717	374	65	65	59
28	50	437	1,580	4,530	2,150	693	414	453	357	69	78	58
29	66	794	1,570	4,310	------	540	480	525	316	102	76	62
30	62	522	1,380	4,010	------	868	437	420	343	95	61	60
31	48	------	1,450	3,850	------	1,170	------	414	------	78	57	------
TOTAL	2,055	3,735	13,876	50,629	42,579	62,400	31,978	36,237	11,220	4,339	2,890	2,052
MEAN	66.3	125	448	1,633	1,521	2,013	1,066	1,169	374	140	93.2	68.4
MAX	114	794	1,580	4,610	3,500	4,270	2,230	2,380	603	316	211	108
MIN	48	45	96	200	455	540	414	356	260	65	48	51
CFSM	.09	.16	.59	2.14	1.99	2.64	1.40	1.53	.49	.18	.12	.09
IN.	.10	.18	.68	2.47	2.08	3.04	1.56	1.77	.55	.21	.14	.10

CAL YR 1973 TOTAL 259,798 MEAN 712 MAX 2,730 MIN 35 CFSM .93 IN 12.67
WTR YR 1974 TOTAL 263,990 MEAN 723 MAX 4,610 MIN 45 CFSM .95 IN 12.87

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^2 (699 km^2).

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.--28 years, 236 ft^3/s (6.684 m^3/s), 11.87 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,130 ft^3/s (88.6 m^3/s) Mar. 6, gage height, 8.85 ft (2.697 m); minimum daily, 23 ft^3/s (0.65 m^3/s) Sept. 9, 23, 24, 26.
Period of record: Maximum discharge, 4,870 ft^3/s (138 m^3/s) Apr. 5, 1950, gage height, 11.67 ft (3.557 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Oct. 3, 1949.

REMARKS.--Records good.

REVISIONS.--WSP 1912: Drainage area.

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	71	70	233	427	861	394	378	176	131	72	36	28
2	64	61	165	340	624	368	422	161	120	73	37	28
3	60	48	137	270	489	385	408	161	114	73	39	39
4	53	41	128	230	414	575	1,200	150	108	66	36	31
5	54	37	203	200	344	2,240	1,210	141	104	68	34	27
6	50	36	180	180	324	2,700	867	139	108	61	34	26
7	45	34	131	165	317	1,900	613	133	104	56	34	26
8	41	34	110	150	275	2,070	541	201	110	55	36	24
9	42	34	100	140	230	2,020	465	417	106	53	35	23
10	41	32	92	130	220	2,060	385	313	100	51	35	24
11	38	31	83	125	205	1,410	336	264	94	51	37	25
12	37	29	77	120	195	1,030	339	518	92	50	38	51
13	39	32	98	115	185	812	390	439	86	48	36	53
14	43	33	173	115	180	631	374	315	84	46	35	40
15	38	37	148	115	175	546	308	670	120	44	34	31
16	37	44	118	115	175	648	266	654	114	44	34	26
17	35	37	100	130	175	568	238	487	96	43	46	28
18	36	36	90	167	185	469	221	602	92	43	40	27
19	35	34	83	305	294	451	211	428	90	43	34	27
20	35	34	75	548	671	406	197	317	96	41	33	26
21	33	37	71	1,850	633	372	188	257	126	40	32	25
22	32	40	69	2,730	1,530	345	184	223	142	38	32	24
23	35	36	71	2,670	2,130	315	176	499	148	44	32	23
24	35	36	77	2,390	1,380	285	163	389	116	44	31	23
25	32	59	203	1,670	778	257	153	271	98	43	30	24
26	32	118	988	1,210	523	240	149	215	110	41	28	23
27	33	84	1,480	1,910	425	230	144	188	110	40	31	24
28	33	323	1,640	2,280	399	225	147	168	94	37	32	27
29	34	678	1,150	1,630	------	277	193	160	83	36	35	26
30	43	382	762	1,130	------	370	189	153	75	35	33	27
31	41	------	558	1,100	------	472	------	144	------	36	31	------
TOTAL	1,277	2,567	9,593	24,657	14,336	25,071	11,055	9,353	3,171	1,515	1,070	856
MEAN	41.2	85.6	309	795	512	809	369	302	106	48.9	34.5	28.5
MAX	71	678	1,640	2,730	2,130	2,700	1,210	670	148	73	46	53
MIN	32	29	69	115	175	225	144	133	75	35	28	23
CFSM	.15	.32	1.14	2.94	1.90	3.00	1.37	1.12	.39	.18	.13	.11
IN.	.18	.35	1.32	3.40	1.98	3.45	1.52	1.29	.44	.21	.15	.12

CAL YR 1973 TOTAL 103,241 MEAN 283 MAX 1,730 MIN 29 CFSM 1.05 IN 14.22
WTR YR 1974 TOTAL 104,521 MEAN 286 MAX 2,730 MIN 23 CFSM 1.06 IN 14.40

PEAK DISCHARGE (BASE, 2,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-22	1430	8.24	2,820	02-23	0545	7.13	2,260
01-27	0130	7.51	2,450	03-06	0130	8.85	3,130

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, and 1.3 miles (2.1 km) north of Decatur.

DRAINAGE AREA.--621 mi^2 (1,608 km^2).

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 U.S. Weather Bureau.

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.--28 years, 495 ft^3/s (14.02 m^3/s), 10.82 in/yr (275 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,860 ft^3/s (279 m^3/s) Jan. 22, gage height, 22.86 ft (6.968 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Aug. 1.
Period of record: Maximum discharge, 11,300 ft^3/s (320 m^3/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^3/s (0.15 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	50	778	1,800	1,870	797	1,940	99	92	68	16	78
2	22	57	714	1,200	1,150	742	1,950	91	78	85	18	172
3	20	41	682	787	793	701	1,960	96	72	55	18	160
4	26	40	597	479	574	791	3,780	96	68	46	18	130
5	24	40	503	362	392	2,190	3,710	87	65	42	19	118
6	25	39	360	271	278	2,710	3,210	83	65	40	18	152
7	26	37	254	232	226	1,720	2,800	77	75	37	19	176
8	192	32	198	214	200	1,000	2,460	117	237	33	18	135
9	119	30	172	198	184	929	2,130	373	225	31	19	94
10	43	28	155	194	175	2,360	1,970	257	211	29	21	64
11	32	26	118	190	174	1,500	1,600	193	205	29	24	49
12	27	25	109	193	176	884	1,000	1,170	161	32	21	42
13	25	24	124	201	193	808	855	899	122	28	46	121
14	22	23	117	203	228	627	707	416	96	23	39	275
15	21	51	103	215	303	690	551	1,200	73	20	34	164
16	19	57	91	253	346	1,520	407	983	62	21	35	153
17	18	39	82	866	405	1,430	299	1,330	54	22	76	162
18	18	30	77	1,400	407	933	239	1,710	48	22	62	123
19	19	27	73	2,740	585	886	198	622	43	21	41	85
20	21	28	71	3,610	1,820	791	169	340	47	22	35	59
21	21	40	70	7,960	1,600	655	154	253	435	21	38	46
22	21	41	71	9,660	2,390	529	151	220	322	19	46	39
23	20	38	75	8,930	3,250	424	146	447	325	19	41	33
24	21	62	86	6,620	2,830	352	126	392	198	20	34	30
25	21	632	533	3,910	1,940	317	111	265	105	20	27	27
26	20	921	2,950	2,980	1,250	310	107	207	90	21	23	25
27	21	642	3,610	3,000	996	328	104	180	101	21	22	23
28	21	1,450	3,670	3,010	778	328	101	153	90	19	31	22
29	28	2,110	3,480	3,220	------	616	97	134	73	20	33	23
30	28	1,270	3,100	3,170	------	1,800	100	120	60	18	32	19
31	38	------	2,500	2,660	------	1,960	------	105	------	18	26	------
TOTAL	1,001	7,930	25,523	70,728	25,513	31,628	33,132	12,715	3,898	922	950	2,799
MEAN	32.3	264	823	2,282	911	1,020	1,104	410	130	29.7	30.6	93.3
MAX	192	2,110	3,670	9,660	3,250	2,710	3,780	1,710	435	85	76	275
MIN	18	23	70	190	174	310	97	77	43	18	16	19
CFSM	.05	.43	1.33	3.67	1.47	1.64	1.78	.66	.21	.05	.05	.15
IN.	.06	.48	1.53	4.24	1.53	1.89	1.98	.76	.23	.06	.06	.17

CAL YR 1973 TOTAL 224,855 MEAN 616 MAX 4,200 MIN 18 CFSM .99 IN 13.47
WTR YR 1974 TOTAL 216,739 MEAN 594 MAX 9,660 MIN 16 CFSM .96 IN 12.98

PEAK DISCHARGE (BASE, 2,900 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0100	18.00	3,700	02-23	0900	16.99	3,300
01-22	0700	22.86	9,860	04-05	1800	18.83	4,110

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 confluence with St. Joseph River.

DRAINAGE AREA.--762 mi^2 (1,974 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--44 years, 567 ft^3/s (16.06 m^3/s), 10.11 in/yr (257 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,700 ft^3/s (303 m^3/s) Jan. 23, gage height, 16.94 ft (5.163 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Aug. 3.
Period of record: Maximum discharge, 13,600 ft^3/s (385 m^3/s) Feb. 11, 1959; maximum gage height, 19.42 ft (5.919 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 ft^3/s (0.10 m^3/s) Oct. 19, 1934.

REMARKS.--Records good. The flow is sometimes regulated by Grand Lake. There is slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	45	1,190	2,810	2,580	956	2,330	130	126	74	22	28
2	29	50	897	2,400	1,600	893	2,350	124	109	80	22	82
3	29	54	827	1,320	1,070	812	2,250	123	95	89	21	184
4	30	41	729	810	744	1,340	4,570	121	89	62	22	160
5	33	38	628	602	528	3,590	5,100	113	93	54	22	132
6	35	38	463	478	330	3,640	4,540	104	90	48	22	123
7	33	39	315	383	249	2,450	3,800	98	85	43	23	166
8	59	39	231	339	221	1,350	3,360	167	271	39	23	177
9	226	37	187	295	211	1,500	2,860	545	403	37	26	130
10	102	34	165	263	207	3,240	2,460	510	285	35	26	90
11	52	33	134	245	212	2,110	1,930	318	258	33	24	53
12	41	30	110	235	222	1,340	1,380	1,400	222	31	26	53
13	36	29	115	231	242	1,030	1,170	1,670	171	31	28	52
14	33	27	173	237	298	691	954	735	134	30	64	185
15	29	33	203	246	421	687	732	1,890	104	29	51	255
16	29	68	139	371	460	2,320	529	1,930	84	29	38	161
17	27	67	146	936	558	2,190	391	2,540	72	28	67	185
18	26	47	119	2,100	582	1,220	312	3,210	65	28	94	161
19	26	37	112	4,120	1,060	1,050	263	1,460	58	28	64	117
20	28	31	107	5,130	2,390	948	224	632	53	27	41	81
21	29	31	103	7,440	2,150	756	197	410	143	27	34	59
22	29	38	102	9,680	3,710	589	189	348	545	26	33	46
23	29	42	100	10,600	4,220	457	183	920	381	23	40	39
24	27	43	102	9,270	3,690	376	164	887	368	23	38	34
25	27	406	466	6,770	2,510	315	139	478	188	23	32	30
26	26	1,400	3,820	4,660	1,610	295	126	330	115	23	27	27
27	27	948	4,870	4,310	1,200	309	122	266	105	23	24	25
28	27	1,950	4,860	4,150	920	322	124	225	114	23	25	25
29	30	2,990	4,620	4,280	------	451	163	194	105	23	30	25
30	35	2,250	4,390	4,160	------	2,010	135	170	87	23	32	24
31	38	------	3,950	3,610	------	2,520	------	148	------	23	32	------
TOTAL	1,256	10,915	34,373	92,481	34,195	41,757	43,047	22,196	5,018	1,115	1,073	2,909
MEAN	40.5	364	1,109	2,983	1,221	1,347	1,435	716	167	36.0	34.6	97.0
MAX	226	2,990	4,870	10,600	4,220	3,640	5,100	3,210	545	89	94	255
MIN	26	27	100	231	207	295	122	98	53	23	21	24
CFSM	.05	.48	1.46	3.91	1.60	1.77	1.88	.94	.22	.05	.05	.13
IN.	.06	.53	1.68	4.51	1.67	2.04	2.10	1.08	.24	.05	.05	.14

CAL YR 1973 TOTAL 279,569 MEAN 766 MAX 5,110 MIN 26 CFSM 1.01 IN 13.65
WTR YR 1974 TOTAL 290,335 MEAN 795 MAX 10,600 MIN 21 CFSM 1.04 IN 14.17

PEAK DISCHARGE (BASE, 4,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0100	11.71	4,950	02-23	0300	10.75	4,290
01-23	0800	16.94	10,700	04-05	1000	12.00	5,160

04182590 Harber ditch at Fort Wayne, Ind.

LOCATION (revised).--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^2 (56.7 km^2).

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.--10 years, 18.8 ft^3/s (0.532 m^3/s), 11.66 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 695 ft^3/s (19.7 m^3/s), Jan. 21, gage height, 11.35 ft (3.459 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) July 26 to Aug. 1, Sept. 24.
Period of record: Maximum discharge, 728 ft^3/s (20.6 m^3/s) Feb. 20, 1971, gage height, 11.55 ft (3.520 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) July 26 to Aug. 1, Sept. 24, 1974.

REMARKS.--Records fair.

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	1.0	1.2	25	25	26	24	11	5.3	3.9	.86	.07	.26
2	.80	.55	12	20	21	23	14	4.5	3.4	.80	.13	.22
3	.55	.30	9.0	16	14	22	54	4.9	3.6	.80	.08	.61
4	3.7	.20	8.0	13	11	108	212	3.3	3.1	1.2	.08	.55
5	1.2	.37	10	11	9.0	252	68	3.0	4.5	1.0	.13	.50
6	.45	.28	6.0	9.5	7.2	78	46	3.3	3.7	.67	.13	.37
7	1.1	.28	5.0	8.3	6.0	55	31	2.4	4.1	.45	.13	.37
8	1.1	.27	4.0	7.0	5.0	35	35	49	7.6	.45	.30	.28
9	1.1	.26	3.7	6.3	4.7	123	34	39	6.3	.37	.26	.37
10	.67	.25	3.5	5.5	4.5	113	26	21	3.3	.37	1.3	.45
11	.50	.27	3.2	5.0	4.5	42	21	64	3.4	.41	.93	.55
12	.41	.27	3.0	5.0	5.5	56	24	157	2.6	.37	.45	2.4
13	.50	.26	3.4	5.5	10	30	19	42	2.2	.37	.41	3.6
14	.33	.27	3.4	7.0	9.8	19	14	25	2.6	.26	.73	.93
15	.24	.30	3.0	10	6.6	38	11	206	2.0	.24	.41	.55
16	.28	.40	2.5	18	5.8	71	7.6	63	1.5	.22	.80	.67
17	.41	.37	2.2	46	6.1	34	6.9	365	1.3	.20	2.6	1.1
18	.41	.35	2.0	68	9.8	24	5.8	218	1.3	.18	1.0	1.2
19	.50	.37	2.3	296	86	18	4.9	73	1.1	.15	.61	1.4
20	.41	.50	2.7	354	60	13	4.1	35	2.0	.15	.50	1.1
21	.33	1.4	3.6	652	63	13	4.9	19	3.0	.13	.45	.09
22	.45	.41	3.0	325	287	11	5.5	30	5.8	.12	.45	.08
23	.50	.40	2.0	248	88	9.8	4.1	128	2.4	.09	.41	.08
24	.37	.40	2.0	99	37	6.6	3.3	90	1.3	.08	.37	.07
25	.41	5.0	135	60	25	5.8	2.7	33	1.1	.08	.30	.09
26	.86	40	202	76	19	6.6	3.0	21	1.1	.07	.28	.15
27	1.1	24	256	193	13	6.6	2.8	14	1.0	.07	.26	.13
28	.61	60	135	104	18	6.3	12	9.4	.93	.07	1.4	.24
29	2.7	150	79	110	------	6.6	13	8.6	1.1	.07	.41	3.3
30	1.2	70	47	55	------	8.6	7.9	7.2	.93	.07	.28	.67
31	3.7	------	34	39	------	6.9	------	6.1	------	.07	.26	------
TOTAL	27.89	358.93	1,012.5	2,897.1	862.5	1,265.8	708.5	1,750.0	82.16	10.44	15.92	22.38
MEAN	.90	12.0	32.7	93.5	30.8	40.8	23.6	56.5	2.74	.34	.51	.75
MAX	3.7	150	256	652	287	252	212	365	7.6	1.2	2.6	3.6
MIN	.24	.20	2.0	5.0	4.5	5.8	2.7	2.4	.93	.07	.07	.07
CFSM	.04	.55	1.49	4.27	1.41	1.86	1.08	2.58	.13	.02	.02	.03
IN.	.05	.61	1.72	4.92	1.47	2.15	1.20	2.97	.14	.02	.03	.04

CAL YR 1973 TOTAL 6,285.26 MEAN 17.2 MAX 322 MIN .13 CFSM .79 IN 10.68
WTR YR 1974 TOTAL 9,014.12 MEAN 24.7 MAX 652 MIN .07 CFSM 1.13 IN 15.31

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0200	7.83	317	02-22	0700	8.46	366	04-04	0400	7.97	328
01-21	1200	11.35	695	03-05	0500	8.33	356	05-15	0800	7.65	303
01-27	0400	7.14	265	03-09	1900	7.12	264	05-17	1900	10.70	598

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 Sixmile Creek.

DRAINAGE AREA.--1,967 mi^2 (5,095 km^2).

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.--18 years (1956-74), 1,576 ft^3/s (44.6 m^3/s), 10.88 in/yr (276 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,000 ft^3/s (481 m^3/s) Jan. 23, gage height, 20.80 ft (6.34 m); minimum daily, 92 ft^3/s (2.61 m^3/s) Aug. 28.
Period of record: Maximum discharge, 19,100 ft^3/s (541 m^3/s) Feb. 16, 1950, gage height, 21.4 ft (6.523 m) at site then in use; minimum daily, 48 ft^3/s (1.36 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	323	2,350	5,600	8,870	3,880	4,120	798	670	534	119	132
2	182	206	1,740	3,620	6,740	3,260	4,160	746	834	375	123	138
3	223	257	1,500	2,430	4,910	2,900	4,330	803	757	417	223	399
4	268	240	1,350	2,010	3,760	3,980	8,200	727	738	353	283	328
5	308	210	1,210	1,570	2,830	9,730	9,760	705	594	324	206	288
6	160	198	1,070	1,400	2,160	11,000	9,120	673	707	342	178	238
7	200	224	855	1,330	1,580	10,100	7,720	610	574	278	137	240
8	233	413	722	930	1,500	8,620	6,620	1,410	752	296	164	276
9	307	134	642	866	1,500	8,870	5,870	2,300	951	279	194	252
10	373	196	456	891	1,390	10,500	4,690	2,090	817	286	305	226
11	206	176	480	758	1,260	9,570	4,040	2,180	865	268	164	187
12	188	185	428	805	1,230	7,240	3,360	4,330	832	224	158	420
13	197	179	561	719	1,280	6,030	2,920	4,720	567	223	146	471
14	156	173	583	671	1,300	4,930	2,880	3,550	729	214	236	240
15	160	263	700	687	1,180	4,330	2,290	6,110	637	239	217	396
16	179	260	614	704	1,090	5,260	2,010	6,220	600	176	172	318
17	146	242	440	945	1,180	5,180	1,780	6,520	518	141	394	318
18	153	235	436	2,040	1,220	3,670	1,310	7,590	517	127	235	332
19	142	209	496	5,070	2,200	3,210	1,200	4,990	457	155	194	293
20	136	195	352	8,200	4,490	2,860	978	3,830	472	213	220	229
21	158	216	428	12,400	4,560	2,470	995	3,310	786	139	202	181
22	137	204	344	14,800	8,910	2,080	1,020	2,980	1,450	157	151	168
23	142	214	400	16,600	10,500	2,130	906	3,590	1,290	166	141	159
24	141	277	480	16,500	9,760	1,510	906	3,380	1,200	140	168	153
25	168	833	1,120	14,600	7,030	1,440	718	1,980	1,030	142	135	147
26	120	1,610	5,180	12,400	5,100	1,400	774	1,570	714	124	128	133
27	154	1,500	9,360	12,200	4,780	1,280	755	1,330	655	147	119	130
28	224	3,000	9,810	12,200	4,380	1,250	727	1,100	595	92	173	153
29	241	4,770	9,240	12,000	------	1,290	978	921	582	110	167	233
30	245	3,740	8,300	11,100	------	2,570	885	1,040	527	154	148	150
31	232	------	7,140	10,200	------	4,220	------	681	------	166	136	------
TOTAL	6,133	20,882	68,787	186,246	106,690	146,760	96,022	82,784	22,417	7,001	5,736	7,328
MEAN	198	696	2,219	6,008	3,810	4,734	3,201	2,670	747	226	185	244
MAX	373	4,770	9,810	16,600	10,500	11,000	9,760	7,590	1,450	534	394	471
MIN	120	134	344	671	1,090	1,250	718	610	457	92	119	130
CFSM	.10	.35	1.13	3.06	1.94	2.41	1.63	1.36	.38	.12	.09	.12
IN.	.12	.40	1.30	3.52	2.02	2.78	1.82	1.57	.42	.13	.11	.14

CAL YR 1973 TOTAL 739,816 MEAN 2,027 MAX 10,400 MIN 116 CFSM 1.03 IN 14.00
WTR YR 1974 TOTAL 756,786 MEAN 2,073 MAX 16,600 MIN 92 CFSM 1.05 IN 14.32

PEAK DISCHARGE (BASE, 9,500 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0945	15.03	9,880	03-06	1645	16.23	11,100
01-23	2345	20.80	17,000	03-10	1815	16.00	10,900
02-23	0800	15.79	10,600	04-05	1215	15.32	9,970

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^2 (5,514 km^2).

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.--49 years, 1,674 ft^3/s (47.41 m^3/s), 10.68 in/yr (271.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,800 ft^3/s (504 m^3/s) Jan. 24, gage height, 17.94 ft (5.468 m); minimum, 96 ft^3/s (2.72 m^3/s) Oct. 22.
Period of record: Maximum discharge, 26,200 ft^3/s (742 m^3/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum, 24 ft^3/s (0.68 m^3/s) Oct. 17, 1930, June 21, 22, 1933, gage height, 0.32 ft (0.098 m).
Flood of Mar. 27, 1913, estimated as 40,000 ft^3/s (1,130 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	245	2,900	6,040	9,160	3,820	4,240	962	800	533	205	153
2	269	314	1,990	4,720	7,150	3,510	4,210	866	930	528	151	146
3	188	203	1,640	3,300	5,280	2,960	4,170	850	840	394	142	183
4	234	237	1,450	2,560	4,010	3,220	6,980	852	750	417	234	367
5	283	218	1,370	2,220	3,210	8,160	9,280	770	640	372	305	328
6	311	203	1,230	1,770	2,530	10,700	9,370	738	694	349	237	291
7	190	193	1,080	1,590	2,040	10,700	8,190	677	728	356	210	250
8	205	239	878	1,230	1,720	9,030	6,700	766	699	311	175	255
9	234	352	734	834	1,650	8,450	6,050	2,420	1,010	320	190	283
10	294	144	664	970	1,580	9,700	5,030	2,340	1,040	305	237	269
11	352	170	535	920	1,420	10,200	4,340	1,930	878	305	308	247
12	231	168	493	830	1,400	7,840	3,620	4,310	962	296	195	237
13	190	175	459	760	1,310	6,410	3,220	4,720	790	261	193	462
14	178	168	595	680	1,380	5,340	2,930	3,930	648	253	185	452
15	183	173	645	640	1,310	4,490	2,720	5,030	836	250	255	269
16	153	247	724	740	1,210	4,870	2,140	6,460	679	266	237	373
17	160	255	570	1,000	1,180	5,410	2,030	5,620	617	213	242	317
18	165	231	450	1,740	1,260	4,460	1,690	7,450	536	185	382	308
19	130	218	410	4,860	1,430	3,440	1,440	5,890	516	146	258	319
20	135	200	360	7,040	3,640	3,020	1,250	3,990	472	175	221	285
21	158	190	420	11,800	4,550	2,920	1,140	3,320	718	242	231	231
22	126	200	360	14,700	7,330	2,340	1,160	3,060	907	178	221	190
23	142	193	390	16,800	10,400	2,340	1,130	3,140	1,800	180	178	170
24	124	200	480	17,700	9,950	1,970	1,020	3,500	1,340	213	158	163
25	156	291	700	16,800	7,950	1,660	976	2,640	1,240	170	180	153
26	130	1,080	3,370	14,700	5,410	1,650	809	1,800	990	173	158	151
27	137	1,660	8,390	13,300	4,590	1,580	869	1,400	730	156	142	139
28	146	1,860	9,440	12,900	4,420	1,480	818	1,200	660	168	135	130
29	213	4,420	9,190	12,600	------	1,560	982	1,100	612	124	178	158
30	250	4,190	8,060	11,900	------	1,830	1,090	1,100	571	115	195	229
31	261	------	6,920	10,500	------	3,700	------	950	------	165	168	------
TOTAL	6,079	18,637	66,897	198,144	108,470	148,760	99,594	83,781	24,633	8,119	6,506	7,508
MEAN	196	621	2,158	6,392	3,874	4,799	3,320	2,703	821	262	210	250
MAX	352	4,420	9,440	17,700	10,400	10,700	9,370	7,450	1,800	533	382	462
MIN	124	144	360	640	1,180	1,480	809	677	472	115	135	130
CFSM	.09	.29	1.01	3.00	1.82	2.25	1.56	1.27	.39	.12	.10	.12
IN.	.11	.33	1.17	3.46	1.90	2.60	1.74	1.46	.43	.14	.11	.13

CAL YR 1973 TOTAL 750,661 MEAN 2,057 MAX 10,800 MIN 120 CFSM .97 IN 13.12
WTR YR 1974 TOTAL 777,128 MEAN 2,129 MAX 17,700 MIN 115 CFSM 1.00 IN 13.58

PEAK DISCHARGE (BASE, 8,000 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	1200	12.61	9,490	03-07	0500	13.68	10,900
01-24	0700	17.94	17,800	03-11	0800	13.34	10,400
02-23	1400	13.38	10,500	04-06	0100	12.81	9,750

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, and 4 miles (6 km) northwest of North Liberty.

DRAINAGE AREA.--174 mi^2 (451 km^2), of which 58.2 mi^2 (150.7 km^2) 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 Indiana Flood Control and Water Resources Commission). Prior to June 26, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 146 ft^3/s (4.135 m^3/s), 11.39 in/yr (289 mm/yr).

EXTREMES.--Current year: Maximum discharge, 385 ft^3/s (10.9 m^3/s) May 17, gage height, 5.86 ft (1.786 m); minimum daily, 66 ft^3/s (1.87 m^3/s) Aug. 31, Sept. 5, 6.
Period of record: Maximum discharge, 686 ft^3/s (19.4 m^3/s) Oct. 10, 1954; maximum gage height, 9.04 ft (2.755 m) June 27, 1968; minimum daily discharge, 46 ft^3/s (1.30 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	134	117	139	196	186	191	167	178	160	89	68
2	94	134	112	132	188	185	269	162	174	157	90	71
3	96	129	109	126	180	189	255	160	170	152	91	69
4	105	127	113	120	172	210	358	155	166	153	90	67
5	109	124	134	116	168	335	336	153	164	159	87	66
6	100	121	138	115	164	309	296	151	166	156	85	66
7	97	120	132	122	160	318	266	147	166	150	82	67
8	95	118	128	139	160	323	248	164	173	146	82	70
9	93	115	123	125	160	322	230	182	177	142	82	76
10	93	114	120	117	162	290	217	175	177	140	83	95
11	93	111	116	117	164	258	213	175	172	138	85	114
12	94	110	128	140	166	240	219	220	173	136	83	122
13	109	110	130	150	166	218	233	203	165	130	81	128
14	132	111	143	138	164	207	229	185	163	128	77	122
15	121	113	140	128	160	203	215	208	236	126	76	116
16	112	109	131	122	154	200	201	266	199	120	76	105
17	107	108	126	126	152	197	193	361	183	118	78	99
18	104	109	120	150	152	191	187	354	177	114	80	93
19	103	108	113	200	161	194	186	304	173	110	76	87
20	100	107	115	260	170	188	181	260	169	108	72	83
21	98	109	99	320	166	187	177	236	273	112	70	80
22	96	107	99	350	296	183	175	268	273	122	70	77
23	94	106	113	360	323	181	170	325	286	120	70	74
24	93	107	150	360	263	175	165	280	238	114	71	73
25	95	107	230	340	228	170	162	236	209	106	72	71
26	94	104	248	310	207	170	160	216	191	102	72	70
27	94	105	242	280	197	166	157	203	181	98	72	70
28	98	114	215	250	192	166	158	193	174	96	71	70
29	97	133	167	234	------	167	170	190	169	93	69	76
30	99	127	160	218	------	169	173	186	165	89	68	73
31	102	------	148	206	------	172	------	183	------	89	66	------
TOTAL	3,098	3,451	4,359	6,010	5,191	6,669	6,390	6,668	5,680	3,884	2,416	2,518
MEAN	99.9	115	141	194	185	215	213	215	189	125	77.9	83.9
MAX	132	134	248	360	323	335	358	361	286	160	91	128
MIN	81	104	99	115	152	166	157	147	163	89	66	66
CFSM	.57	.66	.81	1.11	1.06	1.24	1.22	1.24	1.09	.72	.45	.48
IN.	.66	.74	.93	1.28	1.11	1.43	1.37	1.43	1.21	.83	.52	.54

CAL YR 1973 TOTAL 60,775 MEAN 167 MAX 651 MIN 56 CFSM .96 IN 12.99
WTR YR 1974 TOTAL 56,334 MEAN 154 MAX 361 MIN 66 CFSM .89 IN 12.04

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 400 South Road, 0.5 mile (0.8 km) east of State Road 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^2 (18.34 km^2), of which 4.07 mi^2 (10.54 km^2) does not contribute directly to surface runoff.

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

GAGE.--Water-stage recorder. Datum of gage is 753.00 ft (229.514 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 25 ft^3/s (0.71 m^3/s) Apr. 3, gage height, 4.69 ft (1.430 m); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Sept. 9, 10.
Period of record: Maximum discharge, 44 ft^3/s (1.25 m^3/s) Apr. 22, 1973, gage height, 5.44 ft (1.658 m); minimum daily, 0.83 ft^3/s (0.024 m^3/s) Dec. 3, 1971.

REMARKS.--Records good.

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	3.7	4.7	3.6	3.6	5.1	5.0	6.1	5.4	4.6	3.4	2.8	2.1
2	4.0	4.0	3.7	3.5	5.0	5.2	5.9	5.1	4.5	3.7	2.9	2.2
3	3.7	3.8	3.6	3.5	4.9	5.6	10	5.0	4.4	3.5	2.8	2.2
4	4.3	3.5	5.1	3.4	4.6	7.8	9.8	4.9	4.4	3.9	2.8	2.2
5	4.0	3.4	4.9	3.4	4.6	7.3	7.5	4.7	4.4	3.6	2.8	2.1
6	3.7	3.3	4.1	3.4	4.6	5.9	6.6	4.6	4.9	3.5	2.7	2.1
7	3.7	3.3	3.9	3.3	4.5	6.5	6.6	4.5	4.7	3.5	2.6	2.1
8	3.6	3.3	3.9	3.3	4.5	6.2	6.3	8.1	4.8	3.4	2.6	2.1
9	3.5	3.1	3.7	3.3	4.3	6.3	5.9	6.2	5.0	3.6	2.6	2.0
10	3.5	3.1	3.6	3.3	4.5	5.6	5.9	5.5	4.5	3.5	2.6	2.0
11	3.4	3.1	3.5	3.3	4.3	5.5	6.8	7.2	4.6	3.4	2.8	4.0
12	3.5	3.1	3.5	3.3	4.6	5.5	7.1	6.8	4.6	3.1	2.6	5.6
13	5.8	3.3	5.1	3.3	4.7	5.1	6.3	5.8	4.3	3.0	2.5	5.1
14	4.3	3.1	4.2	3.3	4.7	5.1	6.6	6.0	4.3	3.0	2.5	3.0
15	3.9	3.3	3.9	3.4	4.7	5.4	6.1	6.4	4.2	3.0	2.5	2.7
16	3.5	3.1	3.6	3.4	4.6	5.5	5.6	5.9	4.1	2.9	2.5	2.4
17	3.5	3.0	3.4	3.4	4.6	5.2	5.6	6.8	4.1	2.9	2.5	2.2
18	3.4	3.1	3.2	3.4	4.7	5.4	5.6	6.0	4.1	2.9	2.4	2.2
19	3.4	3.0	3.1	3.4	5.6	5.6	5.6	5.6	3.9	2.9	2.2	2.2
20	3.3	3.0	3.1	9.7	5.0	5.2	5.5	5.1	3.9	2.8	2.3	2.2
21	3.3	3.3	3.1	14	6.1	5.4	5.6	5.1	4.4	2.8	2.3	2.1
22	3.3	3.0	3.2	9.2	12	5.2	5.5	6.7	5.9	3.6	2.2	2.1
23	3.3	2.9	3.3	8.1	5.9	5.0	5.2	6.2	4.6	3.7	2.2	2.1
24	3.3	3.1	3.3	6.1	5.0	4.7	5.1	5.4	4.2	3.5	2.2	2.1
25	3.3	3.0	6.3	5.6	4.6	4.7	5.1	5.1	3.9	3.4	2.2	2.1
26	3.2	2.7	6.1	6.9	4.6	4.7	5.1	5.0	3.8	3.4	2.2	2.1
27	3.3	2.7	6.3	8.7	4.9	4.9	5.1	4.9	3.7	3.1	2.2	2.2
28	3.7	5.2	5.0	6.1	5.1	4.9	5.4	4.8	3.6	3.0	2.2	2.3
29	3.6	4.4	4.5	5.5	------	5.0	7.3	4.9	3.5	2.8	2.2	3.3
30	3.6	3.9	4.1	5.8	------	5.5	6.3	4.8	3.5	2.8	2.2	2.5
31	4.2	------	3.9	5.8	------	5.8	------	4.8	------	2.7	2.1	------
TOTAL	113.8	100.8	125.8	155.7	142.3	170.7	187.1	173.3	129.4	100.3	76.2	75.6
MEAN	3.67	3.36	4.06	5.02	5.08	5.51	6.24	5.59	4.31	3.24	2.46	2.52
MAX	5.8	5.2	6.3	14	12	7.8	10	8.1	5.9	3.9	2.9	5.6
MIN	3.2	2.7	3.1	3.3	4.3	4.7	5.1	4.5	3.5	2.7	2.1	2.0
CFSM	.52	.47	.57	.71	.72	.78	.88	.79	.61	.46	.35	.36
IN.	.60	.53	.66	.82	.75	.90	.98	.91	.68	.53	.40	.40

CAL YR 1973 TOTAL 2,390.6 MEAN 6.55 MAX 24 MIN 2.7 CFSM .93 IN 12.56
WTR YR 1974 TOTAL 1,551.0 MEAN 4.25 MAX 14 MIN 2.0 CFSM .60 IN 8.15

PEAK DISCHARGE (BASE, 15 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-20	2400	4.43	20	04-03	1900	4.69	25
02-21	2400	4.38	19				

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, and 4 miles (6 km) east of Hanna.

DRAINAGE AREA.--537 mi^2 (1,391 km^2), of which 137 mi^2 (355 km^2) 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, nonrecording 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.--50 years, 1924 to current year, 490 ft^3/s (13.88 m^3/s), 12.39 in/yr (313 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,310 ft^3/s (37.1 m^3/s) May 23, gage height, 11.57 ft (3.527 m); minimum daily, 211 ft^3/s (5.98 m^3/s) Sept. 5-7.

Period of record: Maximum discharge, 1,700 ft^3/s (48.1 m^3/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^3/s (14.7 m^3/s); maximum gage height at present site and datum, 12.11 ft (3.691 m) Jan. 4, 1973; minimum daily discharge, 154 ft^3/s (4.36 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	420	412	500	810	679	706	690	701	519	273	212
2	345	440	396	470	780	669	818	654	668	500	287	220
3	349	440	388	440	750	670	860	628	639	496	299	221
4	350	430	399	410	720	711	1,020	606	619	484	289	218
5	363	420	450	400	700	961	1,100	588	610	494	281	211
6	357	400	456	490	680	1,080	1,060	576	613	475	277	211
7	349	390	436	470	650	1,140	981	558	610	454	270	211
8	345	380	421	430	620	1,260	926	592	625	446	263	215
9	340	370	411	400	600	1,290	855	711	645	442	264	225
10	340	360	402	450	570	1,280	794	687	631	436	264	270
11	330	350	390	500	560	1,200	754	670	617	430	275	345
12	330	350	385	540	560	1,130	772	911	608	414	270	400
13	360	340	414	480	570	1,060	882	978	590	403	255	445
14	420	340	475	430	571	976	899	850	564	401	250	410
15	440	350	468	430	553	919	844	842	679	394	243	375
16	430	340	439	440	541	895	789	907	725	379	244	340
17	400	330	411	470	535	860	744	1,090	644	370	256	320
18	380	330	403	510	534	818	706	1,210	607	363	256	300
19	360	330	388	610	570	816	697	1,160	582	361	245	290
20	350	330	382	840	615	789	684	1,050	572	356	236	280
21	340	320	400	1,100	609	758	664	960	742	349	231	265
22	330	320	384	1,210	835	727	663	1,160	904	350	226	255
23	320	320	400	1,280	1,100	715	651	1,300	911	371	225	250
24	320	320	600	1,270	1,030	681	631	1,290	809	371	224	245
25	320	320	800	1,200	904	651	610	1,190	711	362	229	235
26	320	320	820	1,160	824	648	598	1,070	649	354	221	230
27	320	350	780	1,100	720	642	589	958	602	340	217	230
28	330	410	680	1,030	697	636	585	872	566	322	222	225
29	330	450	600	950	------	645	634	813	544	314	219	225
30	340	439	560	900	------	649	694	764	533	270	219	225
31	360	------	540	850	------	672	------	731	------	272	214	------
TOTAL	10,905	11,009	14,890	21,760	19,208	26,627	23,210	27,066	19,520	12,292	7,744	8,104
MEAN	352	367	480	702	686	859	774	873	651	397	250	270
MAX	440	450	820	1,280	1,100	1,290	1,100	1,300	911	519	299	445
MIN	320	320	382	400	534	636	585	558	533	270	214	211
CFSM	.66	.68	.89	1.31	1.28	1.60	1.44	1.63	1.21	.74	.47	.50
IN.	.76	.76	1.03	1.51	1.33	1.84	1.61	1.87	1.35	.85	.54	.56

CAL YR 1973 TOTAL 229,710 MEAN 629 MAX 1,450 MIN 289 CFSM 1.17 IN 15.91
WTR YR 1974 TOTAL 202,335 MEAN 554 MAX 1,300 MIN 211 CFSM 1.03 IN 14.02

05516500 Yellow River at Plymouth, Ind.

LOCATION.--Lat 41°20'25", long 86°18'16", in SE¼NW¼ 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 Seltenright (formerly Baker) ditch, and 8.1 miles (13.0 km) upstream from Wolf Creek.

DRAINAGE AREA.--294 mi^2 (761 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 249 ft^3/s (7.052 m^3/s), 11.50 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft^3/s (50.4 m^3/s) Jan. 24, gage height, 12.46 ft (3.798 m); minimum daily, 24 ft^3/s (0.68 m^3/s) Dec. 22.
Period of record: Maximum discharge, 5,390 ft^3/s (153 m^3/s) Oct. 12, 13, 1954, gage height, 17.13 ft (5.221 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Dec. 3, 7, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1950-51. WSP 2115: Drainage area. WRD Ind. 1973: 1972(M).

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	45	55	62	226	534	365	362	253	221	141	49	38
2	115	62	52	178	534	342	487	211	205	131	53	38
3	72	60	49	160	389	282	465	196	193	124	55	45
4	52	50	54	142	317	483	612	178	185	117	50	42
5	43	45	68	130	271	917	749	170	182	118	50	39
6	40	41	71	120	248	1,230	700	158	269	115	49	39
7	40	40	65	108	226	1,310	532	140	272	105	47	39
8	42	39	55	99	220	1,380	452	217	271	99	45	37
9	40	37	51	93	200	1,590	406	444	305	104	45	38
10	40	35	47	86	180	1,670	347	380	258	105	45	38
11	38	34	35	80	170	1,590	313	382	227	97	47	47
12	36	34	31	76	165	1,260	340	747	204	92	49	88
13	57	33	54	74	173	907	422	823	187	89	48	113
14	64	33	64	73	187	612	450	581	174	86	46	64
15	48	33	62	73	182	493	368	570	404	85	45	44
16	40	32	51	76	166	499	297	688	407	77	46	35
17	35	32	35	80	166	479	261	647	303	73	46	35
18	35	31	31	83	175	415	238	810	254	73	44	33
19	35	32	28	100	261	399	234	735	209	73	42	32
20	35	31	26	406	536	389	229	521	193	71	39	32
21	34	31	25	1,160	459	360	214	401	414	67	39	31
22	34	31	24	1,520	778	342	208	723	489	65	38	29
23	34	31	30	1,740	1,210	321	193	1,150	555	64	39	31
24	33	31	37	1,760	1,400	298	176	1,310	382	64	39	31
25	32	31	118	1,550	1,130	243	163	1,100	260	62	39	30
26	32	31	475	1,210	610	232	159	654	220	61	37	30
27	31	32	783	1,060	404	227	156	411	203	59	37	31
28	31	61	928	1,210	387	223	163	331	179	55	38	32
29	29	105	743	1,120	------	238	224	300	166	53	39	35
30	30	88	408	672	------	251	274	267	153	50	39	35
31	35	------	294	793	------	272	------	245	------	50	38	------
TOTAL	1,307	1,261	4,856	16,258	11,678	19,619	10,194	15,743	7,944	2,625	1,362	1,231
MEAN	42.2	42.0	157	524	417	633	340	508	265	84.7	43.9	41.0
MAX	115	105	928	1,760	1,400	1,670	749	1,310	555	141	55	113
MIN	29	31	24	73	165	223	156	140	153	50	37	29
CFSM	.14	.14	.53	1.78	1.42	2.15	1.16	1.73	.90	.29	.15	.14
IN.	.17	.16	.61	2.06	1.48	2.48	1.29	1.99	1.01	.33	.17	.16

CAL YR 1973 TOTAL 92,650 MEAN 254 MAX 1,890 MIN 24 CFSM .86 IN 11.72
WTR YR 1974 TOTAL 94,078 MEAN 258 MAX 1,760 MIN 24 CFSM .88 IN 11.90

05517000 Yellow River at Knox, Ind.

LOCATION.--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, 1.5 miles (2.4 km) downstream from Eagle Creek, and 9 miles (14 km) upstream from mouth.

DRAINAGE AREA.--435 mi^2 (1,127 km^2).

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 Indiana Flood Control and Water Resources Commission). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years (1943 to current year), 383 ft^3/s (10.85 m^3/s), 11.96 in/yr (304 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,320 ft^3/s (65.7 m^3/s) Jan. 25, Mar. 12, gage height, 8.50 ft (2.591 m); minimum daily, 99 ft^3/s (2.80 m^3/s) Dec. 20.
Period of record: Maximum discharge, 5,660 ft^3/s (160 m^3/s) Oct. 15, 16, 1954, gage height, 13.75 ft (4.191 m); minimum daily, 50 ft^3/s (1.42 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	148	210	509	1,080	626	505	472	482	279	147	101
2	144	157	178	410	1,050	589	585	443	443	264	152	102
3	173	161	162	380	848	568	673	402	409	252	153	107
4	153	153	162	340	647	610	730	375	387	243	150	109
5	137	146	172	300	558	849	854	349	368	236	146	107
6	131	144	188	270	503	1,120	962	334	407	236	143	105
7	127	140	181	240	470	1,370	916	316	482	230	140	105
8	125	137	171	220	430	1,570	784	332	507	220	137	103
9	123	137	164	205	410	1,760	698	460	521	219	137	102
10	123	135	159	185	380	2,120	638	596	510	244	135	102
11	122	133	168	172	360	2,260	579	574	459	225	137	107
12	120	133	150	163	350	2,230	550	710	415	213	137	155
13	131	133	157	157	344	1,850	585	882	375	206	136	239
14	146	135	176	151	353	1,350	642	972	352	198	135	213
15	142	135	178	153	360	953	652	841	345	196	134	161
16	133	135	168	161	339	804	580	796	549	189	133	138
17	127	135	150	173	331	773	513	925	551	183	131	128
18	123	137	121	189	331	725	468	985	462	180	133	122
19	123	135	107	235	366	675	439	1,050	415	178	131	117
20	123	135	99	319	502	652	427	995	365	175	129	114
21	122	140	100	835	659	628	413	786	439	169	125	112
22	122	142	102	1,290	742	594	397	806	628	170	125	110
23	123	140	108	1,620	1,020	562	384	1,180	673	176	122	109
24	123	142	136	2,070	1,270	532	365	1,530	696	174	120	109
25	120	146	179	2,280	1,540	484	342	1,660	555	170	118	109
26	120	148	358	2,170	1,510	453	328	1,570	441	165	116	109
27	122	150	664	1,830	958	444	321	1,090	387	161	114	109
28	123	164	864	1,490	674	433	320	712	352	157	109	113
29	125	220	972	1,410	------	407	398	609	319	153	107	117
30	127	260	903	1,450	------	457	451	558	296	150	106	116
31	133	------	611	1,280	------	482	------	519	------	148	104	------
TOTAL	4,011	4,456	8,218	22,657	18,385	28,930	16,499	23,829	13,590	6,159	4,042	3,650
MEAN	129	149	265	731	657	933	550	769	453	199	130	122
MAX	173	260	972	2,280	1,540	2,260	962	1,660	696	279	153	239
MIN	120	133	99	151	331	407	320	316	296	148	104	101
CFSM	.30	.34	.61	1.68	1.51	2.14	1.26	1.77	1.04	.46	.30	.28
IN.	.34	.38	.70	1.94	1.57	2.47	1.41	2.04	1.16	.53	.35	.31

CAL YR 1973 TOTAL 162,846 MEAN 446 MAX 2,940 MIN 99 CFSM 1.03 IN 13.93
WTR YR 1974 TOTAL 154,426 MEAN 423 MAX 2,280 MIN 99 CFSM .97 IN 13.21

PEAK DISCHARGE (BASE, 1,600 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-25	1700	8.50	2,320	03-12	0400	8.50	2,320
02-26	0100	7.74	1,660	05-25	1900	7.77	1,680

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, and 3.5 miles (5.6 km) upstream from Davis ditch.

DRAINAGE AREA.--1,352 mi^2 (3,502 km^2), of which 192 mi^2 (497 km^2) 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 Indiana Flood Control and Water Resources Commission). Prior to July 17, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 1,282 ft^3/s (36.31 m^3/s), 12.88 in/yr (327 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,530 ft^3/s (100 m^3/s) Mar. 13, gage height, 10.97 ft (3.344 m); minimum daily, 450 ft^3/s (12.7 m^3/s) Sept. 9.
Period of record: Maximum discharge, 5,300 ft^3/s (150 m^3/s) Oct. 22, 1954, gage height, 13.20 ft (4.023 m); minimum daily, 280 ft^3/s (7.93 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	641	826	1,790	3,130	2,250	1,900	1,720	2,480	1,270	667	463
2	674	689	797	1,620	3,000	2,130	1,980	1,700	2,280	1,220	705	455
3	657	697	781	1,400	2,850	2,050	2,100	1,630	2,100	1,190	744	478
4	651	683	792	1,260	2,630	2,040	2,320	1,540	1,940	1,160	710	490
5	638	669	850	1,100	2,390	2,210	2,510	1,470	1,820	1,150	690	473
6	627	650	892	960	2,180	2,450	2,620	1,410	1,770	1,130	670	463
7	617	640	883	890	2,020	2,620	2,660	1,350	1,750	1,090	649	465
8	614	641	863	850	1,900	2,870	2,650	1,400	1,780	1,060	636	455
9	613	629	845	930	1,760	3,100	2,570	1,610	1,810	1,040	641	450
10	599	620	834	1,030	1,640	3,260	2,460	1,750	1,810	1,030	636	458
11	596	616	803	1,110	1,540	3,380	2,340	1,840	1,740	1,030	649	468
12	586	625	791	990	1,500	3,480	2,260	2,040	1,660	984	649	580
13	633	632	822	870	1,520	3,520	2,280	2,260	1,580	951	620	817
14	741	634	880	1,000	1,530	3,480	2,310	2,380	1,500	929	594	923
15	771	633	895	1,210	1,490	3,360	2,310	2,430	1,460	915	567	820
16	734	625	872	1,170	1,450	3,180	2,240	2,400	1,580	884	549	736
17	692	619	800	1,020	1,420	2,990	2,150	2,570	1,700	853	570	687
18	674	623	763	950	1,400	2,840	2,040	2,850	1,620	831	599	654
19	658	627	750	1,010	1,460	2,710	1,940	2,960	1,520	825	562	628
20	647	617	681	1,200	1,580	2,600	1,850	2,960	1,440	806	526	604
21	643	625	620	1,980	1,690	2,510	1,780	2,910	1,430	784	509	585
22	631	630	590	2,530	2,000	2,400	1,720	2,980	1,730	770	502	572
23	629	626	620	2,800	2,330	2,280	1,660	3,210	1,920	825	500	565
24	619	621	700	2,970	2,510	2,150	1,620	3,320	1,960	825	507	557
25	592	653	857	3,110	2,600	2,010	1,570	3,400	1,910	798	502	549
26	577	671	1,200	3,210	2,640	1,900	1,510	3,470	1,750	795	495	552
27	558	684	1,590	3,290	2,620	1,820	1,470	3,460	1,580	775	485	549
28	557	700	1,930	3,330	2,450	1,770	1,450	3,360	1,470	741	480	562
29	570	779	2,090	3,310	------	1,760	1,550	3,150	1,370	719	478	577
30	576	837	2,120	3,260	------	1,810	1,680	2,920	1,320	680	483	623
31	595	------	2,020	3,210	------	1,850	------	2,710	------	672	475	------
TOTAL	19,608	19,636	30,757	55,360	57,230	78,780	61,500	75,160	51,780	28,732	18,049	17,258
MEAN	633	655	992	1,786	2,044	2,541	2,050	2,425	1,726	927	582	575
MAX	771	837	2,120	3,330	3,130	3,520	2,660	3,470	2,480	1,270	744	923
MIN	557	616	590	850	1,400	1,760	1,450	1,350	1,320	672	475	450
CFSM	.47	.48	.73	1.32	1.51	1.88	1.52	1.79	1.28	.69	.43	.43
IN.	.54	.54	.85	1.52	1.57	2.17	1.69	2.07	1.42	.79	.50	.47

CAL YR 1973 TOTAL 556,776 MEAN 1,525 MAX 3,720 MIN 543 CFSM 1.13 IN 15.32
WTR YR 1974 TOTAL 513,850 MEAN 1,408 MAX 3,520 MIN 450 CFSM 1.04 IN 14.14

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^2 (82.1 km^2).

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.--6 years, 33.4 ft^3/s (0.946 m^3/s), 14.31 in/yr (363 mm/yr).

EXTREMES.--Current year: Maximum discharge, 347 ft^3/s (9.83 m^3/s) Feb. 22, gage height, 6.67 ft (2.033 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Jan. 15.
Period of record: Maximum discharge, 744 ft^3/s (21.1 m^3/s) Apr. 22, 1973, gage height, 9.64 ft (2.938 m); minimum daily discharge, 11 ft^3/s (0.31 m^3/s) Oct. 23, 1968, Feb. 3, 1971.

REMARKS.--Records fair.

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	14	17	16	19	54	56	52	40	48	23	19	15
2	13	16	16	17	47	50	53	36	44	23	19	15
3	13	16	16	15	42	50	67	33	41	23	19	15
4	13	15	17	16	38	62	214	27	38	23	19	15
5	13	15	20	18	36	134	109	26	37	23	19	15
6	13	15	19	16	34	67	79	24	37	22	18	15
7	13	15	17	16	31	161	62	23	37	22	18	15
8	13	15	17	15	27	100	53	33	45	21	18	15
9	14	15	17	15	25	130	47	55	44	22	18	15
10	14	14	17	17	23	90	42	53	37	21	19	15
11	14	14	23	16	21	66	58	52	34	21	20	15
12	14	15	16	15	20	61	75	48	33	21	20	20
13	17	15	17	14	20	51	79	44	31	20	21	31
14	17	15	18	13	21	45	73	47	30	20	20	19
15	15	15	18	12	24	43	60	54	30	20	19	17
16	15	15	16	13	26	43	45	80	29	20	19	16
17	14	15	15	14	26	40	39	170	28	20	19	16
18	14	15	14	15	26	37	36	250	28	20	19	16
19	14	15	17	16	31	37	34	190	27	20	19	16
20	14	15	24	64	34	35	32	140	27	19	19	15
21	14	15	23	290	38	34	32	80	28	19	18	15
22	14	15	21	203	267	34	31	270	30	21	19	15
23	14	15	19	148	110	32	30	230	30	22	20	15
24	14	15	18	93	68	30	29	180	28	21	19	15
25	14	15	23	77	53	29	27	150	26	20	18	15
26	14	15	34	73	47	28	26	104	26	20	18	15
27	15	15	33	162	45	26	24	83	24	19	17	15
28	16	16	30	94	56	28	25	72	24	19	15	15
29	16	17	26	69	------	30	52	66	23	19	15	15
30	15	17	23	62	------	58	45	58	23	19	15	15
31	15	------	21	72	------	72	------	53	------	18	15	------
TOTAL	442	457	621	1,699	1,290	1,759	1,630	2,771	967	641	570	481
MEAN	14.3	15.2	20.0	54.8	46.1	56.7	54.3	89.4	32.2	20.7	18.4	16.0
MAX	17	17	34	290	267	161	214	270	48	23	21	31
MIN	13	14	14	12	20	26	24	23	23	18	15	15
CFSM	.45	.48	.63	1.73	1.45	1.79	1.71	2.82	1.02	.65	.58	.50
IN.	.52	.54	.73	1.99	1.51	2.06	1.91	3.25	1.13	.75	.67	.56

CAL YR 1973 TOTAL 13,676 MEAN 37.5 MAX 499 MIN 13 CFSM 1.18 IN 16.05
WTR YR 1974 TOTAL 13,328 MEAN 36.5 MAX 290 MIN 12 CFSM 1.15 IN 15.64

PEAK DISCHARGE (BASE, 150 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	1200	6.55	333	03-05	0400	5.14	189	05-18	unknown	unknown	290[a]
01-27	0900	5.26	201	03-07	1400	5.89	264	05-22	unknown	unknown	320[a]
02-22	1300	6.67	347	04-04	0500	6.31	307				

a about

05518000 Kankakee River at Shelby, Ind.

LOCATION.--Lat 41°10'58", long 87°20'33", in SW¼NE¼ 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, and 9 miles (14 km) upstream from Beaver Lake Creek.

DRAINAGE AREA.--1,779 mi^2 (4,608 km^2), of which 201 mi^2 (521 km^2) 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.--52 years, 1,564 ft^3/s (44.29 m^3/s), 11.94 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,700 ft^3/s (133 m^3/s) May 24, gage height, 10.82 ft (3.298 m); minimum daily, 510 ft^3/s (14.4 m^3/s) Sept. 10.

Period of record: Maximum discharge, 7,200 ft^3/s (204 m^3/s) Dec. 21, 1927, gage height, 11.40 ft (3.475 m), site then in use, from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) by gage-height relation study with site below railroad bridge; minimum daily, 260 ft^3/s (7.36 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	719	809	995	2,510	4,240	3,290	2,910	2,400	3,800	1,580	742	524
2	755	854	971	2,270	4,140	3,150	2,940	2,400	3,530	1,510	763	518
3	767	878	965	2,080	3,980	3,040	2,990	2,320	3,290	1,430	802	525
4	770	878	986	1,800	3,800	2,990	3,370	2,210	3,070	1,380	801	540
5	752	869	1,070	1,600	3,590	3,120	3,680	2,100	2,870	1,350	773	536
6	746	863	1,150	1,400	3,370	3,280	3,750	1,990	2,740	1,320	740	530
7	740	830	1,160	1,200	3,150	3,410	3,740	1,880	2,710	1,270	709	524
8	734	812	1,160	1,100	2,940	3,640	3,720	1,930	2,670	1,240	708	518
9	731	809	1,140	1,150	2,740	3,930	3,650	2,200	2,660	1,200	704	514
10	725	803	1,100	1,450	2,560	4,120	3,550	2,350	2,610	1,170	707	510
11	713	794	1,040	1,400	2,400	4,210	3,460	2,450	2,550	1,160	734	515
12	707	812	1,030	1,250	2,290	4,290	3,430	2,690	2,490	1,140	737	577
13	743	812	1,060	1,150	2,260	4,330	3,440	2,900	2,370	1,090	705	805
14	845	827	1,120	1,300	2,260	4,350	3,490	3,010	2,240	1,050	683	952
15	914	818	1,150	1,600	2,200	4,350	3,490	3,090	2,120	1,030	657	946
16	911	803	1,130	1,600	2,150	4,340	3,420	3,120	2,020	1,000	637	857
17	869	776	1,070	1,330	2,100	4,270	3,310	3,470	2,060	961	642	796
18	830	770	1,000	1,200	2,070	4,120	3,190	4,030	2,100	929	657	753
19	812	800	960	1,300	2,120	3,960	3,080	4,190	2,000	918	652	722
20	803	806	900	1,700	2,230	3,800	2,920	4,180	1,890	905	607	698
21	785	818	840	2,840	2,330	3,670	2,760	4,110	1,860	879	580	674
22	773	809	800	3,540	2,800	3,550	2,640	4,200	1,970	868	575	655
23	752	797	820	3,780	3,350	3,430	2,500	4,490	2,270	904	575	644
24	752	788	900	3,890	3,390	3,270	2,360	4,630	2,390	924	578	633
25	734	806	1,100	3,940	3,390	3,100	2,260	4,610	2,390	908	571	614
26	725	836	1,600	3,990	3,410	2,960	2,150	4,600	2,300	884	565	626
27	722	836	2,000	4,090	3,400	2,820	2,030	4,530	2,140	868	553	625
28	731	836	2,390	4,250	3,390	2,730	1,980	4,440	1,940	839	544	636
29	728	902	2,570	4,290	------	2,690	2,120	4,350	1,790	812	540	658
30	749	971	2,650	4,280	------	2,760	2,290	4,220	1,660	772	539	681
31	761	------	2,630	4,270	------	2,860	------	4,020	------	744	536	------
TOTAL	23,798	24,822	39,457	73,550	82,050	109,830	90,620	103,110	72,500	33,035	20,316	19,306
MEAN	768	827	1,273	2,373	2,930	3,543	3,021	3,326	2,417	1,066	655	644
MAX	914	971	2,650	4,290	4,240	4,350	3,750	4,630	3,800	1,580	802	952
MIN	707	770	800	1,100	2,070	2,690	1,980	1,880	1,660	744	536	510
CFSM	.43	.46	.72	1.33	1.65	1.99	1.70	1.87	1.36	.60	.37	.36
IN.	.50	.52	.83	1.54	1.72	2.30	1.89	2.16	1.52	.69	.42	.40

CAL YR 1973 TOTAL 776,078 MEAN 2,126 MAX 5,040 MIN 659 CFSM 1.20 IN 16.23
WTR YR 1974 TOTAL 692,394 MEAN 1,897 MAX 4,630 MIN 510 CFSM 1.07 IN 14.48

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^2 (319 km^2).

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.--26 years, 102 ft^3/s (2.889 m^3/s), 11.26 in/yr (286 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) May 17, gage height, 11.70 ft (3.566 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Sept. 9, 10.
Period of record: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) May 17, 1974, gage height, 11.70 ft (3.566 m); minimum daily, 3.6 ft^3/s (0.102 m^3/s) Sept. 7, 8, 10, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1915: 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	35	29	62	266	200	253	148	170	64	27	20
2	24	33	28	55	223	177	228	122	144	60	28	20
3	22	30	28	62	191	160	214	112	127	58	29	20
4	25	28	33	70	162	185	437	101	114	56	29	21
5	26	28	60	70	135	330	363	94	108	54	27	20
6	22	27	57	68	120	258	303	87	107	52	23	20
7	22	27	50	60	110	238	251	82	120	50	22	20
8	23	27	46	57	105	470	220	165	152	48	24	20
9	23	27	50	56	100	468	196	218	183	47	22	19
10	25	26	46	77	98	396	175	171	151	46	23	19
11	26	27	72	80	97	294	210	161	127	44	36	20
12	26	26	70	70	99	266	305	218	118	43	31	23
13	31	29	52	50	102	239	278	188	104	42	29	62
14	30	31	45	50	102	197	255	159	96	42	26	38
15	27	31	38	52	94	184	241	199	94	41	26	29
16	26	31	34	53	92	199	203	205	82	38	26	26
17	26	29	33	54	90	189	178	982	75	38	26	25
18	27	27	35	64	90	179	157	1,130	72	37	24	24
19	28	27	38	77	113	175	147	1,030	68	38	24	23
20	27	26	38	250	137	159	134	862	66	36	22	22
21	25	27	35	919	171	148	122	755	83	35	22	21
22	23	27	30	844	881	140	117	1,030	123	36	21	20
23	23	27	40	719	750	129	110	1,050	157	38	26	20
24	24	26	60	561	516	114	103	929	111	35	25	20
25	24	27	143	444	337	105	96	756	97	33	23	20
26	24	27	216	361	253	101	92	596	92	33	22	20
27	24	26	177	516	214	94	86	445	78	32	22	20
28	26	29	163	464	215	95	89	356	72	31	22	21
29	26	32	152	350	------	106	128	277	70	29	22	24
30	26	31	100	304	------	206	163	231	68	27	21	23
31	27	------	80	317	------	301	------	200	------	27	20	------
TOTAL	780	851	2,078	7,236	5,863	6,502	5,854	13,059	3,229	1,290	770	700
MEAN	25.2	28.4	67.0	233	209	210	195	421	108	41.6	24.8	23.3
MAX	31	35	216	919	881	470	437	1,130	183	64	36	62
MIN	22	26	28	50	90	94	86	82	66	27	20	19
CFSM	.20	.23	.54	1.89	1.70	1.71	1.59	3.42	.88	.34	.20	.19
IN.	.24	.26	.63	2.19	1.77	1.97	1.77	3.95	.98	.39	.23	.21

CAL YR 1973 TOTAL 55,761 MEAN 153 MAX 1,040 MIN 22 CFSM 1.24 IN 16.86
WTR YR 1974 TOTAL 48,212 MEAN 132 MAX 1,130 MIN 19 CFSM 1.07 IN 14.58

PEAK DISCHARGE (BASE, 730 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	1400	10.42	1,010	05-17	1330	11.70	1,380
02-22	1500	10.54	1,030	05-22	2400	10.00	1,080

05520000 Singleton ditch at Illinoi, 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 Illinoi, and beside the Cleveland, Cincinnati, Chicago, and St. Louis Railway.

DRAINAGE AREA.--220 mi^2 (570 km^2).

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.--30 years, 178 ft^3/s (5.041 m^3/s), 10.99 in/yr (279 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,800 ft^3/s (51.0 m^3/s) May 17, gage height, 9.68 ft (2.950 m); minimum daily, 32 ft^3/s (0.91 m^3/s) Sept. 9.
Period of record: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) Feb. 14, 23, 1959; maximum gage height, 10.40 ft (3.170 m) June 13, 1972; minimum daily discharge, 6.0 ft^3/s (0.17 m^3/s) Sept. 8, 9, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1948(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	63	48	110	496	386	437	255	341	115	58	35
2	48	58	47	100	412	327	379	218	297	110	61	36
3	46	56	49	110	348	297	344	203	268	107	61	40
4	49	50	62	120	294	309	672	182	246	104	59	39
5	51	47	111	125	250	512	618	171	230	101	56	36
6	44	47	100	120	210	451	531	164	224	97	46	35
7	44	46	84	105	200	396	441	154	229	95	43	34
8	44	47	76	100	190	484	375	263	296	91	43	34
9	44	46	79	95	180	753	334	383	360	90	43	32
10	45	47	136	130	175	691	302	301	309	90	47	33
11	48	45	143	140	175	535	368	276	263	85	109	34
12	48	45	90	120	175	473	541	348	244	82	80	41
13	60	48	89	88	177	445	490	312	218	81	62	123
14	64	52	76	89	177	377	439	276	203	81	56	75
15	55	51	64	92	165	346	406	364	192	77	52	60
16	51	49	60	94	161	368	344	360	174	63	48	52
17	53	45	58	100	154	357	296	1,290	157	62	45	46
18	51	45	60	110	153	342	265	1,580	150	62	43	43
19	52	46	68	221	192	359	248	1,480	141	62	41	40
20	49	43	68	431	240	306	229	1,270	140	59	39	39
21	46	45	62	1,540	255	291	213	1,130	141	58	38	38
22	44	48	54	1,560	1,450	281	212	1,440	194	59	37	37
23	43	45	70	1,350	1,360	259	197	1,480	299	62	47	36
24	44	44	90	1,050	924	230	186	1,290	207	56	45	36
25	43	46	185	808	650	212	176	1,090	174	64	42	35
26	44	44	504	683	504	206	171	895	159	63	40	35
27	44	43	368	941	451	192	162	757	144	61	39	34
28	50	51	311	855	451	185	157	631	134	58	40	36
29	48	56	260	661	------	203	210	533	126	54	40	45
30	47	52	170	576	------	351	271	459	122	51	38	43
31	49	------	140	593	------	508	------	396	------	51	36	------
TOTAL	1,491	1,450	3,782	13,217	10,569	11,432	10,014	19,951	6,382	2,351	1,534	1,282
MEAN	48.1	48.3	122	426	377	369	334	644	213	75.8	49.5	42.7
MAX	64	63	504	1,560	1,450	753	672	1,580	360	115	109	123
MIN	43	43	47	88	153	185	157	154	122	51	36	32
CFSM	.22	.22	.55	1.94	1.71	1.68	1.52	2.93	.97	.34	.23	.19
IN.	.25	.25	.64	2.23	1.79	1.93	1.69	3.37	1.08	.40	.26	.22

CAL YR 1973 TOTAL 98,203 MEAN 269 MAX 1,880 MIN 41 CFSM 1.22 IN 16.61
WTR YR 1974 TOTAL 83,455 MEAN 229 MAX 1,580 MIN 32 CFSM 1.04 IN 14.11

PEAK DISCHARGE (BASE, 1,100 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	2100	9.37	1,710	05-17	1100	9.68	1,800
02-22	1700	9.55	1,760	05-23	0100	8.76	1,530

05520500 Kankakee River at Momence, 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 Momence, 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.--2,340 mi^2 (6,060 km^2), approximately.

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft (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.--59 years (1915-74), 1,905 ft^3/s (53.95 m^3/s), 11.05 in/yr (281 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,000 ft^3/s (283 m^3/s) May 22, gage height, 6.05 ft (1.844 m); maximum gage height, 7.99 ft (2.435 m) Jan. 3, ice jam; minimum discharge, 576 ft^3/s (16.3 m^3/s) Sept. 9-11.
Period of record: Maximum discharge, 10,100 ft^3/s (286 m^3/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^3/s (8.67 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	865	845	1,020	2,600	5,330	4,120	3,890	3,170	4,860	2,180	898	625
2	891	872	1,020	2,400	5,090	4,000	3,790	3,160	4,590	2,050	910	613
3	905	903	1,010	2,200	4,900	3,840	3,760	3,130	4,280	1,900	942	617
4	910	916	1,080	2,000	4,680	3,790	4,430	3,020	3,970	1,800	961	618
5	905	894	1,230	1,750	4,490	4,080	4,630	2,910	3,690	1,700	944	622
6	872	881	1,270	1,550	4,230	4,040	4,820	2,780	3,500	1,600	905	609
7	866	867	1,280	1,400	4,040	4,050	4,770	2,650	3,420	1,530	860	601
8	860	847	1,270	1,250	3,770	4,400	4,640	2,950	3,570	1,500	849	597
9	856	833	1,270	1,400	3,600	5,230	4,480	3,210	3,610	1,450	851	589
10	853	827	1,210	1,550	3,320	5,370	4,350	3,190	3,510	1,400	863	576
11	833	822	1,160	1,500	3,140	5,240	4,280	3,270	3,390	1,360	1,110	582
12	829	833	1,170	1,450	2,870	5,160	4,460	3,490	3,300	1,320	1,010	623
13	888	841	1,170	1,300	2,740	5,130	4,270	3,630	3,210	1,300	946	853
14	954	857	1,220	1,500	2,680	5,010	4,160	3,750	3,090	1,280	884	985
15	1,010	859	1,240	1,750	2,610	5,000	4,140	4,090	2,940	1,240	843	1,030
16	1,010	843	1,220	1,650	2,560	5,080	4,000	4,180	2,760	1,200	821	990
17	998	822	1,240	1,500	2,510	5,100	3,860	7,130	2,630	1,160	814	909
18	953	804	1,400	1,400	2,470	5,060	3,720	8,790	2,590	1,120	803	848
19	922	814	1,200	1,600	2,570	4,940	3,580	8,480	2,590	1,100	801	807
20	900	838	1,200	2,000	2,720	4,740	3,430	8,030	2,530	1,080	773	775
21	875	857	1,080	2,900	2,840	4,540	3,290	7,890	2,480	1,040	732	750
22	856	860	1,080	3,700	4,850	4,330	3,140	9,660	2,550	1,000	705	724
23	839	843	1,250	4,000	5,390	4,140	3,010	8,550	2,880	1,040	706	705
24	830	843	1,350	4,500	5,110	3,950	2,890	7,700	2,830	1,060	710	688
25	830	846	2,140	5,000	4,750	3,770	2,790	7,220	2,870	1,050	697	672
26	794	867	2,230	5,350	4,420	3,610	2,700	6,770	2,870	1,020	688	668
27	792	880	2,390	5,810	4,240	3,420	2,630	6,320	2,780	1,000	679	671
28	804	899	3,030	5,860	4,180	3,290	2,620	5,940	2,650	980	654	675
29	791	926	3,010	5,600	------	3,260	2,910	5,620	2,480	950	646	716
30	794	970	2,870	5,460	------	3,600	3,110	5,360	2,290	939	641	714
31	812	------	2,700	5,490	------	3,950	------	5,130	------	927	635	------
TOTAL	27,097	25,809	47,010	87,420	106,100	135,240	112,550	161,170	94,710	40,276	25,281	21,452
MEAN	874	860	1,516	2,820	3,789	4,363	3,752	5,199	3,157	1,299	816	715
MAX	1,010	970	3,030	5,860	5,390	5,370	4,820	9,660	4,860	2,180	1,110	1,030
MIN	791	804	1,010	1,250	2,470	3,260	2,620	2,650	2,290	927	635	576
CFSM	.37	.37	.65	1.21	1.62	1.86	1.60	2.22	1.35	.56	.35	.31
IN.	.43	.41	.75	1.39	1.69	2.15	1.79	2.56	1.51	.64	.40	.34

CAL YR 1973 TOTAL 971,649 MEAN 2,662 MAX 7,630 MIN 770 CFSM 1.14 IN 15.45
WTR YR 1974 TOTAL 884,115 MEAN 2,422 MAX 9,660 MIN 576 CFSM 1.04 IN 14.06

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, 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, and 2 miles (3 km) east of Parr.

DRAINAGE AREA.--35.6 mi^2 (92.2 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

AVERAGE DISCHARGE.--26 years, 25.7 ft^3/s (0.728 m^3/s), 9.80 in/yr (249 mm/yr).

EXTREMES.--Current year: Maximum discharge, 435 ft^3/s (12.32 m^3/s) May 17, gage height, 8.04 ft (2.451 m): minimum daily, 3.2 ft^3/s (0.09 m^3/s) Sept. 1, 10.
Period of record: Maximum discharge, 435 ft^3/s (12.3 m^3/s) May 17, 1974; maximum gage height, 8.86 ft (2.700 m) Feb. 10, 1959; minimum daily discharge, 0.5 ft^3/s (0.014 m^3/s) Oct. 11, 12, 19, 1964.

REMARKS.--Records good.

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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	13	9.5	35	58	50	68	35	46	21	6.7	3.2
2	8.8	9.8	8.8	28	43	49	63	33	42	18	7.5	3.4
3	8.1	8.9	11	25	35	47	71	30	39	18	6.9	3.7
4	8.1	8.8	21	26	30	78	144	27	36	18	6.4	3.6
5	7.6	8.9	32	24	26	210	108	26	37	17	6.4	3.3
6	7.2	9.3	22	19	24	144	82	24	41	16	6.1	3.3
7	6.8	9.3	18	17	23	96	66	23	42	15	5.8	3.9
8	6.5	9.7	17	18	22	78	59	66	38	14	5.3	3.9
9	6.5	8.4	16	18	21	80	51	69	39	16	5.1	3.4
10	6.3	8.6	17	17	24	74	47	52	36	20	5.4	3.2
11	6.2	7.7	26	14	27	63	46	78	33	17	7.2	4.2
12	6.3	7.7	15	12	30	63	50	138	34	15	5.3	7.9
13	12	7.6	16	13	35	58	63	81	31	14	4.6	8.2
14	14	7.6	16	15	38	51	54	64	30	12	4.5	6.6
15	10	7.7	15	18	34	54	43	75	31	12	4.5	5.3
16	8.8	7.1	14	20	33	65	39	59	28	11	5.0	4.9
17	7.9	6.8	12	22	32	62	36	286	27	10	6.4	4.6
18	7.6	7.1	10	30	33	64	33	340	25	9.9	4.7	4.5
19	7.4	6.6	25	80	56	58	32	272	25	9.9	4.2	4.1
20	7.9	6.5	32	140	60	50	30	200	24	9.3	4.1	4.0
21	7.4	8.1	19	270	62	48	31	161	27	8.8	4.0	4.3
22	7.1	7.4	12	250	206	46	31	324	52	9.9	3.9	5.1
23	6.6	6.6	14	180	157	43	28	272	59	9.9	3.9	4.6
24	6.5	6.6	17	140	95	39	25	175	38	9.0	4.6	4.5
25	6.6	7.4	86	120	67	37	25	116	32	8.3	4.5	4.1
26	6.3	7.6	117	98	55	37	24	91	28	8.0	3.5	4.0
27	6.9	7.2	107	85	52	36	24	76	26	7.7	3.4	4.2
28	7.9	13	81	76	53	39	27	66	24	7.2	3.9	4.3
29	7.4	14	63	72	------	44	45	62	23	5.8	3.9	4.6
30	7.7	11	45	70	------	81	43	57	22	6.4	3.5	4.1
31	9.1	------	40	68	------	87	------	52	------	6.4	3.4	------
TOTAL	240.9	256.0	954.3	2,020	1,431	2,031	1,488	3,430	1,015	380.5	154.6	133.0
MEAN	7.77	8.53	30.8	65.2	51.1	65.5	49.6	111	33.8	12.3	4.99	4.43
MAX	14	14	117	270	206	210	144	340	59	21	7.5	8.2
MIN	6.2	6.5	8.8	12	21	36	24	23	22	5.8	3.4	3.2
CFSM	.22	.24	.87	1.83	1.44	1.84	1.39	3.12	.95	.35	.14	.12
IN.	.25	.27	1.00	2.11	1.50	2.12	1.55	3.58	1.06	.40	.16	.14

CAL YR 1973 TOTAL 13,159.0 MEAN 36.1 MAX 248 MIN 5.4 CFSM 1.01 IN 13.75
WTR YR 1974 TOTAL 13,534.3 MEAN 37.1 MAX 340 MIN 3.2 CFSM 1.04 IN 14.14

PEAK DISCHARGE (BASE, 150 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
01-21	unknown	6.80	296	05-12	0200	5.15	167
02-22	1400	5.95	225	05-17	1730	8.04	435
03-05	0800	5.93	224	05-23	0130	7.19	337
04-04	0530	5.14	167				

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, and 3.5 miles (5.6 km) northeast of Rensselaer.

DRAINAGE AREA.--144 mi^2 (373 km^2).

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.--25 years (1949 to current year), 125 ft^3/s (3.540 m^3/s), 11.79 in/yr (299 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) May 23, gage height, 13.57 ft (4.136 m); minimum daily, 9.9 ft^3/s (0.28 m^3/s) Sept. 4, 7, 10.
Period of record: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) June 10, 1958, gage height, 15.09 ft (4.599 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) Sept. 15, 1964.

REMARKS.--Records good. Water can be diverted either way between Oliver ditch, an upstream tributary, and Ryan ditch, which enters below station.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	63	64	217	344	219	350	254	224	67	18	11
2	45	66	58	180	276	210	297	212	195	55	21	10
3	42	60	57	150	228	205	263	177	176	51	24	12
4	38	53	81	135	184	266	438	149	154	51	22	9.9
5	35	46	178	135	120	674	520	138	145	51	19	12
6	31	44	152	120	110	791	493	129	147	44	16	12
7	30	42	109	105	120	731	408	118	151	44	17	9.9
8	28	44	96	100	110	615	308	190	155	42	17	11
9	28	43	88	100	100	511	259	337	160	38	16	10
10	26	37	73	110	100	445	223	316	164	50	17	9.9
11	26	39	74	100	110	372	208	265	156	43	24	11
12	25	38	88	90	120	315	210	450	141	38	20	22
13	41	38	88	82	133	276	244	524	130	36	18	45
14	79	38	86	100	154	236	265	458	117	32	17	34
15	62	39	81	120	136	220	229	388	113	32	16	23
16	50	36	70	131	132	255	192	372	109	25	14	19
17	45	32	57	145	129	265	169	490	105	25	23	18
18	41	31	43	153	130	262	156	905	88	21	19	21
19	38	31	50	281	173	250	148	1,120	84	22	16	17
20	37	31	64	471	250	224	141	1,160	80	20	13	16
21	34	35	96	870	241	203	137	1,080	74	20	11	14
22	31	38	88	1,080	504	192	142	1,150	85	27	13	14
23	29	35	83	1,130	678	179	129	1,290	202	35	13	13
24	29	34	81	1,030	635	159	132	1,310	150	28	11	14
25	29	37	205	885	510	146	113	1,200	117	25	11	20
26	30	43	427	745	366	148	112	964	100	23	11	14
27	29	47	555	653	247	143	104	769	84	21	11	14
28	33	55	579	581	225	141	108	598	80	21	11	15
29	35	98	511	491	------	157	216	451	76	20	14	17
30	37	82	398	413	------	244	282	329	71	15	12	15
31	39	------	292	388	------	363	------	258	------	16	11	------
TOTAL	1,133	1,355	4,972	11,291	6,565	9,417	6,996	17,551	3,833	1,038	496	483.7
MEAN	36.5	45.2	160	364	234	304	233	566	128	33.5	16.0	16.1
MAX	79	98	579	1,130	678	791	520	1,310	224	67	24	45
MIN	25	31	43	82	100	141	104	118	71	15	11	9.9
CFSM	.25	.31	1.11	2.53	1.63	2.11	1.62	3.93	.89	.23	.11	.11
IN.	.29	.35	1.28	2.92	1.70	2.43	1.81	4.53	.99	.27	.13	.12

CAL YR 1973 TOTAL 70,281.0 MEAN 193 MAX 1,190 MIN 19 CFSM 1.34 IN 18.16
WTR YR 1974 TOTAL 65,130.7 MEAN 178 MAX 1,310 MIN 9.9 CFSM 1.24 IN 16.83

PEAK DISCHARGE (BASE, 420 FT^3/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-28	0300	8.99	589	03-06	1100	10.84	799	05-19	2300	12.92	1,170
01-23	0300	13.28	1,250	04-05	1400	8.34	524	05-23	2400	13.57	1,320
02-23	1300	9.93	686	05-13	0600	8.41	531				

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, and 5.5 miles (8.8 km) upstream from Slough Creek.

DRAINAGE AREA.--203 mi^2 (526 km^2).

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 Indiana Flood Control and Water Resources Commission). Prior to July 8, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 163 ft^3/s (4.616 m^3/s), 10.90 in/yr (277 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) May 23, gage height, 13.94 ft (4.249 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Sept. 9, 10.
Period of record: Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) June 10, 1958, gage height, 16.54 ft (5.041 m); minimum daily, 2.2 ft^3/s (0.062 m^3/s) Sept. 9, 15, 16, 1964.

REMARKS.--Records good.

REVISIONS.--WSP 2115: Drainage area.

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	43	83	94	299	496	316	495	304	298	83	25	19
2	62	81	82	210	412	300	442	252	264	71	30	14
3	60	67	77	153	332	285	409	200	238	63	34	17
4	54	58	113	161	259	447	663	155	208	65	32	15
5	50	49	241	152	150	1,150	766	141	200	72	28	16
6	46	47	201	140	141	1,240	706	131	221	64	21	20
7	44	46	144	132	139	1,110	568	118	224	64	23	14
8	42	47	126	123	132	894	447	235	233	61	24	13
9	41	45	117	124	131	727	365	455	262	58	22	12
10	40	42	103	129	135	629	303	418	243	75	24	12
11	39	44	102	122	142	521	274	389	209	64	36	16
12	37	46	105	112	162	457	273	651	195	56	32	35
13	53	46	107	103	167	408	314	718	172	53	27	64
14	91	45	110	117	213	344	354	592	151	49	24	49
15	71	44	96	129	174	322	300	510	150	48	21	33
16	53	42	81	137	166	389	241	484	133	36	19	26
17	46	37	70	150	157	398	205	713	125	36	34	23
18	46	38	47	166	158	396	183	1,290	110	31	29	27
19	42	39	50	418	254	360	171	1,530	108	32	22	21
20	41	39	73	773	370	323	159	1,580	103	29	17	19
21	39	45	65	1,450	367	289	150	1,500	117	28	13	16
22	36	46	60	1,670	821	264	156	1,700	196	41	16	16
23	35	41	72	1,700	1,040	243	141	1,810	305	54	17	14
24	34	42	89	1,590	929	209	127	1,790	238	42	13	15
25	35	56	314	1,360	713	185	120	1,630	161	35	13	26
26	33	67	678	1,120	507	188	118	1,330	132	32	14	19
27	34	70	902	984	365	179	109	1,030	110	28	14	15
28	39	104	902	854	326	174	112	771	103	28	14	18
29	39	143	770	711	------	201	245	565	97	28	21	21
30	41	117	586	599	------	366	354	418	89	18	18	19
31	44	------	419	559	------	519	------	340	------	20	16	------
TOTAL	1,410	1,716	6,996	16,447	9,358	13,833	9,270	23,750	5,395	1,464	693	644
MEAN	45.5	57.2	226	531	334	446	309	766	180	47.2	22.4	21.5
MAX	91	143	902	1,700	1,040	1,240	766	1,810	305	83	36	64
MIN	33	37	47	103	131	174	109	118	89	18	13	12
CFSM	.22	.28	1.11	2.62	1.65	2.20	1.52	3.77	.89	.23	.11	.11
IN.	.26	.31	1.28	3.01	1.71	2.53	1.70	4.35	.99	.27	.13	.12

CAL YR 1973 TOTAL 89,319 MEAN 245 MAX 1,360 MIN 27 CFSM 1.21 IN 16.37
WTR YR 1974 TOTAL 90,976 MEAN 249 MAX 1,810 MIN 12 CFSM 1.23 IN 16.67

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 miles (3 km) upstream from Slough Creek, 3 miles (5 km) southeast of South Marion, and 5 miles (8 km) southeast of Rensselaer.

DRAINAGE AREA.--21.8 mi^2 (56.5 km^2).

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.--25 years (1949 to current year), 16.5 ft^3/s (0.467 m^3/s), 10.28 in/yr (261 mm/yr).

EXTREMES.--Current year: Maximum discharge, 756 ft^3/s (21.4 m^3/s) Jan. 21, gage height, 9.61 ft (2.929 m); minimum daily, 0.37 ft^3/s (0.010 m^3/s) Sept. 10.
Period of record: Maximum discharge, 958 ft^3/s (27.1 m^3/s) Dec. 21, 1967, gage height, 10.89 ft (3.319 m); no flow at times during 1952, 1955, and 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.5	8.9	25	39	31	50	8.9	12	4.8	.97	.49
2	15	4.0	8.3	15	29	30	54	9.6	11	4.4	1.3	.52
3	5.5	2.8	7.7	8.0	17	27	54	9.2	10	3.8	1.2	.55
4	4.4	2.6	21	9.0	11	108	102	7.7	9.8	3.6	.97	.49
5	5.0	2.4	36	8.5	8.0	204	77	8.0	9.9	3.6	.97	.43
6	3.4	1.9	19	7.0	8.4	89	54	7.7	11	3.2	.81	.43
7	2.8	2.1	13	5.0	9.0	59	39	7.1	11	3.0	.74	.43
8	2.2	1.9	12	3.5	8.0	44	32	32	11	2.8	.81	.40
9	1.9	1.6	11	5.6	8.0	59	26	33	12	2.4	.81	.40
10	2.1	1.4	8.6	6.3	8.4	56	23	25	11	2.2	1.3	.37
11	1.9	1.4	7.1	6.0	8.6	39	22	32	8.6	2.1	4.2	.52
12	1.8	1.5	7.1	5.0	9.6	40	24	63	8.0	1.6	1.3	1.3
13	4.2	1.8	9.2	3.3	19	32	67	37	7.9	1.6	.89	5.5
14	7.4	1.6	7.4	7.0	28	27	39	29	7.3	1.5	.74	.97
15	5.0	1.9	6.0	8.9	20	38	25	60	7.7	1.6	.81	.49
16	3.8	1.4	4.0	9.6	19	51	19	42	7.9	1.5	.89	.46
17	3.0	1.2	2.6	14	20	51	17	56	7.4	1.5	4.0	.46
18	2.8	1.5	2.3	23	23	56	15	79	6.8	1.4	1.3	.46
19	2.1	1.5	2.6	86	59	41	14	91	6.5	1.5	.81	.43
20	1.9	1.3	5.0	292	56	30	13	73	6.3	1.4	.74	.43
21	1.6	3.6	4.0	551	58	28	13	66	6.1	1.2	.67	.49
22	1.5	3.2	2.8	230	263	25	13	204	36	1.5	.74	.46
23	1.5	2.4	4.0	177	113	21	11	200	47	1.6	.67	.46
24	1.5	2.8	6.0	93	66	17	9.2	89	25	1.3	.67	.46
25	1.4	6.5	108	70	41	16	9.2	54	17	1.3	.67	.43
26	1.3	8.0	148	60	30	17	8.9	41	11	1.1	.67	.46
27	1.6	6.8	231	86	29	18	8.9	31	8.6	1.1	.67	.46
28	1.8	19	140	59	34	18	9.2	24	7.7	1.1	.81	.52
29	1.8	19	99	57	------	21	9.9	21	6.8	1.2	.74	.61
30	2.1	13	62	63	------	77	9.9	18	6.0	.97	.61	.49
31	2.8	------	40	58	------	79	------	16	------	.97	.52	------
TOTAL	99.3	125.6	1,043.6	2,051.7	1,042.0	1,449	868.2	1,474.2	354.3	62.84	33.00	20.37
MEAN	3.20	4.19	33.7	66.2	37.2	46.7	28.9	47.6	11.8	2.03	1.06	.68
MAX	15	19	231	551	263	204	102	204	47	4.8	4.2	5.5
MIN	1.3	1.2	2.3	3.3	8.0	16	8.9	7.1	6.0	.97	.52	.37
CFSM	.15	.19	1.55	3.04	1.71	2.14	1.33	2.18	.54	.09	.05	.03
IN.	.17	.21	1.78	3.50	1.78	2.47	1.48	2.52	.60	.11	.06	.03

CAL YR 1973 TOTAL 8,347.81 MEAN 22.9 MAX 348 MIN .68 CFSM 1.05 IN 14.24
WTR YR 1974 TOTAL 8,624.11 MEAN 23.6 MAX 551 MIN .37 CFSM 1.08 IN 14.72

PEAK DISCHARGE (BASE, 340 FT^3/S).--Jan. 21 (0330) 756 ft^3/s (9.61 ft).

05523500 Slough Creek near Collegeville, Ind.

LOCATION.--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, 2.5 miles (4.0 km) upstream from mouth, and 2.8 miles (4.5 km) downstream from Bice ditch.

DRAINAGE AREA.--83.7 mi^2 (216.8 km^2).

Period of record.--July 1948 to December 1951, October 1952 to current year. Prior to October 1965, published as Big Slough Creek near Collegeville.

AVERAGE DISCHARGE.--25 years (1948-51, 1952 to current year), 70.8 ft^3/s (2.005 m^3/s), 11.49 in/yr (292 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) May 23, gage height, 15.16 ft (4.621 m); minimum daily, 4.1 ft^3/s (0.12 m^3/s) Sept. 21-23, 25.
Period of record: Maximum discharge, 2,390 ft^3/s (67.7 m^3/s) Dec. 22, 1967, gage height, 16.88 ft (5.145 m); minimum daily, 0.7 ft^3/s (0.020 m^3/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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	18	30	150	800	150	297	37	80	27	7.4	4.4
2	23	16	27	130	250	145	250	34	75	24	7.9	4.5
3	15	13	26	115	170	138	220	36	67	22	7.7	4.9
4	11	12	42	102	135	275	412	32	59	21	7.4	4.6
5	13	11	98	99	118	922	406	30	61	20	7.2	4.4
6	11	11	66	94	105	500	270	30	65	19	6.9	4.3
7	9.4	10	45	82	100	300	200	28	65	17	6.5	4.3
8	8.8	10	39	60	90	220	160	96	63	16	6.6	4.3
9	8.5	9.4	25	89	80	270	130	143	66	16	6.6	4.2
10	8.5	9.4	25	89	70	270	110	113	58	16	7.4	4.3
11	8.2	8.8	25	60	65	200	100	131	49	15	11	4.9
12	8.2	8.8	43	55	77	190	105	268	49	14	7.4	6.2
13	11	9.1	35	55	84	160	184	180	44	13	6.2	8.7
14	18	9.1	29	65	100	140	167	140	38	12	5.9	6.1
15	13	9.4	26	70	97	191	117	271	43	11	5.8	4.6
16	11	9.1	25	80	90	265	86	200	38	11	5.9	4.3
17	10	8.2	25	114	90	253	70	299	34	11	7.6	4.3
18	9.4	8.8	25	110	98	278	63	380	32	10	6.3	4.3
19	8.8	8.8	25	290	187	170	59	400	30	10	5.7	4.3
20	8.5	8.5	48	678	249	150	53	350	29	10	5.4	4.4
21	8.2	11	35	1,720	230	130	51	300	36	9.4	5.3	4.1
22	8.2	12	29	1,100	804	120	53	1,570	93	9.4	5.1	4.1
23	8.2	11	25	1,050	760	108	46	1,000	184	10	5.0	4.1
24	8.0	12	25	800	400	97	40	600	124	10	4.9	4.2
25	7.7	18	249	600	250	83	38	400	74	9.1	4.9	4.1
26	7.4	24	428	450	150	84	38	250	49	8.8	4.8	4.4
27	8.0	23	797	650	145	83	36	200	40	8.2	4.6	4.7
28	9.1	37	600	500	160	82	36	150	35	8.0	4.8	5.6
29	8.2	61	400	350	------	87	40	130	32	8.0	5.1	5.5
30	9.4	41	300	380	------	264	40	115	30	7.7	4.8	4.7
31	11	------	200	1,050	------	332	------	100	------	7.4	4.6	------
TOTAL	315.7	458.4	3,817	11,237	5,954	6,657	3,877	8,013	1,742	411.0	192.7	141.8
MEAN	10.2	15.3	123	362	213	215	129	258	58.1	13.3	6.22	4.73
MAX	23	61	797	1,720	804	922	412	1,570	184	27	11	8.7
MIN	7.4	8.2	25	55	65	82	36	28	29	7.4	4.6	4.1
CFSM	.12	.18	1.47	4.33	2.54	2.57	1.54	3.08	.69	.16	.07	.06
IN.	.14	.20	1.70	4.99	2.65	2.96	1.72	3.56	.77	.18	.09	.06

CAL YR 1973 TOTAL 35,381.3 MEAN 96.9 MAX 1,300 MIN 6.4 CFSM 1.16 IN 15.73
WTR YR 1974 TOTAL 42,816.6 MEAN 117 MAX 1,720 MIN 4.1 CFSM 1.40 IN 19.03

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, 2.8 miles (4.5 km) upstream from mouth, and 4 miles (6 km) southwest of Collegeville.

DRAINAGE AREA.--44.8 mi^2 (116.0 km^2).

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.--25 years, 37.4 ft^3/s (1.059 m^3/s), 11.34 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge 879 ft^3/s (24.9 m^3/s) Jan. 21, gage height, 9.96 ft (3.036 m); minimum daily, 0.26 ft^3/s (0.007 m^3/s) Sept. 1.
Period of record: Maximum discharge, 3,720 ft^3/s (105 m^3/s) June 10, 1958, gage height, 11.66 ft (3.554 m); no flow at times most years.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1175: 1949(M). WSP 1558: 1955-57. WSP 1728: 1951(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.8	7.8	72	111	66	132	16	30	20	1.0	.26
2	4.4	2.9	6.3	60	85	63	117	16	27	17	1.2	.27
3	2.3	2.0	5.9	52	66	60	102	17	26	14	1.2	.39
4	1.6	1.6	14	49	55	200	225	13	23	13	1.1	.40
5	1.9	1.3	38	45	52	350	147	13	23	12	.98	.33
6	1.2	1.2	23	41	53	200	116	13	24	11	.84	.32
7	.98	1.3	15	33	47	130	87	11	24	9.5	.71	.32
8	.91	1.3	13	29	40	100	70	41	24	8.9	.71	.33
9	.84	1.2	12	42	35	125	57	54	26	13	.71	.31
10	.77	1.1	12	35	34	120	50	37	22	9.9	.98	.32
11	.71	1.1	11	27	31	85	47	54	18	8.2	5.0	1.4
12	.59	1.1	9.5	25	36	85	49	129	18	6.7	2.0	2.1
13	1.3	1.1	12	24	47	70	114	78	15	5.9	1.1	13
14	4.4	1.3	10	26	55	60	72	60	14	5.3	.77	6.5
15	2.3	1.3	8.7	30	45	80	51	98	148	5.0	.65	2.1
16	1.4	1.8	8.0	33	44	110	41	86	82	4.4	.71	1.2
17	1.1	1.0	7.5	35	44	113	37	108	49	4.0	3.5	.86
18	1.0	1.2	7.4	48	47	120	34	153	33	3.5	1.5	.59
19	.91	1.6	11	170	94	90	30	196	25	3.8	.84	.49
20	.84	1.3	12	398	129	70	27	183	21	3.3	.59	.47
21	.84	2.3	10	797	106	60	27	126	32	2.7	.44	.45
22	.84	3.1	9.0	506	446	55	27	314	161	2.8	.40	.40
23	.77	2.3	7.5	476	322	50	23	493	339	3.5	.35	.35
24	.77	2.2	7.5	321	240	42	20	299	131	2.8	.35	.31
25	.71	3.8	145	240	130	38	19	180	80	2.0	.35	.30
26	.71	6.5	324	193	70	39	19	116	50	1.8	.35	.33
27	.77	5.1	391	248	62	38	18	77	41	1.6	1.0	.37
28	1.2	9.5	300	188	70	39	18	58	33	1.4	.63	.50
29	1.3	17	196	151	------	41	18	51	28	1.3	.66	.45
30	1.3	11	130	160	------	139	18	43	24	1.1	.49	.37
31	1.7	------	94	174	------	205	------	38	------	1.0	.35	------
TOTAL	41.46	93.3	1,858.1	4,728	2,596	3,043	1,812	3,171	1,591	200.4	31.46	35.79
MEAN	1.34	3.11	59.9	153	92.7	98.2	60.4	102	53.0	6.46	1.01	1.19
MAX	4.4	17	391	797	446	350	225	493	339	20	5.0	13
MIN	.59	1.0	5.9	24	31	38	18	11	14	1.0	.35	.26
CFSM	.03	.07	1.34	3.42	2.07	2.19	1.35	2.28	1.18	.14	.02	.03
IN.	.03	.08	1.54	3.93	2.16	2.53	1.50	2.63	1.32	.17	.03	.03

CAL YR 1973 TOTAL 19,377.96 MEAN 53.1 MAX 785 MIN .59 CFSM 1.19 IN 16.09
WTR YR 1974 TOTAL 19,201.51 MEAN 52.6 MAX 797 MIN .26 CFSM 1.17 IN 15.94

PEAK DISCHARGE (BASE, 600 FT^3/S).--Jan. 21 (0745) 879 ft^3/s (9.96 ft).

05524500 Iroquois River near Foresman, Ind.

LOCATION.--Lat 40°52'14", long 87°18'24", in NE¼SE¼ sec.15, T.28 N., R.8 W., Newton County, on right bank at downstream side of bridge on State Highway 55, 0.2 mile (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, and 3 miles (4 km) east of Brook.

DRAINAGE AREA.--449 mi² (1,163 km²).

PERIOD OF RECORD.--WATER DISCHARGE: December 1948 to current year.
SEDIMENT DISCHARGE: July 1968 to current year (partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 624.00 ft (190.195 m) above mean sea level. Prior to Sept. 7, 1955, nonrecording gage 2.5 miles (4.0 km) upstream at datum 3.54 ft (1.079 m) higher.

AVERAGE DISCHARGE.--25 years, 367 ft³/s (10.39 m³/s), 11.10 in/yr (282 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,330 ft³/s (94.3 m³/s) Jan. 23, gage height, 19.47 ft (5.934 m); minimum daily, 24 ft³/s (0.68 m³/s) Aug. 23, 24, Sept. 8-10.
Period of record: Maximum discharge, 5,930 ft³/s (168 m³/s) June 14, 1958, gage height, 24.42 ft (7.443 m); minimum daily, 6.3 ft³/s (0.18 m³/s) Sept. 10, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2155: Drainage area.

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	64	88	198	1,300	1,550	974	1,160	459	979	233	46	25
2	89	116	166	1,000	1,360	846	1,190	444	762	207	52	25
3	106	104	150	700	1,130	752	1,150	403	610	178	53	25
4	89	89	159	500	892	937	1,300	344	493	166	54	26
5	81	79	316	450	725	1,770	1,440	302	408	163	50	25
6	73	73	371	400	597	2,040	1,510	281	382	150	44	25
7	66	69	305	330	481	2,060	1,470	263	411	137	41	26
8	64	68	247	270	464	1,930	1,350	332	425	132	42	24
9	60	69	220	230	424	1,810	1,180	583	439	122	41	24
10	59	63	201	200	381	1,700	971	666	445	133	45	24
11	56	60	150	180	368	1,550	807	685	407	134	68	26
12	55	61	181	170	369	1,410	709	903	371	119	59	50
13	63	61	188	160	405	1,260	787	1,070	340	106	47	75
14	122	62	193	160	481	1,110	806	1,100	308	98	42	90
15	132	69	179	160	475	942	745	1,090	350	92	39	61
16	109	70	159	170	450	949	651	1,060	407	86	37	40
17	96	62	136	210	437	957	552	1,100	339	74	43	37
18	86	57	163	300	443	967	476	1,410	281	70	44	36
19	79	60	133	650	565	937	429	1,710	249	66	35	36
20	73	61	96	1,060	763	861	395	1,960	236	65	30	32
21	71	66	145	2,320	894	784	376	2,070	254	60	28	30
22	66	78	166	3,070	1,620	718	370	2,340	432	61	26	29
23	62	76	165	3,310	2,010	647	346	2,980	719	78	24	29
24	60	72	162	3,250	2,000	578	316	3,170	715	79	24	28
25	58	86	210	3,060	1,900	520	300	3,080	576	69	25	30
26	59	115	656	2,810	1,700	441	288	2,880	474	63	25	35
27	58	130	1,090	2,610	1,420	457	278	2,580	389	57	25	27
28	61	143	1,440	2,380	1,190	445	270	2,200	310	55	26	27
29	62	236	1,630	2,120	------	447	314	1,850	288	53	26	29
30	61	238	1,650	1,920	------	616	421	1,560	259	50	29	26
31	65	------	1,650	1,740	------	984	------	1,270	------	45	27	------
TOTAL	2,305	2,681	12,875	37,190	25,494	32,379	22,357	42,145	13,058	1,201	1,197	1,022
MEAN	74.4	89.4	415	1,200	911	1,044	745	1,360	435	103	38.6	34.1
MAX	132	238	1,650	3,310	2,010	2,060	1,510	3,170	979	233	68	90
MIN	55	57	96	160	368	441	270	263	236	45	24	24
CFSM	.17	.20	.92	2.67	2.03	2.33	1.66	3.03	.97	.23	.09	.08
IN.	.19	.22	1.07	3.08	2.11	2.68	1.85	3.49	1.08	.27	.10	.08

CAL YR 1973 TOTAL 186,216 MEAN 510 MAX 2,830 MIN 44 CFSM 1.14 IN 15.43
WTR YR 1974 TOTAL 195,904 MEAN 537 MAX 3,310 MIN 24 CFSM 1.20 IN 16.23

05524500 Iroquois River near Foresman, Ind.--Continued

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV.							
16...	1315	10.0	70	24	4.5	--	--
DEC.							
15...	1330	2.0	178	26	12	--	--
JAN.							
19...	1435	.0	622	46	77	--	--
MAY							
22...	1730	19.0	2480	149	998	77	90
JUNE							
25...	1900	18.0	575	86	134	--	--

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
NOV.						
16...	--	--	--	--	--	--
DEC.						
15...	--	--	--	--	--	--
JAN.						
19...	--	--	--	--	--	--
MAY						
22...	96	97	98	99	99	100
JUNE						
25...	--	--	--	--	--	--

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^2 (1,777 km^2).

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.--30 years, 531 ft^3/s (15.04 m^3/s), 10.51 in/yr (267 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,210 ft^3/s (119 m^3/s) Jan. 24, gage height, 20.22 ft (6.163 m); minimum, 32 ft^3/s (0.91 m^3/s) Sept. 10, 11.
Period of record: Maximum discharge, 10,400 ft^3/s (295 m^3/s) June 13, 1958, gage height, 26.31 ft (8.019 m); minimum, 5.2 ft^3/s (0.15 m^3/s) Sept. 13, 1964.

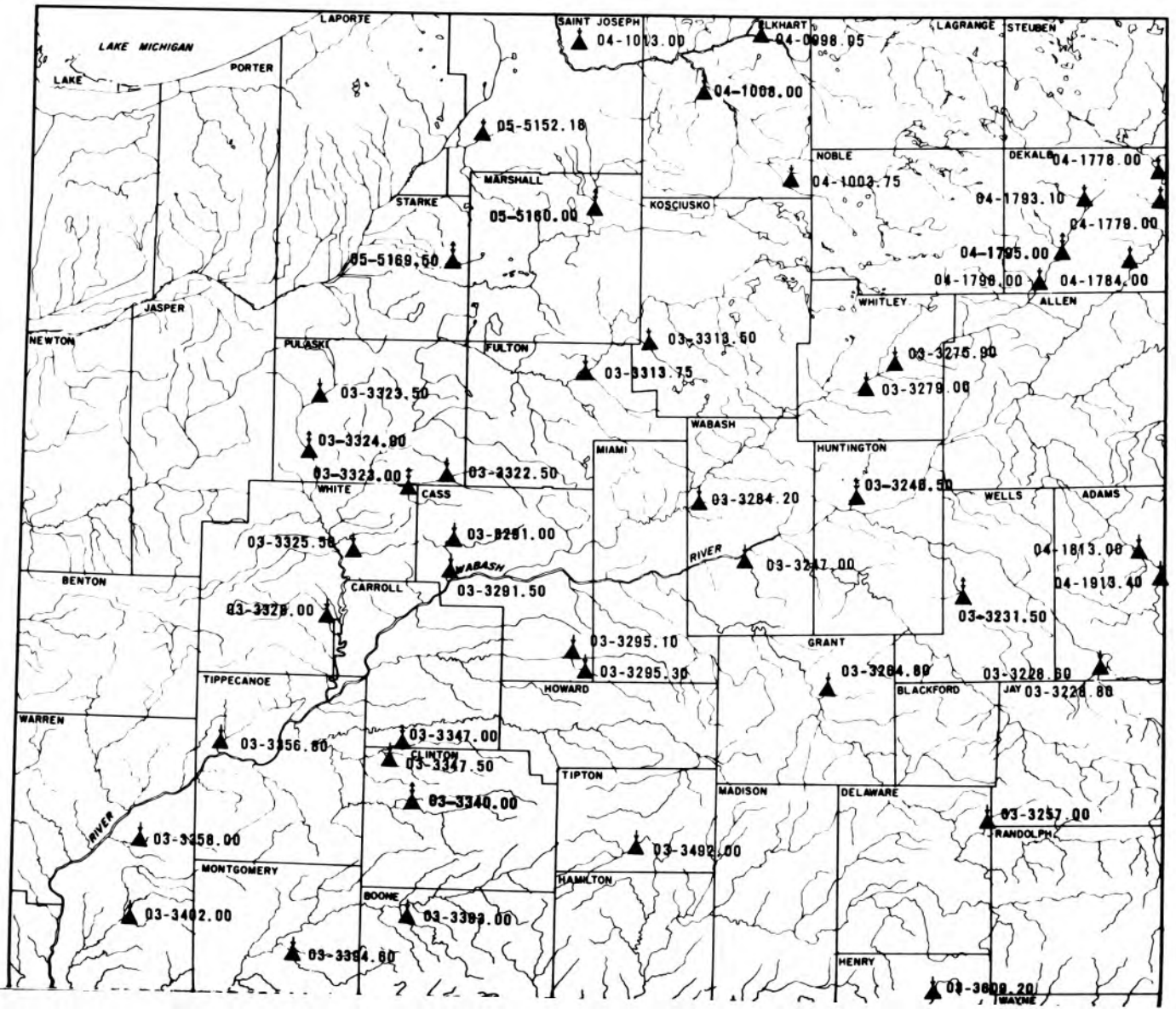
REMARKS.--Records good except those for winter periods and those for period of no gage-height record, which are poor.

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	65	72	251	1,400	2,280	1,600	1,490	620	1,500	394	48	36
2	74	88	222	1,100	2,030	1,380	1,560	580	1,190	348	50	34
3	87	118	191	800	1,780	1,200	1,580	540	942	307	53	34
4	111	118	186	620	1,590	1,220	1,810	460	755	270	54	34
5	102	105	228	500	1,320	2,050	1,880	400	628	247	53	35
6	91	93	356	440	1,020	2,430	1,920	380	568	230	52	38
7	83	85	394	380	843	2,560	1,890	350	597	213	48	36
8	76	80	345	310	682	2,550	1,800	450	604	196	46	35
9	72	76	289	280	621	2,440	1,650	780	623	190	42	34
10	67	76	258	260	594	2,370	1,460	900	620	179	45	33
11	65	73	233	250	544	2,230	1,270	1,000	589	179	73	33
12	65	69	181	240	554	2,070	1,130	1,200	547	169	79	40
13	67	69	208	240	582	1,940	1,050	1,400	497	148	77	73
14	73	70	225	240	628	1,740	1,100	1,500	454	131	62	99
15	108	72	227	240	666	1,570	1,000	1,450	757	120	51	115
16	132	75	230	260	662	1,510	840	1,410	740	109	46	93
17	118	80	196	300	634	1,440	720	1,400	613	99	47	69
18	100	81	186	412	618	1,400	640	1,510	498	87	48	56
19	90	76	160	544	701	1,360	580	1,800	419	83	54	49
20	83	74	160	1,170	972	1,290	520	2,100	387	78	52	48
21	76	78	165	2,500	1,160	1,200	500	2,260	523	74	46	46
22	72	82	185	3,350	2,120	1,090	480	2,410	1,280	70	40	41
23	68	91	209	3,940	2,620	983	450	3,040	1,890	72	36	37
24	64	98	211	4,180	2,690	868	420	3,470	1,680	79	35	36
25	60	99	268	4,080	2,630	765	400	3,580	1,460	86	35	36
26	56	105	734	3,840	2,500	691	380	3,470	1,190	79	34	36
27	56	126	1,190	3,620	2,120	646	370	3,210	905	70	34	38
28	59	152	1,590	3,380	1,840	625	360	2,860	677	64	35	41
29	59	170	1,730	3,060	------	621	500	2,500	534	58	36	40
30	62	238	1,770	2,760	------	843	580	2,160	453	53	34	42
31	65	------	1,600	2,520	------	1,310	------	1,820	------	52	36	------
TOTAL	2,426	2,889	14,378	47,216	37,001	45,992	30,330	51,010	24,120	4,534	1,481	1,417
MEAN	78.3	96.3	464	1,523	1,321	1,484	1,011	1,645	804	146	47.8	47.2
MAX	132	238	1,770	4,180	2,690	2,560	1,920	3,580	1,890	394	79	115
MIN	56	69	160	240	544	621	360	350	387	52	34	33
CFSM	.11	.14	.68	2.23	1.94	2.18	1.48	2.41	1.18	.21	.07	.07
IN.	.13	.16	.78	2.58	2.02	2.51	1.65	2.78	1.32	.25	.08	.08

CAL YR 1973 TOTAL 256,394 MEAN 702 MAX 3,540 MIN 47 CFSM 1.03 IN 13.99
WTR YR 1974 TOTAL 262,794 MEAN 720 MAX 4,180 MIN 33 CFSM 1.06 IN 14.33

NOTE.--No gage-height record Apr. 13 to May 15.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LAKE
PORTER
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SAINT JOSEPH
ELKHART
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NOBLE
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MARSHALL
KOSCIUSKO
WHITLEY
ALLEN
JASPER
NEWTON
PULASKI
FULTON
WABASH
HUNTINGTON
WELLS
ADAMS
MIAMI
WHITE
CASS
BENTON
CARROLL
WABASH
RIVER
GRANT
TIPPECANOE
HOWARD
BLACKFORD
JAY
WARREN
CLINTON
TIPTON
MADISON
DELAWARE
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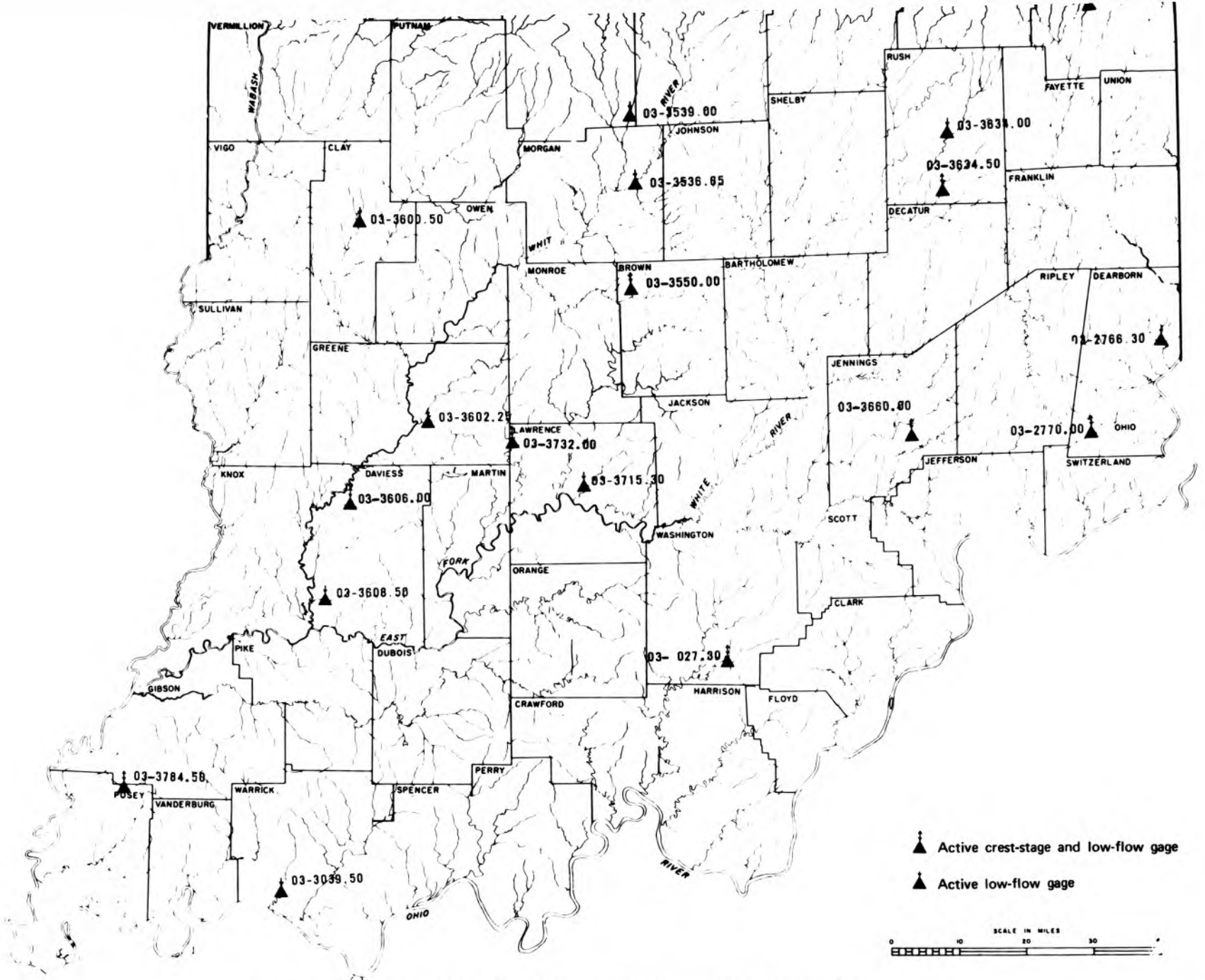

Figure 3.-- Location of partial-record stations in Indiana

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations and miscellaneous sites are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during Water Year 1974

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements: Date	Measurements: Discharge (ft^3/s)
		OHIO RIVER BASIN				
		Great Miami River				
03274710	Nettle Creek near Hagerstown, Ind.	Lat 39°55'30", long 85°10'39", in W½ sec.15, T.17 N., R.12 E., Wayne County, at bridge on Leavell Road, 1.3 miles northwest of Hagerstown.	17.7	1971-74	07-09-74 09-17-74	3.90 5.57
03274900	Greens Fork at Greens Fork, Ind.	Lat 39°53'35", long 85°02'39", in NE¼SW¼ sec.26, T.17 N., R.13 E., Wayne County, at bridge on State Highway 38, at west edge of Greens Fork.	66.7	1969-74	07-09-74 09-17-74	23.9 6.44
		Tanners Creek				
03276630	Tanners Creek near Guilford, Ind.	Lat 39°09'15", long 84°53'50", in E½ 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	1969-74	07-09-74 09-26-74	6.93 16.3
03303950	Otter Creek near DeGonia Springs, Ind.	Lat 38°02'24", long 87°12'22", in SE¼SE¼NE¼ 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	11-14-73 05-08-74 07-08-74 07-09-74 09-24-74	1.11 9.11 3.52 2.63 1.42
		Cypress Creek				
03304200	Cypress Creek near Newburgh, Ind.	Lat 37°57'16", long 87°19'50", in SW¼SW¼NE¼ sec.32, T.6 S., R.8 W., Warrick County, at bridge on County Road 550 South, 0.5 mile west of County Road 400 West, 4.0 miles east of Newburgh.	about 56	1972-74	07-09-74 09-24-74	10.4 8.79
		Wabash River				
03322860	Loblolly Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW¼NE¼ 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	1969-74	05-07-74 07-10-74 09-18-74	6.44 2.70 13.6
03322880	Limberlost Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW¼NE¼ sec.32, T.25 N., R.14 E., Adams County 50 ft upstream from mouth, at south edge of Geneva (corrected).	41.7	1969-74	05-07-74 07-10-74 09-18-74	3.16 1.71 2.72
03324700	Treaty Creek at Wabash, Ind.	Lat 40°47'31", long 85°48'36", in SE¼NE¼NE¼ sec.14, T.27 N., R.6 E., Wabash County, at bridge on Waterworks Road, 0.5 mile southeast of Wabash.	30.1	1969-74	07-09-74 09-18-74	2.57 5.58
03325700	Halfway Creek near Albany, Ind.	Lat 40°19'37", long 85°12'56", in NW¼NW¼SE¼ sec.29, T.22 N., R.12 E., Delaware County, at bridge on County Road 15 East, 1.0 mile north of State Road 67, 1.5 miles northeast of Albany.	about 19	1974	11-13-73 07-09-74 09-17-74	1.24 1.47 .47
03326480	Lugar Creek at Marion, Ind.	Lat 40°32'20", long 85°37'40", in SW¼SE¼SW¼ sec.9, T.24 N., R.8 E., Grant County, at bridge on Stone Road, 2.0 miles east of Marion.	about 30	1972-74	07-10-74 09-18-74	2.75 1.94
03327590	Eel River near Columbia City, Ind.	Lat 41°08'33", long 85°27'25", in NW¼SE¼NE¼ 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	1969-74	07-10-74 09-20-74	20.5 9.97

Discharge measurements made at low-flow partial-record stations during Water Year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements: Date	Measurements: Discharge (ft^3/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 junction with State Highway 5, at southeast edge of South Whitley.	30.7	1969-74	07-10-74 09-20-74	3.57 1.51
03328420	Paw Paw Creek near Roann, Ind.	Lat 40°53'40", long 85°53'19", in SW¼NW¼NW¼ sec.8, T.28 N., R.5 E., at bridge on State Highway 15, 3.5 miles northwest of intersection of State Highways 15 and 115.	about 31	1973-74	07-09-74 09-18-74	3.22 .65
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	1968-74	05-07-74 07-08-74 09-17-74	22.0 16.1 7.20
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	1968-74	05-07-74 07-08-74 09-17-74	43.9 33.7 22.0
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, one mile south of Lincoln.	56.5	1968-74	10-01-73 07-09-74 09-18-74	3.57 10.6 2.53
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	1968-74	10-01-73 07-09-74 09-18-74	3.62 5.79 1.66
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	1969-74	07-09-74 09-18-74	10.5 3.55
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	1969-74	07-09-74 09-18-74	15.2 9.35
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, 1970-74	07-10-74 09-17-74	21.2 8.68
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 junction of U.S. Highway 421 and State Highway 14, 3.5 miles southeast of Medaryville.	69.6	1968-69 1971-74	07-10-74 09-17-74	28.3 24.3
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 Road 39, 2 miles north of U.S. Highway 24.	about 29	1974	11-14-73 07-10-74 09-18-74	11.2 15.2 7.39
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 Road 43 in Chalmers.	55.3	1968-69 1971-74	07-10-74 09-18-74	18.0 2.59
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 mile northwest of Rossville.	54.0	1969-74	05-07-74 07-09-74 09-18-74	20.8 18.1 8.34
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	1969-74	05-07-74 07-09-74 09-18-74	5.62 3.77 .99
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	1972-74	07-09-74 09-18-74	7.96 1.32
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	1968-74	05-07-74 07-08-74 09-17-74	33.6 37.8 19.5
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	1969-74	05-07-74 07-09-74 09-17-74	23.6 18.1 7.76
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	1969-74	05-07-74 07-08-74 09-17-74	31.8 65.4 3.00
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 Road 234, 1.4 miles west of State Road 341.	about 41	1974	05-07-74 07-08-74 09-17-74	17.4 12.2 4.81
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	1968-74	05-07-74 07-08-74 09-19-74	26.3 28.9 1.70
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	1972-74	07-09-74 09-17-74	25.8 13.0

Discharge measurements made at low-flow partial-record stations during Water Year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/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, 1968-74	05-07-74 07-10-74	18.8 9.29
03353900	East Fork White Lick Creek at Mooresville, 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, 1968-74	05-07-74 07-11-74 09-19-74	14.4 17.2 9.74
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 Road 59, ½ mile northwest of Ashboro.	about 41	1974	11-13-73 07-30-74 09-19-74	4.51 4.94 14.4
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, 1968-74	05-07-74 07-30-74 09-23-74 11-13-73	32.8 2.58 8.98 .76
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 Road 57, 3.7 miles southwest of Washington.	about 32	1974	05-08-74 07-09-74 09-23-74	4.55 1.16 1.48
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, 1969-74	07-09-74 09-17-74	11.9 6.40
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	1969-74	07-09-74 09-26-74	75.4 42.6
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	1972-74	07-10-74 09-23-74	1.11 17.3
		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	1972-74	07-09-74 09-18-74	28.5 17.6
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, 3/4 mile west of State Road 13.	about 34	1974	11-14-73 07-09-74 09-18-74	10.5 17.5 10.7
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	1973-74	07-10-74 09-18-74	11.3 5.10
		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	1968-74	07-10-74 09-19-74	11.0 4.39
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	1968-74	07-10-74 09-19-74	2.69 1.51
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, 1/3 mile east of Saint Joe.	27.2	1972-74	07-10-74 09-19-74	3.21 2.25
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	1968-74	07-10-74 09-19-74	8.07 2.66
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	1972-74	07-31-74 09-20-74	6.47 5.35
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	1972-74	05-07-74 09-18-74	1.59 .14

Discharge measurements made at low-flow partial-record stations during Water Year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
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	1968-74	05-07-74	3.31
					07-11-74	.76
					09-19-74	.11
		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	1973-74	07-10-74	17.2
					09-17-74	10.5

Discharge measurements made at high-flow, low-flow partial-record stations during Water Year 1974

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		OHIO RIVER BASIN				
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 junction of U.S. Highway 150 and State Highway 135 in Palmyra.	64.3	1974	07-30-74	0.68
					09-25-74	2.87
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.	[a]77	1974	11-13-73	5.22
					11-27-73	218
					05-07-74	12.0
					05-17-74	758
					07-09-74	20.3
					09-18-74	5.63
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.	[a]49	1974	10-03-73	.62
					11-13-73	.51
					11-27-73	17.3
					05-17-74	880
					05-17-74	939
					07-09-74	2.29
					09-18-74	.62
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.	[a]33	1974	11-13-73	1.84
					11-26-73	317
					11-27-73	90.4
					05-07-74	8.12
					07-09-74	4.03
					09-13-74	260
					09-23-74	11.8
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	11-14-73	1.67
					11-25-73	260
					11-26-73	175
					07-09-74	11.5
					09-26-74	15.7
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	11-13-73	.26
					11-26-73	146
					05-08-74	8.09
					07-09-74	3.34
					09-24-74	1.24
		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.	[a]33	1974	10-02-73	4.95
					11-14-73	3.75
					07-09-74	5.50
					09-18-74	2.92
		ILLINOIS RIVER BASIN				
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.	[a]32	1973-74	07-10-74	20.6
					09-17-74	16.7

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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 1974 (and some made in 1973 water year)

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		OHIO RIVER BASIN				
Halfway Creek	Mississinewa River	Lat 40°19'09", long 85°13'47", in NE¼NW¼ sec.36, T.22 N., R.11 E., Delaware County, at bridge on Highway 167, 1 mile northeast of Albany.			10-03-73	0.67
Cicero Creek	White River	Lat 40°01'49", long 86°01'55", in SW¼SW¼ sec.1, T.18 N., R.4 E., Hamilton County, 200 ft downstream from bridge on River Avenue, and 1.4 miles southeast of the Noblesville post office.		1972	10-20-73	39.3
White River	Wabash River	Lat 39°58'11", long 86°02'50", NW¼NW¼ sec.35, T.18 N., R.4 E., Hamilton County, 1.6 miles upstream from 116th Street bridge, and 2.0 miles northwest of Fishers.			10-20-73	272
White River	...do.....	Lat 39°51'31", long 86°09'45", in NE¼SE¼ sec.2, T.16 N., R.3 E., Marion County, 1,200 ft downstream from Kessler Boulevard, in Indianapolis.		1963, 1966	10-13-73 10-20-73	205 180
White River	...do.....	Lat 39°48'34", long 86°11'41", in NW¼NW¼ sec.27, T.16 N., R.3 E., Marion County, at bridge on West 30th Street, in Indianapolis.			10-13-73 10-19-73	370 280
Fall Creek	White River	Lat 39°53'59", long 85°59'24", in SE¼SW¼ sec.20, T.17 N., R.5 E., Marion County, 800 ft upstream from 79th Street bridge, and 2.3 miles northwest of Oaklandon.		1943, 1946	10-20-73	50.2
Fall Creek	...do.....	Lat 39°53'01", long 86°00'17", in SE¼SW¼ sec.30, T.17 N., R.5 E., Marion County, at bridge on East 71st Street, 1,000 ft downstream from Indian Creek, and 2.9 miles southeast of Castleton.			10-20-73	99.4
Indian Creek	Fall Creek	Lat 39°53'07", long 86°00'10", in SW¼SE¼ sec.30, T.17 N., R.5 E., Marion County, 50 ft upstream from mouth, in Fort Benjamin Harrison Military Reservation, and 2.5 miles east of Oaklandon.	25.6		10-20-73	52.6
Lawrence Creek	...do.....	Lat 39°52'10", long 86°01'28", in SE¼SW¼ sec.36, T.17 N., R.4 E., Marion County, at Shafter Road bridge in Fort Benjamin Harrison Military Reservation, at Indianapolis.	2.74	1952-69	10-23-73 10-20-73	1.68 1.91
Fall Creek	White River	Lat 39°51'44", long 86°03'32", in SW¼NW¼ sec.2, T.16 N., R.4 E., Marion County, 0.3 mile southeast of WFBM radio towers, 0.75 mile downstream from State Highway 100 bridge, at Indianapolis.			10-13-73 10-20-73	64.9 113
Fall Creek	...do.....	Lat 39°50'48", long 86°06'14", in NE¼SE¼ sec.8, T.16 N., R.4 E., Marion County, 0.5 mile upstream from East 46th Street bridge, in Indianapolis.			10-20-73	112
Fall Creek	...do.....	Lat 39°49'35", long 86°07'49", in SW¼SE¼ sec.18, T.16 N., R.4 E., Marion County, at Indiana State Fairgrounds, 300 ft upstream from 38th Street bridge, in Indianapolis.			10-21-73	69.2
Fall Creek	...do.....	Lat 39°47'48", long 86°10'06", in SW¼SE¼ sec.26, T.16 N., R.3 E., Marion County, at dam 0.1 mile above State Highway 67 bridge in Indianapolis, and 2.6 miles upstream from mouth.		1964, 1966	10-20-73	63.9
Fall Creek	...do.....	Lat 39°46'50", long 86°10'58", in NW¼NE¼ sec.3, T.15 N., R.3 E., Marion County, 0.25 mile upstream from mouth, in Indianapolis.		1965, 1972	10-13-73 10-20-73	65.8 94.0
White River	Wabash River	Lat 39°46'18", long 86°11'08", in NW¼SE¼ sec.3, T.15 N., R.3 E., Marion County, at bridge on New York Street, in Indianapolis, and 0.7 mile downstream from Fall Creek.			10-19-73	217
White River	...do.....	Lat 39°43'44", long 86°10'30", in NW¼SW¼ sec.23, T.15 N., R.3 E., Marion County, 500 ft upstream from Pleasant Run, and 0.6 miles downstream from Raymond Street bridge, in Indianapolis.	1,638		10-20-73	346

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tribtuary to	Location	Drainage area (Mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		OHIO RIVER BASIN--Continued				
Pleasant Run	White River	Lat 39°44'41", long 86°08'23", in SE¼NE¼ sec.13, T.15 N., R.3 W., Marion County, at Shelby Street bridge, in Indianapolis.			10-20-73	0.35
Pleasant Run	...do.....	Lat 39°44'03", long 86°09'15", in NW¼NW¼ sec.24, T.15 N., R.3 E., Marion County, at Madison Avenue bridge in Indianapolis, and 0.3 mile downstream from Bean Creek.	20.6	1960-70	10-20-73	2.50
Mario Creek	Eagle Creek	Lat 39°48'27", long 86°19'37", in NE¼NE¼ sec.29, T.16 N., R.2 E., Hendricks County, at County Line Road, 2.6 miles upstream from mouth, and 6 miles south of Clermont.			05-21-74	512
Tansel Branch	Mario Creek	Lat 39°48'00", long 86°19'24", in NW¼SW¼ sec.28, T.16 N., R.2 E., Marion County, at Tansel Road, 0.45 mile upstream from mouth, and 1.1 miles south of Clermont.			05-21-74	2.32
Mario Creek	Eagle Creek	Lat 39°47'57", long 86°17'59", in NE¼SE¼ sec.28, T.16 N., R.2 E., Marion County, at Country Club Road, 1.4 miles upstream from mouth, and 1.3 miles southeast of Clermont.			05-21-74	1,499
Eagle Creek	White River	Lat 39°47'34", long 86°16'06", in NW¼NW¼ sec.36, T.16 N., R.2 E., Marion County, 600 ft downstream from West 21st Street bridge, at Speedway.		1957	10-13-73 10-20-73	30.5 33.4
Eagle Creek	...do.....	Lat 39°45'55", long 86°13'26", in SW¼SE¼ sec.5, T.15 N., R.3 E., Marion County, 0.7 mile upstream from Little Eagle Creek in Indianapolis.			10-13-73 10-20-73	45.4 38.4
Eagle Creek	...do.....	Lat 39°45'02", long 86°12'28", in NE¼NW¼ sec.16, T.15 N., R.3 E., Marion County, at bridge on West Morris Street, in Indianapolis.			10-20-73	45.2
Eagle Creek	...do.....	Lat 39°43'26", long 86°11'47", in SW¼SW¼ sec.22, T.15 N., R.3 E., Marion County, 0.85 mile downstream from West Raymond Street bridge, in Indianapolis.		1957, 1958	10-20-73	51.8
Lick Creek	...do.....	Lat 39°42'30", long 86°11'13", in SW¼SE¼ sec.27, T.15 N., R.3 E., Marion County, at Harding Street bridge, in Indianapolis, and 0.8 mile from mouth.			10-20-73	3.76
White River	Wabash River	Lat 39°42'17", long 86°12'44", in NW¼NW¼ sec.33, T.15 N., R.3 E., Marion County, 1.2 miles upstream from Interstate 465 Highway bridge, in Indianapolis.			10-20-73	443
White River	...do.....	Lat 39°39'58", long 86°14'10", in SE¼SE¼ sec.7, T.14 N., R.3 E., Marion County, 200 ft downstream from Little Buck Creek, 1,200 ft upstream from bridge on Southport Road, in Indianapolis.	1,945	1950, 1965, 1966	10-13-73	598
White River	...do.....	Lat 39°33'36", long 86°16'14", in NE¼NE¼ sec.23, T.13 N., R.2 E., Morgan County, at bridge on State Highway 144, at Waverly.	2,026	1965, 1966, 1972	10-13-73 10-18-73	609 588
White River	...do.....	Lat 39°29'57", long 86°21'23", in NE¼NW¼ sec.7, T.12 N., R.2 E., Morgan County, 300 ft downstream from Henderson bridge, and 2.8 miles south of Brooklyn.			10-13-73 10-18-73	645 624
White Lick Creek	White River	Lat 39°45'36", long 86°25'01", in NW¼NW¼ sec.10, T.15 N., R.1 E., Hendricks County, at bridge on county road, 700 ft upstream from Lake View outlet, and 0.95 mile west of Avon.	75.8	1972	10-13-73 10-18-73	5.52 6.54
White Lick Creek	...do.....	Lat 39°40'29", long 86°23'28", in NE¼NW¼ sec.11, T.14 N., R.1 E., Hendricks County, at bridge on County Road 600 South, and 1.1 miles south of Plainfield city limits.	106		10-13-73 10-18-73	30.4 11.2
West Fork White Lick Creek	White Lick Creek	Lat 39°41'16", long 86°26'49", in NW¼NE¼ sec.5, T.14 N., R.1 E., Hendricks County, at bridge on U.S. Highway 40, and 2.7 miles west of Plainfield.	50.5		10-18-73	5.50
East Fork White Lick Creek	..do.....	Lat 39°43'49", long 86°19'23", in SW¼NW¼ sec.21, T.15 N., R.2 E., Marion County, at bridge on U.S. Highway 40, and 0.3 mile west of Bridgeport.	23.2		10-13-73 10-18-73	19.5 4.54
East Fork White Lick Creek	...do.....	Lat 39°36'30", long 86°21'52", in NW¼SE¼ sec.36, T.14 N., R.1 E., Morgan County, at bridge on State Highway 144, at Mooresville.	51.1		10-18-73	9.86

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
		BASE LINE QUALITY ASSESSMENT OF INDIANA DUNES LAKE SHORE				
		Lake Michigan Basin				
Markowitz ditch	Dunes Creek	Lat 41°39'06", long 87°04'01", in SW¼SW¼ sec.13, T.37 N., R.6 W., Porter County, 150 ft downstream from County Road 1500 North, and 150 ft upstream from mouth.			10-17-73 01-23-74 04-25-74	0.15 2.87 .46
Dunes Creek tributary	...do.....	Lat 41°39'04", long 87°02'36", in NE¼NW¼NW¼ sec.19, T.37 N., R.5 W., Porter County, at culvert on U.S. Highway 12, 1.1 miles northeast of State Highway 49.			10-16-73 01-22-74 04-24-74	.16 5.07 .60
Dunes Creek	Lake Michigan	Lat 41°39'45", long 87°03'47", in SE¼NW¼NW¼ sec.13, T.37 N., R.6 W., Porter County, 50 ft upstream from mouth, at Indiana Dunes State Park Pavilion.			10-17-73 01-22-74 04-23-74	1.93 50.2 5.56
Derby ditch	...do.....	Lat 41°41'07", long 86°59'58", in SW¼NW¼SE¼ sec.4, T.37 N., R.5 W., Porter County, at outlet at Lake Front Drive in Beverly Shores.			10-16-73 01-22-74 04-23-74	.36 23.9 3.98
Brown ditch	Kintzele ditch	Lat 41°41'06", long 86°57'17", in SW¼NE¼SE¼ sec.2, T.37 N., R.5 W., Porter County, at culvert on U.S. Highway 12 in Town of Pines.			10-15-73 01-22-74 04-23-74	1.02 18.5 2.60
Kintzele ditch	Lake Michigan	Lat 41°41'09", long 86°56'09", in NW¼SE¼SE¼ sec.36, T.38 N., R.5 W., Porter County, 100 ft downstream from Chicago South Shore and South Bend Railroad bridge, 1,000 ft west of Porter-LaPorte County line.			10-15-73 01-21-74 04-22-74	2.19 73.8 4.29
		NATIONAL EUTROPHICATION SURVEY				
		Ohio River Basin				
Silver Creek	East Fork Whitewater River	Lat 39°37'38", long 84°57'27", in SE¼SW¼ sec.11, T.14 N., R.2 W., Union County, at secondary road bridge, approximately 1 mile southwest of Liberty.	16.1		06-10-73 10-11-73 07-19-74	12.7 1.44 3.09
Silver Creek	...do.....	Lat 39°35'47", long 84°59'00", in NW¼NW¼ sec.27, T.11 N., R.2 W., Union County, at West Road bridge, just north of junction with Crist Road.	20.0		0 6-10-73 10-11-73	26.2 .76
Laughery Creek	Ohio River	Lat 39°06'13", long 85°14'16", in SE¼SW¼ sec.30, T.7 N., R.12 E., Ripley County, at end of secondary road.	151		06-09-73 0 7-21-74	101 4.95
Falling Timber Creek	Laughery Creek	Lat 39°04'52", long 85°13'55", in NW¼SE¼ sec.6, T.8 N., R.12 E., Ripley County, alongside trail, upstream from mouth, approximately 1.5 miles northeast of Versailles.	6.0		06-09-73 10-14-73 07-21-74	2.05 .08 0
Cedar Creek	...do.....	Lat 39°04'53", long 85°15'02", in NE¼SW¼ sec.1, T.7 N., R.11 E., Ripley County, near mouth, at north edge of Versailles.	4.58		06-09-73 10-14-73 07-21-74	.38 .04 .01
Cedar Creek tributary	Cedar Creek	Lat 39°04'44", long 85°15'03", in NE¼SW¼ sec.1, T.7 N., R.11 E., Ripley County, near mouth, at north edge of Versailles.	3.03		06-09-73 10-14-73 07-21-74	.33 .32 .02
Laughery Creek	Ohio River	Lat 39°03'36", long 85°14'06", in SE¼SW¼ sec.7, T.7 N., R.12 E., Ripley County, 500 ft downstream from U.S. Highway 50.	170		06-09-73 10-14-73 07-21-74	92.6 4.70 3.31
Hummel Creek	Mississinewa River	Lat 40°35'36", long 85°39'08", in NW¼NW¼ sec.29, T.25 N., R.8 E., Grant County, at bridge at intersection of State Roads 9 and 37, 2.3 miles north of Marion.	12.5		06-08-73 10-16-73 07-18-74	9.96 .04 .12
Metocinah Creek	...do.....	Lat 40°38'32", long 85°42'35", in SW¼SW¼ sec.2, T.25 N., R.7 E., Grant County, at bridge on State Highway 15, 2.3 miles south of LaFontaine.	9.8		06-08-73 10-16-73 07-18-74	6.87 1.00 1.48
Badger Creek	Grant Creek	Lat 40°40'02", long 85°43'44", in SE¼SW¼ sec.27, T.26 N., R.7 E., Wabash County, at bridge on County Road 1100 South, 0.5 mile southwest of LaFontaine.	2.8		06-08-73 10-16-73 07-18-74	1.46 0 .25[a]
Grant Creek	Mississinewa River	Lat 40°41'29", long 85°43'32", in NE¼SW¼ sec.27, T.26 N., R.7 E., Wabash County, at bridge on State Highway 15, in LaFontaine.	4.9		06-08-73 10-16-73 07-18-74	2.13 .28 .46
Cart Creek	...do.....	Lat 40°38'20", long 85°47'40", in SW¼SE¼ sec.6, T.25 N., R.7 E., Grant County, at bridge on County Road 600 North, 2.1 miles northwest of Jalapa.	9.5		06-08-73 10-16-73 0 7-18-74	12.4 .29 1.00

Discharge measurements made at miscellaneous sites during water year 1974
(and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		NATIONAL EUTROPHICATION SURVEY--Continued				
		Ohio River Basin--Continued				
Tippecanoe River	Wabash River	Lat 41°18'58", long 85°40'17", in SW¼NW¼ sec.13, T.33 N., R.7 E., Kosciusko County, at bridge on Road 550 North, 1 mile east of State Highway 13.	44.2		06-09-73	81.7
Tippecanoe River	...do.....	Lat 41°18'58", long 85°41'32", in SE¼NE¼ sec.15, T.33 N., R.7 E., Kosciusko County, at bridge on State Highway 13, 0.4 mile southeast of North Webster.	49.3		06-09-73 07-18-74	115 2.74
Tippecanoe River	...do.....	Lat 41°19'18", long 85°44'05", in NW¼NE¼ sec.17, T.33 N., R.7 E., Kosciusko County, at peninsula in Between-the-Lakes Park.	55.9		06-09-73	224
Grassy Creek	Tippecanoe River	Lat 41°18'28", long 85°44'07", in SW¼SE¼ sec.17, T.33 N., R.7 E., Kosciusko County, at bridge on Road 500 North, near public fishing site.	51.8		06-09-73 10-13-73 07-18-74	136 20.1 6.59
Long ditch tributary	Long ditch	Lat 41°19'30", long 85°46'25", in SW¼SE¼ sec.12, T.33 N., R.6 E., Kosciusko County, at bridge on Stanton Road, 0.3 mile southeast of Stony Ridge.	.07		06-09-73 10-13-73 07-18-74	.33 0 0
Wyland ditch	Winona Lake	Lat 41°13'15", long 85°49'15", in SW¼SW¼ sec.15, T.32 N., R.6 E., Kosciusko County, at bridge on Park Avenue at the southern end of the community of Winona Lake.	13.9		06-09-73 10-13-73 07-17-74	43.0 2.59 2.25
Keefer-Evans ditch	...do.....	Lat 41°12'56", long 85°49'10", in SW¼NW¼ sec.22, T.32 N., R.6 E., Kosciusko County, at wooden foot bridge in Chicago Boys Club Camp.	4.3		06-09-73 10-13-73 07-17-74	8.38 1.58 2.51
Peterson ditch	...do.....	Lat 41°12'45", long 85°49'45", in SW¼NE¼ sec.21, T.32 N., R.6 E., Kosciusko County, at bridge on Boss Road, at southern end of lake.	11.6		06-09-73 10-13-73 0 7-17-74	21.2 2.15 4.26
Eagle Creek	Walnut Creek	Lat 41"13"30", long 85°50'48", in NE¼SE¼ sec.17, T.32 N., R.6 E., Kosciusko County, at bridge on Packerton Road, west-northwest of WRSW radio towers.	32.1		06-09-73 10-13-73 07-17-74	95.6 28.9 6.27
Lake Maxinkuckee tributary	Lake Maxinkuckee	Lat 41°10'45", long 86°23'12", in NE¼SE¼ sec.34, T.32 N., R.1 E., Marshall County, at West 20 Broad bridge approximately 4.0 miles south-southeast of Culver.	2.4		06-08-73 10-11-73 07-17-74	1.95 .20 .18
Curtiss ditch	...do.....	Lat 41°12'12", long 86°23'20", in SE¼SE¼ sec.22, T.32 N., R.1 E., Marshall County, at bridge on State Highway 117, near east side of lake and adjacent to golf course.	2.4		06-08-73 10-11-73 07-17-74	4.26 2.98 0
Wilson ditch	...do.....	Lat 41°13'20", long 86°23'46", in NW¼SE¼ sec.15, T.32 N., R.1 E., Marshall County, at bridge on State Highway 117, at north end of lake near Culver Military Academy.	2.2		06-08-73 10-11-73 07-17-74	3.06 .41 .54
Wilson ditch	Tippecanoe River	Lat 41°12'17", long 86°25'09", in NE¼SW¼ sec.21, T.32 N., R.1 E., Marshall County, at medium-duty road bridge at south edge of Culver.	13.7		06-08-73 10-11-73 07-17-74	25.2 .20 6.80
Flatfork Creek	Fall Creek	Lat 39°56'28", long 85°52'30", in NE¼NW¼ sec.8, T.17 N., R.6 E., Hamilton County, at bridge on Connecticut Avenue, 1.5 miles northwest of Fortville.	10.0		06-10-73 10-13-73 07-20-74	14.3 14.6 4.74
Dry Branch	Geist Reservoir	Lat 39°53'41", long 85°54'54", in NW¼NW¼ sec.27, T.17 N., R.5 E., Marion County, at bridge on Germantown Road, 1.3 miles north of Oaklandon.	5.0		06-10-73 10-13-73 07-20-74	6.43 .75 .66
Thorpe Creek	...do.....	Lat 39°58'17", long 85°53'26", in NW¼NE¼ sec.31, T.18 N., R.6 E., Hamilton County, at bridge on State Highway 238, 3.4 miles northwest of Fortville.	8.1		06-10-73 10-13-73 07-20-74	17.7 1.58 1.46
Fall Creek	White River	Lat 39°53'53", long 85°59'29", in SW¼SW¼ sec.20, T.17 N., R.5 E., Marion County, at bridge on East 79th Street, 2.4 miles northwest of Oaklandon.	215		06-10-73 10-13-73	294 56.6
Doe Creek	Cataract Lake	Lat 39°29'12", long 86°49'09", in SW¼SE¼ sec.11, T.12 N., R.4 W., Putnam County, at bridge on county road, 2.2 miles southwest of Cloverdale.			06-08-73 10-20-73 07-18-74	1.71 .49 .65
Ferguson Branch	Doe Creek	Lat 39°29'52", long 86°50'02", in NE¼NE¼ sec.10, T.12 N., R.4 W., Putnam County, at bridge on county road, 2.3 miles southwest of Cloverdale.	6.1		10-20-73 07-18-74	.28 .34

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		NATIONAL EUTROPHICATION SURVEY--Continued				
		Ohio River Basin--Continued				
Rabbit Run	Doe Creek	Lat 39°30'28", long 86°47'48", in SW¼NE¼ sec.1, T.12 N., R.4 W., Putnam County, at bridge on county road, 0.5 mile southwest of Cloverdale.			06-08-73	1.59
Ferguson Branch	...do.....	Lat 39°30'27", long 86°49'11", in NW¼SW¼ sec.2, T.12 N., R.4 W., Putnam County, at bridge on county road, 1.8 miles west of Cloverdale.			10-20-73 07-18-74	.17 .25
Bull Path	Ferguson Branch	Lat 39°30'55", long 86°49'58", in NE¼NE¼ sec.3, T.12 N., R.4 W., Putnam County, at bridge on State Highway 343, 2.1 miles west of Cloverdale.			10-20-73 07-18-74	.01 0
South Fork Salt Creek	Middle Fork Salt Creek	Lat 39°01'19", long 86°15'39", in SW¼SW¼ sec.24, T.7 N., R.2 E., Jackson County, at bridge 0.5 mile downstream from Negro Creek, and 4 miles south of Elkinsville.			06-09-73 10-06-73 07-19-74	70.5 4.52 1.22
Middle Fork Salt Creek	Salt Creek	Lat 39°05'37", long 86°12'30", in SE¼SE¼ sec.29, T.8 N., R.3 E., Brown County, at bridge on State Highway 135, ½ mile southeast of Story.			06-09-73 10-06-73 07-19-74	44.7 .01 .31
Gravel Creek	Middle Fork Salt Creek	Lat 39°05'30", long 86°13'41", in SE¼SE¼ sec.30, T.8 N., R.3 E., Brown County, at bridge 0.2 mile above mouth, and 1.0 mile southwest of Story.			06-09-73 10-06-73 07-19-74	3.37 0 .03
Crooked Creek	...do.....	Lat 39°06'29", long 86°18'49", in SW¼SW¼ sec.21, T.8 N., R.2 E., Brown County, at bridge in front of Crooked Creek School, 3.5 miles northwest of Elkinsville.			06-09-73 10-06-73 07-19-74	1.41 0 0
Brummett Creek	North Fork Salt Creek	Lat 39°10'45", long 86°23'35", in SW¼SE¼ sec.27, T.9 N., R.1 E., Monroe County, at bridge 0.3 mile downstream from Conrad Branch, and 4 miles south of Unionville.			06-09-73 10-06-73 07-20-74	8.07 .01[a] .10
Moore Creek	Salt Creek	Lat 39°06'52", long 86°28'12", in SW¼NE¼ sec.24, T.8 N., R.1 W., Monroe County, at bridge 1.9 miles northeast of Handy.			06-09-73 10-06-73 07-20-74	.21 0 0
Lower Schooner Creek	North Fork Salt Creek	Lat 39°09'30", long 86°20'09", in SE¼NE¼ sec.6, T.8 N., R.2 E., Brown County, approximately 200 ft east of State Highway 46, 0.1 mile upstream from mouth, and 0.7 mile northeast of Belmont.			06-09-73 10-06-73 07-20-74	7.21 0[a] .05
		Streams tributary to Lake Michigan				
Marsh Lake tributary	Marsh Lake	Lat 41°43'08", long 84°58'15", in SE¼SE¼ sec.25, T.38 N., R.13 E., Steuben County, at light-duty road bridge running north-south approximately 2.0 miles west of Fremont.	8.0		06-09-73 10-12-73 07-19-74	8.71 3.04 4.04
Seven Sisters Lakes outlet	...do.....	Lat 41°42'50", long 84°59'31", in NE¼NE¼ sec.35, T.38 N., R.3 E., Steuben County, at light-duty road running east-west approximately 3.5 miles west of Fremont.	1.9		06-09-73 10-12-73 07-19-74	2.33 .11 .12
Follette Creek	Little Otter Lake	Lat 41°43'16", long 84°59'33", in NE¼SE¼ sec.26, T.38 N., R.13 E., Steuben County, approximately 300 yards north of end of unimproved dirt road, downstream of Marsh Lake outlet.	15.4		06-09-73 10-12-73 07-19-74	21.2 5.30 5.70
Lake James tributary	Lake James	Lat 41°40'55", long 85°01'12", in SE¼NW¼ sec.10, T.37 N., R.13 E., Steuben County, at bridge on secondary road near Lake James Golf Course.	1.05		06-10-73 10-11-73 07-20-74	.74 .32 .65
Lake James tributary	...do.....	Lat 41°42'03", long 85°01'12", in SE¼SW¼ sec.34, T.38 N., R.13 E., Steuben County, near mouth, and 0.5 mile north of Glen Eden.	1.52		06-10-73 10-11-73 07-20-74	.51 .18 .12[a]
Lake James outlet	Jimmerson Lake	Lat 41°41'58", long 85°02'53", in NW¼NW¼ sec.4, T.37 N., R.13 E., Steuben County, on secondary road near community of Lake James.	43.0		06-10-73 10-12-73 07-20-74	89.9 11.3 16.0
Crooked Lake tributary	Crooked Lake	Lat 41°40'16", long 85°02'07", in NW¼NE¼ sec.16, T.37 N., R.13 E., Steuben County, on secondary road, 0.5 mile northwest of the county farm.	2.06		06-10-73 10-11-73 07-20-74	1.74 .04 .17

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		NATIONAL EUTROPHICATION SURVEY--Continued				
		Streams tributary to Lake Michigan--Continued				
Center Lake outlet	Crooked Lake	Lat 41°40'02", long 85°02'14", in SW¼NE¼ sec.16, T.37 N., R.13 E., Steuben County, at bridge on secondary road just northeast of 4-H Camp.	3.01		06-10-73 10-11-73 07-20-74	4.75 .14 .03[a]
Loon Lake outlet	...do.....	Lat 41°40'05", long 85°03'04", in NE¼NE¼ sec.17, T.37 N., R.13 E., Steuben County, at bridge on secondary road, approximately 1 mile north of Loon Lake.	2.62		06-10-73 10-11-73 07-20-74	3.11 0 0
Crooked Lake outlet	Third Basin	Lat 41°40'23", long 85°04'04", in SE¼SE¼ sec.7, T.37 N., R.13 E., Steuben County, at bridge on secondary road between Second and Third Basin.	10.4		06-10-73 10-11-73	20.9 0[a]
Third Basin outlet	Lake Gage	Lat 41°40'24", long 85°03'52", in SW¼SW¼ sec.8, T.37 N., R.13 E., Steuben County, at west end of Second Basin outlet.	10.2		06-10-73 10-12-73 07-20-74	18.0 .44 .28
Pigeon Creek	Pigeon River	Lat 41°38'48", long 84°55'39", in SE¼SW¼ sec.21, T.37 N., R.14 E., Steuben County, at light-duty road bridge, 0.8 mile south of Scott Center School.	20.7		06-09-73 10-12-73 07-19-74	17.1 3.80 6.24
Bwing ditch	Pigeon Lake	Lat 41°38'40", long 84°56'44", in SE¼SW¼ sec.20, T.37 N., R.14 E., Steuben County, on light-duty road, 0.2 mile north of Pigeon Lake, and approximately 2.0 miles east of Angola.	4.00		06-09-73 10-12-73 07-19-74	2.52 0 .40[a]
Pigeon Creek	Pigeon River	Lat 41°38'00", long 84°50'17", in SE¼SE¼ sec.29, T.37 N., R.14 E., Steuben County, at bridge on State Highway 20, approximately 3 miles east of Angola.	35.2		06-09-73 10-12-73 07-19-74	41.4 2.68 6.10
Berlien ditch	Pigeon Creek	Lat 41°38'15", long 84°55'30", in SE¼NW¼ sec.28, T.37 N., R.14 E., Steuben County, at bridge on County Road 350 East, approximately 3.5 miles east of Angola.	3.20		10-12-73	0
Pigeon Creek	Pigeon River	Lat 41°34'38", long 85°01'00", in NW¼SE¼ sec.15, T.36 N., R.13 E., Steuben County, at bridge on secondary road, at northeast edge of town of Pleasant Lake.	63.6		06-09-73 07-19-74	101 13.3
Pigeon Creek	...do.....	Lat 41°35'18", long 85°02'22", in SE¼SW¼ sec.9, T.36 N., R.13 E., Steuben County, at unimproved road crossing 0.5 mile northwest of Moonlight.	68.0		06-09-73 07-18-74	131 20.1
Little Elkhart Creek	Witmer Lake	Lat 41°31'55", long 85°23'00", in NW¼SW¼ sec.33, T.36 N., R.10 E., LaGrange County, at bridge on secondary road near mouth of Creek.	31.7		06-10-73	47.6
Witmer Lake outlet	Westler Lake	Lat 41°32'12", long 85°23'50", in SE¼NW¼ sec.32, T.36 N., R.10 E., LaGrange County, at bridge on County Road 700 South, just southwest of Webers Landing.	36.1		06-10-73 07-19-74	63.5 3.56
Dove Creek	Oliver Lake	Lat 41°34'38", long 85°24'57", in SE¼NW¼ sec.18, T.36 N., R.10 E., LaGrange County, at bridge on Road 450 South, just east of junction with Road 50 East.	2.20		06-10-73 10-12-73 07-19-74	3.04 0 1.43
Oliver Lake outlet	Hackenburg Lake	Lat 41°34'03", long 85°24'55", in SE¼SW¼ sec.18, T.36 N., R.10 E., LaGrange County, at bridge on Road 50 East, just west of lake.	11.1		06-10-73 10-12-73 07-19-74	18.0 2.58 1.38
Hackenburg Lake	Messick Lake	Lat 41°33'24", long 85°25'25", in SW¼SW¼ sec.19, T.36 N., R.10 E., LaGrange County, at northwest end of lake.	39.8		06-10-73	77.9
Henderson Lake	Sylvan Lake	Lat 41°28'28", long 85°19'30", in SW¼NW¼ sec.24, T.35 N., R.10 E., Noble County, at secondary road bridge, 2 miles east of State Highway 9.	19.0		06-10-73 07-19-74	27.7 3.89
Oviatt ditch	Latta Lake outlet	Lat 41°29'03", long 85°18'13", in SW¼SW¼ sec.18, T.35 N., R.11 E., Noble County, at bridge on secondary road, 2 miles west of State Highway 3.	5.40		06-10-73 07-19-74	8.23 .36
Sylvan Lake outlet	Little Lake	Lat 41°29'55", long 85°22'40", in SE¼SW¼ sec.9, T.35 N., R.10 E., Noble County, below dam at outlet.	33.8		06-10-73 07-19-74	73.8 133
Turkey Creek	Lake Wawasee	Lat 41°22'57", long 84°40'00", in SE¼SW¼ sec.24, T.34 N., R.7 E., Kosciusko County, at bridge on State Highway 13A, 0.3 mile north of Wawasee State Fish Hatchery.	15.9		06-10-73	44.2

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
		NATIONAL EUTROPHICATION SURVEY--Continued				
		Streams tributary to Lake Michigan--Continued				
Dillon Creek	Lake Wawasee	Lat 41°23'40", long 85°39'40", in SW¼SE¼ sec.13, T.34 N., R.7 E., Kosciusko County, at bridge on Road 1100 North, 0.4 mile southeast of Enchanted Hills.	1.96		06-10-73 10-13-73 07-18-74	0.90 0 0
Papakeechie Lake outlet	...do.....	Lat 41°22'35", long 85°40'15", in SW¼SW¼ sec.24, T.34 N., R.7 E., Kosciusko County, at bridge on State Highway 13A, near Wawasee State Fish Hatchery.	5.52		06-10-73 10-13-73 07-18-74	12.0 1.32 .14
Lake Wawasee outlet	Syracuse Lake	Lat 41°25'07", long 85°43'40", in SW¼NW¼ sec.9, T.34 N., R.7 E., Kosciusko County, at bridge on Road 1240 North, at north edge of Kale Island.	6.04		06-10-73	12.0
Lake Wawasee outlet	...do.....	Lat 41°24'55", long 85°44'07", in SE¼NE¼ sec.8, T.34 N., R.7 E., Kosciusko County, at bridge on Road 1240 North, at west edge of Kale Island.	30.4		06-10-73	72.6
		Streams tributary to Lake Erie				
Black Creek	Hamilton Lake	Lat 41°33'38", long 84°54'16", in SE¼SW¼ sec.22, T.36 N., R.14 E., Steuben County, at bridge on State Highway 1, 0.4 mile east of Clarks Landing.	9.3		06-09-73 07-19-74	10.8 .10
Hamilton Lake tributary	...do.....	Lat 41°33'40", long 84°55'58", in SW¼SW¼ sec.21, T.36 N., R.14 E., Steuben County, at bridge on secondary road, 0.4 mile northwest of lake.	1.30		06-09-73 07-19-74	2.98 .09[a]
Hamilton Lake tributary	...do.....	Lat 41°33'40", long 84°54'38", in SW¼SW¼ sec.22, T.36 N., R.14 E., Steuben County, at bridge on secondary road, at Clarks Landing.	1.20		06-09-73 07-19-74	1.90 .03
Fish Creek	St. Joseph River	Lat 41°32'02", long 84°54'47", in NE¼SE¼ sec.33, T.36 N., R.14 E., Steuben County, at bridge on State Highway 427, in Hamilton.	16.5		06-09-73 07-19-74	35.1 .96[a]
		Illinois River Basin				
Cedar Lake ditch	Craigmile ditch	Lat 41°12'40", long 86°36'44", in SE¼NW¼ sec.23, T.32 N., R.2 W., Starke County, at bridge on U.S. Highway 35, at southwest edge of Bass Lake.	5.18		06-08-73 10-11-73 07-17-74	3.54 0 .05
		WATER QUALITY OF SELECTED WATERSHED MANAGEMENT PROJECTS				
		Ohio River Basin				
Anderson River	Ohio River	Lat 38°17'56", long 86°40'42", in NW¼SW¼ sec.31, T.2 S., R.2 W., Crawford County, 400 ft downstream from Anderson River tributary, and 1.2 miles southeast of Birdseye.			01-17-74	43.3
Anderson River tributary	Anderson River	Lat 38°18'11", long 86°40'42", in SW¼NW¼ sec.31, T.2 S., R.2 W., Crawford County, 0.2 mile upstream from mouth, and 1 mile southeast of Birdseye.			01-17-74	.74
Waddle Creek tributary	Waddle Creek	Lat 38°17'45", long 86°41'25", in NW¼SW¼ sec.36, T.2 S., R.3 W., Dubois County, at mouth of tributary, and 1.3 miles south of Birdseye.			01-17-74	.59
Anderson River	Ohio River	Lat 38°14'53", long 86°42'38", in NE¼NW¼ sec.23, T.3 S., R.3 W., Perry County, 100 ft west of intersection of State Highway 145 and county road, and 1.8 miles northwest of Kitterman Corners.			01-17-74	53.8
Sigler Creek	Anderson River	Lat 38°13'51", long 86°41'45", in NW¼SW¼ sec.25, T.3 S., R.3 W., Perry County, on State Highway 145, 250 ft north of intersection of State Highway 145 and U.S. Highway 62 in Kitterman Corners.			01-17-74	17.6

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WATER QUALITY OF SELECTED WATERSHED MANAGEMENT PROJECTS--Continued				
		Ohio River Basin--Continued				
Hurricane Creek	Ferdinand Run	Lat 38°16'02", long 86°45'17", in SE¼SE¼ sec.8, T.3 S., R.3 W., Dubois County, at intersection of Schnellville and Kyana Road, 1.2 miles northeast of fish hatchery, and 4.6 miles southwest of Birdseye.			01-17-74	6.71
Hurricane Creek	...do.....	Lat 38°14'37", long 86°45'44", in SE¼NW¼ sec.20, T.3 S., R.3 W., Perry County, at bridge 1,000 ft west of Niehause Road, and 5.5 miles northwest of Ferdinand.			01-17-74	18.8
Ferdinand Run	Anderson River	Lat 38°11'34", long 86°47'41", in SE¼SE¼ sec.1, T.4 S., R.4 W., Spencer County, 600 ft upstream from mouth, and 1.8 miles northeast of St. Meinrad.			01-17-74	13.0
Blackhawk Creek	...do.....	Lat 38°10'28", long 86°48'14", in NW¼NW¼ sec.13, T.4 S., R.4 W., Spencer County, at St. Meinrad, at U.S. 460, and 1,500 ft upstream from mouth.			01-17-74	18.2
Anderson River	Ohio River	Lat 38°10'02", long 86°47'50", in NW¼SE¼ sec.13, T.4 S., R.4 W., Spencer County, on Bristow-St. Meinrad Road, and 0.8 mile southeast of St. Meinrad.			01-16-74	380
Swinging Creek	Anderson River	Lat 38°08'40", long 86°48'56", in NE¼NW¼ sec.26, T.4 S., R.4 W., Spencer County, at State Highway 545, and 1.5 miles south of St. Meinrad Seminary.			01-16-74	11.4
Meinrad Hollow Creek	Swinging Creek	Lat 38°08'59", long 86°48'28", NE¼NE¼ sec.26, T.4 S., R.4 W., Spencer County, at State Highway 545, 600 ft upstream of mouth, and 1.5 miles south of St. Meinrad.			01-16-74	6.30
Lanman Run	Anderson River	Lat 38°08'28", long 86°45'51", in SE¼NW¼ sec.29, T.4 S., R.3 W., Perry County, at Foster Road, 0.3 mile north of strip mines, and 3.2 miles southeast of St. Meinrad.			01-16-74	7.22
Lanman Run tributary	Lanman Run	Lat 38°08'09", long 86°45'52", in NE¼SW¼ sec.29, T.4 S., R.3 W., Perry County, at Foster Road, 300 ft north of strip mines, 1,000 ft upstream of mouth, and 3.2 miles southeast of St. Meinrad.			01-16-74	.42
Lanman Run	Anderson River	Lat 38°07'45", long 86°47'03", in NE¼NW¼ sec.31, T.4 S., R.3 W., Perry County, at Adyeville Road, 0.5 mile south of Lanman Cemetery, and 3.3 miles southeast of St. Meinrad.			01-16-74	9.24
Brushy Hollow Creek	Brushy Fork	Lat 38°00'05", long 86°44'13", in SE¼SE¼ sec.9, T.6 S., R.3 W., Spencer County, at county bridge, 1.8 miles southwest of St. Mark's School, and 4.2 miles northeast of Tell City.			01-16-74	4.70
Rock Creek	Wabash River	Lat 40°40'26", long 86°15'02", in SE¼NW¼ sec.25, T.26 N., R.2 E., Cass County, at bridge on U.S. Highway 35, and 0.8 mile northwest of Walton.			06-13-74	1.96
Phillips ditch	Rock Creek	Lat 40°40'16", long 86°15'10", in NE¼SW¼ sec.25, T.26 N., R.2 E., Cass County, at bridge on County Road 650 South, and 0.7 mile northwest of Walton.			06-13-74	.59
Toney ditch	...do.....	Lat 40°40'16", long 86°18'44", in NE¼SW¼ sec.28, T.26 N., R.2 E., Cass County, at bridge at Blue Ball Church, and 0.5 mile north of State Highway 218, and 4 miles west of Walton.			06-13-74	2.58
Clingenpeel ditch	...do.....	Lat 40°39'56", long 86°20'09", in SW¼SW¼ sec.29, T.26 N., R.2 E., Cass County, at bridge on Morgan Hill Road, 600 ft north of State Highway 218, and 4.5 miles west of Walton.			06-13-74	2.02
Ansberry Bird ditch	...do.....	Lat 40°39'22", long 86°22'59", in NW¼SE¼ sec.35, T.26 N., R.1 E., Carroll County, at bridge on County Road 750 North, 0.8 mile southeast of Rock Creek Cemetery, and 5 miles south of Logansport.			06-13-74	4.53

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WATER QUALITY OF SELECTED WATERSHED MANAGEMENT PROJECTS--Continued				
		Ohio River basin--Continued				
Little Rock Creek	Rock Creek	Lat 40°41'33", long 86°19'53", in SE¼SW¼ sec.17, T.26 N., R.2 E., Cass County, at bridge on County Road 500 South, 1,200 ft east of Morgan Hill Road, and 4 miles southeast of Logansport.			06-13-74	6.01
Little Rock Creek	...do.....	Lat 40°39'48", long 86°24'07", in SE¼SW¼ sec.27, T.26 N., R.1 E., Carroll County, at bridge on County Road 800 North, 1,500 ft west of Mt. Pisgah Church, and 5.5 miles south of Logansport.			06-13-74	15.5
Rock Creek	Wabash River	Lat 40°39'11", long 86°25'48", in NW¼SW¼ sec.33, T.26 N., R.1 E., Carroll County, at bridge on County Road 500 East, 1,500 ft north of County Road 700 North, and 4 miles south of Clymers.			06-13-74	38.6
Jordan Creek	Middle Branch Vermilion River	Lat 40°24'40", long 87°28'01", in NE¼SW¼ sec.29, T.23 N., R.9 W., Warren County, at bridge 0.4 mile east of Tab, and 0.9 mile above Leak ditch.			09-24-74	.25
Leak ditch	Jordan Creek	Lat 40°24'40", long 87°28'47", in SW¼NE¼ sec.30, T.23 N., R.9 W., Warren County, at bridge 0.2 mile west of Tab, and 1.1 miles above mouth.			09-24-74	.09
Jordan Creek	Middle Branch Vermilion River	Lat 40°22'38", long 87°29'29", in SW¼SW¼ sec.6, T.22 N., R.9 W., Warren County, at bridge, 0.6 mile above Little Creek, and 2.5 miles southwest of Tab.			09-24-74	.44
Little Creek	Jordan Creek	Lat 40°22'18", long 87°29'28", in NW¼NW¼ sec.7, T.22 N., R.9 W., Warren County, at bridge, 0.7 mile above mouth, and 1.3 miles northwest of Stewart.			09-24-74	.13
Jordan Creek	Middle Branch Vermilion River	Lat 40°21'21", long 87°31'41", in SW¼NW¼ sec.14, T.22 N., R.10 W., Warren County, at bridge on Indiana-Illinois State line, and 1 mile southwest of Pence.			09-24-74	.59
Lye Creek	Sugar Creek	Lat 40°09'24", long 86°48'02", in SW¼SE¼ sec.19, T.19 N., R.4 W., Montgomery County, at County Road 800 North, and 5 miles southeast of Linden.			04-30-74	30.4
Armentrout Dredge ditch tributary	Armentrout Dredge ditch	Lat 40°09'57", long 86°52'00", in SW¼NW¼ sec.22, T.20 N., R.4 W., Montgomery County, at bridge on County Road 225 East, 0.2 mile upstream from mouth, and 3.3 miles east of Linden.			04-30-74	1.12
Armentrout Dredge ditch	Lye Creek	Lat 40°09'25", long 86°51'58", in SW¼SW¼ sec.22, T.19 N., R.4 W., Montgomery County, at bridge on County Road 800 North, 100 ft ft east of intersection with County Road 200 East, and 3.2 miles southeast of Linden.			04-30-74	3.79
Armentrout Dredge ditch	...do.....	Lat 40°09'23", long 86°49'09", in NE¼NW¼ sec.25, T.19 N., R.4 W., Montgomery County, at intersection of County Roads 450 East and 800 North, and 5 miles southeast of Linden.			04-30-74	6.16
Armentrout Dredge ditch tributary	Armentrout Dredge ditch	Lat 40°09'25", long 86°51'58", in SE¼NW¼ sec.25, T.19 N., R.4 W., Montgomery County, at bridge on County Road 450 East, 0.5 mile north of County Road 700 North, and 5.1 miles southeast of Linden.			04-30-74	1.03
Lye Creek tributary	Lye Creek	Lat 40°08'06", long 86°47'41", in NE¼SE¼ sec.15, T.19 N., R.4 E., Montgomery County, at bridge on County Road 650 North, 1.2 miles east of Road 450 North, and 2 miles north of Darlington.			04-30-74	.89
Prairie Creek	Wabash River	Lat 39°19'57", long 87°24'25", in SE¼SE¼ sec.4, T.10 N., R.9 W., Vigo County, at bridge on County Road 13 West, 1 mile southeast of Terre Haute Federal Penetentiary, and 1 mile northwest of Pimento.			04-04-74	5.46
Prairie Creek	...do.....	Lat 39°19'29", long 87°26'27", in NW¼SW¼ sec.8, T.10 N., R.9 W., Vigo County, at bridge on County Road 13 South, and 1 mile southwest of Terre Haute Federal Penetentiary.			04-04-74	42.4
Prairie Creek tributary	Prairie Creek	Lat 39°18'24", long 87°27'38", in NE¼S[illegible] sec.13, T.10 N., R.10 W., Vigo County, at bridge on County Road 23 South, 0.8 mile west of Prairie Creek Church, and 4.5 miles south of Prairieton.			04-04-74	11.8

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WATER QUALITY OF SELECTED WATERSHED MANAGEMENT PROJECTS--Continued				
		Ohio River Basin--Continued				
Prairie Creek	Wabash River	Lat 39°18'10", long 87°28'10", in SE¼SW¼ sec.13, T.10 N., R.10 W., Vigo County, at bridge on County Road 65 West, and 5 miles south of Prairieton.			04-04-74	80.0
Prairie Creek tributary	Prairie Creek	Lat 39°19'00", long 87°24'30", in SW¼NW¼ sec.15, T.10 N., R.9 W., Vigo County, at bridge on County Road 1 South, and 1 mile west of Pimento.			04-04-74	2.36
Prairie Creek tributary	...do.....	Lat 39°19'03", long 87°24'28", in SE¼SE¼ sec.9, T.10 N., R.9 W., Vigo County, at bridge on County Road 17 West, and 1.5 miles west of Pimento.			04-04-74	.94
Prairie Creek	Wabash River	Lat 39°16'50", long 87°29'53", in NW¼SW¼ sec.26, T.10 N., R.10 W., Vigo County, at bridge on State Highway 63, and 0.3 mile north of Prairie Creek.			04-05-74	52.4
Prairie Creek tributary	Prairie Creek	Lat 39°17'08", long 87°28'26", in NE¼NW¼ sec.25, T.10 N., R.10 W., Vigo County, 600 ft east of County Road 35 South, 600 ft south of County Road 21 West, 0.5 mile upstream from mouth, and 1.3 miles northeast of Prairie Creek.			04-05-74	3.97
Prairie Creek tributary	...do.....	Lat 39°16'39", long 87°29'53", in NW¼SW¼ sec.26, T.10 N., R.10 W., Vigo County, at bridge on State Highway 63, 600 ft north of cemetery, and 0.5 mile north of Prairie Creek.			04-05-74	1.38
Big Blue River	Driftwood River	Lat 40°01'04", long 85°20'07", in NW¼SE¼ sec.12, T.18 N., R.10 E., Henry County, at bridge on State Highway 103, 0.8 mile southwest of Rogersville.			07-17-74	3.60
Moon Brook	Big Blue River	Lat 40°01'22", long 85°19'59", in NW¼NE¼ sec.12, T.18 N., R.10 E., Henry County, 600 ft upstream of mouth, and 0.3 mile southeast of Rogersville.			07-17-74	.07
Lick Branch	...do.....	Lat 39°58'59", long 85°21'55", in NW¼SW¼ sec.26, T.18 N., R.10 E., Henry County, at bridge on County Road 100 East, 0.5 mile upstream of mouth, 1.3 miles north of Indiana Village for Epileptics, and 3.8 miles north of New Castle.			07-17-74	.87
Moonshine Run	Little Blue River	Lat 39°57'38", long 85°20'01", in NW¼NE¼ sec.1, T.17 N., R.10 E., Henry County, at bridge on County Road 200 West, 1 mile east of Van Nuys and 2.5 miles northeast of New Castle.			07-17-74	.95
Big Blue River	Driftwood River	Lat 39°56'17", long 85°23'03", in NW¼SW¼ sec.10, T.17 N., R.10 E., Henry County, at bridge on State Highway 3, 0.5 mile north of Broad Street at New Castle.			07-17-74	21.7
Mound Run	Big Blue River	Lat 39°55'04", long 85°23'38", in SW¼SE¼ sec.16, T.17 N., R.10 E., Henry County, at bridge on County Road 100 South, and 1 mile southwest of New Castle.			07-17-74	1.06
Big Blue River	Driftwood River	Lat 39°53'39", long 85°24'34", in NW¼SE¼ sec.29, T.17 N., R.10 E., Henry County, at bridge on County Road 125 West, 0.5 mile south of County Road 200 South, and 1 mile southwest of New Castle.			07-17-74	34.4
Pink Creek	Big Blue River	Lat 39°53'13", long 85°24'25", in NE¼NE¼ sec.32, T.17 N., R.10 E., Henry County, at bridge on County Road 125 West, also called Spiceland Road, and 3 miles southwest of New Castle.			07-14-74	.25
Westwood Run	...do.....	Lat 39°53'26", long 85°26'05", in SE¼SW¼ sec.30, T.17 N., R.10 E., Henry County, at bridge on Greensboro Pike, 600 ft east of County Road 275 West, and 1.6 miles northeast of Greensboro.			07-17-74	1.16
Duck Creek	...do.....	Lat 39°52'46", long 85°28'04", in NW¼SE¼ sec.35, T.17 N., R.9 E., Henry County, at bridge on County Road 350 South, and 0.2 mile west of Greensboro.			07-17-74	8.16

Discharge measurements made at miscellaneous sites during water year 1974 (and some made in 1973 water year)--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WATER QUALITY OF SELECTED WATERSHED MANAGEMENT PROJECTS--Continued				
		Ohio River Basin--Continued				
Buck Creek	Big Blue River	Lat 39°48'11", long 85°25'46", in SE¼SE¼ sec.29, T.16 N., R.10 E., Henry County, at bridge on U.S. Highway 40, 50 ft west of junction with County Road 225 West, and 0.3 mile east of Dunreith.			07-18-74	1.29
Buck Creek	...do.....	Lat 39°48'19", long 85°29'53", in NE¼SW¼ sec.26, T.16 N., R.9 E., Henry County, at bridge on County Road 575 West, 400 ft north of U.S. Highway 40, and 1.5 miles northeast of Knightstown.			07-18-74	7.65
Montgomery Creek	...do.....	Lat 39°48'19", long 85°32'39", in NE¼SE¼ sec.29, T.16 N., R.9 E., Henry County, 0.5 northwest of Knightstown, at bridge 0.6 mile east of State Highway 109.			07-17-74	4.28
Threemile Creek	...do.....	Lat 39°45'44", long 85°32'46", in NE¼SE¼ sec.8, T.15 N., R.9 E., Rush County, at bridge on State Highway 140, and 2.5 miles south of Knightstown.			07-18-74	3.01
Goose Creek	...do.....	Lat 39°46'24", long 85°33'44", in SE¼SE¼ sec.6, T.15 N., R.9 E., Rush County, at bridge on county road, 150 ft south of gravel pits, and 2.2 miles southeast of Knightstown.			07-17-74	1.02

For several 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)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
LAUGHERY CREEK BASIN							
03-2768.00 Versailles Lake near Versailles	Ripley	168.0	232	-	-	-	1957-74
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	-	-	1943-74
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 1959-74
03-3282.50 North Little Lake at Silver Lake	Kosciusko	2.89	12	861.73	170	+	1947-74
03-3283.50 Silver Lake at Silver Lake	Kosciusko	6.31	102	861.73	1,520	+	1947-74
03-3284.00 Lukens Lake near Disko	Wabash	1.76	46	-	1,010	+	1948-49 1959-74
03-3300.20 Crooked Lake near Wolflake	Noble	1.51	206	905.69	9,040	+	1943-53
03-3300.40 Big Lake near Wolflake	Noble	8.89	228	898.18	5,630	+	1943-74
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	+	1943-74
03-3301.60 Gilbert Lake near Washington Center	Noble	.37	28	-	490	+	1954-74
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	-	-	1943-74
03-3302.43 James Lake at Oswego	Kosciusko	55.9	282	836.40	7,580	+	1943-74
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	+	1943-74
03-3303.20 Kuhn Lake near North Webster	Kosciusko	3.85	137	837.50	1,290	+	1945-74
03-3303.40 Big Barbee Lake near North Webster	Kosciusko	44.7	304	837.50	5,640	+	1945-74
03-3303.60 Little Barbee Lake nr North Webster	Kosciusko	49.0	74	837.50	960	+	1945-74
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	+	1945-74
03-3304.20 Irish Lake near North Webster	Kosciusko	50.9	182	837.50	2,330	+	1945-74
03-3304.40 Sechrist Lake near North Webster	Kosciusko	.58	105	837.50	2,490	+	1945-74
03-3304.60 Sawmill Lake near North Webster	Kosciusko	51.8	36	837.50	370	+	1945-74
03-3304.80 Tippecanoe Lake at Oswego	Kosciusko	113	768	836.40	28,380	+	1943-74
03-3304.95 Oswego Lake at Oswego	Kosciusko	113	83	836.40	780	+	1943-74
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	+	1954-74
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	+	1954-74
03-3311.40 Winona Lake at Warsaw	Kosciusko	32.1	562	811.06	16,680	+	1943-74
03-3311.60 Center Lake at Warsaw	Kosciusko	.73	120	803.86	2,060	+	1945-74
03-3311.80 Palestine Lake at Palestine	Kosciusko	32.4	290	-	1,170	+	1954-74
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

	Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
	WABASH RIVER BASIN--Continued							
03-3313.00	Hill Lake near Silver Lake	Kosciusko	0.85	67	871.50	1,300	+	1952-74
03-3313.20	Diamond Lake near Silver Lake	Kosciusko	3.92	79	-	1,280	+	1954-73
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	-	-	1943-74
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	+	1946-74
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	+	1971-74
03-3314.40	Maxinkuckee Lake at Culver	Marshall	13.7	1,864	733.12	45,600	+	1943-74
03-3314.60	Lost Lake near Culver d	Marshall	14.2	40	732.00	-	-	1954-74
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	+	1954-74

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	-	-	1946-73
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	-	-	1946-74
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	283	964.66	-	-	1946-74
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	-	-	1946-74
04-0979.50	Lake Gage at Panama	Steuben	h17.3	324	954.25	-	-	1946-74
04-0979.60	Lime Lake at Panama	Steuben	h17.5	44	954.25	-	-	1946-74
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	+	1946-74
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	+	1946-74
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	-	-	1954-74
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	+	1952-74
04-0996.70	Fish Lake near Plato	Lagrange	h10.6	100	936.50	4,050	+	1945-74
04-0997.00	North Twin Lake near Howe	Lagrange	1.54	135	843.56	2,120	+	1953-74
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	+	1951-74
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	+	1970-74
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	+	1946-74
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	+	1946-74
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	+	1945-74
04-1000.60	Westler Lake near Wolcottville	Lagrange	37.8	88	897.36	1,770	+	1945-74
04-1000.70	Dallas Lake near Wolcottville	Lagrange	39.8	283	897.36	9,970	+	1945-74
04-1000.80	Martin Lake near Valentine	Lagrange	4.93	26	899.45	890	+	1945-74
04-1000.90	Olin Lake near Valentine	Lagrange	5.8	103	899.45	9.180	+	1945-74
04-1001.00	Oliver Lake near Valentine	Lagrange	11.1	362	899.45	-	-	1945-74
04-1001.10	Hackenburg Lake near Wolcottville	Lagrange	55.4	42	897.36	510	+	1945-74
04-1001.20	Messick Lake near Wolcottville	Lagrange	56.4	68	897.36	1,450	+	1945-74
04-1001.30	Jones Lake near Cosperville f	Noble	70.3	114	885.55	960	+	1948-74
04-1001.40	Bixler Lake at Kendallville	Noble	5.28	120	963.65	2,090	+	1945-74
04-1001.50	Round Lake at Kendallville	Noble	3.47	99	954.50	2,140	+	1954-74
04-1001.60	Little Long Lake at Kendallville	Noble	4.55	71	954.50	1,750	+	1954-74
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	-	-	1943-74
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	+	1948-74
04-1002.10	Steinbarger Lake near Cosperville	Noble	24.3	73	885.55	1,590	+	1948-74
04-1002.20	Waldron Lake near Cosperville	Noble	134	216	885.55	3,120	+	1948-74
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	+	1961-74
04-1002.60	Bear Lake near Wolflake	Noble	6.98	136	894.60	3,030	+	1943-74
04-1002.80	Muncie Lake near Burr Oak	Noble	42.8	47	-	580	+	1954-74
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	+	1956-74
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	+	1946-73
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	+	1946-74
04-1003.90	Knapp Lake near Washington Center	Noble	6.02	88	878.25	3,040	+	1946-74
04-1004.00	Moss Lake near Washington Center	Noble	6.12	9	878.25	80	+	1946-74
04-1004.10	Hindman Lake near Washington Center	Noble	8.66	13	878.25	140	+	1946-74
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	Papakeechie 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	+	1943-74
04-1004.70	Dewart Lake near Leesburg	Kosciusko	h8.05	551	867.70	9,000	+	1945-74
04-1004.80	Wabee Lake near Milford	Kosciusko	h14.6	187	829.79	4,75(	+	1946-53
	STREAMS TRIBUTARY TO LAKE ERIE							
04-1772.00	Clear Lake at Clear Lake	Steuben	6.86	800	1,037.38	24,990	+	1943-74
04-1772.10	Round Lake at Clear Lake	Steuben	7.25	30	1,037.38	340	+	1943-74
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	+	1961-74
04-1777.00	Hamilton Lake at Hamilton	Steuben	16.5	802	898.83	16,600	+	1943-74
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	+	1946-74
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	-	-	-	-	1960-74
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	-	-	1946-74
05-5152.30	Stone Lake at LaPorte	LaPorte	h10.7	140	796.20	-	-	1946-74
05-5152.40	Clear Lake at LaPorte	LaPorte	.65	106	798.20	760	+	1942-49 1952-74
05-5156.00	Koontz Lake at Koontz Lake	Starke	h6.25	346	714.56	3,170	+	1943-74
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	+	1945-74
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)	Established 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	-	-	1943-74
05-5176.00 Wauhob Lake near Valparaiso	Porter	.40	21	-	-	-	1946-74
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	-	-	1946-74
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	+	1943-74
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.
* Revised.
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 Druely 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 areas 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	1920	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	56	520
Ferdinand Lake	Dubois	42	440	Schlamm 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	1547	26,000	Whitewater Lake	Union	199	3650
Lake Shafer	White	1291	13,120	Yellowwood Lake	Brown	133	1890
STREAMS TRIBUTARY TO LAKE MICHIGAN							
Appleman Lake	Lagrange	52	590	Mateer Lake	Lagrang	18	150
Bartley Lake	Noble	34	430	Miller Lake	Noble	11	160
Barton Lake	Steuben	94	1340	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	1080	Pigeon Lake	Lagrange	61	1160
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	1210
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	1340
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	1070
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	1580

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