

CALENDAR FOR WATER YEAR 1979

1 9 7 8

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Water Resources Data for Indiana

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IN-79-1

WATER YEAR 1979

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. W. Menard, Director

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1980

PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of Indiana and with other agencies by personnel of the Indiana district of the Water Resources Division, under the supervision of D. K. Stewart, District Chief, and James E. Biesecker, Regional Hydrologist, Northeastern Region.

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

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FOR WHICH RECORDS ARE PUBLISHED

VII

(w-discharge, c-chemical, t-temperature, s-sediment)

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INTRODUCTION

Water resources data for the 1979 water year for Indiana consist of records of streamflow or reservoir storage at gaging stations, partial-record stations, miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water, and water levels of wells. Records for a few pertinent streamflow and water-quality stations in bordering states also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

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

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a state-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a state-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water years reports will be in a series which will carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report IN-79-1." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

COOPERATION

The U.S. Geological Survey and organizations of the State of Indiana have had cooperative agreements for the systematic collection of streamflow records since 1930, for ground-water levels since 1940, and for water-quality records since 1951. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

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

Indiana State Board of Health, R. G. Blankenbacker, M.D., commissioner, and R. C. Pickard, assistant commissioner for environmental health.

Indiana State Highway Commission, D. C. Pratt, chairman, H. P. Wehrenberg, executive director, and G. K. Hallock, chief engineer.

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

The following organizations aided in collecting records: The cities of Anderson, Bloomington, Fort Wayne, Hammond, Indianapolis, Muncie, and Richmond; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Co. of Indiana; Container Corporation of America; and Sanitary District of Chicago.

DEFINITION OF TERMS

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

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 or 1,233 meters.

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 $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ 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 warm-blooded 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 $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$ 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 warm-blooded 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 $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

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

Cubic feet per second per day ($\text{ft}^3/\text{s}/\text{day}$) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

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

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

Cubic feet per second per square mile ($\text{ft}^3/\text{s}/\text{mi}^2$, cfsm) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s , cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

Mean discharge (MEAN) 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)".

Dissolved.--That material in a representative water sample which passes through a 0.45 μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distant hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

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

Milligrams per liter (mg/L , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 8. Concentration of suspended sediment also is expressed in mg/L , and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 8.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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

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

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

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

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

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

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

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

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

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

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

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

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

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

| Range of concentration in 1000 mg/L | Di- vide by | Range of concentration in 1000 mg/L | Di- vide by | Range of concentration in 1000 mg/L | Di- vide by | Range of concentration in 1000 mg/L | Di- vide 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.

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

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

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

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

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

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

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

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORD 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.

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 drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS

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

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.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF STAGE AND WATER-DISCHARGE 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 selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. 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), step-back water techniques, 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 is 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 tables 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 station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. 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."

Previously published streamflow 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 "REVISED RECORDS" 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 are affected by the revision, the 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 type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page ____.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of 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 given under "REMARKS."

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. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given, first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding 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 on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject 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. The minimums for these stations are published in a separate paragraph following the table of peaks.

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 discharge 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.

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

Data collected at partial-record stations and miscellaneous sites are given in tables at the end of the surface-water records in this report.

Accuracy of data

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are 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 ft³/s; to tenths between 1.0 and 10 ft³/fs; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/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.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, 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.

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 Paper 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.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

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 chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/L), and water temperatures

are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/mL (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/mL, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 3 on page 19.

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

Water analysis

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

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

Water 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.

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

| °C | °F | °C | °F | °C | °F | °C | °F | °C | °F |
|-------|----|------|----|------|----|------|-----|------|-----|
| <hr/> | | | | | | | | | |
| 0.0 | 32 | 10.0 | 50 | 20.0 | 68 | 30.0 | 86 | 40.4 | 104 |
| .5 | 33 | 10.5 | 51 | 20.5 | 69 | 30.5 | 87 | 40.5 | 105 |
| 1.0 | 34 | 11.0 | 52 | 21.0 | 70 | 31.0 | 88 | 41.0 | 106 |
| 1.5 | 35 | 11.5 | 53 | 21.5 | 71 | 31.5 | 89 | 41.5 | 107 |
| 2.0 | 36 | 12.0 | 54 | 22.0 | 72 | 32.0 | 90 | 42.0 | 108 |
| 2.5 | 36 | 12.5 | 54 | 22.5 | 72 | 32.5 | 90 | 42.5 | 108 |
| 3.0 | 37 | 13.0 | 55 | 23.0 | 73 | 33.0 | 91 | 43.0 | 109 |
| 3.5 | 38 | 13.5 | 56 | 23.5 | 74 | 33.5 | 92 | 43.5 | 110 |
| 4.0 | 39 | 14.0 | 57 | 24.0 | 75 | 34.0 | 93 | 44.0 | 111 |
| 4.5 | 40 | 14.5 | 58 | 24.5 | 76 | 34.5 | 94 | 44.5 | 112 |
| 5.0 | 41 | 15.0 | 59 | 25.0 | 77 | 35.0 | 95 | 45.0 | 113 |
| 5.5 | 42 | 15.5 | 60 | 25.5 | 78 | 35.5 | 96 | 45.5 | 114 |
| 6.0 | 43 | 16.0 | 61 | 26.0 | 79 | 36.0 | 97 | 46.0 | 115 |
| 6.5 | 44 | 16.5 | 62 | 26.5 | 80 | 36.5 | 98 | 46.5 | 116 |
| 7.0 | 45 | 17.0 | 63 | 27.0 | 81 | 37.0 | 99 | 47.0 | 117 |
| 7.5 | 45 | 17.5 | 63 | 27.5 | 81 | 37.5 | 99 | 47.5 | 117 |
| 8.0 | 46 | 18.0 | 64 | 28.0 | 82 | 38.0 | 100 | 48.0 | 118 |
| 8.5 | 47 | 18.5 | 65 | 28.5 | 83 | 38.5 | 101 | 48.5 | 119 |
| 9.0 | 48 | 19.0 | 66 | 29.0 | 84 | 39.0 | 102 | 49.0 | 120 |
| 9.5 | 49 | 19.5 | 67 | 29.5 | 85 | 39.5 | 103 | 49.5 | 121 |

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

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.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

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

HYDROLOGIC CONDITIONS

The major hydrological events during the year were a mild autumn; a long, cold, snowy winter; a mild, dry spring; and record-breaking precipitation caused by the remnants of three hurricanes during the summer months.

The first months of the water year were normal, light rainfall about once every 2 weeks into late December. Temperatures began falling in the north after a storm at the end of December, and all precipitation during January and February was snow. Rainfall in the southern part of the State during late January produced the only winter peaks in the State. Snowfall in January ranged from second highest recorded amounts in the north to the fifth highest in the south. Cool weather continued during February, and additional snowfall accumulated in the south. Depth of snow at the time of the first thaw ranged from 7 inches in the south to 23 inches in the north, all with high water content. Temperature rose during the last week of February in the south and the first week of March in the north at most stations.

Precipitation and temperature remained below normal until mid-June. Very heavy thunderstorms in the Patoka, Anderson, Little Blue, and Blue River basins on June 8 produced record peaks on small drainage areas. Statewide thunderstorms at the end of June were a prelude to the wet summer ahead. Precipitation patterns for July and August were established by the collision of several cold fronts from the west and the remnants of two hurricanes, "Bob" on July 12-14 and "Claudette" on July 26-28, over southern Indiana. Record peaks occurred in the Busseron Creek basin, Patoka River basin, and Lower Ohio River tributaries as the result of precipitation during July. Further north, total precipitation in August, the most on record for the month, caused flooding in the Upper White River basins and in the Whitewater River basin in the east-central part of the State.

After the wet August in the southern part of the State, a 33-day dry period in the northern one-third of the State ended the water year. Late in the month the remains of hurricane "David" released more than 3 inches of rain over the southeast corner of the State. Streamflow rapidly returned to near normal throughout the State by the end of the year.

Water temperature throughout the State began the year higher than normal and remained so until the first winter storm during the first week of December. Winter freeze over began in early January in the north and reached the extreme south by mid-month. The ice-cover melted as the temperature rose in late February in the southern half of the State and in early March in the north. Water temperature remained well below normal until a mid-June warm-up. Annual maximum water temperature was recorded at most stations during the last of June.

Heavy rains in the southern two-thirds of the State lowered stream temperatures by 5° to 10° Fahrenheit July and August. Normal air temperatures until the end of the water year, held stream temperatures to slightly below normal.

Ground-water levels varied throughout the year and throughout the State. Levels in northwest part of the State remained well below average during the year, whereas those in the southwest were well above average. New record low levels were recorded in the north during October and December, and new high levels were recorded in the south and central parts of the State during the July-through-September period.

From October through December, levels were well below average in the north and slightly above normal in the remainder of the State. As the winter period approached levels returned to average throughout the State, except those in the extreme south which remained well above average. The spring thaw raised levels in the State by the end of April.

Ground-water levels remained fairly constant through the early summer months. Precipitation from the hurricane-induced storms during July and August raised levels to average by the end of July and to record high levels in the southern two-thirds of the State during August. By the end of the water year, all parts of the State recorded levels well above average, except the northwest where levels remained well below average.

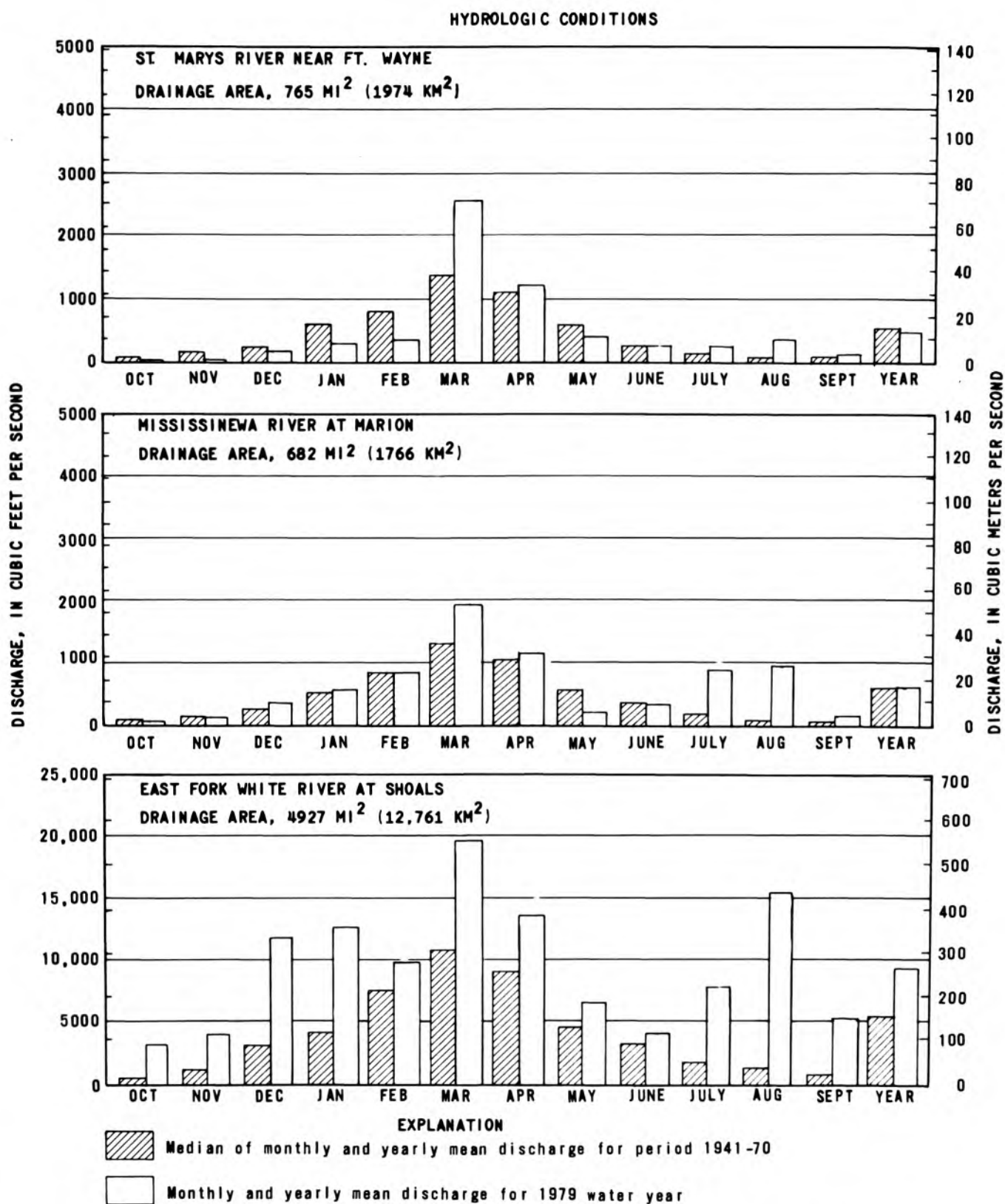


Figure 1.-- Comparison of discharge at three long-term representative gaging stations during 1979 water year with median discharge for period 1941-70.

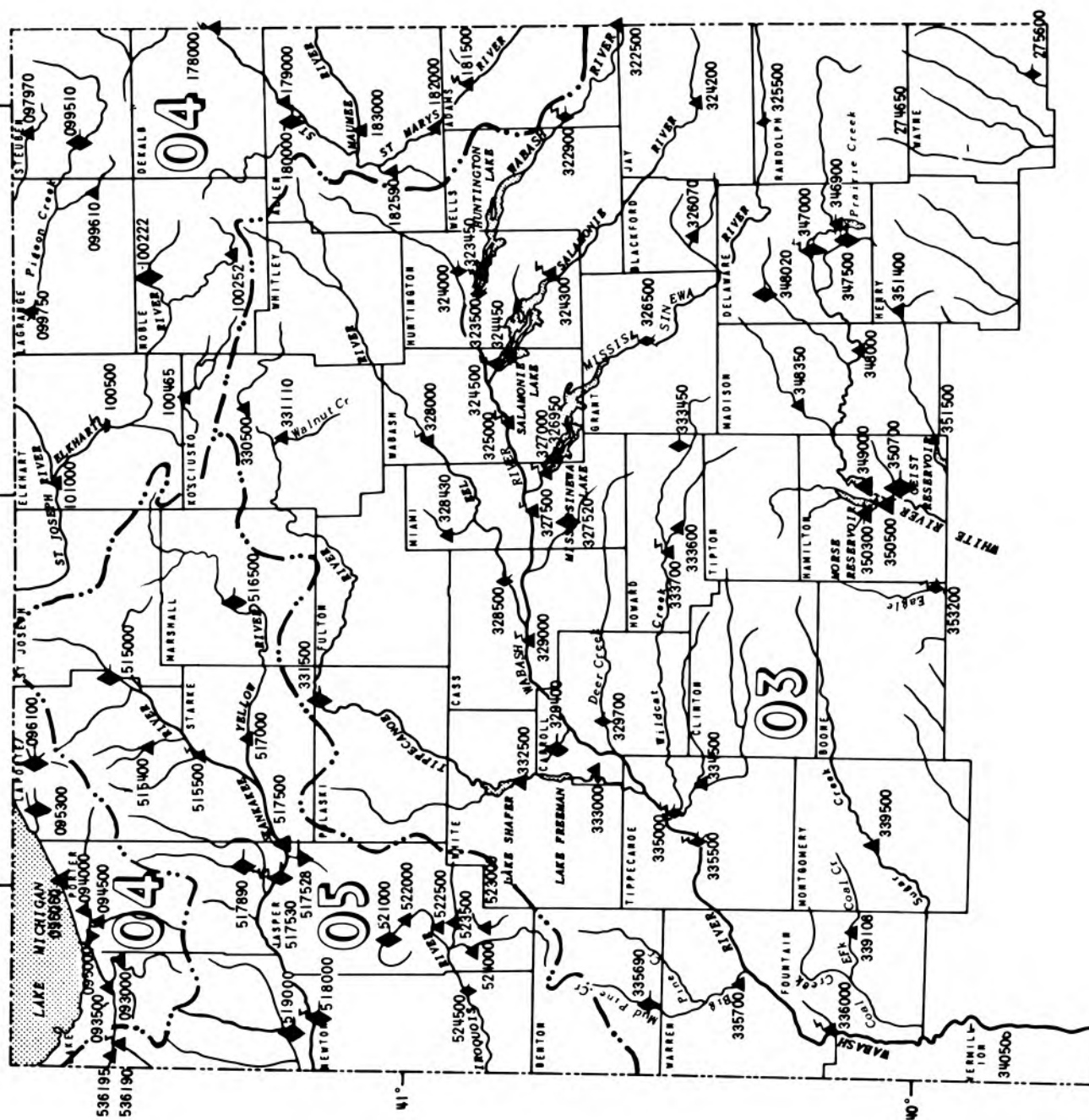
PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Picket Street, Alexandria, VA 22303 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p.
- 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. Application of borehole geophysics to water-resources investigations, by W. W. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. Not currently available.

- 3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics-a programed text for self-instruction, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for collection and analysis of water samples for dissolved minerals and gases, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4.* Methods for collection and analysis of aquatic biological and microbiological samples, by K. V. Slack, R. C. Averett, P. E. Greeson, and P. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages.
- 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.



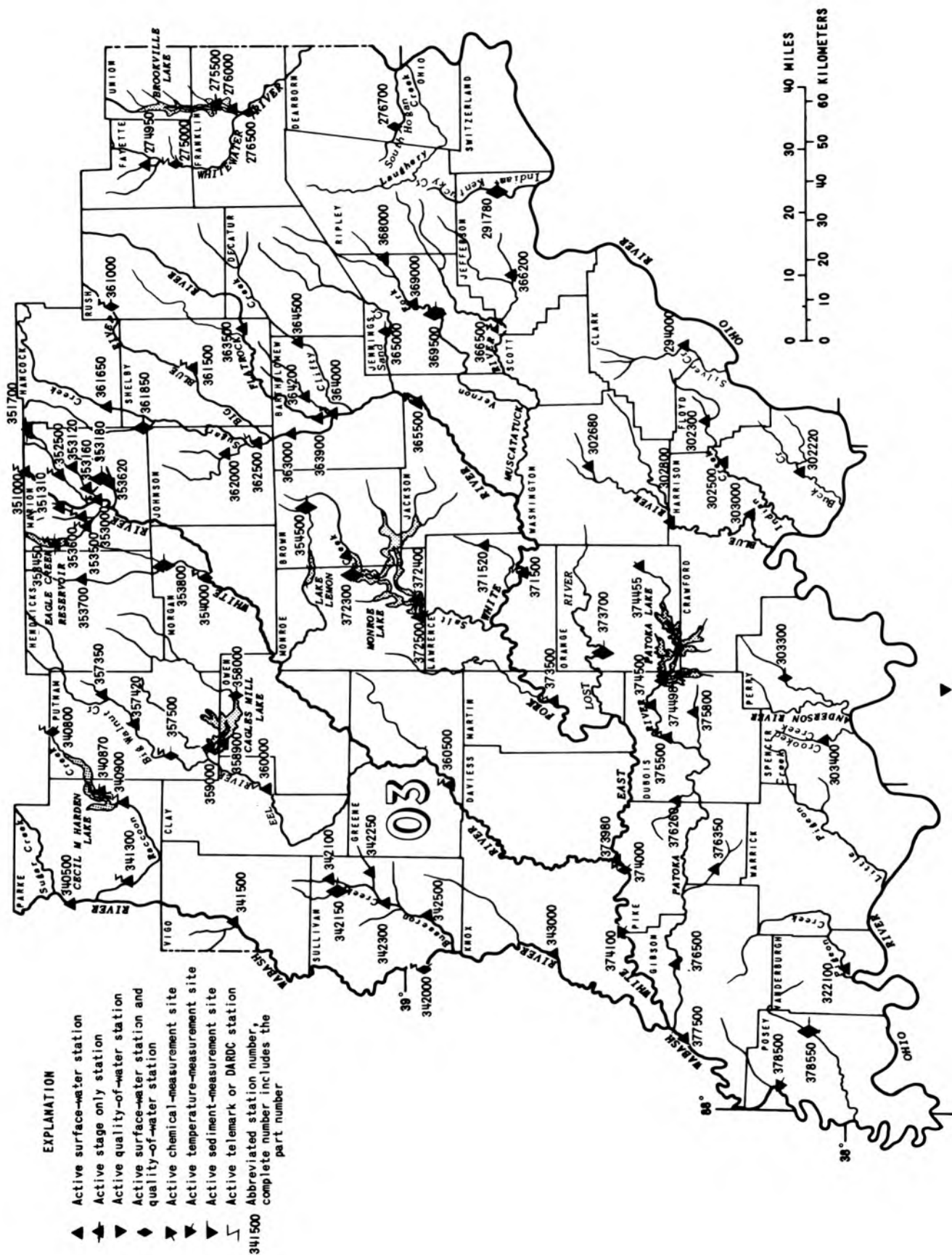


Figure 2.--Location of stream-flow and water quality gaging stations in Indiana.

03274650 WHITEWATER RIVER NEAR ECONOMY, IN

LOCATION.--Lat 40°00'05", long 85°06'56", in NW¼NE¼ sec.19, T.18 N., R.13 E., Wayne County, Hydrologic Unit 05080003, on right bank 6 ft (1.8 m) downstream from bridge on Wayne County Line Road, 1.7 miles (2.7 km) upstream from Little Creek, 2.4 miles (3.9 km) northwest of Economy, and at mile 91.9 (147.9 km).

DRAINAGE AREA.--10.4 mi² (26.9 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft (324.917 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 23 to Feb. 24, which are poor.

AVERAGE DISCHARGE.--9 years, 11.5 ft³/s (0.326 m³/s), 15.02 in/yr (382 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Aug. 20, 1979, gage height, 8.85 ft (2.697 m); minimum daily discharge, 0.28 ft³/s (0.008 m³/s) Jan. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s (5.66 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | unknown | 260 7.36 | unknown | July 28 | 1900 | 890 25.2 | 8.22 2.505 |
| Mar. 3 | 2000 | 396 11.2 | 6.27 1.911 | Aug. 1 | 1500 | 758 21.5 | 7.78 2.371 |
| Apr. 12 | 0200 | 315 8.92 | 5.83 1.777 | Aug. 20 | 2000 | *1100 31.2 | *8.85 2.697 |
| July 13 | 1600 | 291 8.24 | 5.69 1.734 | Aug. 28 | 1700 | 350 9.91 | 6.03 1.838 |
| July 15 | 0200 | 430 12.2 | 6.44 1.963 | | | | |

Minimum daily discharge, 0.88 ft³/s (0.025 m³/s) Oct. 10.

NOTE.--No gage-height record Jan. 23 to Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 1 | 1.2 | 2.6 | 3.8 | 148 | 3.1 | 30 | 10 | 6.1 | 4.1 | 4.1 | 240 | 21 |
| 2 | 1.1 | 2.3 | 3.7 | 70 | 2.9 | 65 | 14 | 5.6 | 3.6 | 3.3 | 176 | 15 |
| 3 | 1.1 | 2.2 | 55 | 25 | 2.8 | 161 | 10 | 8.5 | 3.3 | 3.0 | 58 | 10 |
| 4 | 1.1 | 2.1 | 68 | 15 | 2.7 | 277 | 10 | 8.2 | 3.1 | 3.3 | 34 | 8.8 |
| 5 | 1.1 | 1.9 | 27 | 9.7 | 2.7 | 103 | 8.9 | 6.7 | 9.9 | 3.0 | 27 | 7.1 |
| 6 | 1.1 | 1.8 | 17 | 8.6 | 2.6 | 54 | 15 | 5.9 | 43 | 2.7 | 22 | 6.3 |
| 7 | 1.0 | 1.7 | 14 | 8.0 | 2.5 | 42 | 9.8 | 5.4 | 16 | 2.6 | 17 | 6.0 |
| 8 | .93 | 1.7 | 50 | 7.3 | 2.4 | 34 | 9.5 | 5.0 | 16 | 2.6 | 12 | 5.6 |
| 9 | .90 | 1.7 | 38 | 6.7 | 2.4 | 28 | 14 | 4.5 | 49 | 6.1 | 9.9 | 5.4 |
| 10 | .88 | 1.7 | 16 | 6.2 | 2.3 | 23 | 11 | 4.3 | 20 | 4.0 | 20 | 5.3 |
| 11 | 1.1 | 1.7 | 10 | 6.0 | 2.2 | 15 | 75 | 4.0 | 15 | 3.1 | 60 | 5.1 |
| 12 | 1.2 | 1.7 | 8.6 | 6.0 | 2.2 | 11 | 143 | 5.2 | 10 | 2.8 | 20 | 5.0 |
| 13 | 32 | 1.6 | 8.0 | 6.4 | 2.2 | 11 | 81 | 5.9 | 8.2 | 50 | 11 | 5.8 |
| 14 | 15 | 3.0 | 6.5 | 8.0 | 2.1 | 13 | 83 | 4.5 | 7.0 | 37 | 9.3 | 22 |
| 15 | 13 | 3.2 | 6.2 | 6.1 | 2.1 | 10 | 39 | 4.5 | 5.9 | 67 | 7.4 | 8.6 |
| 16 | 9.5 | 2.4 | 5.2 | 5.5 | 2.0 | 9.2 | 27 | 3.8 | 5.2 | 16 | 6.6 | 5.9 |
| 17 | 7.0 | 50 | 4.7 | 5.0 | 2.0 | 8.5 | 19 | 3.4 | 5.0 | 9.8 | 6.1 | 5.0 |
| 18 | 6.4 | 33 | 4.5 | 4.8 | 2.0 | 8.5 | 14 | 3.3 | 4.5 | 6.4 | 5.9 | 4.7 |
| 19 | 6.0 | 16 | 4.7 | 4.7 | 2.0 | 8.2 | 11 | 3.1 | 6.1 | 4.5 | 22 | 4.4 |
| 20 | 5.1 | 11 | 7.6 | 4.5 | 2.0 | 8.5 | 9.8 | 3.3 | 10 | 4.0 | 304 | 4.3 |
| 21 | 4.2 | 8.4 | 16 | 10 | 5.0 | 7.9 | 9.2 | 2.8 | 11 | 3.4 | 261 | 4.4 |
| 22 | 3.8 | 7.0 | 8.8 | 5.8 | 20 | 7.3 | 8.2 | 2.7 | 5.9 | 3.4 | 114 | 4.2 |
| 23 | 3.4 | 7.4 | 7.2 | 4.9 | 180 | 7.9 | 7.6 | 2.6 | 4.7 | 3.1 | 60 | 3.9 |
| 24 | 2.7 | 6.4 | 7.0 | 6.0 | 107 | 8.5 | 7.3 | 3.0 | 4.0 | 4.1 | 40 | 3.6 |
| 25 | 2.9 | 5.3 | 5.9 | 4.5 | 53 | 7.0 | 7.3 | 6.1 | 3.6 | 40 | 32 | 3.6 |
| 26 | 6.6 | 4.8 | 4.9 | 4.3 | 39 | 5.9 | 7.3 | 7.0 | 3.4 | 62 | 53 | 3.4 |
| 27 | 6.5 | 5.6 | 4.1 | 4.0 | 27 | 5.4 | 7.0 | 15 | 3.3 | 25 | 43 | 3.3 |
| 28 | 4.6 | 5.0 | 4.0 | 3.7 | 18 | 5.6 | 9.8 | 10 | 3.1 | 194 | 100 | 3.4 |
| 29 | 3.4 | 4.4 | 4.0 | 3.5 | --- | 6.1 | 7.6 | 6.4 | 3.6 | 185 | 70 | 3.3 |
| 30 | 3.0 | 4.3 | 4.9 | 3.3 | --- | 6.1 | 7.0 | 4.7 | 7.0 | 60 | 36 | 3.2 |
| 31 | 2.8 | --- | 66 | 3.2 | --- | 10 | --- | 4.5 | --- | 37 | 28 | --- |
| TOTAL | 150.61 | 201.9 | 491.3 | 414.7 | 496.2 | 997.6 | 692.3 | 166.0 | 294.5 | 852.3 | 1905.2 | 197.6 |
| MEAN | 4.86 | 6.73 | 15.8 | 13.4 | 17.7 | 32.2 | 23.1 | 5.35 | 9.82 | 27.5 | 61.5 | 6.59 |
| MAX | 32 | 50 | 68 | 148 | 180 | 277 | 143 | 15 | 49 | 194 | 304 | 22 |
| MIN | .88 | 1.6 | 3.7 | 3.2 | 2.0 | 5.4 | 7.0 | 2.6 | 3.1 | 2.6 | 5.9 | 3.2 |
| CFSM | .47 | .65 | 1.52 | 1.29 | 1.70 | 3.10 | 2.22 | .51 | .94 | 2.64 | 5.91 | .63 |
| IN. | .54 | .72 | 1.76 | 1.48 | 1.77 | 3.57 | 2.48 | .59 | 1.05 | 3.05 | 6.81 | .71 |
| CAL YR 1978 | TOTAL | 4492.91 | MEAN | 12.3 | MAX | 230 | MIN | .88 | CFSM | 1.18 | IN | 16.07 |
| WTR YR 1979 | TOTAL | 6860.21 | MEAN | 18.8 | MAX | 304 | MIN | .88 | CFSM | 1.81 | IN | 24.54 |

03274750 WHITEWATER RIVER NEAR HAGERSTOWN, IN

LOCATION.--Lat 39°52'25", long 85°09'47", in NE¼NE¼ sec.3, T.16 N., R.12 E., Wayne County, Hydrologic Unit 05080003, on left bank at downstream side of bridge on Jerry Meyers Road, 1.0 mile (1.6 km) upstream from Pronghorn Run, 1.5 miles (2.4 km) north of Interstate 70, 2.0 miles (3.2 km) downstream from Nettle Creek, 2.6 miles (4.2 km) south of Hagerstown, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--58.7 mi² (152.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 71.4 ft³/s (2.022 m³/s), 16.52 in/yr (420 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Jan. 26, 1976, gage height, 10.89 ft (3.319 m); maximum gage height, 11.24 ft (3.426 m) Aug. 1, 1979; minimum daily, 5.3 ft³/s (0.15 m³/s) Aug. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft³/s (25.5 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0200 | 1100 31.2 | 7.83 2.387 | July 25 | 1700 | 1250 35.4 | 8.35 2.545 |
| Feb. 23 | 2200 | 1850 52.4 | 10.22 3.115 | July 29 | 0400 | 2030 57.5 | 10.73 3.270 |
| Mar. 4 | 0300 | 1710 48.4 | 9.79 2.984 | Aug. 1 | 2200 | *2200 62.3 | *11.24 3.426 |
| Apr. 12 | 0800 | 1130 32.0 | 7.93 2.417 | Aug. 11 | 0500 | 1270 36.0 | 8.55 2.606 |
| Apr. 14 | 0100 | 955 27.0 | 7.29 2.222 | Aug. 21 | 0800 | 1900 53.8 | 10.37 3.161 |
| June 6 | 0500 | 1060 30.0 | 7.66 2.335 | Aug. 26 | 1900 | 1080 30.6 | 7.77 2.368 |
| July 13 | 2000 | 1100 31.2 | 7.75 2.362 | Aug. 28 | 2200 | 1010 28.6 | 7.50 2.286 |
| July 15 | 0700 | 1400 39.6 | 8.83 2.691 | | | | |

Minimum daily discharge, 20 ft³/s (0.57 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 22 | 30 | 34 | 845 | 34 | 160 | 61 | 61 | 49 | 39 | 815 | 109 |
| 2 | 22 | 29 | 34 | 250 | 32 | 358 | 76 | 59 | 46 | 36 | 1230 | 96 |
| 3 | 22 | 29 | 318 | 140 | 33 | 675 | 66 | 77 | 43 | 34 | 353 | 86 |
| 4 | 22 | 29 | 356 | 100 | 31 | 1380 | 66 | 71 | 43 | 42 | 224 | 80 |
| 5 | 23 | 29 | 118 | 80 | 29 | 453 | 62 | 64 | 48 | 36 | 172 | 76 |
| 6 | 23 | 28 | 84 | 65 | 29 | 255 | 73 | 60 | 429 | 33 | 147 | 71 |
| 7 | 21 | 28 | 73 | 60 | 31 | 202 | 63 | 58 | 101 | 32 | 127 | 66 |
| 8 | 20 | 27 | 240 | 55 | 27 | 171 | 61 | 56 | 80 | 32 | 111 | 62 |
| 9 | 21 | 27 | 189 | 52 | 27 | 147 | 93 | 55 | 319 | 48 | 98 | 59 |
| 10 | 21 | 27 | 89 | 48 | 25 | 133 | 75 | 53 | 112 | 42 | 134 | 57 |
| 11 | 25 | 26 | 71 | 45 | 25 | 106 | 367 | 52 | 90 | 35 | 595 | 55 |
| 12 | 25 | 26 | 66 | 45 | 27 | 95 | 622 | 62 | 67 | 34 | 148 | 53 |
| 13 | 134 | 26 | 62 | 46 | 25 | 90 | 294 | 60 | 61 | 381 | 107 | 58 |
| 14 | 69 | 32 | 56 | 62 | 26 | 94 | 424 | 54 | 55 | 216 | 93 | 154 |
| 15 | 62 | 31 | 54 | 43 | 26 | 80 | 182 | 59 | 52 | 821 | 84 | 76 |
| 16 | 53 | 29 | 52 | 43 | 24 | 74 | 137 | 52 | 49 | 143 | 76 | 61 |
| 17 | 46 | 187 | 48 | 45 | 21 | 70 | 115 | 51 | 48 | 90 | 71 | 56 |
| 18 | 41 | 119 | 47 | 42 | 21 | 68 | 100 | 50 | 47 | 74 | 67 | 54 |
| 19 | 39 | 67 | 46 | 40 | 23 | 68 | 90 | 49 | 78 | 65 | 99 | 52 |
| 20 | 37 | 55 | 51 | 41 | 22 | 70 | 84 | 48 | 65 | 56 | 603 | 50 |
| 21 | 35 | 51 | 78 | 150 | 32 | 65 | 79 | 47 | 82 | 51 | 1210 | 52 |
| 22 | 32 | 46 | 57 | 68 | 110 | 62 | 75 | 45 | 52 | 50 | 649 | 49 |
| 23 | 32 | 45 | 51 | 54 | 1010 | 64 | 72 | 44 | 48 | 50 | 325 | 47 |
| 24 | 32 | 43 | 50 | 54 | 799 | 64 | 71 | 46 | 44 | 166 | 211 | 46 |
| 25 | 32 | 39 | 47 | 47 | 254 | 58 | 73 | 53 | 42 | 974 | 149 | 45 |
| 26 | 36 | 37 | 43 | 44 | 142 | 55 | 70 | 52 | 38 | 672 | 424 | 44 |
| 27 | 37 | 40 | 38 | 44 | 132 | 54 | 68 | 68 | 37 | 235 | 321 | 43 |
| 28 | 33 | 38 | 37 | 43 | 111 | 53 | 76 | 60 | 36 | 574 | 373 | 42 |
| 29 | 31 | 36 | 37 | 40 | --- | 54 | 67 | 53 | 39 | 1210 | 360 | 42 |
| 30 | 31 | 35 | 41 | 39 | --- | 54 | 64 | 50 | 50 | 306 | 173 | 40 |
| 31 | 31 | --- | 321 | 39 | --- | 56 | --- | 51 | --- | 202 | 130 | --- |
| TOTAL | 1110 | 1291 | 2888 | 2769 | 3128 | 5388 | 3826 | 1720 | 2350 | 6779 | 9679 | 1881 |
| MEAN | 35.8 | 43.0 | 93.2 | 89.3 | 112 | 174 | 128 | 55.5 | 78.3 | 219 | 312 | 62.7 |
| MAX | 134 | 187 | 356 | 845 | 1010 | 1380 | 622 | 77 | 429 | 1210 | 1230 | 154 |
| MIN | 20 | 26 | 34 | 39 | 21 | 53 | 61 | 44 | 36 | 32 | 67 | 40 |
| CFSM | .61 | .73 | 1.59 | 1.52 | 1.91 | 2.96 | 2.18 | .95 | 1.33 | 3.73 | 5.32 | 1.07 |
| IN. | .70 | .82 | 1.83 | 1.75 | 1.98 | 3.41 | 2.42 | 1.09 | 1.49 | 4.30 | 6.13 | 1.19 |
| CAL YR 1978 | TOTAL | 27859 | MEAN | 76.3 | MAX | 1180 | MIN | 20 | CFSM | 1.30 | IN | 17.65 |
| WTR YR 1979 | TOTAL | 42809 | MEAN | 117 | MAX | 1380 | MIN | 20 | CFSM | 1.99 | IN | 27.13 |

GREAT MIAMI RIVER BASIN

03274750 WHITEWATER RIVER NEAR HAGERSTOWN, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .500 MM |
|-------|------|-----------------------------|---|--|---|---|---|---|---|
| OCT | | | | | | | | | |
| 03... | 1530 | 10.0 | 22 | 7 | .43 | -- | -- | -- | -- |
| 05... | 0730 | -- | 21 | 26 | 1.4 | -- | -- | -- | -- |
| 12... | 0730 | -- | 23 | 46 | 2.9 | -- | -- | -- | -- |
| 19... | 0900 | -- | 39 | 61 | 6.5 | -- | -- | -- | -- |
| 27... | 0730 | -- | 36 | 62 | 6.1 | -- | -- | -- | -- |
| NOV | | | | | | | | | |
| 02... | 0800 | -- | 29 | 7 | .56 | -- | -- | -- | -- |
| 16... | 0900 | -- | 29 | 82 | 6.5 | -- | -- | -- | -- |
| 24... | 0930 | -- | 44 | 94 | 11 | -- | -- | -- | -- |
| DEC | | | | | | | | | |
| 08... | 1000 | -- | 119 | 132 | 42 | -- | -- | -- | -- |
| 15... | 1030 | 5.5 | 56 | 114 | 17 | -- | -- | -- | -- |
| 19... | 0845 | 5.0 | 44 | 32 | 3.8 | -- | -- | -- | -- |
| JAN | | | | | | | | | |
| 15... | 1230 | .0 | 47 | 7 | .89 | -- | -- | -- | -- |
| 27... | 1230 | -- | 44 | 18 | 2.1 | -- | -- | -- | -- |
| MAR | | | | | | | | | |
| 04... | 1415 | -- | 1310 | 308 | 1090 | 84 | 87 | 100 | -- |
| 06... | 1630 | -- | 237 | 151 | 97 | 95 | 96 | 97 | 100 |
| APR | | | | | | | | | |
| 05... | 1245 | 9.0 | 65 | 53 | 9.3 | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 24... | 1710 | 13.0 | 46 | 56 | 7.0 | -- | -- | -- | -- |
| JUN | | | | | | | | | |
| 29... | 1350 | 19.0 | 36 | 34 | 3.3 | -- | -- | -- | -- |
| JUL | | | | | | | | | |
| 23... | 1645 | -- | 47 | 97 | 12 | 97 | -- | -- | -- |
| 25... | 1120 | -- | 773 | 1540 | 3210 | 97 | 99 | 99 | 100 |
| 25... | 1500 | -- | 1240 | 802 | 2690 | 97 | 99 | 100 | -- |
| AUG | | | | | | | | | |
| 09... | 1130 | 20.0 | 99 | 106 | 28 | -- | -- | -- | -- |
| 21... | 1600 | -- | 765 | 251 | 518 | 94 | 97 | 98 | 100 |
| SEP | | | | | | | | | |
| 20... | 1600 | -- | 50 | 34 | 4.6 | -- | -- | -- | -- |

03274950 LITTLE WILLIAMS CREEK AT CONNERSVILLE, IN

LOCATION.--Lat 39°38'16", long 85°10'20", in SW¼NE¼ sec.27, T.14 N., R.12 E., Fayette County, Hydrologic Unit 05080003, on downstream left bank wingwall of bridge on State Highway 44, 1 mile (2 km) west of Connerville, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--9.16 mi² (23.72 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 842.00 ft (256.642 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 10.10 ft³/s (0.286 m³/s), 14.97 in/yr (380 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,560 ft³/s (101 m³/s) June 22, 1974, gage height, 10.13 ft (3.088 m); minimum daily, 0.35 ft³/s (0.010 m³/s) Aug. 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 180 ft³/s (5.10 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 4 | 0100 | 207 5.86 | 4.16 1.268 | July 13 | 1400 | 362 10.3 | 4.93 1.503 |
| Dec. 31 | 1600 | 240 6.80 | 4.31 1.314 | July 25 | 0100 | 483 13.7 | 5.32 1.622 |
| Feb. 23 | unknown | 830 23.5 | ^a 6.0 1.83 | July 26 | 1100 | 689 19.5 | 5.90 1.798 |
| Mar. 3 | 1800 | 647 18.3 | 5.53 1.686 | July 28 | 1700 | 1140 32.3 | 6.74 2.054 |
| Apr. 13 | 2100 | 185 5.24 | 4.09 1.247 | Aug. 10 | 1500 | 222 6.29 | 4.39 1.338 |
| June 20 | 2000 | 474 13.4 | 5.14 1.567 | Aug. 22 | 0800 | *1240 35.1 | *6.94 2.115 |
| July 4 | 0800 | 254 7.19 | 4.55 1.387 | | | | |

Minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Oct. 2, 9, 10.

^aFrom high-water mark.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|--------|-------|-------|
| 1 | 2.6 | 3.1 | 3.4 | 99 | 5.9 | 36 | 14 | 8.9 | 4.7 | 5.3 | 61 | 12 |
| 2 | 2.2 | 2.8 | 3.4 | 30 | 6.0 | 67 | 14 | 8.1 | 4.3 | 3.7 | 37 | 10 |
| 3 | 2.4 | 2.8 | 45 | 16 | 6.2 | 211 | 13 | 26 | 4.0 | 3.5 | 19 | 9.4 |
| 4 | 2.8 | 2.8 | 63 | 13 | 6.0 | 150 | 14 | 16 | 3.8 | 45 | 16 | 8.8 |
| 5 | 2.6 | 2.9 | 19 | 10 | 5.4 | 42 | 13 | 15 | 3.8 | 8.4 | 14 | 8.0 |
| 6 | 2.6 | 2.9 | 14 | 9.6 | 5.4 | 27 | 13 | 14 | 10 | 6.6 | 13 | 7.3 |
| 7 | 2.5 | 3.2 | 13 | 9.0 | 6.0 | 22 | 12 | 11 | 8.4 | 6.0 | 10 | 6.8 |
| 8 | 2.3 | 3.0 | 78 | 8.6 | 5.4 | 20 | 12 | 9.7 | 8.0 | 5.8 | 9.6 | 6.3 |
| 9 | 2.2 | 2.8 | 33 | 8.4 | 5.0 | 18 | 15 | 8.9 | 6.6 | 8.7 | 9.6 | 6.1 |
| 10 | 2.2 | 2.8 | 17 | 8.2 | 5.0 | 18 | 13 | 8.3 | 5.7 | 5.6 | 28 | 5.7 |
| 11 | 3.8 | 2.8 | 12 | 8.1 | 5.0 | 17 | 19 | 7.8 | 5.0 | 5.2 | 25 | 5.5 |
| 12 | 3.7 | 2.8 | 10 | 8.0 | 5.0 | 15 | 52 | 10 | 4.5 | 5.3 | 12 | 5.1 |
| 13 | 31 | 2.8 | 10 | 8.0 | 4.8 | 14 | 49 | 13 | 4.2 | 110 | 10 | 7.2 |
| 14 | 6.1 | 3.8 | 8.3 | 10 | 4.8 | 16 | 43 | 7.7 | 4.0 | 28 | 9.6 | 40 |
| 15 | 4.1 | 3.6 | 7.9 | 8.0 | 4.8 | 15 | 21 | 6.7 | 3.9 | 13 | 9.6 | 9.6 |
| 16 | 3.7 | 3.6 | 7.5 | 7.2 | 4.6 | 14 | 16 | 6.1 | 3.8 | 9.6 | 9.2 | 7.2 |
| 17 | 3.3 | 43 | 6.7 | 7.0 | 4.5 | 13 | 16 | 5.8 | 3.9 | 7.9 | 9.2 | 6.3 |
| 18 | 3.1 | 16 | 6.6 | 7.0 | 4.5 | 13 | 15 | 5.7 | 4.4 | 6.9 | 9.2 | 5.9 |
| 19 | 3.1 | 8.4 | 6.5 | 7.0 | 4.5 | 14 | 14 | 5.7 | 27 | 6.3 | 10 | 5.2 |
| 20 | 3.1 | 6.1 | 12 | 7.1 | 4.5 | 15 | 13 | 5.6 | 57 | 5.9 | 14 | 5.2 |
| 21 | 3.0 | 5.0 | 13 | 20 | 12 | 14 | 12 | 5.3 | 26 | 5.7 | 10 | 5.6 |
| 22 | 2.9 | 4.6 | 9.2 | 11 | 25 | 13 | 15 | 5.0 | 13 | 6.6 | 241 | 5.2 |
| 23 | 3.0 | 5.3 | 7.8 | 9.3 | 240 | 13 | 13 | 4.8 | 8.7 | 6.5 | 40 | 4.7 |
| 24 | 3.0 | 4.3 | 8.0 | 10 | 63 | 16 | 11 | 5.0 | 7.1 | 32 | 25 | 4.5 |
| 25 | 3.3 | 3.8 | 7.0 | 7.5 | 36 | 15 | 14 | 6.1 | 5.4 | 107 | 18 | 4.1 |
| 26 | 4.3 | 3.8 | 6.1 | 7.1 | 29 | 13 | 15 | 5.2 | 4.3 | 134 | 23 | 4.0 |
| 27 | 3.7 | 4.7 | 5.2 | 7.6 | 23 | 11 | 13 | 7.7 | 3.6 | 62 | 45 | 4.1 |
| 28 | 3.5 | 4.0 | 5.3 | 7.1 | 20 | 10 | 15 | 5.3 | 3.6 | 295 | 43 | 5.1 |
| 29 | 3.1 | 3.7 | 5.5 | 6.2 | --- | 9.6 | 13 | 4.8 | 3.8 | 73 | 23 | 4.4 |
| 30 | 3.0 | 3.6 | 6.5 | 5.9 | --- | 9.2 | 10 | 4.4 | 6.7 | 30 | 17 | 4.1 |
| 31 | 3.1 | --- | 77 | 6.1 | --- | 14 | --- | 5.4 | --- | 25 | 13 | --- |
| TOTAL | 125.3 | 164.8 | 526.9 | 387.0 | 551.3 | 894.8 | 522 | 259.0 | 259.2 | 1073.5 | 833.0 | 223.4 |
| MEAN | 4.04 | 5.49 | 17.0 | 12.5 | 19.7 | 28.9 | 17.4 | 8.35 | 8.64 | 34.6 | 26.9 | 7.45 |
| MAX | 31 | 43 | 78 | 99 | 240 | 211 | 52 | 26 | 57 | 295 | 241 | 40 |
| MIN | 2.2 | 2.8 | 3.4 | 5.9 | 4.5 | 9.2 | 10 | 4.4 | 3.6 | 3.5 | 9.2 | 4.0 |
| CFSM | .44 | .60 | 1.86 | 1.37 | 2.15 | 3.16 | 1.90 | .91 | .94 | 3.78 | 2.94 | .81 |
| IN. | .51 | .67 | 2.14 | 1.57 | 2.24 | 3.63 | 2.12 | 1.05 | 1.05 | 4.36 | 3.38 | .91 |

CAL YR 1978 TOTAL 4320.1 MEAN 11.8 MAX 198 MIN 1.8 CFSM 1.29 IN 17.54
WTR YR 1979 TOTAL 5820.2 MEAN 15.9 MAX 295 MIN 2.2 CFSM 1.74 IN 23.63

03275000 WHITEWATER RIVER NEAR ALPINE, IN

LOCATION.--Lat 39°34'23", long 85°09'27", in SW¼SE¼ sec.14, T.13 N., R.12 E., Fayette County, Hydrologic Unit 05080003, on right bank 500 ft (152 m) downstream from highway bridge, 0.4 mile (0.6 km) downstream from Wilson Creek, 1.6 miles (2.6 km) northeast of Alpine, 4.6 miles (7.4 km) upstream from Bear Creek, and at mile 54.3 (87.4 km).
DRAINAGE AREA.--529 mi² (1,370 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft (228.658 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 9, 1928, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years, 547 ft³/s (15.49 m³/s), 14.04 in/yr (357 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft³/s (1,050 m³/s) Jan. 14, 1937, gage height, 16.61 ft (5.063 m); minimum daily, 6.0 ft³/s (0.17 m³/s) Sept. 8, 9, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6,500 ft³/s (184 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 1200 | *12100 343 | *13.48 4.109 | July 29 | 2400 | 11600 329 | 13.84 4.218 |
| Mar 4 | 2000 | 11800 334 | 13.40 4.084 | Aug. 2 | 2300 | 10200 289 | 13.18 4.017 |
| July 26 | 1400 | 9060 257 | 12.96 3.950 | Aug. 22 | 1000 | 8390 238 | 12.25 3.734 |

Minimum daily discharge, 151 ft³/s (4.28 m³/s) July 8.

REVISIONS.--The peak discharge of Jan. 30, 1975 (0100 hours) has been revised to 8,220 ft³/s (233 m³/s), gage height, 11.50 ft (3.505 m), superseding figure published in the report for 1975.

The peak discharge of Mar. 18, 1975 was 7,530 ft³/s (213 m³/s), gage height, 11.08 ft (3.377 m) and the peak discharge of Apr. 26, 1975 was 7,010 ft³/s (199 m³/s), gage height, 10.75 ft (3.277 m). These peaks were omitted in the 1975 report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 171 | 209 | 279 | 5410 | 352 | 1560 | 590 | 484 | 293 | 221 | 2420 | 1170 |
| 2 | 168 | 208 | 271 | 4380 | 341 | 3000 | 720 | 461 | 277 | 180 | 7520 | 1010 |
| 3 | 165 | 205 | 872 | 1610 | 360 | 5380 | 754 | 650 | 262 | 165 | 4970 | 899 |
| 4 | 168 | 202 | 4130 | 1090 | 340 | 10400 | 730 | 750 | 250 | 654 | 2090 | 819 |
| 5 | 165 | 199 | 1700 | 808 | 307 | 7400 | 793 | 637 | 241 | 288 | 1590 | 745 |
| 6 | 168 | 200 | 963 | 693 | 310 | 3400 | 716 | 558 | 730 | 195 | 1320 | 690 |
| 7 | 165 | 201 | 751 | 634 | 330 | 2590 | 671 | 512 | 779 | 159 | 1140 | 635 |
| 8 | 159 | 199 | 2080 | 570 | 300 | 2170 | 626 | 477 | 618 | 151 | 979 | 584 |
| 9 | 159 | 195 | 2860 | 526 | 290 | 1890 | 912 | 448 | 754 | 248 | 861 | 547 |
| 10 | 156 | 192 | 1270 | 500 | 280 | 1720 | 903 | 426 | 718 | 403 | 935 | 525 |
| 11 | 171 | 189 | 835 | 460 | 280 | 1520 | 1030 | 407 | 543 | 288 | 2290 | 498 |
| 12 | 183 | 189 | 691 | 440 | 290 | 1330 | 4370 | 405 | 433 | 211 | 1570 | 472 |
| 13 | 579 | 189 | 619 | 440 | 280 | 1180 | 2690 | 443 | 363 | 1240 | 1050 | 465 |
| 14 | 604 | 195 | 554 | 520 | 280 | 1130 | 4100 | 403 | 331 | 2630 | 820 | 1230 |
| 15 | 431 | 208 | 513 | 460 | 280 | 1050 | 2190 | 381 | 301 | 3390 | 695 | 948 |
| 16 | 385 | 208 | 482 | 440 | 270 | 947 | 1500 | 370 | 276 | 1840 | 602 | 651 |
| 17 | 330 | 687 | 449 | 440 | 240 | 891 | 1190 | 348 | 261 | 959 | 539 | 551 |
| 18 | 293 | 1580 | 423 | 450 | 240 | 857 | 998 | 336 | 256 | 638 | 497 | 501 |
| 19 | 274 | 768 | 412 | 430 | 260 | 824 | 877 | 325 | 555 | 477 | 611 | 463 |
| 20 | 261 | 552 | 432 | 429 | 250 | 824 | 786 | 319 | 1020 | 373 | 1430 | 432 |
| 21 | 247 | 457 | 563 | 1120 | 382 | 788 | 719 | 315 | 1040 | 301 | 4990 | 423 |
| 22 | 236 | 402 | 550 | 869 | 1090 | 742 | 665 | 301 | 524 | 402 | 6810 | 424 |
| 23 | 230 | 378 | 474 | 590 | 6810 | 740 | 613 | 282 | 394 | 332 | 6000 | 382 |
| 24 | 222 | 362 | 441 | 558 | 10100 | 779 | 585 | 277 | 341 | 1310 | 4350 | 371 |
| 25 | 218 | 334 | 424 | 483 | 3880 | 738 | 585 | 298 | 308 | 5480 | 2260 | 361 |
| 26 | 225 | 318 | 387 | 441 | 2140 | 665 | 584 | 309 | 285 | 7680 | 1800 | 349 |
| 27 | 230 | 321 | 351 | 435 | 1760 | 613 | 561 | 351 | 262 | 3190 | 3620 | 340 |
| 28 | 227 | 312 | 327 | 427 | 1470 | 577 | 571 | 396 | 241 | 3760 | 3140 | 352 |
| 29 | 219 | 298 | 330 | 399 | --- | 567 | 558 | 353 | 204 | 9830 | 2500 | 342 |
| 30 | 215 | 290 | 336 | 376 | --- | 558 | 515 | 311 | 244 | 5740 | 1780 | 326 |
| 31 | 212 | --- | 1080 | 374 | --- | 577 | --- | 301 | --- | 2360 | 1420 | --- |
| TOTAL | 7636 | 10247 | 25849 | 26802 | 33512 | 57407 | 33102 | 12634 | 13104 | 55095 | 72599 | 17505 |
| MEAN | 246 | 342 | 834 | 865 | 1197 | 1852 | 1103 | 408 | 437 | 1777 | 2342 | 584 |
| MAX | 604 | 1580 | 4130 | 5410 | 10100 | 10400 | 4370 | 750 | 1040 | 9830 | 7520 | 1230 |
| MIN | 156 | 189 | 271 | 374 | 240 | 558 | 515 | 277 | 204 | 151 | 497 | 326 |
| CFSM | .47 | .65 | 1.58 | 1.64 | 2.26 | 3.50 | 2.09 | .77 | .83 | 3.36 | 4.43 | 1.10 |
| IN. | .54 | .72 | 1.82 | 1.88 | 2.36 | 4.04 | 2.33 | .89 | .92 | 3.87 | 5.11 | 1.23 |
| CAL YR 1978 | TOTAL | 242416 | MEAN | 664 | MAX | 10600 | MIN | 156 | CFSM | 1.26 | IN | 17.05 |
| WTR YR 1979 | TOTAL | 365492 | MEAN | 1001 | MAX | 10400 | MIN | 151 | CFSM | 1.89 | IN | 25.70 |

03275000 WHITEWATER RIVER NEAR ALPINE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1976 (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| JUL | | | | | | | | | | |
| 13... | 1430 | -- | 1650 | 451 | 2010 | 97 | 99 | 100 | -- | -- |
| 25... | 1330 | -- | 5460 | 880 | 13000 | 94 | 96 | 97 | 99 | 100 |
| 29... | 1500 | -- | 9950 | 501 | 13500 | 97 | 99 | 99 | 100 | -- |
| 30... | 1430 | -- | 3730 | 329 | 3310 | 76 | 79 | 82 | 89 | 100 |
| AUG | | | | | | | | | | |
| 08... | 1700 | 23.0 | 960 | 112 | 290 | -- | -- | -- | -- | -- |

GREAT MIAMI RIVER BASIN

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

LOCATION.--Lat 39°43'57", long 84°57'35", in NE¼SW¼ sec.2, T.12 N., R.2 W., First principal meridian, Wayne County, Hydrologic Unit 05080003, at downstream side of center pier of bridge on county road at Abington, 3 miles (5 km) downstream from Elkhorn Creek, 8 miles (13 km) southwest of Richmond, and at mile 26.7 (43.0 km).

DRAINAGE AREA.--200 mi² (518 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WSP 2108: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 791.00 ft (241.097 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, Jan. 2 to Feb. 21, which are poor.

AVERAGE DISCHARGE.--14 years, 233 ft³/s (6.599 m³/s), 15.82 in/yr (402 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft³/s (379 m³/s) July 20, 1969, gage height, 16.18 ft (4.932 m); minimum daily, 16 ft³/s (0.45 m³/s) July 24, 27, 28, Aug. 4-6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 4 | 0100 | 3450 97.7 | 8.93 2.722 | July 15 | 0700 | 2720 77.0 | 8.83 2.691 |
| Jan. 1 | 0400 | 3600 102 | 9.08 2.768 | July 24 | 2100 | 4200 119 | 10.75 3.277 |
| Feb. 23 | 2100 | 6220 176 | 12.85 3.917 | July 25 | 2000 | 5120 145 | 11.76 3.584 |
| Mar. 4 | 0400 | 4670 132 | 11.26 3.432 | July 29 | 0500 | *6990 198 | *13.61 4.148 |
| Apr. 14 | 0200 | 2650 75.0 | 8.74 2.664 | Aug. 20 | 1900 | 3270 92.6 | 9.57 2.917 |
| July 10 | 0400 | 2670 75.6 | 8.77 2.673 | Aug. 22 | 1900 | 4680 133 | 11.27 3.435 |

Minimum daily discharge, 41 ft³/s (1.16 m³/s) Oct. 9, 10.

NOTE.--No gage-height record Jan. 2 to Feb. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 55 | 68 | 96 | 3080 | 140 | 672 | 249 | 211 | 128 | 93 | 990 | 375 |
| 2 | 43 | 65 | 95 | 1440 | 130 | 1310 | 350 | 200 | 110 | 76 | 1280 | 352 |
| 3 | 43 | 64 | 789 | 650 | 140 | 2280 | 334 | 460 | 97 | 63 | 665 | 318 |
| 4 | 49 | 63 | 2310 | 400 | 130 | 4070 | 357 | 417 | 88 | 134 | 476 | 288 |
| 5 | 47 | 60 | 670 | 300 | 120 | 1680 | 391 | 343 | 82 | 86 | 385 | 262 |
| 6 | 57 | 62 | 406 | 260 | 120 | 855 | 323 | 296 | 295 | 64 | 352 | 242 |
| 7 | 45 | 69 | 326 | 240 | 130 | 645 | 270 | 264 | 202 | 52 | 309 | 221 |
| 8 | 42 | 61 | 1190 | 220 | 120 | 532 | 255 | 238 | 159 | 52 | 270 | 200 |
| 9 | 41 | 59 | 1200 | 200 | 110 | 457 | 526 | 218 | 211 | 293 | 241 | 188 |
| 10 | 41 | 59 | 492 | 190 | 110 | 423 | 387 | 205 | 156 | 1370 | 265 | 183 |
| 11 | 64 | 58 | 355 | 170 | 110 | 360 | 653 | 194 | 126 | 397 | 1170 | 171 |
| 12 | 62 | 58 | 282 | 160 | 110 | 318 | 1690 | 224 | 98 | 269 | 620 | 161 |
| 13 | 567 | 59 | 251 | 160 | 100 | 300 | 1090 | 220 | 85 | 458 | 388 | 195 |
| 14 | 361 | 75 | 217 | 200 | 100 | 303 | 1850 | 191 | 80 | 585 | 304 | 781 |
| 15 | 228 | 76 | 199 | 170 | 100 | 266 | 795 | 189 | 72 | 1540 | 256 | 460 |
| 16 | 173 | 74 | 183 | 160 | 100 | 244 | 562 | 166 | 63 | 529 | 225 | 309 |
| 17 | 134 | 573 | 165 | 160 | 95 | 233 | 456 | 151 | 57 | 329 | 205 | 249 |
| 18 | 112 | 623 | 156 | 160 | 95 | 230 | 395 | 142 | 58 | 245 | 194 | 221 |
| 19 | 106 | 305 | 153 | 160 | 100 | 225 | 355 | 136 | 232 | 196 | 346 | 198 |
| 20 | 96 | 212 | 185 | 170 | 100 | 264 | 327 | 133 | 239 | 163 | 1630 | 181 |
| 21 | 86 | 172 | 291 | 400 | 182 | 235 | 307 | 131 | 328 | 139 | 2000 | 186 |
| 22 | 77 | 147 | 227 | 300 | 642 | 217 | 310 | 120 | 197 | 131 | 2760 | 201 |
| 23 | 74 | 148 | 187 | 230 | 3890 | 269 | 281 | 116 | 136 | 232 | 2200 | 179 |
| 24 | 69 | 138 | 178 | 210 | 3220 | 353 | 269 | 138 | 113 | 1850 | 1240 | 161 |
| 25 | 66 | 119 | 168 | 180 | 1020 | 294 | 272 | 193 | 92 | 3990 | 700 | 151 |
| 26 | 93 | 112 | 146 | 170 | 615 | 246 | 265 | 184 | 81 | 1780 | 608 | 142 |
| 27 | 93 | 120 | 128 | 170 | 565 | 217 | 251 | 263 | 72 | 826 | 936 | 139 |
| 28 | 84 | 115 | 128 | 160 | 492 | 207 | 292 | 226 | 66 | 2090 | 1230 | 205 |
| 29 | 75 | 106 | 132 | 150 | --- | 212 | 248 | 171 | 80 | 4280 | 726 | 187 |
| 30 | 71 | 103 | 132 | 140 | --- | 209 | 232 | 136 | 167 | 1000 | 549 | 158 |
| 31 | 69 | --- | 861 | 140 | --- | 233 | --- | 150 | --- | 653 | 439 | --- |
| TOTAL | 3223 | 4023 | 12298 | 10900 | 12886 | 18359 | 14342 | 6426 | 3970 | 23965 | 23959 | 7264 |
| MEAN | 104 | 134 | 397 | 352 | 460 | 592 | 478 | 207 | 132 | 773 | 773 | 242 |
| MAX | 567 | 623 | 2310 | 3080 | 3890 | 4070 | 1850 | 460 | 328 | 4280 | 2760 | 781 |
| MIN | 41 | 58 | 95 | 140 | 95 | 207 | 232 | 116 | 57 | 52 | 194 | 139 |
| CFSM | .52 | .67 | 1.99 | 1.76 | 2.30 | 2.96 | 2.39 | 1.04 | .66 | 3.87 | 3.87 | 1.21 |
| IN. | .60 | .75 | 2.29 | 2.03 | 2.40 | 3.41 | 2.67 | 1.20 | .74 | 4.46 | 4.46 | 1.35 |

CAL YR 1978 TOTAL 92366 MEAN 253 MAX 6770 MIN 36 CFSM 1.27 IN 17.18
WTR YR 1979 TOTAL 141615 MEAN 388 MAX 4280 MIN 41 CFSM 1.94 IN 26.34

GREAT MIAMI RIVER BASIN

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1969 to September 1976.

WATER TEMPERATURE: August 1970 to September 1971, March 1973 to September 1976.

SEDIMENT DISCHARGE: April 1967 to September 1977.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum 27.5°C July 9, 1973; minimum, freezing point on many days during most winter periods.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|
| FEB 24... | 1640 | 2.0 | 1770 | 242 | 1160 | -- | -- | -- | -- |
| MAR 04... | 1315 | 6.0 | 3830 | 284 | 2940 | -- | -- | -- | -- |
| JUL 25... | 1605 | -- | 4540 | 817 | 10000 | 87 | 90 | 92 | 95 |
| AUG 21... | 1900 | -- | 1440 | 197 | 766 | 85 | 91 | 94 | 100 |

GREAT MIAMI RIVER BASIN

03275990 BROOKVILLE LAKE AT BROOKVILLE, IN

LOCATION.--Lat 39°26'27", long 85°00'10', in NE¼SE¼ sec.17, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, in discharge tower of reservoir on East Fork Whitewater River, 1.4 miles (2.3 km) northeast of Brookville, and 2.2 miles (3.5 km) above mouth.

DRAINAGE AREA.--379 mi² (982 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earth and rock-fill dam. Releases normally controlled by two gates, 5.25 ft (1.60 m) wide and 12 ft (3.66 m) high, in circular conduit through dam. Minimum design capacity is 55,600 acre-ft (68.6 hm³), elevation, 713 ft (217.3 m). Seasonal pool capacity is 184,000 acre-ft (227 hm³), elevation, 748 ft (228.0 m). Capacity at uncontrolled spillway is 359,600 acre-ft (443 hm³), elevation, 775 ft (236.2 m). Reservoir is used for flood control and recreation. Reservoir was put in operation on January 22, 1974.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 218,110 acre-ft (269 hm³) Aug. 3, 1979, elevation, 754.15 ft (229.865 m); minimum, 127,370 acre-ft (157 hm³) Feb. 3, 1976, elevation, 735.93 ft (224.311 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 218,110 acre-ft (269 hm³) Aug. 3, elevation, 754.15 ft (229.865 m); minimum, 144,630 acre-ft (178 hm³) Feb. 6, elevation, 739.93 ft (225.531 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 747.28 | 180,250 | |
| Oct. 31..... | 744.48 | 166,090 | -14,160 |
| Nov. 30..... | 740.25 | 146,080 | -20,010 |
| Dec. 31..... | 740.69 | 148,090 | +2,010 |
| CAL YR 1978..... | | | +1,510 |
| Jan. 31..... | 740.00 | 144,940 | -3,150 |
| Feb. 28..... | 748.32 | 185,710 | +40,770 |
| Mar. 31..... | 745.07 | 169,000 | -16,710 |
| Apr. 30..... | 747.69 | 182,400 | +13,400 |
| May 31..... | 748.33 | 185,760 | +3,360 |
| June 30..... | 748.32 | 185,710 | -50 |
| July 31..... | 753.97 | 217,060 | +31,350 |
| Aug. 31..... | 748.32 | 185,710 | -31,350 |
| Sept. 30..... | 748.37 | 185,970 | +260 |
| WTR YR 1979..... | | | +5,720 |

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

LOCATION.--Lat 39°26'02", long 85°00'12", in NE¼NE¼ sec.20, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, 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 mi² (984 km²).

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

REVISED RECORDS.--WSP 1555: 1954(M), 1955(P). WSP 1908: 1955, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 621.76 ft (189.512 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--25 years, 384 ft³/s (10.87 m³/s), 13.72 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,100 ft³/s (1,020 m³/s) Jan. 21, 1959; maximum gage height, 17.35 ft (5.288 m) May 24, 1968; minimum daily discharge, 4.7 ft³/s (0.13 m³/s) Nov. 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft³/s (110 m³/s) Aug. 9, gage height, 7.64 ft (2.329 m); minimum daily, 60 ft³/s (1.70 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|-------|
| 1 | 195 | 177 | 382 | 126 | 189 | 142 | 383 | 69 | 221 | 61 | 1820 | 546 |
| 2 | 195 | 324 | 225 | 104 | 189 | 136 | 662 | 67 | 221 | 61 | 1390 | 533 |
| 3 | 195 | 399 | 241 | 880 | 188 | 136 | 760 | 78 | 209 | 62 | 1360 | 446 |
| 4 | 195 | 399 | 157 | 1780 | 185 | 136 | 766 | 210 | 149 | 76 | 1980 | 382 |
| 5 | 195 | 399 | 324 | 1760 | 184 | 132 | 766 | 405 | 104 | 102 | 1980 | 360 |
| 6 | 195 | 393 | 1230 | 1750 | 184 | 1420 | 704 | 388 | 104 | 136 | 2260 | 307 |
| 7 | 195 | 388 | 922 | 1740 | 185 | 2940 | 565 | 382 | 140 | 149 | 2720 | 285 |
| 8 | 192 | 388 | 382 | 1720 | 183 | 3540 | 471 | 455 | 300 | 149 | 3200 | 263 |
| 9 | 192 | 382 | 358 | 1670 | 183 | 3540 | 491 | 375 | 355 | 177 | 3700 | 180 |
| 10 | 195 | 382 | 423 | 957 | 183 | 3520 | 635 | 254 | 374 | 321 | 1990 | 149 |
| 11 | 195 | 377 | 356 | 387 | 184 | 3510 | 730 | 230 | 310 | 662 | 174 | 152 |
| 12 | 195 | 361 | 355 | 225 | 183 | 3490 | 560 | 267 | 164 | 772 | 206 | 152 |
| 13 | 195 | 355 | 698 | 221 | 183 | 3080 | 513 | 275 | 123 | 838 | 580 | 152 |
| 14 | 195 | 345 | 1100 | 222 | 184 | 1990 | 513 | 270 | 124 | 1170 | 950 | 307 |
| 15 | 195 | 366 | 1100 | 221 | 183 | 1030 | 513 | 270 | 110 | 1380 | 1070 | 399 |
| 16 | 209 | 377 | 1100 | 242 | 183 | 565 | 730 | 213 | 96 | 1360 | 662 | 399 |
| 17 | 302 | 377 | 1100 | 310 | 183 | 358 | 1230 | 171 | 97 | 565 | 253 | 399 |
| 18 | 355 | 371 | 1570 | 555 | 183 | 358 | 1230 | 160 | 97 | 234 | 186 | 546 |
| 19 | 793 | 366 | 2060 | 640 | 183 | 359 | 1230 | 152 | 127 | 153 | 209 | 590 |
| 20 | 1150 | 513 | 1590 | 630 | 183 | 359 | 992 | 160 | 219 | 81 | 280 | 634 |
| 21 | 1140 | 676 | 999 | 549 | 161 | 357 | 735 | 166 | 398 | 74 | 324 | 633 |
| 22 | 1130 | 676 | 502 | 686 | 382 | 358 | 735 | 166 | 698 | 74 | 318 | 641 |
| 23 | 676 | 676 | 340 | 656 | 364 | 348 | 590 | 163 | 796 | 74 | 361 | 631 |
| 24 | 245 | 668 | 340 | 510 | 139 | 353 | 412 | 141 | 796 | 148 | 1650 | 516 |
| 25 | 240 | 668 | 339 | 498 | 146 | 360 | 340 | 174 | 560 | 880 | 2780 | 308 |
| 26 | 292 | 668 | 310 | 423 | 137 | 360 | 248 | 183 | 163 | 1340 | 2770 | 218 |
| 27 | 332 | 661 | 227 | 366 | 137 | 361 | 142 | 213 | 71 | 874 | 2770 | 149 |
| 28 | 330 | 661 | 144 | 297 | 136 | 351 | 107 | 229 | 60 | 874 | 2930 | 151 |
| 29 | 335 | 661 | 95 | 220 | --- | 278 | 107 | 229 | 61 | 880 | 3140 | 150 |
| 30 | 334 | 653 | 97 | 204 | --- | 229 | 82 | 219 | 61 | 887 | 1740 | 151 |
| 31 | 330 | --- | 127 | 189 | --- | 268 | --- | 224 | --- | 1120 | 650 | --- |
| TOTAL | 11112 | 14107 | 19193 | 20738 | 5287 | 34364 | 17942 | 6958 | 7308 | 15734 | 46403 | 10729 |
| MEAN | 358 | 470 | 619 | 669 | 189 | 1109 | 598 | 224 | 244 | 508 | 1497 | 358 |
| MAX | 1150 | 676 | 2060 | 1780 | 382 | 3540 | 1230 | 455 | 796 | 1380 | 3700 | 641 |
| MIN | 192 | 177 | 95 | 104 | 136 | 132 | 82 | 67 | 60 | 61 | 174 | 149 |

CAL YR 1978 TOTAL 175823.4 MEAN 482 MAX 4360 MIN 7.7
WTR YR 1979 TOTAL 209875.0 MEAN 575 MAX 3700 MIN 60

GREAT MIAMI RIVER BASIN

03276500 WHITEWATER RIVER AT BROOKVILLE, IN
(National stream-quality accounting network station)

LOCATION.--Lat 39°24'24", long 85°00'46", in NE¼NW¼ sec.32, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, on right bank at downstream side of highway bridge, 0.3 mile (0.5 km) downstream from East Fork Whitewater River, 1.1 miles (1.8 km) south of Brookville, and at mile 29.3 (47.1 km).

DRAINAGE AREA.--1,224 mi² (3,170 km²).

WATER-DISCHARGE RECORDS

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.

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

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--58 years (1915-17, 1923 to current year), 1,270 ft³/s (35.97 m³/s), 14.09 in/yr (358 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,800 ft³/s (2,320 m³/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 ft³/s (1,270 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 ft³/s (1.70 m³/s) July 27, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 39.0 ft (11.9 m), at present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,000 ft³/s (680 m³/s) Feb. 23; gage height, 14.57 ft (4.441 m); minimum daily, 391 ft³/s (11.1 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR October 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|
| 1 | 422 | 489 | 886 | 9990 | 912 | 2940 | 1320 | 839 | 741 | 531 | 5510 | 1870 |
| 2 | 425 | 658 | 699 | 7020 | 829 | 4410 | 3010 | 794 | 680 | 444 | 9120 | 1690 |
| 3 | 415 | 772 | 1200 | 3450 | 865 | 6910 | 2260 | 1200 | 630 | 405 | 8590 | 1490 |
| 4 | 412 | 767 | 5800 | 3640 | 847 | 12900 | 2810 | 1820 | 529 | 1730 | 4690 | 1320 |
| 5 | 411 | 767 | 3200 | 3330 | 767 | 11200 | 2560 | 1870 | 426 | 1040 | 3850 | 1210 |
| 6 | 408 | 759 | 2930 | 3120 | 714 | 6140 | 2040 | 1570 | 552 | 749 | 3720 | 1070 |
| 7 | 405 | 760 | 2280 | 3020 | 758 | 6400 | 1750 | 1390 | 1160 | 655 | 3930 | 992 |
| 8 | 397 | 755 | 4960 | 2910 | 723 | 6680 | 1570 | 1340 | 1140 | 606 | 4330 | 910 |
| 9 | 395 | 748 | 5140 | 2740 | 706 | 6220 | 2210 | 1200 | 1190 | 727 | 4850 | 768 |
| 10 | 391 | 740 | 2630 | 2120 | 697 | 5890 | 2200 | 1000 | 1400 | 967 | 2910 | 692 |
| 11 | 396 | 730 | 1860 | 1130 | 706 | 5570 | 2760 | 893 | 1130 | 1340 | 2150 | 662 |
| 12 | 437 | 717 | 1570 | 942 | 697 | 5280 | 6760 | 931 | 839 | 1400 | 2380 | 637 |
| 13 | 1160 | 703 | 1750 | 929 | 697 | 4630 | 5130 | 1020 | 673 | 2040 | 2020 | 630 |
| 14 | 1240 | 695 | 2230 | 1100 | 706 | 3480 | 6680 | 950 | 616 | 4440 | 2210 | 1930 |
| 15 | 922 | 733 | 2160 | 1030 | 706 | 2450 | 4010 | 893 | 565 | 4240 | 2220 | 1610 |
| 16 | 811 | 769 | 2100 | 1000 | 758 | 1800 | 3090 | 802 | 504 | 4360 | 1550 | 1240 |
| 17 | 827 | 1800 | 2040 | 1050 | 732 | 1520 | 3160 | 706 | 470 | 2060 | 1030 | 1080 |
| 18 | 814 | 2510 | 2380 | 1500 | 697 | 1470 | 2910 | 663 | 457 | 1400 | 882 | 1140 |
| 19 | 1330 | 1720 | 2810 | 1510 | 723 | 1440 | 2750 | 622 | 710 | 1050 | 1010 | 1130 |
| 20 | 1740 | 1500 | 2550 | 1290 | 606 | 1430 | 2420 | 622 | 1010 | 791 | 1910 | 1110 |
| 21 | 1710 | 1490 | 2550 | 2380 | 942 | 1410 | 2020 | 622 | 3320 | 688 | 3740 | 1100 |
| 22 | 1680 | 1390 | 1520 | 2550 | 3340 | 1360 | 2040 | 606 | 1810 | 685 | 8420 | 1440 |
| 23 | 1140 | 1340 | 1160 | 1870 | 15500 | 1360 | 1750 | 583 | 1710 | 773 | 9470 | 1280 |
| 24 | 536 | 1310 | 1070 | 1660 | 15100 | 1460 | 1470 | 545 | 1540 | 936 | 7100 | 1020 |
| 25 | 515 | 1270 | 1040 | 1470 | 9140 | 1420 | 1370 | 614 | 1150 | 6380 | 5680 | 777 |
| 26 | 570 | 1240 | 946 | 1220 | 4430 | 1340 | 1290 | 671 | 689 | 9580 | 4780 | 644 |
| 27 | 622 | 1320 | 780 | 1150 | 2740 | 1280 | 1090 | 714 | 492 | 5830 | 6060 | 544 |
| 28 | 625 | 1320 | 631 | 1090 | 2400 | 1220 | 1050 | 802 | 436 | 5890 | 6300 | 590 |
| 29 | 620 | 1240 | 582 | 1010 | --- | 1140 | 1020 | 793 | 425 | 12700 | 5760 | 616 |
| 30 | 611 | 1210 | 583 | 960 | --- | 1090 | 922 | 706 | 619 | 9890 | 3920 | 558 |
| 31 | 611 | --- | 2650 | 960 | --- | 1200 | --- | 706 | --- | 4360 | 2310 | --- |
| TOTAL | 22998 | 32222 | 64687 | 69141 | 68438 | 113040 | 75422 | 28487 | 27613 | 88687 | 132402 | 31750 |
| MEAN | 742 | 1074 | 2087 | 2230 | 2444 | 3646 | 2514 | 919 | 920 | 2861 | 4271 | 1058 |
| MAX | 1740 | 2510 | 5800 | 9990 | 15500 | 12900 | 6760 | 1870 | 3320 | 12700 | 9470 | 1930 |
| MIN | 391 | 489 | 582 | 929 | 606 | 1090 | 922 | 545 | 425 | 405 | 882 | 544 |
| CFSM | .61 | .88 | 1.71 | 1.82 | 2.00 | 2.98 | 2.05 | .75 | .75 | 2.34 | 3.49 | .86 |
| IN. | .70 | .98 | 1.97 | 2.10 | 2.08 | 3.44 | 2.29 | .87 | .84 | 2.70 | 4.02 | .96 |
| CAL YR 1978 | TOTAL | 540251 | MEAN | 1480 | MAX | 18400 | MIN | 276 | CFSM | 1.21 | IN | 16.42 |
| WTR YR 1979 | TOTAL | 754887 | MEAN | 2068 | MAX | 15500 | MIN | 391 | CFSM | 1.69 | IN | 22.94 |

03276500 WHITEWATER RIVER AT BROOKVILLE, IN--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1974 to current year.

WATER TEMPERATURE: October 1974 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 625 micromhos Dec. 30, 31, 1978, Feb. 7, 1979; minimum, 95 micromhos Nov. 25, 1978.

WATER TEMPERATURE: Maximum, 28.0°C July 31, Aug. 21, 1975; minimum, freezing point on may days during 1976-77 winter periods, Feb. 8, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 625 micromhos Dec. 30, 31, Feb. 7; minimum, 190 micromhos Feb. 24.

WATER TEMPERATURE: Maximum, 22.5°C May 10, June 16; minimum, 0°C Feb. 8

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TEMPER- ATURE (DEG C) | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TUR- BID- ITY (NTU) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | OXYGEN, DIS- SOLVED (MG/L) | PH (UNITS) | CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) | ALKA- LITY (MG/L AS CACO3) | NITRO- GEN, TOTAL (MG/L AS N) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) |
|-----------|-----------------------------|------|---|------------------------------|--|-------------------------------------|---------------|---|--|---|--|--|
| OCT 06... | 16.0 | 1430 | 392 | 1.0 | 550 | 9.4 | 7.4 | -- | 220 | 2.2 | .30 | .15 |
| NOV 03... | 13.5 | 1000 | 776 | 2.0 | -- | 12.6 | 8.5 | -- | 190 | 1.7 | .33 | .03 |
| DEC 18... | 4.0 | 1200 | 2070 | -- | 485 | -- | -- | -- | -- | -- | -- | -- |
| JAN 11... | 1.5 | 1430 | 1020 | 5.0 | 610 | 6.6 | 8.1 | -- | 240 | 3.0 | .24 | .06 |
| FEB 06... | 1.0 | 1215 | 655 | 3.0 | 390 | -- | 8.1 | -- | 260 | 3.3 | .32 | .04 |
| MAR 09... | 5.5 | 0930 | 6260 | 100 | 463 | 12.1 | 7.2 | -- | 200 | 3.3 | .39 | .05 |
| APR 05... | 6.5 | 1000 | 2680 | 20 | 490 | 13.7 | 8.6 | -- | 180 | 2.8 | .29 | .06 |
| MAY 01... | 12.5 | 1030 | 838 | 3.0 | 600 | 13.0 | 7.6 | -- | 240 | 2.8 | .25 | .04 |
| JUN 07... | 19.0 | 1230 | 1160 | 150 | 430 | 7.2 | 8.2 | -- | 160 | 7.3 | 2.0 | .35 |
| JUL 10... | 21.0 | 1030 | 960 | 30 | 500 | 9.2 | 8.1 | -- | 200 | 2.5 | .75 | .04 |
| 31... | 20.0 | 1150 | 4020 | 45 | 510 | 8.9 | 8.0 | 4.1 | 210 | 3.5 | .74 | .04 |
| SEP 04... | 21.5 | 1200 | 1350 | 15 | 600 | 8.8 | 7.8 | 7.7 | 250 | 2.9 | 1.7 | .10 |

| DATE | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHATE, TOTAL (MG/L AS PO4) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) | CARBON, ORGANIC TOTAL (MG/L AS C) | HARD- NESS (MG/L AS CACO3) | HARD- NESS, NONCAR- BONATE (MG/L CACO3) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) |
|-----------|---|--|---|--|---|--|---|--|--|--|--|--|
| OCT 06... | .45 | 1.7 | -- | -- | .03 | .01 | -- | 280 | 56 | 66 | 27 | 9.8 |
| NOV 03... | .36 | 1.3 | -- | -- | .01 | .00 | 4.2 | 250 | 58 | 58 | 25 | 10 |
| DEC 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 11... | .30 | 2.7 | -- | -- | .06 | .04 | -- | 300 | 55 | 72 | 28 | 9.7 |
| FEB 06... | .36 | 2.9 | -- | -- | .05 | .04 | 2.2 | 310 | 48 | 79 | 27 | 9.6 |
| MAR 09... | .44 | 2.9 | -- | -- | .08 | .04 | -- | 250 | 45 | 62 | 22 | 9.4 |
| APR 05... | .35 | 2.4 | -- | -- | .09 | .04 | -- | 220 | 41 | 57 | 19 | 6.9 |
| MAY 01... | .29 | 2.5 | -- | .12 | .04 | -- | 5.6 | 300 | 58 | 75 | 27 | 7.8 |
| JUN 07... | 2.3 | 5.0 | -- | 1.4 | .47 | .01 | -- | 210 | 53 | 54 | 19 | 6.4 |
| JUL 10... | .79 | 1.7 | -- | -- | .13 | .02 | -- | 250 | 52 | 63 | 23 | 8.7 |
| 31... | .78 | 2.7 | -- | -- | .17 | .07 | 9.9 | 260 | 48 | 67 | 22 | 6.0 |
| SEP 04... | 1.8 | 1.1 | .32 | -- | .11 | .08 | -- | 300 | 47 | 76 | 26 | 7.7 |

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

03276500 WHITEWATER RIVER AT BROOKVILLE, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) | IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE) | IRON, TOTAL RECOV- ERABLE (UG/L AS FE) | IRON, DIS- SOLVED (UG/L AS FE) | LEAD, DIS- SOLVED (UG/L AS PB) | LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB) | LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) | MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN) | MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) | SILVER, DIS- SOLVED (UG/L AS AG) | SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG) |
|-------|---|---|---|--|--|---|---|---|---|--|--|---|
| OCT | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 03... | 4 | 170 | 190 | 20 | 11 | 0 | 9 | 60 | 70 | 10 | 0 | 0 |
| DEC | | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 06... | 10 | 4000 | 4000 | 10 | 4 | 20 | 24 | 20 | 30 | 10 | 0 | 0 |
| MAR | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 01... | 4 | 0 | 0 | 0 | 27 | 0 | 15 | 10 | 20 | 6 | 0 | 0 |
| JUN | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | 9 | 3700 | 3700 | 0 | 0 | 4 | 4 | 170 | 190 | 20 | 0 | 0 |
| SEP | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) | ZINC, DIS- SOLVED (UG/L AS ZN) | ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN) | ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) | SELE- NIUM, DIS- SOLVED (UG/L AS SE) | SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE) | SELE- NIUM, TOTAL (UG/L AS SE) | COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) | COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) | STREP- TOCOC- CI KF AGAR (COLS. PER 100 ML) | PHYTO- PLANK- TON, TOTAL (CELLS PER ML) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) |
|-------|---|--|---|---|---|---|--|--|---|---|--|--|
| OCT | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | 39500 | 2450 | 337 | 95000 | 318 |
| NOV | | | | | | | | | | | | |
| 03... | 0 | 0 | 40 | 40 | 0 | 0 | 0 | K700 | K52 | 257 | 12000 | 281 |
| DEC | | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | K60000 | 1200 | 374 | -- | -- |
| JAN | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | 11900 | 1600 | 236 | -- | 366 |
| FEB | | | | | | | | | | | | |
| 06... | 0 | 0 | 70 | 70 | 0 | 0 | 0 | K42500 | 2600 | 358 | -- | 388 |
| MAR | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | 10200 | K71 | 279 | 1300 | 324 |
| APR | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | 14500 | 1150 | 4200 | -- | 285 |
| MAY | | | | | | | | | | | | |
| 01... | 0 | 0 | -- | -- | 0 | 0 | 0 | 2900 | 640 | K74 | 1000 | 347 |
| JUN | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | K44500 | K5200 | 3200 | 2900 | 280 |
| JUL | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | 15000 | K4950 | 3150 | 2700 | 313 |
| 31... | 0 | 7 | 20 | 30 | 0 | 0 | 0 | 10400 | 1150 | 4400 | 930 | 349 |
| SEP | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | 14700 | 442 | K93 | 2200 | 345 |

GREAT MIAMI RIVER BASIN

03276500 WHITEWATER RIVER AT BROOKVILLE, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER DAY) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM |
|-----------|---|---|---|---|---|---|---|--|--|--|--|
| OCT 06... | 303 | 337 | .43 | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV 03... | 275 | 589 | .38 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 11... | 324 | 1010 | .50 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB 06... | 345 | 686 | .53 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR 09... | 283 | 5480 | .44 | 85 | -- | -- | -- | -- | -- | -- | -- |
| APR 05... | 252 | 2060 | .39 | 95 | -- | -- | -- | -- | -- | -- | -- |
| MAY 01... | 320 | 785 | .47 | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 07... | 231 | 877 | .38 | 99 | 99 | 100 | -- | 58 | 80 | 88 | 94 |
| JUL 10... | 280 | 811 | .43 | 96 | -- | -- | -- | -- | -- | -- | -- |
| 31... | 281 | 3790 | .47 | 87 | 90 | 91 | 100 | -- | -- | -- | -- |
| SEP 04... | 312 | 1260 | .47 | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) | PHOS- PHORUS TOTAL (MG/L AS PO4) | NITRO- GEN, TOTAL (MG/L AS NO3) | MERCURY DIS- SOLVED (UG/L AS HG) | MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) | MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) | POTAS- SIUM 40 TOTAL (PCI/L) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|-----------|--|--|--|---|--|---|---|--|---------------------------------------|---|--|
| OCT 06... | -- | -- | -- | 9.5 | -- | -- | -- | -- | -- | 16 | 17 |
| NOV 03... | -- | -- | -- | 7.3 | < .5 | .0 | < .5 | -- | -- | 16 | 34 |
| DEC 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 | 67 |
| JAN 11... | -- | -- | -- | 13 | -- | -- | -- | -- | -- | 23 | 63 |
| FEB 06... | -- | -- | -- | 14 | < .5 | .0 | < .5 | -- | -- | 10 | 18 |
| MAR 09... | -- | -- | -- | 15 | -- | -- | -- | -- | -- | 68 | 1150 |
| APR 05... | -- | -- | -- | 12 | -- | -- | -- | -- | -- | 56 | 405 |
| MAY 01... | -- | .05 | .12 | 12 | < .5 | .0 | .5 | < 5.0 | -- | 19 | 43 |
| JUN 07... | 98 | .42 | 1.4 | 32 | -- | -- | -- | -- | -- | 433 | 1360 |
| JUL 10... | -- | .05 | .40 | 11 | -- | -- | -- | -- | 1.8 | 97 | 251 |
| 31... | -- | .05 | .52 | 15 | < .5 | .0 | < .5 | -- | 2.1 | 93 | 1010 |
| SEP 04... | -- | .12 | .34 | 13 | -- | -- | -- | -- | 1.9 | -- | -- |

03276500 WHITEWATER RIVER AT BROOKVILLE, IN--Continued
(National stream-quality accounting network station)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 510 | 500 | 550 | 550 | 550 | 520 | 515 | 600 | 535 | 530 | 495 | 580 |
| 2 | 520 | 500 | 555 | 455 | 510 | 420 | 430 | 590 | 510 | 475 | 375 | 555 |
| 3 | 510 | 500 | 425 | 455 | 565 | 365 | 465 | 550 | 490 | 550 | 350 | 580 |
| 4 | 515 | 500 | 265 | 495 | 595 | 255 | 475 | 450 | 505 | 530 | 445 | 600 |
| 5 | 505 | 495 | 335 | 525 | 565 | 265 | 410 | 520 | 520 | 465 | 510 | 590 |
| 6 | 525 | 500 | 495 | 465 | 550 | 480 | 475 | 570 | 570 | 515 | 495 | 590 |
| 7 | 525 | 485 | 465 | 490 | 625 | 510 | 425 | 500 | 420 | 485 | 485 | 565 |
| 8 | 525 | 440 | 475 | 490 | 565 | 500 | 485 | 515 | 495 | 505 | 570 | 485 |
| 9 | 525 | 500 | 405 | 440 | 580 | 345 | 465 | 500 | 545 | 540 | 510 | 600 |
| 10 | 520 | 500 | 475 | 420 | 565 | 455 | 465 | 570 | 490 | 475 | 485 | 575 |
| 11 | 510 | 500 | 540 | 430 | 420 | 490 | 460 | 495 | 510 | 470 | 530 | 570 |
| 12 | 525 | 490 | 525 | 580 | 595 | 425 | 295 | 505 | 570 | 460 | 380 | 620 |
| 13 | 505 | 495 | 535 | 580 | 525 | 460 | 385 | 515 | 570 | 500 | 470 | 560 |
| 14 | 450 | 490 | 570 | 565 | 510 | 485 | 400 | 485 | 605 | 320 | 475 | 530 |
| 15 | 465 | 500 | 510 | 580 | 610 | 500 | 425 | 500 | 540 | 445 | 495 | 505 |
| 16 | 505 | 485 | 530 | 580 | 565 | 495 | 510 | 505 | 620 | 425 | 475 | 500 |
| 17 | 510 | 500 | 525 | 590 | 480 | 520 | 510 | 520 | 590 | 515 | 580 | 515 |
| 18 | 510 | 455 | 520 | 495 | 550 | 485 | 440 | 520 | 590 | 520 | 600 | 540 |
| 19 | 515 | 385 | 580 | 525 | 550 | 470 | 520 | 515 | 490 | 550 | 545 | 485 |
| 20 | 470 | 500 | 465 | 565 | 510 | 510 | 430 | 500 | 460 | 605 | 475 | 475 |
| 21 | 470 | 350 | 440 | 405 | 610 | 540 | 475 | 430 | 290 | 550 | 370 | 465 |
| 22 | 470 | 305 | 510 | 395 | 335 | 520 | 495 | 540 | 475 | 550 | 235 | 515 |
| 23 | 465 | 365 | 505 | 440 | 255 | 385 | 495 | 460 | 460 | 415 | 420 | 485 |
| 24 | 520 | 475 | 580 | 510 | 190 | 510 | 540 | 460 | 465 | 560 | 375 | 475 |
| 25 | 525 | 475 | 545 | 525 | 315 | 495 | 540 | 500 | 455 | 260 | 450 | 535 |
| 26 | 525 | 500 | 570 | 565 | 390 | 495 | 560 | 530 | 535 | 315 | 475 | 570 |
| 27 | 515 | 450 | 535 | 555 | 475 | 475 | 590 | 520 | 580 | 410 | 495 | 495 |
| 28 | 505 | 480 | 570 | 580 | 520 | 495 | 550 | 520 | 620 | 480 | 440 | 495 |
| 29 | 505 | 480 | 610 | 555 | --- | 535 | 550 | 515 | 515 | 300 | 450 | 560 |
| 30 | 500 | 375 | 625 | 540 | --- | 410 | 560 | 510 | 475 | 370 | 485 | 515 |
| 31 | 500 | --- | 625 | 555 | --- | 450 | --- | 510 | --- | 470 | 515 | --- |
| MEAN | 505 | 466 | 512 | 513 | 503 | 460 | 478 | 514 | 517 | 470 | 466 | 538 |
| MAX | 525 | 500 | 625 | 590 | 625 | 540 | 590 | 600 | 620 | 605 | 600 | 620 |
| MIN | 450 | 305 | 265 | 395 | 190 | 255 | 295 | 430 | 290 | 260 | 235 | 465 |
| WTR YR 1979 | MEAN | 495 | MAX | 625 | MIN | 190 | | | | | | |

GREAT MIAMI RIVER BASIN

03276500 WHITEWATER RIVER AT BROOKVILLE, IN--Continued
(National stream-quality accounting network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-----|------|-----|------|------|------|------|------|------|------|
| 1 | 18.0 | | --- | 4.5 | 2.0 | 4.0 | 9.0 | 12.0 | 19.0 | 19.0 | 19.0 | 21.0 |
| 2 | 16.0 | | --- | 3.0 | 1.5 | 4.0 | 10.0 | 13.0 | 18.0 | 20.0 | 19.5 | 21.0 |
| 3 | 16.5 | | --- | 1.0 | 2.5 | 3.5 | 8.5 | 15.0 | 18.5 | 20.0 | 21.0 | 20.5 |
| 4 | 16.0 | | --- | 2.5 | 2.0 | 6.0 | 7.5 | 14.0 | 19.0 | 21.0 | 18.0 | 21.0 |
| 5 | 16.5 | | --- | 2.5 | 1.0 | 5.0 | 7.5 | 13.5 | 19.5 | 20.0 | 18.0 | 21.5 |
| 6 | 15.5 | | --- | 3.0 | 1.5 | 4.5 | 6.5 | 15.0 | 21.5 | 20.0 | 17.5 | 21.5 |
| 7 | 14.0 | | --- | 2.5 | 1.5 | 3.5 | 6.5 | 19.0 | 21.0 | 20.5 | 17.5 | 21.5 |
| 8 | 14.5 | | --- | 2.5 | .0 | 4.5 | 7.0 | 18.0 | 19.5 | 20.5 | 17.5 | 18.5 |
| 9 | 14.0 | | --- | 2.0 | 1.0 | 4.0 | 7.5 | 18.5 | 21.0 | 20.0 | 17.0 | 17.5 |
| 10 | 14.5 | | --- | 2.0 | 1.5 | 4.0 | 7.0 | 22.5 | 22.0 | 21.0 | 18.0 | 17.5 |
| 11 | 15.5 | | --- | 1.5 | 1.5 | 2.5 | 7.5 | 19.0 | 20.0 | 22.0 | 22.0 | 18.5 |
| 12 | 15.5 | | --- | 1.5 | 2.0 | 3.0 | 10.5 | 18.5 | 20.0 | 18.5 | 20.0 | 20.0 |
| 13 | 15.5 | | --- | 3.0 | .5 | 4.0 | 12.5 | 16.0 | 19.5 | 18.5 | 20.0 | 20.5 |
| 14 | 13.5 | | --- | 3.0 | 1.5 | 4.0 | 10.0 | 15.5 | 19.5 | 19.5 | 19.5 | 19.0 |
| 15 | 14.5 | | --- | .5 | 3.0 | 3.5 | 10.0 | 17.0 | 21.5 | 18.0 | 18.5 | 18.5 |
| 16 | 12.5 | | --- | 1.5 | 2.0 | 4.0 | 9.5 | 16.5 | 22.5 | 20.0 | 18.5 | 18.0 |
| 17 | 14.5 | | --- | 3.0 | .5 | 5.0 | 9.0 | 16.0 | 21.0 | 19.5 | 19.0 | 18.5 |
| 18 | 14.0 | | --- | 2.5 | .5 | 7.5 | 10.0 | 16.5 | 21.5 | 21.0 | 19.5 | 19.0 |
| 19 | 14.5 | | 6.0 | 2.0 | 1.5 | 9.0 | 10.5 | 17.5 | 20.5 | 21.5 | 20.5 | 19.0 |
| 20 | 13.5 | | 7.0 | 3.0 | 1.5 | 9.5 | 10.5 | 18.5 | 20.5 | 20.0 | 21.5 | 19.0 |
| 21 | 13.0 | | 6.5 | 2.0 | 3.0 | 9.5 | 12.0 | 17.5 | 20.5 | 21.0 | 21.0 | 19.0 |
| 22 | 13.5 | | 5.0 | 1.5 | 2.0 | 10.5 | 10.0 | 17.0 | 19.0 | 21.5 | 22.0 | 18.0 |
| 23 | 14.0 | | 4.5 | 1.5 | 2.0 | 10.5 | 11.5 | 17.0 | 18.0 | 21.0 | 21.0 | 17.5 |
| 24 | 13.0 | | 4.0 | 3.0 | 2.0 | 9.0 | 12.5 | 16.5 | 17.5 | 21.0 | 21.0 | 18.0 |
| 25 | 12.5 | | 4.0 | 1.5 | 2.0 | 7.0 | 13.0 | 14.0 | 20.0 | 21.0 | 18.5 | 18.0 |
| 26 | 14.5 | | 4.0 | 1.5 | 1.0 | 5.5 | 15.0 | 14.0 | 20.0 | 19.5 | 19.0 | 18.0 |
| 27 | 13.0 | | 3.0 | 2.5 | 1.5 | 6.0 | 13.0 | 15.0 | 20.0 | 21.5 | 19.5 | 17.5 |
| 28 | 13.0 | | 2.0 | 2.5 | 2.5 | 6.5 | 13.0 | 17.0 | 21.5 | 20.0 | 20.0 | 18.5 |
| 29 | 13.0 | | 2.5 | 2.5 | --- | 8.5 | 12.0 | 17.0 | 21.5 | 20.0 | 20.5 | 17.5 |
| 30 | 13.0 | | 5.0 | 1.5 | --- | 9.5 | 12.0 | 17.0 | 20.0 | 22.0 | 21.5 | 18.0 |
| 31 | 13.0 | | 6.0 | 2.5 | --- | 10.5 | --- | 18.5 | --- | 20.5 | 20.5 | --- |
| MEAN | 14.5 | | 4.5 | 2.0 | 1.5 | 6.0 | 10.0 | 16.5 | 20.0 | 20.5 | 19.5 | 19.0 |
| MAX | 18.0 | | 7.0 | 4.5 | 3.0 | 10.5 | 15.0 | 22.5 | 22.5 | 22.0 | 22.0 | 21.5 |
| MIN | 12.5 | | 2.0 | .5 | .0 | 2.5 | 6.5 | 12.0 | 17.5 | 18.0 | 17.0 | 17.5 |
| WTR YR 1979 | MEAN | 12.5 | MAX | 22.5 | MIN | .0 | | | | | | |

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IN
(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, Hydrologic Unit 05090203, 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 mi² (98.7 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 571.00 ft (174.041 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--18 years, 41.5 ft³/s (1.175 m³/s), 14.79 in/yr (376 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Apr. 29, 1970, gage height, 12.7 ft (3.87 m), from floodmarks; no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 14.00 ft (4.267 m), discharge, 16,300 ft³/s (462 m³/s), on basis of contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 23 | 1000 | 3000 85 | 7.2 2.19 | Aug. 1 | 1500 | *6780 192 | *9.92 3.024 |
| Feb. 25 | 1500 | 3340 94.6 | 7.53 2.295 | | | | |

Minimum daily discharge, 1.2 ft³/s (0.034 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|--------|------|------|------|------|------|--------|-------|--------|--------|--------|
| 1 | 18 | 5.2 | 20 | 1380 | 20 | 203 | 100 | 8.6 | 26 | 14 | 1130 | 9.9 |
| 2 | 4.4 | 5.0 | 22 | 233 | 17 | 102 | 629 | 8.3 | 11 | 6.7 | 279 | 8.6 |
| 3 | 3.4 | 5.0 | 424 | 62 | 18 | 111 | 92 | 196 | 7.8 | 4.9 | 61 | 7.2 |
| 4 | 3.0 | 5.0 | 381 | 39 | 16 | 200 | 440 | 428 | 6.1 | 334 | 32 | 5.7 |
| 5 | 2.7 | 4.8 | 81 | 30 | 14 | 100 | 105 | 164 | 4.8 | 65 | 21 | 5.2 |
| 6 | 2.1 | 4.8 | 50 | 26 | 12 | 60 | 47 | 52 | 4.2 | 25 | 14 | 5.0 |
| 7 | 1.6 | 5.5 | 41 | 23 | 13 | 48 | 31 | 32 | 12 | 16 | 10 | 3.8 |
| 8 | 1.3 | 5.0 | 767 | 20 | 11 | 43 | 24 | 20 | 53 | 8.2 | 8.0 | 2.9 |
| 9 | 1.2 | 4.8 | 305 | 18 | 10 | 38 | 47 | 17 | 13 | 9.7 | 6.9 | 2.5 |
| 10 | 1.3 | 4.6 | 77 | 16 | 10 | 34 | 28 | 14 | 6.9 | 8.0 | 6.4 | 2.2 |
| 11 | 2.7 | 4.6 | 57 | 15 | 11 | 30 | 92 | 14 | 4.2 | 4.2 | 28 | 1.9 |
| 12 | 3.8 | 4.8 | 52 | 15 | 11 | 27 | 374 | 10 | 3.5 | 122 | 21 | 1.8 |
| 13 | 617 | 5.2 | 43 | 40 | 11 | 20 | 252 | 13 | 8.2 | 278 | 9.2 | 5.9 |
| 14 | 80 | 5.0 | 35 | 35 | 11 | 14 | 239 | 10 | 8.6 | 93 | 8.0 | 523 |
| 15 | 42 | 9.9 | 32 | 22 | 41 | 13 | 62 | 9.6 | 5.7 | 29 | 5.7 | 50 |
| 16 | 25 | 34 | 28 | 20 | 171 | 13 | 28 | 8.3 | 4.2 | 15 | 5.0 | 20 |
| 17 | 17 | 289 | 28 | 70 | 58 | 12 | 25 | 8.3 | 3.2 | 9.2 | 3.8 | 12 |
| 18 | 14 | 116 | 29 | 50 | 35 | 12 | 23 | 8.6 | 3.0 | 6.7 | 3.4 | 10 |
| 19 | 11 | 41 | 25 | 35 | 46 | 12 | 18 | 8.3 | 64 | 5.2 | 5.2 | 8.9 |
| 20 | 9.9 | 30 | 96 | 42 | 62 | 10 | 17 | 8.3 | 21 | 4.2 | 92 | 7.4 |
| 21 | 7.7 | 24 | 105 | 237 | 229 | 10 | 17 | 6.1 | 11 | 3.7 | 17 | 67 |
| 22 | 7.2 | 19 | 46 | 77 | 755 | 10 | 38 | 4.4 | 8.7 | 3.2 | 11 | 797 |
| 23 | 6.6 | 21 | 35 | 45 | 1780 | 10 | 18 | 4.8 | 5.0 | 3.1 | 12 | 89 |
| 24 | 6.4 | 20 | 32 | 162 | 439 | 26 | 16 | 4.9 | 3.5 | 4.8 | 13 | 40 |
| 25 | 5.9 | 19 | 32 | 73 | 1250 | 14 | 16 | 5.2 | 2.3 | 74 | 11 | 25 |
| 26 | 12 | 40 | 24 | 60 | 176 | 14 | 14 | 6.0 | 2.4 | 60 | 16 | 16 |
| 27 | 14 | 188 | 21 | 45 | 24 | 14 | 14 | 47 | 3.0 | 55 | 81 | 12 |
| 28 | 9.6 | 56 | 19 | 38 | 65 | 14 | 17 | 18 | 2.5 | 119 | 39 | 76 |
| 29 | 7.4 | 32 | 18 | 30 | --- | 13 | 14 | 8.8 | 3.1 | 89 | 21 | 35 |
| 30 | 6.1 | 27 | 32 | 25 | --- | 12 | 10 | 6.3 | 73 | 25 | 14 | 19 |
| 31 | 5.9 | --- | 472 | 22 | --- | 12 | --- | 28 | --- | 14 | 11 | --- |
| TOTAL | 950.2 | 1035.2 | 3429 | 3005 | 5316 | 1251 | 2847 | 1177.8 | 384.9 | 1508.8 | 1995.6 | 1869.9 |
| MEAN | 30.7 | 34.5 | 111 | 96.9 | 190 | 40.4 | 94.9 | 38.0 | 12.8 | 48.7 | 64.4 | 62.3 |
| MAX | 617 | 289 | 767 | 1380 | 1780 | 203 | 629 | 428 | 73 | 334 | 1130 | 797 |
| MIN | 1.2 | 4.6 | 18 | 15 | 10 | 10 | 10 | 4.4 | 2.3 | 3.1 | 3.4 | 1.8 |
| CFSM | .81 | .91 | 2.91 | 2.54 | 4.99 | 1.06 | 2.49 | 1.00 | .34 | 1.28 | 1.69 | 1.64 |
| IN. | .93 | 1.01 | 3.35 | 2.93 | 5.19 | 1.22 | 2.78 | 1.15 | .38 | 1.47 | 1.95 | 1.83 |

| CAL YR 1978 | TOTAL | 20495.06 | MEAN 56.2 | MAX 1810 | MIN .46 | CFSM 1.48 | IN 20.01 |
|-------------|-------|----------|-----------|----------|---------|-----------|----------|
| WTR YR 1979 | TOTAL | 24770.40 | MEAN 67.9 | MAX 1780 | MIN 1.2 | CFSM 1.78 | IN 24.18 |

HOGAN CREEK BASIN

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IN--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD---

CHEMICAL ANALYSES: October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TEMPER- ATURE (DEG C) | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TUR- BID- ITY (NTU) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | OXYGEN, DIS- SOLVED (MG/L) | PH (UNITS) | CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) | ALKA- LITY (MG/L AS CACO3) | NITRO- GEN, TOTAL (MG/L AS N) |
|--------------|-----------------------------|------|---|------------------------------|--|-------------------------------------|---------------|---|--|---|
| NOV 02... | 12.0 | 1600 | 4.9 | -- | 630 | 11.8 | 8.5 | -- | 210 | -- |
| DEC 15... | .5 | 1200 | 31 | -- | 485 | -- | 7.4 | -- | -- | -- |
| JAN 12... | .5 | 1400 | 15 | -- | 605 | 4.6 | 8.0 | -- | 230 | -- |
| FEB 05... | .5 | 1300 | 14 | -- | 405 | 9.9 | 7.7 | -- | 210 | -- |
| MAR 12... | 4.0 | 1230 | 27 | -- | 520 | 12.8 | 6.4 | -- | 190 | -- |
| APR 05... | 11.0 | 1500 | 135 | -- | 410 | 12.4 | 7.1 | -- | 130 | -- |
| 30... | 13.0 | 1600 | 18 | 3.0 | 435 | 14.2 | 7.7 | -- | 150 | .33 |
| JUN 07... | 22.5 | 0830 | 3.7 | -- | 440 | 5.7 | 8.2 | -- | 150 | -- |
| JUL 10... | 24.0 | 1500 | 6.2 | -- | 470 | 8.7 | 8.3 | -- | 170 | -- |
| 31... | 28.0 | 1530 | 15 | -- | 465 | 9.0 | 8.4 | 1.4 | 180 | -- |
| SEP 05... | 24.5 | 1050 | 5.1 | -- | 540 | 9.8 | 8.1 | 2.9 | 190 | -- |

| DATE | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) | PHOS- PHATE, TOTAL (MG/L AS PO4) | PHOS- PHORUS, TOTAL (MG/L AS P) | HARD- NESS (MG/L AS CACO3) | HARD- NESS, NONCAR- BONATE (MG/L CACO3) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) |
|--------------|--|--|--|--|--|---|--|--|--|--|
| NOV 02... | -- | -- | -- | .00 | -- | .04 | 270 | 58 | 81 | 16 |
| DEC 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 12... | -- | -- | -- | 1.3 | -- | .05 | 290 | 65 | 85 | 20 |
| FEB 05... | -- | -- | -- | 1.4 | -- | .06 | 300 | 87 | 91 | 17 |
| MAR 12... | -- | -- | -- | 1.4 | -- | .05 | 250 | 57 | 76 | 14 |
| APR 05... | -- | -- | -- | 1.1 | -- | .10 | 180 | 46 | 55 | 9.3 |
| 30... | .27 | .01 | .28 | .05 | .06 | .02 | 210 | 62 | 60 | 15 |
| JUN 07... | -- | -- | -- | .30 | .15 | .05 | 210 | 62 | 62 | 14 |
| JUL 10... | -- | -- | -- | .30 | -- | .07 | 220 | 54 | 70 | 12 |
| 31... | -- | -- | -- | .58 | -- | .08 | 220 | 39 | 68 | 12 |
| SEP 05... | -- | -- | -- | .25 | -- | .06 | 240 | 50 | 73 | 14 |

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IN--Continued
(Hydrologic bench-mark station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SODIUM, DIS- SOLVED (MG/L AS NA) | SODIUM AD- SORP- TION RATIO | SODIUM PERCENT | SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | SULFATE DIS- SOLVED (MG/L AS SO4) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) |
|-----------|--|---|-------------------|--|---|---|---|--|---|--|
| NOV 02... | 14 | .4 | 10 | -- | 3.6 | 18 | 69 | .2 | 1.3 | 1550 |
| DEC 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1300 |
| JAN 12... | 12 | .3 | 8 | -- | 2.3 | 13 | 67 | .2 | 7.8 | 3280 |
| FEB 05... | 13 | .3 | 9 | -- | 1.8 | 15 | 71 | .2 | 6.1 | K370 |
| MAR 12... | 11 | .3 | 9 | -- | 1.9 | 14 | 59 | .1 | 6.1 | 200 |
| APR 05... | 10 | .3 | 11 | -- | 1.2 | 13 | 45 | .1 | 7.0 | 15800 |
| 30... | 11 | .3 | 10 | -- | 1.9 | 12 | 67 | .2 | .4 | 1600 |
| JUN 07... | 11 | .3 | 10 | -- | 3.4 | 16 | 57 | .2 | 1.8 | 6800 |
| JUL 10... | 13 | .4 | 11 | -- | 3.1 | 16 | 51 | .2 | 5.8 | 10600 |
| 31... | 12 | .4 | 10 | 15 | 3.4 | 17 | 48 | .2 | 8.0 | 2800 |
| SEP 05... | 13 | .4 | 10 | 17 | 3.5 | 13 | 43 | .2 | 4.3 | 32000 |

| DATE | COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) | STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER DAY) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM |
|-----------|---|---|--|---|---|---|---|---|--|--|
| NOV 02... | 0 | K16 | 344 | 329 | 4.55 | .47 | -- | -- | -- | -- |
| DEC 15... | K38 | K90 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 12... | 371 | 1430 | 375 | 346 | 15.2 | .51 | -- | -- | -- | -- |
| FEB 05... | K32 | 0 | 374 | 341 | 14.1 | .51 | -- | -- | -- | -- |
| MAR 12... | 0 | 0 | 328 | 296 | 23.9 | .45 | -- | -- | -- | -- |
| APR 05... | 707 | 1180 | 237 | 219 | 86.4 | .32 | 98 | -- | -- | -- |
| 30... | 0 | 0 | 267 | 258 | 13.0 | .36 | -- | -- | -- | -- |
| JUN 07... | 150 | 221 | 292 | 256 | 2.92 | .40 | 97 | 100 | 90 | 93 |
| JUL 10... | 179 | 279 | 289 | 273 | 4.84 | .39 | 96 | -- | -- | -- |
| 31... | 257 | 193 | 470 | 277 | 19.0 | .64 | -- | -- | -- | -- |
| SEP 05... | K114 | K107 | 305 | 278 | 4.20 | .41 | -- | -- | -- | -- |

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) | PHOS- PHORUS TOTAL (MG/L AS PO4) | NITRO- GEN, TOTAL (MG/L AS NO3) | POTAS- SIUM 40 TOTAL (PCI/L) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|-----------|--|--|--|--|--|---|---------------------------------------|---|--|
| NOV 02... | -- | -- | -- | -- | -- | -- | -- | 10 | .13 |
| DEC 15... | -- | -- | -- | -- | -- | -- | -- | 11 | .92 |
| JAN 12... | -- | -- | -- | -- | -- | -- | -- | 25 | 1.0 |
| FEB 05... | -- | -- | -- | -- | -- | -- | -- | 10 | .38 |
| MAR 12... | -- | -- | -- | -- | -- | -- | -- | 12 | .88 |
| APR 05... | -- | -- | -- | -- | -- | -- | -- | 48 | 17 |
| 30... | -- | -- | -- | .01 | .06 | 1.5 | 1.4 | 5 | .24 |
| JUN 07... | 94 | 94 | 95 | -- | .15 | -- | -- | 181 | 1.8 |
| JUL 10... | -- | -- | -- | -- | .21 | -- | 2.3 | 82 | 1.4 |
| 31... | -- | -- | -- | -- | .25 | -- | 2.5 | -- | -- |
| SEP 05... | -- | -- | -- | -- | .18 | -- | 2.6 | -- | -- |

INDIAN-KENTUCK CREEK BASIN

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN

LOCATION.--Lat 38°52'41", long 85°15'26", in SW¼NW¼ sec.13, T.5 N., R.11 E., Jefferson County, Hydrologic Unit 05140101, on downstream end of left pier of bridge on State Highway 62, 1,500 ft (457 m) upstream from Wilson Fork, 2.0 miles (3.2 km) northeast of Canaan, and at mile 16.7 (26.9 km).

DRAINAGE AREA.--27.5 mi² (71.2 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years, 32.3 ft³/s (0.915 m³/s), 15.95 in/yr (405 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,600 ft³/s (159 m³/s) Aug. 1, 1979, gage height, 11.27 ft (3.435 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s); no flow for many days in 1970, 1972, and 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|------|-------------------------|-------|----------|------|---|------|-------------------------|-------|
| Oct. 12 | 1915 | 2830 | 80.1 | 8.86 | 2.701 | Feb. 23 | 1000 | 2010 | 56.9 | 7.88 | 2.402 |
| Nov. 17 | 1615 | 1290 | 36.5 | 6.83 | 1.945 | Feb. 25 | 1515 | 2080 | 58.9 | 7.97 | 2.429 |
| Dec. 3 | unknown | 1300 | 36.8 | unknown | | Apr. 2 | 0500 | 1370 | 38.8 | 6.95 | 2.118 |
| Dec. 8 | unknown | 3500 | 99.1 | unknown | | Apr. 4 | 1015 | 1980 | 56.1 | 7.85 | 2.393 |
| Jan. 1 | 1045 | 1650 | 46.7 | 7.38 | 2.249 | Aug. 1 | 1815 | *5600 | 159 | *11.27 | 3.435 |
| Feb. 22 | 1915 | 1880 | 53.2 | 7.71 | 2.350 | Sept. 22 | 0500 | 1900 | 53.8 | 6.90 | 2.103 |

Minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------|----------|------|------|--------|-------|--------|-------|--------|--------|---------|---------|
| 1 | 3.6 | 6.6 | 27 | 893 | 14 | 82 | 143 | 6.5 | 56 | 1.4 | 877 | 2.1 |
| 2 | 1.3 | 5.7 | 23 | 188 | 13 | 61 | 478 | 5.8 | 29 | .70 | 387 | 1.8 |
| 3 | 1.1 | 4.8 | 500 | 70 | 14 | 76 | 103 | 26 | 22 | .44 | 124 | 1.8 |
| 4 | 1.2 | 4.2 | 400 | 35 | 13 | 134 | 519 | 106 | 17 | 32 | 50 | 1.3 |
| 5 | .95 | 3.9 | 80 | 25 | 11 | 61 | 135 | 67 | 13 | 6.1 | 22 | .96 |
| 6 | .75 | 3.4 | 57 | 22 | 10 | 45 | 70 | 38 | 8.3 | 2.0 | 12 | .75 |
| 7 | .68 | 3.6 | 130 | 20 | 11 | 38 | 49 | 29 | 22 | 1.1 | 7.8 | .64 |
| 8 | .62 | 3.6 | 1400 | 17 | 10 | 32 | 43 | 25 | 37 | .84 | 3.4 | .52 |
| 9 | .55 | 2.9 | 350 | 16 | 9.4 | 27 | 51 | 21 | 20 | .92 | 2.1 | .43 |
| 10 | .52 | 2.7 | 100 | 15 | 9.0 | 25 | 37 | 19 | 15 | 1.0 | 1.4 | .32 |
| 11 | 3.0 | 2.5 | 50 | 14 | 9.5 | 21 | 48 | 17 | 9.2 | .84 | 64 | .22 |
| 12 | 480 | 2.7 | 40 | 14 | 10 | 19 | 316 | 17 | 5.8 | 32 | 26 | .17 |
| 13 | 337 | 2.9 | 33 | 15 | 10 | 19 | 245 | 16 | 5.0 | 37 | 8.7 | 3.8 |
| 14 | 61 | 2.9 | 28 | 25 | 10 | 19 | 182 | 13 | 5.9 | 23 | 3.4 | 410 |
| 15 | 40 | 25 | 25 | 20 | 20 | 15 | 81 | 13 | 3.5 | 7.8 | 2.3 | 60 |
| 16 | 26 | 60 | 22 | 17 | 120 | 13 | 54 | 8.8 | 2.6 | 3.4 | 1.5 | 23 |
| 17 | 18 | 400 | 19 | 60 | 30 | 13 | 40 | 6.6 | 2.2 | 2.0 | 1.1 | 8.8 |
| 18 | 15 | 150 | 17 | 40 | 23 | 12 | 32 | 5.6 | 1.8 | 1.3 | .84 | 5.5 |
| 19 | 12 | 60 | 17 | 30 | 20 | 11 | 27 | 5.2 | 1.5 | .92 | 35 | 10 |
| 20 | 7.8 | 38 | 69 | 50 | 18 | 10 | 24 | 4.6 | 1.7 | .77 | 79 | 9.5 |
| 21 | 5.6 | 29 | 81 | 186 | 170 | 8.8 | 26 | 3.8 | 2.3 | .64 | 28 | 189 |
| 22 | 4.5 | 24 | 39 | 54 | 445 | 8.0 | 38 | 3.1 | 1.2 | .54 | 16 | 755 |
| 23 | 3.6 | 27 | 30 | 35 | 802 | 20 | 22 | 3.3 | .85 | .44 | 13 | 84 |
| 24 | 3.1 | 32 | 29 | 145 | 222 | 35 | 20 | 3.5 | .89 | .44 | 9.7 | 40 |
| 25 | 3.1 | 21 | 26 | 57 | 731 | 22 | 18 | 4.5 | .94 | 1.7 | 4.5 | 24 |
| 26 | 28 | 25 | 21 | 40 | 176 | 18 | 17 | 4.9 | .70 | 35 | 3.6 | 15 |
| 27 | 26 | 180 | 18 | 30 | 92 | 16 | 15 | 22 | .54 | 61 | 4.5 | 10 |
| 28 | 17 | 72 | 20 | 25 | 80 | 15 | 16 | 12 | .43 | 51 | 14 | 38 |
| 29 | 12 | 43 | 18 | 21 | --- | 15 | 12 | 5.2 | .50 | 39 | 7.8 | 24 |
| 30 | 9.0 | 33 | 18 | 18 | --- | 15 | 8.8 | 3.4 | 1.5 | 19 | 4.5 | 16 |
| 31 | 7.2 | --- | 324 | 16 | --- | 23 | --- | 109 | --- | 9.0 | 2.9 | --- |
| TOTAL | 1130.17 | 1271.4 | 4011 | 2213 | 3102.9 | 928.8 | 2869.8 | 624.8 | 288.35 | 373.29 | 1817.04 | 1736.61 |
| MEAN | 36.5 | 42.4 | 129 | 71.4 | 111 | 30.0 | 95.7 | 20.2 | 9.61 | 12.0 | 58.6 | 57.9 |
| MAX | 480 | 400 | 1400 | 893 | 802 | 134 | 519 | 109 | 56 | 61 | 877 | 755 |
| MIN | .52 | 2.5 | 17 | 14 | 9.0 | 8.0 | 8.8 | 3.1 | .43 | .44 | .84 | .17 |
| CFSM | 1.33 | 1.54 | 4.69 | 2.60 | 4.04 | 1.09 | 3.48 | .74 | .35 | .44 | 2.13 | 2.11 |
| IN. | 1.53 | 1.72 | 5.43 | 2.99 | 4.20 | 1.26 | 3.88 | .85 | .39 | .50 | 2.46 | 2.35 |
| CAL YR 1978 | TOTAL | 15064.48 | MEAN | 41.3 | MAX | 1400 | MIN | .21 | CFSM | 1.50 | IN | 20.38 |
| WTR YR 1979 | TOTAL | 20367.16 | MEAN | 55.8 | MAX | 1400 | MIN | .17 | CFSM | 2.03 | IN | 27.55 |

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|--------------|------|-----------------------------|---|---|--|
| OCT 31... | 1730 | 13.0 | 6.5 | 18 | .32 |
| DEC 06... | 1215 | 6.0 | 57 | 10 | 1.5 |
| MAY 21... | 1630 | 22.0 | 3.8 | 14 | .14 |
| JUN 26... | 0840 | 18.0 | .75 | 12 | .02 |
| AUG 06... | 1900 | -- | 9.6 | 16 | .42 |
| SEP 17... | 1800 | -- | 7.4 | 37 | .74 |

SILVER CREEK BASIN

03294000 SILVER CREEK NEAR SELLERSBURG, IN

LOCATION.--Lat 38°22'15", long 85°43'35", in SW¼SW¼ lot 68, Clark Military Grant, Clark County, Hydrologic Unit 05150101, on upstream side of Straws Mill bridge on Watson Road, 0.3 mile (0.5 km) downstream from Pleasant Run, 2.4 miles (3.9 km) southeast of Sellersburg, and 12.2 miles (19.6 km) upstream from mouth.

DRAINAGE AREA.--189 m² (490 km²).

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

REVISED RECORDS.--WSP 1705: 1955-58. WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 429.78 ft (130.997 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 6, 1976, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good except those for periods Dec. 9-19, Feb. 21 to Mar. 6, Apr. 20 to May 30, and Aug. 12-24 which are fair. Some regulation by Deam Lake.

AVERAGE DISCHARGE.--25 years, 224 ft³/s (6.344 m³/s), 16.09 in/yr (409 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) Jan. 22, 1959, gage height, 30.89 ft (9.415 m), from floodmarks, from rating curve extended above 6,300 ft³/s (178 m³/s) on basis of contracted-opening measurements of peak flow, at site 5.2 miles (8.4 km) upstream, drainage area, 165 mi² (427 km²), adjusted to gage site; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|----------|------|---|-------------------------|
| Dec. 4 | 0800 | 3870 110 | 18.35 5.593 | Apr. 5 | 0300 | 3600 102 | 17.73 5.404 |
| Dec. 9 | 0815 | *6140 174 | *22.44 6.840 | Apr. 12 | 1900 | 3400 96.3 | 17.23 5.252 |
| Jan. 2 | 0300 | 4070 115 | 18.75 5.715 | Apr. 14 | 0800 | 3200 90.6 | 16.67 5.081 |
| Feb. 23 | ---- | 5000 142 | ----- | June 9 | 1300 | 3400 96.3 | 17.23 5.252 |
| Feb. 25 | ---- | 4300 122 | ----- | July 27 | 1200 | 3160 89.5 | 16.56 5.047 |
| Apr. 2 | 2100 | 4810 136 | 20.03 6.105 | Sept. 22 | 0900 | 4410 125 | 19.36 5.901 |

Minimum daily discharge, 7.3 ft³/s (0.207 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1978
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|------|-------|------|------|--------|------|-------|
| 1 | 37 | 80 | 233 | 3090 | 110 | 648 | 2220 | 75 | 338 | 22 | 290 | 78 |
| 2 | 21 | 54 | 191 | 3160 | 98 | 572 | 4440 | 73 | 111 | 20 | 296 | 77 |
| 3 | 17 | 31 | 1420 | 705 | 110 | 528 | 2810 | 79 | 67 | 15 | 158 | 57 |
| 4 | 17 | 28 | 3550 | 433 | 98 | 1100 | 2070 | 451 | 52 | 12 | 106 | 48 |
| 5 | 15 | 27 | 1080 | 325 | 70 | 686 | 2390 | 688 | 40 | 11 | 80 | 39 |
| 6 | 13 | 25 | 521 | 262 | 67 | 458 | 705 | 344 | 32 | 9.5 | 66 | 32 |
| 7 | 13 | 24 | 553 | 231 | 74 | 347 | 477 | 214 | 148 | 8.6 | 57 | 28 |
| 8 | 12 | 27 | 4390 | 193 | 61 | 279 | 499 | 166 | 1550 | 7.8 | 49 | 24 |
| 9 | 11 | 25 | 5780 | 142 | 63 | 221 | 1090 | 132 | 2510 | 7.3 | 41 | 21 |
| 10 | 10 | 24 | 2490 | 143 | 55 | 203 | 664 | 108 | 920 | 8.6 | 36 | 19 |
| 11 | 15 | 22 | 614 | 111 | 57 | 172 | 465 | 92 | 390 | 13 | 126 | 19 |
| 12 | 36 | 21 | 490 | 107 | 58 | 151 | 2490 | 85 | 236 | 29 | 164 | 18 |
| 13 | 114 | 21 | 740 | 110 | 57 | 145 | 1790 | 92 | 173 | 252 | 73 | 30 |
| 14 | 66 | 21 | 642 | 176 | 58 | 145 | 2530 | 71 | 146 | 129 | 51 | 1590 |
| 15 | 43 | 169 | 385 | 152 | 126 | 123 | 781 | 264 | 113 | 59 | 38 | 442 |
| 16 | 31 | 497 | 201 | 138 | 456 | 106 | 484 | 204 | 89 | 41 | 36 | 178 |
| 17 | 25 | 1510 | 188 | 235 | 208 | 100 | 355 | 95 | 75 | 27 | 32 | 116 |
| 18 | 22 | 1370 | 154 | 486 | 155 | 99 | 271 | 74 | 63 | 19 | 28 | 87 |
| 19 | 20 | 449 | 146 | 285 | 126 | 96 | 220 | 66 | 53 | 15 | 24 | 70 |
| 20 | 18 | 279 | 186 | 524 | 131 | 94 | 194 | 63 | 45 | 14 | 126 | 63 |
| 21 | 17 | 204 | 682 | 1500 | 658 | 94 | 172 | 52 | 62 | 13 | 327 | 1210 |
| 22 | 16 | 161 | 325 | 808 | 920 | 86 | 154 | 44 | 48 | 10 | 96 | 3970 |
| 23 | 15 | 167 | 229 | 463 | 4240 | 178 | 148 | 42 | 35 | 23 | 58 | 1730 |
| 24 | 13 | 216 | 199 | 852 | 4260 | 684 | 137 | 44 | 36 | 27 | 56 | 452 |
| 25 | 12 | 152 | 176 | 538 | 2830 | 372 | 123 | 43 | 39 | 39 | 45 | 279 |
| 26 | 100 | 481 | 145 | 353 | 4110 | 248 | 123 | 48 | 30 | 783 | 40 | 201 |
| 27 | 216 | 2250 | 118 | 290 | 1430 | 196 | 117 | 41 | 24 | 2660 | 127 | 155 |
| 28 | 92 | 794 | 103 | 233 | 674 | 170 | 108 | 48 | 21 | 1490 | 225 | 277 |
| 29 | 61 | 449 | 100 | 186 | --- | 155 | 100 | 40 | 20 | 688 | 405 | 220 |
| 30 | 52 | 321 | 103 | 154 | --- | 152 | 87 | 32 | 20 | 353 | 143 | 160 |
| 31 | 67 | --- | 583 | 155 | --- | 1030 | --- | 176 | --- | 229 | 89 | --- |
| TOTAL | 1217 | 9899 | 26717 | 16540 | 21360 | 9638 | 28214 | 4046 | 7486 | 7034.8 | 3488 | 11690 |
| MEAN | 39.3 | 330 | 862 | 534 | 763 | 311 | 940 | 131 | 250 | 227 | 113 | 390 |
| MAX | 216 | 2250 | 5780 | 3160 | 4260 | 1100 | 4440 | 688 | 2510 | 2660 | 405 | 3970 |
| MIN | 10 | 21 | 100 | 107 | 55 | 86 | 87 | 32 | 20 | 7.3 | 24 | 18 |
| CFSM | .21 | 1.75 | 4.56 | 2.83 | 4.04 | 1.65 | 4.97 | .69 | 1.32 | 1.20 | .60 | 2.06 |
| IN. | .24 | 1.95 | 5.26 | 3.26 | 4.20 | 1.90 | 5.55 | .80 | 1.47 | 1.38 | .69 | 2.30 |

CAL YR 1978 TOTAL 122826.0 MEAN 337 MAX 5780 MIN 10 CFSM 1.78 IN 24.18
WTR YR 1979 TOTAL 147329.8 MEAN 404 MAX 5780 MIN 7.3 CFSM 2.14 IN 29.00

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN

LOCATION.--Lat 38°07'13", long 86°05'16", in SE¼NE¼ sec.32, T.4 S., R.4 E., Harrison County, Hydrologic Unit 05140104, at downstream end of pier of bridge on State Highway 337, 0.6 mile (1.0 km) downstream from South Fork Buck Creek, 3.6 miles (5.8 km) southwest of New Middletown, and 14.4 miles (23.2 km) upstream from mouth.

DRAINAGE AREA.--65.2 mi² (168.9 km²), of which 28.1 mi² (72.8 km²) does not contribute directly to surface runoff.

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

REVISED RECORDS.--WRD Ind. 1972: 1971(P).

GAGE.--Water-stage recorder. Datum of gage is 501.63 ft (152.897 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 87.5 ft³/s (2.478 m³/s), 18.22 in/yr (463 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s (360 m³/s) Apr. 2, 1970, gage height, 14.40 ft (4.389 m); minimum daily, 0.90 ft³/s (0.03 m³/s) Sept. 13, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|----------|------|---|------|-------------------------|-------|
| Dec. 3 | 1600 | 2000 | 56.6 | 7.45 | 2.271 | Apr. 9 | 0500 | 1490 | 42.2 | 6.11 | 1.862 |
| Dec. 8 | 1500 | 3390 | 96.0 | 8.61 | 2.624 | Apr. 12 | 0600 | 3520 | 99.7 | 8.60 | 2.621 |
| Jan. 1 | 1000 | 2440 | 69.1 | 7.52 | 2.292 | June 8 | 0100 | 1030 | 29.2 | 5.29 | 1.612 |
| Feb. 23 | 1200 | 3530 | 100 | 8.68 | 2.646 | July 26 | 1100 | *7920 | 224 | *11.95 | 3.642 |
| Feb. 25 | 1500 | 2480 | 70.2 | 7.55 | 2.301 | Aug. 28 | 1600 | 1160 | 32.9 | 5.53 | 1.686 |
| Apr. 1 | 1700 | 4800 | 136 | 9.74 | 2.969 | Sept. 14 | 0400 | 3060 | 86.7 | 8.13 | 2.478 |
| Apr. 4 | 1100 | 1610 | 45.6 | 6.29 | 1.917 | Sept. 22 | 0400 | 5370 | 152 | 10.19 | 3.106 |

Minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PRE SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|-------|-------|--------|--------|--------|--------|
| 1 | 7.6 | 4.1 | 57 | 1300 | 60 | 164 | 1530 | 30 | 11 | 14 | 214 | 26 |
| 2 | 4.7 | 3.9 | 47 | 446 | 50 | 136 | 1900 | 28 | 9.2 | 9.6 | 207 | 21 |
| 3 | 3.8 | 3.7 | 756 | 231 | 44 | 140 | 496 | 34 | 9.2 | 7.9 | 171 | 18 |
| 4 | 4.0 | 3.6 | 760 | 158 | 40 | 202 | 748 | 56 | 8.8 | 7.4 | 150 | 15 |
| 5 | 3.3 | 3.4 | 250 | 123 | 37 | 157 | 397 | 104 | 8.3 | 6.1 | 133 | 13 |
| 6 | 3.1 | 3.4 | 175 | 103 | 37 | 126 | 273 | 74 | 7.9 | 5.3 | 114 | 12 |
| 7 | 2.8 | 3.7 | 194 | 90 | 40 | 102 | 222 | 58 | 55 | 4.7 | 77 | 11 |
| 8 | 2.7 | 3.6 | 2050 | 76 | 36 | 90 | 398 | 47 | 342 | 4.9 | 76 | 9.5 |
| 9 | 2.5 | 3.5 | 798 | 64 | 33 | 78 | 769 | 40 | 301 | 5.3 | 75 | 9.3 |
| 10 | 2.5 | 3.3 | 261 | 52 | 30 | 70 | 317 | 35 | 157 | 5.6 | 64 | 9.0 |
| 11 | 4.0 | 3.1 | 164 | 45 | 33 | 63 | 228 | 31 | 84 | 5.3 | 39 | 9.0 |
| 12 | 7.0 | 3.1 | 123 | 40 | 30 | 57 | 1340 | 34 | 58 | 16 | 29 | 8.9 |
| 13 | 9.0 | 3.0 | 100 | 40 | 30 | 54 | 755 | 29 | 45 | 55 | 23 | 53 |
| 14 | 8.0 | 2.8 | 81 | 60 | 30 | 60 | 534 | 25 | 36 | 30 | 20 | 1040 |
| 15 | 7.0 | 22 | 70 | 45 | 96 | 52 | 312 | 23 | 29 | 17 | 18 | 231 |
| 16 | 6.0 | 46 | 60 | 40 | 166 | 48 | 234 | 20 | 25 | 14 | 16 | 152 |
| 17 | 5.4 | 180 | 51 | 100 | 90 | 44 | 183 | 18 | 22 | 10 | 14 | 110 |
| 18 | 4.9 | 108 | 46 | 130 | 70 | 41 | 146 | 17 | 19 | 7.7 | 13 | 58 |
| 19 | 4.4 | 53 | 45 | 100 | 60 | 44 | 112 | 17 | 16 | 6.1 | 12 | 44 |
| 20 | 4.0 | 37 | 58 | 250 | 56 | 43 | 102 | 18 | 15 | 5.3 | 11 | 36 |
| 21 | 3.7 | 29 | 136 | 431 | 328 | 40 | 100 | 17 | 14 | 5.0 | 18 | 1100 |
| 22 | 3.4 | 23 | 85 | 229 | 546 | 38 | 116 | 14 | 16 | 4.6 | 13 | 1950 |
| 23 | 3.2 | 23 | 70 | 167 | 1540 | 300 | 84 | 17 | 109 | 28 | 12 | 437 |
| 24 | 3.1 | 22 | 64 | 242 | 546 | 341 | 107 | 16 | 31 | 43 | 11 | 278 |
| 25 | 3.0 | 19 | 54 | 166 | 1050 | 199 | 93 | 15 | 21 | 409 | 9.9 | 212 |
| 26 | 26 | 162 | 46 | 130 | 507 | 150 | 78 | 14 | 16 | 3050 | 11 | 177 |
| 27 | 20 | 434 | 39 | 113 | 256 | 126 | 70 | 13 | 14 | 1360 | 43 | 136 |
| 28 | 9.8 | 176 | 36 | 92 | 184 | 102 | 40 | 12 | 12 | 682 | 262 | 130 |
| 29 | 6.3 | 113 | 34 | 73 | --- | 94 | 35 | 11 | 12 | 413 | 110 | 109 |
| 30 | 4.9 | 75 | 34 | 74 | --- | 86 | 33 | 9.7 | 17 | 318 | 51 | 100 |
| 31 | 4.4 | --- | 150 | 66 | --- | 523 | --- | 11 | --- | 250 | 33 | --- |
| TOTAL | 184.5 | 1570.2 | 6894 | 5276 | 6025 | 3770 | 11752 | 887.7 | 1520.4 | 6799.8 | 2049.9 | 6514.7 |
| MEAN | 5.95 | 52.3 | 222 | 170 | 215 | 122 | 392 | 28.6 | 50.7 | 219 | 66.1 | 217 |
| MAX | 26 | 434 | 2050 | 1300 | 1540 | 523 | 1900 | 104 | 342 | 3050 | 262 | 1950 |
| MIN | 2.5 | 2.8 | 34 | 40 | 30 | 38 | 33 | 9.7 | 7.9 | 4.6 | 9.9 | 8.9 |
| CFSM | .09 | .80 | 3.41 | 2.61 | 3.30 | 1.87 | 6.01 | .44 | .78 | 3.36 | 1.01 | 3.33 |
| IN. | .11 | .90 | 3.93 | 3.01 | 3.44 | 2.15 | 6.71 | .51 | .87 | 3.88 | 1.17 | 3.72 |
| CAL YR 1978 | TOTAL | 28716.2 | MEAN | 78.7 | MAX | 2050 | MIN | 1.6 | CFSM | 1.21 | IN | 16.38 |
| WTR YR 1979 | TOTAL | 53244.2 | MEAN | 146 | MAX | 3050 | MIN | 2.5 | CFSM | 2.24 | IN | 30.38 |

03302300 LITTLE INDIAN CREEK NEAR GALENA, IN

LOCATION.--Lat 38°19'19", long 85°55'53", in NE¼SW¼ sec.23, T.2 S., R.5 E., Floyd County, Hydrologic Unit 05140104, 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 mi² (41.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 703.00 ft (214.274 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair

AVERAGE DISCHARGE.--11 years, 26.0 ft³/s (0.736 m³/s), 21.93 in/yr (557 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,500 ft³/s (156 m³/s) July 21, 1973, gage height, 9.30 ft (2.835 m); from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of contracted-opening measurement at 7.34 ft (2.237 m); no flow for many days in 1969, 1975, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|----------|---------|---|------|-------------------------|-------|
| Dec. 8 | 1230 | 1860 | 52.7 | 6.62 | 2.018 | Apr. 4 | 0930 | 1520 | 43.0 | 6.24 | 1.902 |
| Jan. 1 | 0700 | 1560 | 44.2 | 6.30 | 1.920 | Apr. 12 | 0445 | 1660 | 47.0 | 6.40 | 1.951 |
| Feb. 22 | 1515 | 2880 | 81.6 | 7.54 | 2.298 | June 9 | Unknown | 1790 | 50.7 | 6.27 | 1.911 |
| Feb. 25 | 1230 | 2700 | 76.5 | 7.04 | 2.146 | July 27 | 0730 | *3570 | 101 | *7.71 | 2.350 |
| Apr. 1 | 1515 | 2780 | 78.7 | 7.45 | 2.271 | Sept. 22 | 0300 | 3440 | 97.4 | 7.62 | 2.323 |

Minimum daily discharge, 0.49 ft³/s (0.014 m³/s) July 8-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|--------|--------|-------|--------|---------|-------|--------|
| 1 | 2.6 | 1.5 | 20 | 624 | 22 | 49 | 526 | 6.6 | 2.5 | .95 | 81 | 6.7 |
| 2 | 1.2 | 1.3 | 18 | 97 | 17 | 38 | 604 | 6.3 | 2.1 | .78 | 50 | 5.6 |
| 3 | 1.1 | 1.2 | 411 | 57 | 16 | 59 | 104 | 7.7 | 1.9 | .70 | 21 | 4.7 |
| 4 | 1.1 | 1.1 | 190 | 44 | 15 | 92 | 358 | 23 | 1.7 | .66 | 13 | 4.1 |
| 5 | .92 | 1.1 | 50 | 33 | 13 | 49 | 104 | 26 | 1.6 | .60 | 9.3 | 3.9 |
| 6 | .78 | 1.0 | 34 | 28 | 13 | 35 | 70 | 16 | 1.5 | .56 | 7.5 | 3.6 |
| 7 | .69 | 1.0 | 111 | 27 | 14 | 28 | 58 | 12 | 10 | .52 | 6.4 | 3.4 |
| 8 | .65 | 1.1 | 891 | 24 | 13 | 23 | 82 | 9.7 | 150 | .49 | 5.7 | 3.2 |
| 9 | .67 | 1.0 | 127 | 22 | 12 | 19 | 142 | 7.6 | 400 | .49 | 5.3 | 2.9 |
| 10 | .69 | .96 | 53 | 20 | 11 | 19 | 75 | 6.7 | 60 | .49 | 4.9 | 2.7 |
| 11 | .91 | .92 | 38 | 19 | 12 | 15 | 60 | 5.8 | 20 | .49 | 36 | 2.5 |
| 12 | 1.7 | .90 | 32 | 19 | 11 | 14 | 392 | 6.7 | 14 | 14 | 9.4 | 2.4 |
| 13 | 2.0 | .88 | 28 | 19 | 11 | 13 | 199 | 5.6 | 10 | 33 | 5.9 | 67 |
| 14 | 1.8 | 1.1 | 24 | 28 | 11 | 15 | 99 | 4.4 | 6.3 | 6.6 | 5.0 | 279 |
| 15 | 1.2 | 22 | 22 | 20 | 30 | 12 | 53 | 8.8 | 4.7 | 3.6 | 4.6 | 29 |
| 16 | 1.1 | 18 | 22 | 18 | 70 | 11 | 37 | 4.7 | 3.4 | 2.4 | 4.3 | 17 |
| 17 | .97 | 104 | 20 | 30 | 30 | 10 | 29 | 3.9 | 2.7 | 1.6 | 4.1 | 12 |
| 18 | .91 | 32 | 19 | 50 | 25 | 10 | 25 | 3.2 | 2.2 | 1.1 | 4.1 | 9.5 |
| 19 | .81 | 22 | 19 | 32 | 22 | 10 | 21 | 3.0 | 1.7 | .92 | 4.0 | 8.6 |
| 20 | .71 | 18 | 38 | 55 | 20 | 10 | 18 | 2.8 | 1.7 | .78 | 32 | 7.4 |
| 21 | .72 | 15 | 45 | 95 | 96 | 9.2 | 15 | 2.7 | 1.6 | .71 | 16 | 340 |
| 22 | .68 | 14 | 32 | 51 | 893 | 8.6 | 13 | 2.4 | 1.6 | .64 | 7.9 | 791 |
| 23 | .66 | 16 | 27 | 41 | 210 | 48 | 12 | 2.5 | 4.7 | 7.8 | 6.2 | 67 |
| 24 | .64 | 15 | 24 | 70 | 64 | 56 | 11 | 2.5 | 2.0 | 11 | 5.3 | 41 |
| 25 | .62 | 13 | 22 | 46 | 636 | 34 | 11 | 2.7 | 1.4 | 11 | 4.4 | 30 |
| 26 | 11 | 117 | 20 | 41 | 133 | 25 | 10 | 2.5 | 1.2 | 603 | 24 | 23 |
| 27 | 4.7 | 114 | 18 | 30 | 68 | 21 | 9.6 | 2.4 | 1.1 | 624 | 17 | 20 |
| 28 | 2.7 | 41 | 17 | 27 | 50 | 18 | 9.8 | 2.2 | 1.0 | 124 | 30 | 34 |
| 29 | 2.2 | 29 | 16 | 26 | --- | 17 | 8.4 | 2.0 | .94 | 69 | 17 | 23 |
| 30 | 2.0 | 23 | 17 | 26 | --- | 15 | 7.2 | 1.8 | .90 | 32 | 11 | 19 |
| 31 | 1.7 | --- | 82 | 23 | --- | 241 | --- | 2.2 | --- | 19 | 8.6 | --- |
| TOTAL | 50.13 | 628.06 | 2487 | 1742 | 2538 | 1023.8 | 3163.0 | 196.4 | 714.44 | 1572.88 | 460.9 | 1863.2 |
| MEAN | 1.62 | 20.9 | 80.2 | 56.2 | 90.6 | 33.0 | 105 | 6.34 | 23.8 | 50.7 | 14.9 | 62.1 |
| MAX | 11 | 117 | 891 | 624 | 893 | 241 | 604 | 26 | 400 | 624 | 81 | 791 |
| MIN | .62 | .88 | 16 | 18 | 11 | 8.6 | 7.2 | 1.8 | .90 | .49 | 4.0 | 2.4 |
| CFSM | .10 | 1.30 | 4.98 | 3.49 | 5.63 | 2.05 | 6.52 | .39 | 1.48 | 3.15 | .93 | 3.86 |
| IN. | .12 | 1.45 | 5.75 | 4.02 | 5.86 | 2.37 | 7.31 | .45 | 1.65 | 3.63 | 1.06 | 4.30 |
| CAL YR 1978 | TOTAL | 11469.96 | MEAN | 31.4 | MAX | 891 | MIN | .61 | CFSM | 1.95 | IN | 26.50 |
| WTR YR 1979 | TOTAL | 16439.81 | MEAN | 45.0 | MAX | 893 | MIN | .49 | CFSM | 2.80 | IN | 37.98 |

03302500 INDIAN CREEK NEAR CORYDON, IN

LOCATION.--Lat 38°16'35", long 86°06'35", in SW¼SE¼ sec.6, T.3 S., R.4 E., Harrison County, Hydrologic Unit 05140104, on upstream side of bridge on State Highway 335, 0.6 mile (1.0 km) upstream from Raccoon Branch, 4.5 miles (7.2 km) north of Corydon, and at mile 33.7 (54.2 km).

DRAINAGE AREA.--129 mi² (334 km²), of which 10.6 mi² (27.4 km²) 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.

REVISED RECORDS.--WSP 1275: Drainage area. WSP 1385: 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 577.12 ft (175.906 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--36 years, 174 ft³/s (4.928 m³/s), 18.32 in/yr (465 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,700 ft³/s (756 m³/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, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,500 ft³/s (127 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|----------|---------|---|-------------------------|
| Dec. 8 | 1900 | 7430 210 | 16.26 4.956 | Apr. 2 | 1400 | 6530 185 | 15.54 4.737 |
| Jan. 1 | 2000 | 4970 141 | 14.13 4.307 | June 9 | Unknown | 5880 167 | 14.98 4.566 |
| Feb. 23 | 1900 | 5500 156 | 14.63 4.459 | July 26 | 2400 | *8160 231 | *16.82 5.127 |
| Feb. 25 | 2200 | 5160 146 | 14.31 4.362 | Sept. 22 | 1415 | 4890 138 | 14.05 4.282 |

Minimum daily discharge, 8.1 ft³/s (0.229 m³/s) July 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|-------|-------|-------|------|-------|------|------|---------|------|------|
| 1 | 23 | 22 | 180 | 3100 | 70 | 352 | 2140 | 61 | 33 | 15 | 203 | 52 |
| 2 | 38 | 20 | 146 | 1270 | 64 | 295 | 4910 | 58 | 27 | 13 | 282 | 55 |
| 3 | 25 | 18 | 1380 | 494 | 60 | 287 | 929 | 61 | 24 | 12 | 159 | 48 |
| 4 | 20 | 17 | 2200 | 339 | 60 | 650 | 2160 | 212 | 22 | 11 | 110 | 43 |
| 5 | 17 | 17 | 610 | 260 | 58 | 453 | 921 | 310 | 21 | 10 | 83 | 38 |
| 6 | 15 | 16 | 372 | 216 | 56 | 339 | 508 | 210 | 20 | 9.3 | 68 | 33 |
| 7 | 13 | 16 | 334 | 195 | 58 | 284 | 379 | 156 | 120 | 8.9 | 57 | 30 |
| 8 | 12 | 17 | 5820 | 147 | 55 | 237 | 438 | 120 | 1200 | 8.7 | 49 | 27 |
| 9 | 11 | 17 | 2900 | 115 | 52 | 193 | 960 | 97 | 3700 | 8.1 | 45 | 25 |
| 10 | 10 | 16 | 651 | 100 | 51 | 179 | 524 | 81 | 900 | 8.1 | 40 | 24 |
| 11 | 13 | 15 | 416 | 94 | 53 | 151 | 384 | 71 | 300 | 8.1 | 142 | 23 |
| 12 | 25 | 14 | 313 | 92 | 54 | 133 | 2210 | 67 | 200 | 11 | 148 | 22 |
| 13 | 45 | 13 | 249 | 96 | 53 | 125 | 854 | 74 | 140 | 139 | 60 | 34 |
| 14 | 50 | 13 | 197 | 224 | 50 | 127 | 1100 | 58 | 105 | 111 | 49 | 1120 |
| 15 | 30 | 62 | 169 | 138 | 142 | 108 | 508 | 230 | 78 | 64 | 45 | 304 |
| 16 | 20 | 282 | 148 | 167 | 597 | 94 | 365 | 150 | 63 | 44 | 41 | 165 |
| 17 | 15 | 1190 | 136 | 251 | 233 | 89 | 292 | 80 | 54 | 28 | 38 | 107 |
| 18 | 14 | 649 | 115 | 415 | 191 | 87 | 240 | 60 | 46 | 21 | 37 | 79 |
| 19 | 13 | 300 | 109 | 261 | 152 | 84 | 201 | 54 | 40 | 17 | 36 | 64 |
| 20 | 12 | 199 | 135 | 416 | 135 | 86 | 171 | 50 | 34 | 14 | 114 | 52 |
| 21 | 11 | 148 | 435 | 868 | 683 | 80 | 147 | 41 | 33 | 13 | 185 | 931 |
| 22 | 11 | 117 | 267 | 476 | 1290 | 77 | 128 | 35 | 31 | 12 | 80 | 3190 |
| 23 | 11 | 109 | 208 | 335 | 4390 | 426 | 119 | 33 | 31 | 13 | 52 | 665 |
| 24 | 9.4 | 128 | 180 | 625 | 1080 | 703 | 108 | 32 | 33 | 43 | 45 | 363 |
| 25 | 10 | 104 | 154 | 396 | 2510 | 404 | 104 | 31 | 29 | 107 | 40 | 244 |
| 26 | 88 | 297 | 126 | 287 | 1370 | 289 | 99 | 35 | 24 | 3800 | 51 | 180 |
| 27 | 204 | 1420 | 104 | 200 | 543 | 235 | 93 | 30 | 19 | 5190 | 120 | 137 |
| 28 | 70 | 526 | 89 | 150 | 406 | 199 | 88 | 35 | 17 | 1040 | 143 | 139 |
| 29 | 43 | 326 | 88 | 120 | --- | 179 | 77 | 26 | 16 | 792 | 183 | 128 |
| 30 | 31 | 241 | 85 | 100 | --- | 160 | 69 | 20 | 15 | 426 | 87 | 99 |
| 31 | 25 | --- | 344 | 85 | --- | 1290 | --- | 22 | --- | 282 | 61 | --- |
| TOTAL | 934.4 | 6329 | 18660 | 12032 | 14516 | 8395 | 21226 | 2600 | 7375 | 12279.2 | 2853 | 8421 |
| MEAN | 30.1 | 211 | 602 | 388 | 518 | 271 | 708 | 83.9 | 246 | 396 | 92.0 | 281 |
| MAX | 204 | 1420 | 5820 | 3100 | 4390 | 1290 | 4910 | 310 | 3700 | 5190 | 282 | 3190 |
| MIN | 9.4 | 13 | 85 | 85 | 50 | 77 | 69 | 20 | 15 | 8.1 | 36 | 22 |
| CFSM | .23 | 1.64 | 4.67 | 3.01 | 4.02 | 2.10 | 5.49 | .65 | 1.91 | 3.07 | .71 | 2.18 |
| IN. | .27 | 1.83 | 5.38 | 3.47 | 4.19 | 2.42 | 6.12 | .75 | 2.13 | 3.54 | .82 | 2.43 |

CAL YR 1978 TOTAL 85434.4 MEAN 234 MAX 5820 MIN 9.4 CFSM 1.81 IN 24.64
WTR YR 1979 TOTAL 115620.6 MEAN 317 MAX 5820 MIN 8.1 CFSM 2.46 IN 33.34

BLUE RIVER BASIN

03302680 WEST FORK BLUE RIVER AT SALEM, IN

LOCATION.--Lat 38°36'19", long 86°05'40", in SW¼SE¼ sec.17, T.2 N., R.4 E., Washington County, Hydrologic Unit 05140104, on left bank at downstream side of bridge on East Market Street, 0.35 mile (0.56 km) east of County Court House in Salem, 6.0 miles (9.6 km) upstream from Hoggatt Branch, and 6.9 miles (11.1 km) upstream from mouth.

DRAINAGE AREA.--19.0 mi² (49.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage 713.00 ft (217.322 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 24.7 ft³/s (0.700 m³/s), 17.65 in/yr (448 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,430 ft³/s (125 m³/s) July 10, 1974, gage height, 12.29 ft (3.746 m) from rating curve extended above 900 ft³/s (25.5 m³/s) by a step-backwater analysis; minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 24, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Nov. 17 | 1200 | 1080 | 30.6 | 7.20 | 2.195 | Apr. 2 | 0400 | 1660 | 47.0 | 8.43 | 2.569 |
| Dec. 8 | 0530 | 1020 | 28.9 | 7.03 | 2.143 | Apr. 4 | 0900 | 1460 | 41.3 | 7.97 | 2.429 |
| Jan. 1 | 0945 | 661 | 18.7 | 5.82 | 1.774 | June 20 | 1700 | 767 | 21.7 | 6.19 | 1.887 |
| Feb. 22 | 1815 | 1840 | 52.1 | 8.81 | 2.685 | July 27 | 0915 | *2260 | 64.0 | *9.54 | 2.908 |
| Feb. 25 | 1330 | 1510 | 42.8 | 8.09 | 2.466 | Aug. 1 | 1315 | 1270 | 36.0 | 7.54 | 2.298 |

Minimum daily discharge, 0.52 ft³/s (0.015 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|----------|------|------|--------|------|------|-------|-------|-------|-------|-------|
| 1 | 4.3 | 2.5 | 21 | 405 | 15 | 55 | 97 | 9.9 | 12 | 5.7 | 248 | 6.7 |
| 2 | 1.2 | 2.3 | 17 | 123 | 13 | 44 | 439 | 9.9 | 6.4 | 4.6 | 76 | 6.0 |
| 3 | .94 | 2.1 | 168 | 63 | 12 | 55 | 85 | 12 | 5.7 | 4.0 | 35 | 5.3 |
| 4 | 1.0 | 2.0 | 168 | 40 | 11 | 103 | 317 | 17 | 5.1 | 3.8 | 23 | 4.6 |
| 5 | .86 | 2.0 | 67 | 31 | 11 | 57 | 85 | 16 | 4.6 | 3.3 | 17 | 4.2 |
| 6 | .60 | 2.3 | 42 | 25 | 10 | 42 | 54 | 14 | 4.0 | 2.8 | 14 | 3.9 |
| 7 | .78 | 3.0 | 128 | 23 | 9.4 | 38 | 40 | 12 | 4.6 | 2.6 | 12 | 3.5 |
| 8 | .60 | 3.0 | 687 | 18 | 8.8 | 37 | 39 | 11 | 11 | 2.8 | 9.8 | 3.1 |
| 9 | .52 | 2.8 | 186 | 17 | 8.4 | 32 | 54 | 9.9 | 22 | 4.3 | 8.5 | 2.8 |
| 10 | .52 | 2.6 | 75 | 14 | 8.0 | 30 | 39 | 9.5 | 14 | 4.0 | 7.8 | 2.7 |
| 11 | 1.1 | 2.5 | 50 | 12 | 8.5 | 26 | 36 | 8.3 | 11 | 3.0 | 18 | 2.6 |
| 12 | 19 | 2.3 | 38 | 12 | 7.0 | 25 | 103 | 9.1 | 8.7 | 14 | 10 | 2.5 |
| 13 | 51 | 2.3 | 30 | 14 | 6.8 | 23 | 92 | 7.9 | 7.5 | 29 | 7.9 | 3.6 |
| 14 | 17 | 2.5 | 25 | 30 | 6.4 | 21 | 75 | 7.1 | 6.4 | 12 | 6.9 | 20 |
| 15 | 10 | 15 | 22 | 20 | 59 | 19 | 50 | 21 | 5.1 | 9.0 | 6.1 | 8.2 |
| 16 | 7.9 | 21 | 20 | 19 | 33 | 17 | 38 | 10 | 4.6 | 6.8 | 5.3 | 6.2 |
| 17 | 5.7 | 263 | 17 | 46 | 18 | 17 | 31 | 8.7 | 4.3 | 5.2 | 4.9 | 5.3 |
| 18 | 4.8 | 69 | 15 | 37 | 16 | 16 | 28 | 8.3 | 3.8 | 4.4 | 4.5 | 4.7 |
| 19 | 4.0 | 40 | 15 | 27 | 15 | 17 | 25 | 7.5 | 3.5 | 3.8 | 4.3 | 4.3 |
| 20 | 3.5 | 28 | 60 | 43 | 14 | 16 | 22 | 7.1 | 73 | 3.5 | 8.1 | 3.8 |
| 21 | 3.0 | 21 | 61 | 88 | 82 | 15 | 20 | 6.4 | 15 | 3.2 | 13 | 70 |
| 22 | 2.6 | 17 | 41 | 46 | 282 | 14 | 18 | 5.7 | 9.1 | 2.9 | 7.8 | 114 |
| 23 | 2.5 | 19 | 32 | 35 | 378 | 54 | 17 | 5.7 | 7.1 | 4.1 | 6.9 | 40 |
| 24 | 2.6 | 15 | 29 | 117 | 82 | 63 | 16 | 5.7 | 7.1 | 3.9 | 5.9 | 26 |
| 25 | 2.6 | 13 | 23 | 67 | 381 | 47 | 16 | 6.8 | 5.7 | 14 | 5.1 | 20 |
| 26 | 7.1 | 53 | 19 | 48 | 94 | 36 | 15 | 5.7 | 5.1 | 107 | 13 | 16 |
| 27 | 5.7 | 105 | 16 | 40 | 61 | 31 | 14 | 8.3 | 4.6 | 466 | 9.9 | 14 |
| 28 | 4.0 | 48 | 14 | 33 | 55 | 28 | 13 | 6.4 | 4.0 | 109 | 13 | 13 |
| 29 | 3.0 | 34 | 12 | 26 | --- | 26 | 12 | 5.1 | 13 | 72 | 12 | 11 |
| 30 | 2.6 | 27 | 12 | 20 | --- | 25 | 11 | 4.3 | 12 | 42 | 9.2 | 10 |
| 31 | 2.5 | --- | 77 | 17 | --- | 48 | --- | 8.7 | --- | 26 | 7.6 | --- |
| TOTAL | 173.52 | 822.2 | 2187 | 1556 | 1705.3 | 1077 | 1901 | 285.0 | 300.0 | 978.7 | 630.5 | 438.0 |
| MEAN | 5.60 | 27.4 | 70.5 | 50.2 | 60.9 | 34.7 | 63.4 | 9.19 | 10.0 | 31.6 | 20.3 | 14.6 |
| MAX | 51 | 263 | 687 | 405 | 381 | 103 | 439 | 21 | 73 | 466 | 248 | 114 |
| MIN | .52 | 2.0 | 12 | 12 | 6.4 | 14 | 11 | 4.3 | 3.5 | 2.6 | 4.3 | 2.5 |
| CFSM | .30 | 1.44 | 3.71 | 2.64 | 3.21 | 1.83 | 3.34 | .48 | .53 | 1.66 | 1.07 | .77 |
| IN. | .34 | 1.61 | 4.28 | 3.05 | 3.34 | 2.11 | 3.72 | .56 | .59 | 1.92 | 1.23 | .86 |
| CAL YR 1978 | TOTAL | 11137.22 | MEAN | 30.5 | MAX | 1010 | MIN | .48 | CFSM | 1.61 | IN | 21.80 |
| WTR YR 1979 | TOTAL | 12054.22 | MEAN | 33.0 | MAX | 687 | MIN | .52 | CFSM | 1.74 | IN | 23.60 |

03302800 BLUE RIVER AT FREDERICKSBURG, IN

LOCATION.--Lat 38°26'02", long 86°11'31", in NE¼ sec.16, T.1 S., R.3 E., Washington County, Hydrologic Unit 05140104, on downstream side of bridge on U.S. Highway 150 at Fredericksburg, 0.5 mile (0.8 km) downstream from South Fork Blue River, and at mile 57.1 (91.9 km).

DRAINAGE AREA.--283 mi² (733 km²), of which 76.9 mi² (199.2 km²) 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 341 ft³/s (9.657 m³/s), 16.36 in/yr (416 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s (340 m³/s) Apr. 24, 1975, gage height, 22.88 ft (6.974 m); minimum daily, 6.1 ft³/s (0.17 m³/s) Oct. 18, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959 reached a stage of 29.20 ft (8.900 m), from floodmark, on left upstream wingwall.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|---------|---|-------------------------|
| Nov. 17 | 2200 | 5050 143 | 14.50 4.420 | Apr. 4 | 1500 | 7160 203 | 17.43 5.313 |
| Dec. 4 | 0900 | 5300 150 | 14.88 4.535 | Apr. 12 | 1000 | 3400 96.3 | 11.61 3.539 |
| Dec. 9 | 0400 | 9090 257 | 19.67 5.995 | Apr. 14 | 0100 | 3090 87.5 | 10.99 3.350 |
| Jan. 1 | 2300 | 7350 208 | 17.67 5.386 | June 9 | unknown | ^a 4500 127 | unknown |
| Feb. 23 | 2100 | 8060 228 | 18.50 5.639 | July 26 | 2200 | *8360 237 | *19.82 6.041 |
| Feb. 26 | 0200 | 8080 229 | 18.53 5.648 | | | | |
| Apr. 2 | 1100 | 8950 253 | 19.51 5.947 | | | | |

Minimum daily discharge, 20 ft³/s (0.57 m³/s) Oct. 9, 10.

^aEstimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|------|------|-------|------|------|
| 1 | 47 | 50 | 395 | 4720 | 207 | 955 | 2370 | 132 | 284 | 74 | 836 | 110 |
| 2 | 45 | 47 | 325 | 3560 | 203 | 797 | 7040 | 123 | 162 | 72 | 1260 | 95 |
| 3 | 32 | 44 | 1230 | 1160 | 204 | 717 | 1880 | 133 | 115 | 61 | 600 | 85 |
| 4 | 28 | 42 | 3860 | 784 | 181 | 1750 | 4620 | 464 | 92 | 59 | 400 | 75 |
| 5 | 26 | 41 | 1290 | 603 | 160 | 1230 | 1960 | 631 | 82 | 55 | 300 | 65 |
| 6 | 25 | 38 | 798 | 506 | 152 | 832 | 1080 | 411 | 73 | 49 | 240 | 58 |
| 7 | 21 | 37 | 649 | 445 | 140 | 666 | 792 | 307 | 134 | 46 | 200 | 54 |
| 8 | 21 | 37 | 5680 | 352 | 130 | 555 | 726 | 243 | 400 | 45 | 180 | 49 |
| 9 | 20 | 36 | 6180 | 290 | 125 | 453 | 1190 | 201 | 3000 | 43 | 165 | 44 |
| 10 | 20 | 35 | 1520 | 260 | 120 | 402 | 818 | 170 | 1200 | 46 | 153 | 40 |
| 11 | 22 | 33 | 956 | 240 | 125 | 348 | 705 | 147 | 450 | 54 | 463 | 38 |
| 12 | 27 | 31 | 727 | 220 | 106 | 307 | 2280 | 134 | 356 | 61 | 401 | 35 |
| 13 | 475 | 30 | 598 | 210 | 100 | 279 | 1640 | 138 | 327 | 328 | 207 | 38 |
| 14 | 282 | 31 | 483 | 369 | 95 | 261 | 1880 | 119 | 265 | 346 | 155 | 438 |
| 15 | 149 | 62 | 418 | 320 | 143 | 222 | 887 | 585 | 223 | 206 | 127 | 281 |
| 16 | 105 | 375 | 368 | 290 | 893 | 197 | 651 | 336 | 190 | 145 | 108 | 132 |
| 17 | 83 | 2120 | 323 | 368 | 358 | 184 | 548 | 229 | 167 | 109 | 95 | 92 |
| 18 | 67 | 1750 | 280 | 790 | 273 | 174 | 466 | 186 | 149 | 88 | 88 | 75 |
| 19 | 59 | 705 | 263 | 528 | 228 | 174 | 418 | 159 | 133 | 74 | 80 | 64 |
| 20 | 52 | 488 | 288 | 602 | 213 | 188 | 364 | 137 | 125 | 66 | 84 | 56 |
| 21 | 45 | 370 | 894 | 1630 | 1040 | 178 | 321 | 123 | 338 | 61 | 179 | 565 |
| 22 | 41 | 294 | 555 | 1010 | 1540 | 182 | 287 | 108 | 187 | 56 | 152 | 2010 |
| 23 | 36 | 269 | 435 | 700 | 6860 | 988 | 254 | 101 | 127 | 58 | 100 | 877 |
| 24 | 34 | 291 | 380 | 1650 | 3190 | 1260 | 230 | 96 | 107 | 114 | 94 | 512 |
| 25 | 32 | 233 | 335 | 1020 | 3550 | 765 | 216 | 93 | 102 | 232 | 73 | 359 |
| 26 | 54 | 437 | 273 | 671 | 4420 | 555 | 210 | 93 | 86 | 3080 | 83 | 258 |
| 27 | 171 | 2170 | 234 | 559 | 1300 | 450 | 191 | 88 | 78 | 6740 | 280 | 197 |
| 28 | 108 | 1020 | 202 | 458 | 1080 | 389 | 177 | 96 | 72 | 3410 | 217 | 175 |
| 29 | 75 | 665 | 197 | 348 | --- | 356 | 163 | 84 | 69 | 1190 | 492 | 159 |
| 30 | 60 | 515 | 191 | 284 | --- | 327 | 146 | 72 | 72 | 715 | 230 | 127 |
| 31 | 54 | --- | 490 | 288 | --- | 1410 | --- | 84 | --- | 527 | 150 | --- |
| TOTAL | 2316 | 12296 | 30817 | 25235 | 27136 | 17551 | 34510 | 6023 | 9165 | 18210 | 8192 | 7163 |
| MEAN | 74.7 | 410 | 994 | 814 | 969 | 566 | 1150 | 194 | 306 | 587 | 264 | 239 |
| MAX | 475 | 2170 | 6180 | 4720 | 6860 | 1750 | 7040 | 631 | 3000 | 6740 | 1260 | 2010 |
| MIN | 20 | 30 | 191 | 210 | 95 | 174 | 146 | 72 | 69 | 43 | 73 | 35 |
| CFSM | .26 | 1.45 | 3.51 | 2.88 | 3.42 | 2.00 | 4.06 | .69 | 1.08 | 2.07 | .93 | .85 |
| IN. | .30 | 1.62 | 4.05 | 3.32 | 3.57 | 2.31 | 4.54 | .79 | 1.20 | 2.39 | 1.08 | .94 |
| CAL YR 1978 | TOTAL | 152262 | MEAN 417 | MAX 9600 | MIN 20 | CFSM 1.47 | IN 20.01 | | | | | |
| WTR YR 1979 | TOTAL | 198614 | MEAN 544 | MAX 7040 | MIN 20 | CFSM 1.92 | IN 26.11 | | | | | |

03303000 BLUE RIVER NEAR WHITE CLOUD, IN

LOCATION.--Lat 38°14'15", long 86°13'42", in NW¼SE¼ sec.19, T.3 S., R.3 E., Harrison County, Hydrologic Unit 05140104, on left bank 400 ft (122 m) downstream from Spring Creek, 600 ft (183 m) upstream from bridge on Interstate 64, 0.2 mile (0.3 km) upstream from bridge on State Highway 62, 0.8 mile (1.3 km) north of White Cloud, and at mile 14.7 (23.6 km).
 DRAINAGE AREA.--476 mi² (1,233 km²), of which 192 mi² (497 km²) does not contribute directly to surface runoff. Also, part of flow from Indian Creek, downstream from Corydon, IN, enters Blue River via solution channel in Karst area through Harrison Spring.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1335: 1921-32, 1933(M), 1935-38(M), 1944. WSP 1385: Drainage area. WSP 1555: 1953. WDR IN-75-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 434.26 ft (132.362 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--49 years, 630 ft³/s (17.84 m³/s), 17.97 in/yr (456 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,500 ft³/s (807 m³/s) Jan. 22, 1959, gage height, 23.07 ft (7.032 m); minimum daily, 9.6 ft³/s (0.27 m³/s) Oct. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,500 ft³/s (212 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 9 | 0700 | 12000 340 | 13.89 4.234 | Apr. 3 | 0400 | 11200 317 | 13.40 4.084 |
| Jan. 2 | 0800 | 8960 254 | 11.99 3.655 | Apr. 5 | 0700 | 8560 242 | 11.73 3.575 |
| Feb. 23 | 1600 | 12100 343 | 13.96 4.255 | June 9 | 1300 | 12300 348 | 14.09 4.295 |
| Feb. 26 | 1200 | 9390 266 | 12.26 3.737 | July 26 | 2000 | *22500 637 | *19.71 6.008 |

Minimum daily discharge, 73 ft³/s (2.07 m³/s) Oct 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|-----------|----------|-------|-------|-------|
| 1 | 105 | 145 | 819 | 5570 | 581 | 1890 | 4230 | 409 | 250 | 228 | 1290 | 312 |
| 2 | 111 | 133 | 669 | 7610 | 493 | 1690 | 9180 | 386 | 429 | 215 | 1940 | 271 |
| 3 | 133 | 123 | 1440 | 2760 | 482 | 1500 | 7940 | 390 | 289 | 177 | 1240 | 244 |
| 4 | 120 | 116 | 5850 | 1670 | 474 | 2610 | 5100 | 828 | 232 | 157 | 910 | 217 |
| 5 | 102 | 110 | 3450 | 1260 | 433 | 2770 | 6580 | 1370 | 202 | 141 | 742 | 189 |
| 6 | 94 | 106 | 1730 | 1050 | 381 | 1860 | 2790 | 1070 | 183 | 131 | 627 | 168 |
| 7 | 88 | 104 | 1350 | 924 | 394 | 1510 | 1860 | 802 | 209 | 121 | 549 | 154 |
| 8 | 82 | 101 | 7040 | 811 | 384 | 1300 | 1610 | 656 | 2730 | 123 | 493 | 140 |
| 9 | 76 | 97 | 11600 | 668 | 332 | 1090 | 2280 | 558 | 8940 | 121 | 448 | 127 |
| 10 | 73 | 95 | 4520 | 598 | 319 | 944 | 2120 | 495 | 3700 | 123 | 411 | 117 |
| 11 | 77 | 93 | 2180 | 551 | 331 | 842 | 1550 | 452 | 1670 | 114 | 414 | 109 |
| 12 | 91 | 89 | 1560 | 509 | 321 | 751 | 3260 | 420 | 1120 | 141 | 873 | 104 |
| 13 | 94 | 85 | 1240 | 501 | 312 | 686 | 3720 | 393 | 841 | 274 | 547 | 119 |
| 14 | 544 | 85 | 1030 | 648 | 300 | 652 | 3790 | 382 | 671 | 865 | 419 | 602 |
| 15 | 343 | 165 | 874 | 730 | 426 | 592 | 2550 | 360 | 565 | 486 | 362 | 790 |
| 16 | 232 | 387 | 778 | 579 | 1430 | 535 | 1740 | 862 | 496 | 365 | 318 | 447 |
| 17 | 180 | 2110 | 689 | 719 | 1050 | 503 | 1350 | 534 | 452 | 292 | 279 | 320 |
| 18 | 147 | 4180 | 611 | 1300 | 660 | 481 | 1110 | 432 | 412 | 226 | 253 | 264 |
| 19 | 127 | 1530 | 566 | 1120 | 543 | 470 | 952 | 382 | 375 | 189 | 236 | 234 |
| 20 | 114 | 968 | 578 | 1150 | 488 | 546 | 845 | 348 | 352 | 163 | 221 | 213 |
| 21 | 105 | 730 | 1290 | 2580 | 1190 | 530 | 762 | 322 | 492 | 147 | 290 | 560 |
| 22 | 95 | 585 | 1200 | 2360 | 3150 | 505 | 688 | 286 | 526 | 136 | 380 | 3050 |
| 23 | 88 | 516 | 912 | 1500 | 9210 | 1230 | 628 | 265 | 390 | 136 | 335 | 2290 |
| 24 | 80 | 513 | 787 | 2450 | 7930 | 2650 | 584 | 254 | 318 | 164 | 272 | 1090 |
| 25 | 75 | 490 | 720 | 2660 | 4750 | 2010 | 556 | 248 | 286 | 244 | 242 | 764 |
| 26 | 141 | 770 | 624 | 1540 | 8120 | 1450 | 551 | 238 | 258 | 10100 | 211 | 593 |
| 27 | 258 | 3290 | 544 | 1210 | 3090 | 1150 | 521 | 231 | 231 | 16500 | 311 | 489 |
| 28 | 322 | 2450 | 492 | 1050 | 2180 | 974 | 488 | 222 | 206 | 10400 | 501 | 427 |
| 29 | 253 | 1390 | 455 | 850 | --- | 876 | 460 | 222 | 197 | 4340 | 653 | 391 |
| 30 | 200 | 1040 | 445 | 719 | --- | 802 | 436 | 206 | 194 | 2700 | 550 | 364 |
| 31 | 163 | --- | 772 | 628 | --- | 2360 | --- | 203 | --- | 1780 | 381 | --- |
| TOTAL | 4713 | 22596 | 56815 | 48275 | 49754 | 37759 | 70231 | 14226 | 27216 | 51299 | 16698 | 15159 |
| MEAN | 152 | 753 | 1833 | 1557 | 1777 | 1218 | 2341 | 459 | 907 | 1655 | 539 | 505 |
| MAX | 544 | 4180 | 11600 | 7610 | 9210 | 2770 | 9180 | 1370 | 8940 | 16500 | 1940 | 3050 |
| MIN | 73 | 85 | 445 | 501 | 300 | 470 | 436 | 203 | 183 | 114 | 211 | 104 |
| CFSM | .32 | 1.58 | 3.85 | 3.27 | 3.73 | 2.56 | 4.92 | .96 | 1.91 | 3.48 | 1.13 | 1.06 |
| IN. | .37 | 1.77 | 4.44 | 3.77 | 3.89 | 2.95 | 5.49 | 1.11 | 2.13 | 4.01 | 1.30 | 1.18 |
| CAL YR 1978 | TOTAL | 292456 | MEAN | 801 | MAX | 13400 | MIN 73 | CFSM 1.68 | IN 22.86 | | | |
| WTR YR 1979 | TOTAL | 414741 | MEAN | 1136 | MAX | 16500 | MIN 73 | CFSM 2.39 | IN 32.41 | | | |

BLUE RIVER BASIN

57

03303000 BLUE RIVER NEAR WHITE CLOUD, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1974 (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|--------------|------|---|--|---|
| OCT 18... | 1700 | 142 | 12 | 4.6 |

ANDERSON RIVER BASIN

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

LOCATION.--Lat 38°08'19", long 86°43'16", in SW¼NE¼ sec.27, T.4 S., R.3 W., Perry County, Hydrologic Unit 05140201, on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 miles (3.2 km) downstream from Coon Branch, 5.8 miles (9.3 km) upstream from Sulphur Fork Creek, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--39.8 mi² (103.1 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 395.00 ft (120.396 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Forest Service and Soil Conservation Service control structures beginning June 1967.

AVERAGE DISCHARGE.--18 years, 58.5 ft³/s (1.657 m³/s), 19.96 in/yr (507 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,360 ft³/s (180 m³/s) Mar. 9, 1964; maximum gage height, 19.33 ft (5.892 m) Mar. 4, 1964; no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 20.0 ft (6.096 m), from floodmark, discharge, 15,000 ft³/s (425 m³/s), from rating curve extended above 7,000 ft³/s (198 m³/s). This is the maximum flood since 1905, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s (85.5 m³/s) June 9, gage height, 17.13 (5.221 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|------|------|--------|--------|--------|--------|-------|
| 1 | 3.0 | 3.6 | 35 | 535 | 38 | 372 | 479 | 29 | 13 | 8.5 | 494 | 49 |
| 2 | 2.0 | 3.1 | 27 | 400 | 34 | 300 | 683 | 27 | 9.1 | 6.8 | 469 | 36 |
| 3 | 2.3 | 2.8 | 281 | 353 | 31 | 162 | 443 | 56 | 6.7 | 5.9 | 448 | 29 |
| 4 | 2.3 | 2.6 | 453 | 277 | 29 | 287 | 615 | 227 | 4.9 | 5.3 | 431 | 25 |
| 5 | 2.0 | 2.3 | 333 | 108 | 27 | 235 | 462 | 213 | 3.8 | 4.6 | 412 | 22 |
| 6 | 1.5 | 2.1 | 218 | 69 | 24 | 150 | 431 | 135 | 3.1 | 4.0 | 373 | 20 |
| 7 | 1.4 | 2.0 | 190 | 52 | 24 | 106 | 413 | 86 | 8.0 | 3.6 | 250 | 18 |
| 8 | 1.3 | 1.8 | 726 | 43 | 23 | 93 | 426 | 59 | 96 | 3.3 | 45 | 16 |
| 9 | 1.2 | 1.5 | 510 | 37 | 22 | 79 | 509 | 45 | 1430 | 4.0 | 23 | 15 |
| 10 | 1.2 | 1.3 | 414 | 33 | 21 | 68 | 380 | 36 | 512 | 4.2 | 18 | 14 |
| 11 | 1.2 | 1.1 | 393 | 29 | 20 | 57 | 320 | 29 | 478 | 3.5 | 34 | 13 |
| 12 | 1.4 | 1.0 | 360 | 27 | 19 | 49 | 465 | 31 | 466 | 10 | 39 | 12 |
| 13 | 1.8 | .92 | 289 | 30 | 18 | 46 | 369 | 32 | 453 | 39 | 27 | 16 |
| 14 | 1.2 | .94 | 99 | 60 | 17 | 48 | 323 | 26 | 440 | 54 | 20 | 71 |
| 15 | .92 | 20 | 42 | 54 | 72 | 42 | 210 | 21 | 426 | 79 | 16 | 40 |
| 16 | .92 | 24 | 36 | 45 | 166 | 37 | 120 | 17 | 410 | 45 | 12 | 27 |
| 17 | .92 | 257 | 32 | 67 | 97 | 34 | 85 | 14 | 377 | 27 | 9.8 | 21 |
| 18 | .84 | 187 | 28 | 98 | 67 | 32 | 64 | 11 | 279 | 17 | 8.1 | 18 |
| 19 | .77 | 72 | 26 | 68 | 68 | 64 | 53 | 9.6 | 58 | 11 | 7.1 | 16 |
| 20 | .77 | 37 | 44 | 199 | 47 | 103 | 45 | 8.7 | 24 | 7.7 | 11 | 14 |
| 21 | .70 | 23 | 107 | 349 | 171 | 80 | 39 | 8.2 | 18 | 5.7 | 333 | 138 |
| 22 | .50 | 16 | 69 | 258 | 399 | 75 | 36 | 7.0 | 14 | 4.5 | 121 | 305 |
| 23 | .63 | 18 | 52 | 153 | 668 | 220 | 34 | 6.8 | 42 | 12 | 55 | 170 |
| 24 | .92 | 23 | 44 | 370 | 432 | 263 | 32 | 6.7 | 44 | 25 | 41 | 72 |
| 25 | 1.2 | 19 | 39 | 272 | 588 | 174 | 42 | 6.3 | 27 | 120 | 28 | 46 |
| 26 | 17 | 160 | 32 | 149 | 461 | 119 | 44 | 5.9 | 18 | 828 | 24 | 33 |
| 27 | 15 | 333 | 26 | 105 | 423 | 84 | 39 | 5.2 | 13 | 737 | 288 | 27 |
| 28 | 8.6 | 190 | 22 | 81 | 402 | 66 | 45 | 4.7 | 11 | 578 | 374 | 28 |
| 29 | 6.4 | 84 | 21 | 62 | --- | 58 | 39 | 3.9 | 11 | 660 | 310 | 31 |
| 30 | 5.2 | 50 | 23 | 42 | --- | 59 | 34 | 4.2 | 11 | 568 | 209 | 29 |
| 31 | 4.2 | --- | 176 | 47 | --- | 522 | --- | 13 | --- | 501 | 81 | --- |
| TOTAL | 89.29 | 1540.06 | 5147 | 4472 | 4408 | 4084 | 7279 | 1184.2 | 5706.6 | 4382.6 | 5011.0 | 1371 |
| MEAN | 2.88 | 51.3 | 166 | 144 | 157 | 132 | 243 | 38.2 | 190 | 141 | 162 | 45.7 |
| MAX | 17 | 333 | 726 | 535 | 668 | 522 | 683 | 227 | 1430 | 828 | 494 | 305 |
| MIN | .50 | .92 | 21 | 27 | 17 | 32 | 32 | 3.9 | 3.1 | 3.3 | 7.1 | 12 |
| CFSM | .07 | 1.29 | 4.17 | 3.62 | 3.95 | 3.32 | 6.11 | .96 | 4.77 | 3.54 | 4.07 | 1.15 |
| IN. | .08 | 1.44 | 4.81 | 4.18 | 4.12 | 3.82 | 6.80 | 1.11 | 5.33 | 4.10 | 4.68 | 1.28 |
| CAL YR 1978 | TOTAL | 20742.65 | MEAN | 56.8 | MAX | 726 | MIN | .50 | CFSM | 1.43 | IN | 19.39 |
| WTR YR 1979 | TOTAL | 44674.75 | MEAN | 122 | MAX | 1430 | MIN | .50 | CFSM | 3.07 | IN | 41.76 |

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| DEC 21... | 1615 | 2.0 | 87 | 66 | 16 | -- | -- | -- | -- | -- |
| MAR 05... | 1720 | 4.5 | 211 | 79 | 45 | 98 | 100 | -- | -- | -- |
| JUL 27... | 1310 | -- | 987 | 99 | 264 | 94 | 96 | 98 | 99 | 100 |

CROOKED CREEK BASIN

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

LOCATION.--Lat 38°07'05", long 86°53'24", in SW¼SE¼ sec. 31, T.4 S., R.4 W., Spencer County, Hydrologic Unit 05140201, on right bank at upstream side of bridge on county road, 1.3 miles (2.1 km) east of Santa Claus Post Office, and 1.8 miles (2.9 km) upstream from unnamed right-bank tributary.

DRAINAGE AREA.--7.86 mi² (20.36 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 404.34 ft (123.243 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--10 years, 12.2 ft³/s (0.346 m³/s), 21.08 in/yr (535 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft³/s (116 m³/s) Apr. 28, 1970, gage height, 9.74 ft (2.969 m), from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of two indirect measurements of peak flow at site 1.6 miles (2.6 km) downstream, drainage area, 16.0 mi² (41.4 km²), adjusted to gage site; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 22 | 1715 | 582 16.5 | 8.91 2.716 | June 9 | 0315 | 594 16.8 | 8.92 2.719 |
| Feb. 23 | 0800 | 606 17.2 | 8.93 2.722 | July 26 | 0830 | *1860 52.7 | *9.41 2.868 |
| Mar. 31 | 0915 | 700 19.8 | 9.00 2.743 | July 29 | 1815 | 672 19.0 | 8.98 2.737 |
| Apr. 2 | 0300 | 542 15.3 | 8.87 2.704 | Aug. 21 | 0115 | 717 20.3 | 9.01 2.746 |

Minimum daily discharge, no flow July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|-------|--------|--------|---------|--------|--------|
| 1 | 2.3 | .67 | 3.6 | 147 | 2.3 | 19 | 66 | 1.9 | .56 | 1.5 | 14 | 3.8 |
| 2 | .83 | .58 | 2.8 | 33 | 2.1 | 12 | 155 | 1.8 | .44 | .15 | 7.8 | 2.4 |
| 3 | .66 | .52 | 127 | 16 | 2.0 | 37 | 23 | 16 | .39 | .08 | 3.9 | 1.8 |
| 4 | .62 | .49 | 49 | 6.8 | 1.8 | 83 | 99 | 55 | .32 | .09 | 1.9 | 1.5 |
| 5 | .41 | .44 | 14 | 5.0 | 1.7 | 21 | 24 | 23 | .26 | .04 | .97 | 1.3 |
| 6 | .32 | .41 | 7.8 | 4.2 | 1.7 | 14 | 14 | 12 | .22 | .02 | .58 | 1.2 |
| 7 | .27 | .43 | 51 | 3.4 | 1.6 | 10 | 10 | 7.7 | 1.8 | .01 | .38 | 1.0 |
| 8 | .24 | .38 | 258 | 2.7 | 1.5 | 9.4 | 41 | 4.9 | 3.7 | .00 | .27 | .92 |
| 9 | .22 | .36 | 41 | 2.4 | 1.5 | 7.8 | 76 | 3.3 | 188 | 4.5 | .22 | .84 |
| 10 | .20 | .34 | 14 | 2.0 | 1.4 | 6.1 | 19 | 2.5 | 17 | .33 | .17 | .78 |
| 11 | .36 | .30 | 8.3 | 1.9 | 1.3 | 4.6 | 14 | 1.9 | 6.4 | .04 | 3.4 | .73 |
| 12 | .50 | .30 | 5.9 | 2.7 | 1.3 | 3.8 | 103 | 5.5 | 2.9 | 15 | .56 | .69 |
| 13 | 6.8 | .31 | 4.6 | 3.4 | 1.2 | 4.0 | 27 | 3.5 | 1.7 | 32 | .22 | 3.7 |
| 14 | 2.2 | .38 | 3.5 | 4.2 | 1.2 | 3.9 | 20 | 2.0 | 1.2 | 10 | .15 | 19 |
| 15 | 1.1 | 18 | 3.1 | 3.3 | 30 | 2.6 | 13 | 1.4 | .78 | 27 | .11 | 3.3 |
| 16 | .85 | 8.9 | 2.9 | 5.4 | 17 | 2.3 | 9.0 | 1.0 | .60 | 4.8 | .08 | 1.7 |
| 17 | .58 | 114 | 2.3 | 7.5 | 9.0 | 2.2 | 6.6 | .86 | .45 | 1.2 | .07 | 1.4 |
| 18 | .53 | 16 | 2.3 | 6.8 | 5.6 | 2.2 | 5.1 | .80 | .31 | .45 | .06 | 1.3 |
| 19 | .53 | 6.9 | 2.3 | 4.8 | 4.3 | 16 | 4.1 | .75 | .22 | .19 | .06 | 1.2 |
| 20 | .51 | 4.1 | 15 | 64 | 3.3 | 15 | 3.5 | .80 | .18 | .10 | 4.2 | 1.1 |
| 21 | .46 | 2.9 | 15 | 67 | 52 | 10 | 3.3 | .72 | .16 | .07 | 112 | 81 |
| 22 | .39 | 2.3 | 7.3 | 17 | 141 | 33 | 3.2 | .58 | .12 | .06 | 12 | 68 |
| 23 | .39 | 5.1 | 4.7 | 23 | 189 | 63 | 3.1 | .89 | .10 | 3.8 | 6.1 | 18 |
| 24 | .49 | 4.5 | 4.8 | 112 | 30 | 32 | 3.0 | .70 | .20 | 41 | 3.9 | 9.6 |
| 25 | .43 | 2.8 | 3.4 | 26 | 137 | 16 | 5.0 | .69 | .11 | 134 | 2.1 | 5.5 |
| 26 | 9.4 | 94 | 2.5 | 6.8 | 31 | 9.8 | 4.2 | .51 | .06 | 658 | 20 | 3.5 |
| 27 | 4.1 | 43 | 1.7 | 5.2 | 18 | 7.1 | 3.2 | .52 | .04 | 248 | 29 | 2.6 |
| 28 | 2.0 | 14 | 1.5 | 4.2 | 14 | 5.8 | 4.3 | .48 | .03 | 57 | 54 | 2.2 |
| 29 | 1.2 | 7.9 | 1.6 | 4.0 | --- | 5.3 | 3.1 | .39 | .09 | 141 | 24 | 1.7 |
| 30 | .96 | 5.0 | 2.4 | 3.9 | --- | 9.0 | 2.5 | .36 | 3.7 | 66 | 12 | 1.5 |
| 31 | .76 | --- | 69 | 2.5 | --- | 220 | --- | .99 | --- | 25 | 6.8 | --- |
| TOTAL | 40.61 | 355.31 | 732.3 | 598.1 | 703.8 | 686.9 | 767.2 | 153.44 | 232.04 | 1471.43 | 321.00 | 243.26 |
| MEAN | 1.31 | 11.8 | 23.6 | 19.3 | 25.1 | 22.2 | 25.6 | 4.95 | 7.73 | 47.5 | 10.4 | 8.11 |
| MAX | 9.4 | 114 | 258 | 147 | 189 | 220 | 155 | 55 | 188 | 658 | 112 | 81 |
| MIN | .20 | .30 | 1.5 | 1.9 | 1.2 | 2.2 | 2.5 | .36 | .03 | .00 | .06 | .69 |
| CFSM | .17 | 1.50 | 3.00 | 2.46 | 3.19 | 2.82 | 3.26 | .63 | .98 | 6.04 | 1.32 | 1.03 |
| IN. | .19 | 1.68 | 3.47 | 2.83 | 3.33 | 3.25 | 3.63 | .73 | 1.10 | 6.96 | 1.52 | 1.15 |
| CAL YR 1978 | TOTAL | 2882.77 | MEAN | 7.90 | MAX | 258 | MIN | .00 | CFSM | 1.01 | IN | 13.64 |
| WTR YR 1979 | TOTAL | 6305.39 | MEAN | 17.3 | MAX | 658 | MIN | .00 | CFSM | 2.20 | IN | 29.84 |

03322100 PIGEON CREEK AT EVANSVILLE, IN

LOCATION.--Lat 38°00'14", long 87°32'19", in SE¼SW¼ sec.16, T.6 N., R.10 W., Vanderburgh County, Hydrologic Unit 05140202, on left bank in the median strip of Old U.S. 41, between two steel truss bridges at Evansville, and at mile 6.0 (9.6 km).

DRAINAGE AREA.--323 mi² (837 km²).

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

REVISED RECORDS.--WSP 2109: 1960. WRD Ind. 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 352.24 ft (107.363 m) National Geodetic Vertical Datum of 1929. Nonrecording auxiliary gage at site 1.2 miles (1.9 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 1.2 miles (1.9 km) upstream, was used as base gage, and present base gage was used as auxiliary gage.

REMARKS.--Records good except for periods of backwater from the Ohio River, which are poor.

AVERAGE DISCHARGE.--19 years 351 ft³/s (9.940 m³/s), 14.76 in/yr (375 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft³/s (343 m³/s) May 10, 1961, gage height, 27.94 ft (8.52 m); minimum daily (unaffected by backwater), 1.0 ft³/s (0.028 m³/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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,010 ft³/s (198 m³/s) Feb. 25; maximum gage height, 22.02 ft (6.712 m) Mar. 4 (backwater from Ohio River); minimum daily discharge (unaffected by backwater), 5.3 ft³/s (0.15 m³/s), Nov. 4; minimum daily discharge (affected by backwater), no flow Sept. 23-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1 | 17 | 7.6 | 120 | 2270 | 464 | 4160 | 3350 | 192 | 75 | 56 | 2800 | 184 |
| 2 | 16 | 6.4 | 93 | 2310 | 330 | 3200 | 4420 | 164 | 71 | 43 | 2060 | 150 |
| 3 | 15 | 6.0 | 566 | 1770 | 194 | 2820 | 4320 | 345 | 42 | 32 | 1230 | 146 |
| 4 | 14 | 5.3 | 1180 | 1640 | 139 | 4000 | 4180 | 1260 | 38 | 27 | 381 | 97 |
| 5 | 13 | 5.7 | 944 | 780 | 120 | 3430 | 3480 | 1300 | 38 | 26 | 198 | 82 |
| 6 | 12 | 6.4 | 903 | 460 | 106 | 3400 | 2730 | 1340 | 31 | 23 | 134 | 68 |
| 7 | 11 | 6.8 | 1210 | 330 | 100 | 3140 | 2390 | 878 | 148 | 22 | 100 | 60 |
| 8 | 11 | 7.2 | 2020 | 245 | 94 | 2470 | 2060 | 471 | 749 | 18 | 82 | 53 |
| 9 | 10 | 7.2 | 2000 | 200 | 87 | 1770 | 2620 | 336 | 1210 | 426 | 70 | 45 |
| 10 | 9.9 | 6.8 | 1630 | 162 | 82 | 1110 | 2380 | 217 | 2220 | 1000 | 57 | 41 |
| 11 | 8.9 | 7.2 | 1480 | 137 | 80 | 773 | 2560 | 172 | 1460 | 951 | 226 | 38 |
| 12 | 7.6 | 8.0 | 1160 | 120 | 87 | 763 | 3110 | 1030 | 2060 | 576 | 1000 | 36 |
| 13 | 17 | 8.9 | 709 | 150 | 88 | 793 | 2450 | 1330 | 1880 | 1120 | 1050 | 38 |
| 14 | 102 | 9.4 | 746 | 200 | 90 | 801 | 2430 | 1290 | 810 | 1190 | 344 | 56 |
| 15 | 72 | 79 | 838 | 140 | 172 | 632 | 2210 | 769 | 178 | 1560 | 170 | 251 |
| 16 | 40 | 84 | 595 | 184 | 766 | 653 | 1470 | 280 | 105 | 1530 | 97 | 1660 |
| 17 | 25 | 481 | 679 | 300 | 832 | 573 | 652 | 160 | 79 | 929 | 72 | 620 |
| 18 | 18 | 535 | 779 | 460 | 538 | 577 | 789 | 122 | 61 | 249 | 62 | 530 |
| 19 | 13 | 295 | 1160 | 741 | 328 | 507 | 768 | 102 | 47 | 122 | 54 | 162 |
| 20 | 9.0 | 151 | 990 | 1420 | 246 | 1060 | 731 | 96 | 40 | 82 | 52 | 36 |
| 21 | 7.8 | 96 | 614 | 2080 | 922 | 1180 | 681 | 94 | 38 | 62 | 509 | 106 |
| 22 | 6.9 | 66 | 211 | 1500 | 1710 | 638 | 638 | 83 | 38 | 54 | 1020 | 425 |
| 23 | 6.2 | 52 | 205 | 1340 | 3780 | 1650 | 550 | 75 | 41 | 87 | 1140 | .00 |
| 24 | 5.7 | 43 | 200 | 2530 | 4630 | 2000 | 443 | 70 | 96 | 481 | 1370 | .00 |
| 25 | 25 | 38 | 190 | 1240 | 5780 | 1810 | 592 | 64 | 87 | 936 | 1400 | .00 |
| 26 | 50 | 456 | 186 | 980 | 5950 | 1810 | 579 | 53 | 52 | 2980 | 1400 | .00 |
| 27 | 16 | 835 | 184 | 1150 | 5320 | 959 | 425 | 49 | 36 | 2830 | 1320 | .00 |
| 28 | 28 | 567 | 120 | 1020 | 4780 | 422 | 336 | 48 | 30 | 2750 | 1430 | .00 |
| 29 | 18 | 280 | 105 | 496 | --- | 132 | 284 | 47 | 33 | 2800 | 1270 | .00 |
| 30 | 13 | 160 | 100 | 401 | --- | 632 | 233 | 45 | 62 | 2990 | 962 | .00 |
| 31 | 9.9 | --- | 857 | 561 | --- | 3090 | --- | 69 | --- | 3000 | 372 | --- |
| TOTAL | 627.9 | 4316.9 | 22774 | 27317 | 37815 | 50955 | 53861 | 12551 | 11855 | 28952 | 22432 | 4884.00 |
| MEAN | 20.3 | 144 | 735 | 881 | 1351 | 1644 | 1795 | 405 | 395 | 934 | 724 | 163 |
| MAX | 102 | 835 | 2020 | 2530 | 5950 | 4160 | 4420 | 1340 | 2220 | 3000 | 2800 | 1660 |
| MIN | 5.7 | 5.3 | 93 | 120 | 80 | 132 | 233 | 45 | 30 | 18 | 52 | .00 |
| CFSM | .06 | .45 | 2.28 | 2.73 | 4.18 | 5.09 | 5.56 | 1.25 | 1.22 | 2.89 | 2.24 | .51 |
| IN. | .07 | .50 | 2.62 | 3.15 | 4.36 | 5.87 | 6.20 | 1.45 | 1.37 | 3.33 | 2.58 | .56 |
| CAL YR 1978 | TOTAL | 119356.50 | MEAN | 327 | MAX | 5370 | MIN | .00 | CFSM | 1.01 | IN | 13.75 |
| WTR YR 1979 | TOTAL | 278340.80 | MEAN | 763 | MAX | 5950 | MIN | .00 | CFSM | 2.36 | IN | 32.06 |

WABASH RIVER BASIN

03322500 WABASH RIVER NEAR NEW CORYDON, IN

LOCATION.--Lat 40°33'50", long 84°48'10", in NE¼SE¼ sec.3, T.24 N., R.15 E., Jay County, Hydrologic Unit 05120101, on left bank, 10 ft (3m) 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 466.0 (749.8 km).

DRAINAGE AREA.--262 mi² (678 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1555: 1957(P). WSP 1909: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft (253.014 m) National Geodetic Vertical Datum of 1929. Prior to June 24, 1953, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

AVERAGE DISCHARGE.--28 years, 194 ft³/s (5.494 m³/s), 10.06 in/yr (256 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,720 ft³/s (247 m³/s) Jan. 22, 1959; gage height, 20.47 ft (6.239 m), from floodmarks; minimum daily, 0.8 ft³/s (0.023 m³/s) Dec. 22, 23, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|
| Mar. 4 | 1000 | *4320 122 | *18.05 5.502 |
| Apr. 14 | 1000 | 2500 70.8 | 16.55 5.044 |

Minimum daily discharge, 3.8 ft³/s (0.108 m³/s) Oct. 11.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: July 1969 to June 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|----------|----------|------|------|------|------|------|
| 1 | 4.3 | 6.6 | 15 | 1170 | 22 | 670 | 107 | 119 | 106 | 111 | 177 | 103 |
| 2 | 4.6 | 5.9 | 14 | 1190 | 22 | 1000 | 128 | 122 | 97 | 52 | 800 | 88 |
| 3 | 5.1 | 5.8 | 50 | 479 | 21 | 2020 | 130 | 123 | 91 | 40 | 1000 | 76 |
| 4 | 6.0 | 5.9 | 246 | 304 | 21 | 4020 | 123 | 125 | 86 | 40 | 680 | 70 |
| 5 | 5.0 | 6.2 | 120 | 216 | 20 | 3190 | 195 | 119 | 80 | 40 | 187 | 68 |
| 6 | 4.2 | 6.5 | 49 | 165 | 19 | 1750 | 166 | 112 | 256 | 33 | 530 | 65 |
| 7 | 4.6 | 7.1 | 33 | 143 | 19 | 994 | 120 | 106 | 400 | 30 | 460 | 58 |
| 8 | 4.8 | 7.8 | 67 | 123 | 18 | 628 | 125 | 101 | 195 | 29 | 220 | 56 |
| 9 | 4.3 | 8.8 | 254 | 107 | 18 | 461 | 213 | 96 | 503 | 152 | 176 | 53 |
| 10 | 3.9 | 8.6 | 85 | 92 | 17 | 558 | 241 | 93 | 183 | 353 | 193 | 50 |
| 11 | 3.8 | 8.4 | 42 | 82 | 17 | 325 | 320 | 91 | 102 | 85 | 130 | 47 |
| 12 | 4.7 | 8.0 | 27 | 78 | 16 | 209 | 1370 | 86 | 87 | 52 | 108 | 47 |
| 13 | 6.1 | 8.5 | 25 | 70 | 16 | 176 | 1020 | 96 | 78 | 69 | 91 | 46 |
| 14 | 11 | 11 | 23 | 64 | 15 | 249 | 2200 | 95 | 72 | 600 | 79 | 185 |
| 15 | 15 | 16 | 21 | 60 | 15 | 219 | 1430 | 88 | 63 | 640 | 71 | 323 |
| 16 | 14 | 14 | 20 | 56 | 15 | 177 | 702 | 81 | 59 | 410 | 68 | 122 |
| 17 | 8.8 | 15 | 18 | 52 | 15 | 167 | 419 | 79 | 56 | 194 | 66 | 80 |
| 18 | 7.8 | 53 | 17 | 48 | 15 | 166 | 318 | 77 | 55 | 94 | 64 | 68 |
| 19 | 7.2 | 40 | 16 | 45 | 15 | 170 | 275 | 72 | 57 | 69 | 66 | 59 |
| 20 | 7.6 | 22 | 25 | 42 | 15 | 161 | 249 | 69 | 55 | 58 | 70 | 58 |
| 21 | 7.4 | 17 | 21 | 39 | 15 | 148 | 230 | 66 | 54 | 52 | 186 | 54 |
| 22 | 6.5 | 16 | 17 | 37 | 16 | 134 | 215 | 63 | 48 | 73 | 128 | 51 |
| 23 | 5.7 | 16 | 15 | 35 | 110 | 131 | 201 | 63 | 44 | 119 | 149 | 49 |
| 24 | 5.6 | 17 | 14 | 34 | 1000 | 141 | 155 | 67 | 42 | 78 | 195 | 47 |
| 25 | 6.7 | 17 | 13 | 32 | 960 | 116 | 145 | 257 | 38 | 590 | 133 | 44 |
| 26 | 8.5 | 16 | 13 | 30 | 840 | 96 | 145 | 735 | 36 | 900 | 86 | 42 |
| 27 | 12 | 16 | 13 | 28 | 710 | 91 | 136 | 339 | 34 | 930 | 328 | 40 |
| 28 | 10 | 15 | 13 | 27 | 660 | 93 | 150 | 219 | 32 | 820 | 402 | 40 |
| 29 | 9.1 | 15 | 14 | 25 | --- | 99 | 151 | 156 | 32 | 600 | 510 | 42 |
| 30 | 8.0 | 15 | 17 | 24 | --- | 103 | 138 | 128 | 198 | 490 | 264 | 41 |
| 31 | 7.4 | --- | 104 | 23 | --- | 105 | --- | 117 | --- | 141 | 138 | --- |
| TOTAL | 219.7 | 425.1 | 1421 | 4920 | 4662 | 18567 | 11517 | 4160 | 3239 | 7944 | 7755 | 2172 |
| MEAN | 7.09 | 14.2 | 45.8 | 159 | 167 | 599 | 384 | 134 | 108 | 256 | 250 | 72.4 |
| MAX | 15 | 53 | 254 | 1190 | 1000 | 4020 | 2200 | 735 | 503 | 930 | 1000 | 323 |
| MIN | 3.8 | 5.8 | 13 | 23 | 15 | 91 | 107 | 63 | 32 | 29 | 64 | 40 |
| CFSM | .03 | .05 | .18 | .61 | .64 | 2.29 | 1.47 | .51 | .41 | .98 | .95 | .28 |
| IN. | .03 | .06 | .20 | .70 | .66 | 2.64 | 1.64 | .59 | .46 | 1.13 | 1.10 | .31 |
| CAL YR 1978 | TOTAL | 80995.1 | MEAN 222 | MAX 4000 | MIN 3.8 | CFSM .85 | IN 11.50 | | | | | |
| WTR YR 1979 | TOTAL | 67001.8 | MEAN 184 | MAX 4020 | MIN 3.8 | CFSM .70 | IN 9.51 | | | | | |

03322900 WABASH RIVER AT LINN GROVE, IN

LOCATION.--Lat 40°39'22", long 85°01'58", in SE¼SE¼ sec.34, T.26 N., R.13 E., Adams County, Hydrologic Unit 05120101, on right bank 10 ft (3 m) downstream from bridge on State Highway 218, 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 mi² (1,173 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 808.00 ft (246.278 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those of winter periods, which are poor. Occasional regulation of Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

AVERAGE DISCHARGE.--15 years, 365 ft³/s (10.33 m³/s), 10.94 in/yr (278 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s (271 m³/s) Mar. 17, 1978, gage height, 13.87 ft (4.228 m); minimum daily, 5.1 ft³/s (0.14 m³/s) Oct. 8, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1964 reached a stage of 13.13 ft (4.002 m), from floodmark, discharge, 6,900 ft³/s (195 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,900 ft³/s (53.8 m³/s) and maximum(*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Mar. 5 | 0400 | *5970 169 | *12.72 3.877 | Aug. 4 | 0100 | 2020 57.2 | 8.89 2.710 |
| Apr. 15 | 1900 | 3200 90.6 | 10.40 3.170 | | | | |

Minimum daily discharge, 8.2 ft³/s (0.232 m³/s) Oct. 1, 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|-------|-------|------|------|-------|-------|-------|
| 1 | 8.2 | 10 | 25 | 200 | 41 | 1100 | 199 | 204 | 171 | 361 | 558 | 188 |
| 2 | 8.9 | 8.6 | 23 | 1700 | 39 | 1200 | 226 | 177 | 155 | 206 | 1560 | 139 |
| 3 | 10 | 8.3 | 204 | 1200 | 38 | 3160 | 258 | 187 | 137 | 93 | 1910 | 115 |
| 4 | 12 | 9.2 | 588 | 900 | 37 | 5090 | 215 | 196 | 128 | 63 | 1930 | 99 |
| 5 | 11 | 9.5 | 443 | 620 | 35 | 5810 | 234 | 181 | 119 | 84 | 1230 | 89 |
| 6 | 10 | 9.6 | 222 | 450 | 34 | 4900 | 300 | 165 | 183 | 65 | 869 | 84 |
| 7 | 10 | 11 | 144 | 310 | 33 | 3470 | 224 | 152 | 658 | 43 | 1170 | 77 |
| 8 | 9.6 | 11 | 299 | 250 | 32 | 2280 | 198 | 141 | 897 | 33 | 855 | 68 |
| 9 | 11 | 13 | 468 | 210 | 31 | 1570 | 546 | 133 | 908 | 65 | 430 | 61 |
| 10 | 11 | 13 | 170 | 180 | 30 | 1260 | 577 | 125 | 788 | 763 | 419 | 57 |
| 11 | 10 | 15 | 90 | 159 | 29 | 934 | 638 | 122 | 366 | 607 | 347 | 54 |
| 12 | 9.6 | 14 | 76 | 142 | 29 | 553 | 1400 | 124 | 212 | 216 | 246 | 50 |
| 13 | 12 | 13 | 62 | 125 | 30 | 371 | 1850 | 127 | 162 | 120 | 188 | 49 |
| 14 | 15 | 19 | 46 | 115 | 31 | 453 | 2440 | 135 | 138 | 648 | 153 | 53 |
| 15 | 23 | 24 | 38 | 105 | 32 | 481 | 3030 | 135 | 122 | 1300 | 127 | 279 |
| 16 | 28 | 23 | 34 | 100 | 31 | 349 | 2730 | 126 | 104 | 1350 | 109 | 337 |
| 17 | 35 | 54 | 31 | 92 | 30 | 299 | 1730 | 110 | 92 | 740 | 101 | 154 |
| 18 | 25 | 144 | 28 | 88 | 29 | 299 | 845 | 104 | 86 | 342 | 98 | 99 |
| 19 | 18 | 130 | 32 | 80 | 29 | 308 | 537 | 97 | 79 | 169 | 94 | 80 |
| 20 | 15 | 92 | 37 | 75 | 30 | 298 | 447 | 91 | 82 | 110 | 97 | 67 |
| 21 | 13 | 54 | 33 | 71 | 45 | 269 | 396 | 86 | 87 | 83 | 190 | 63 |
| 22 | 13 | 36 | 29 | 67 | 84 | 233 | 357 | 81 | 95 | 69 | 319 | 59 |
| 23 | 12 | 29 | 26 | 63 | 240 | 213 | 324 | 76 | 71 | 102 | 227 | 53 |
| 24 | 9.3 | 35 | 23 | 59 | 550 | 226 | 295 | 95 | 56 | 179 | 225 | 49 |
| 25 | 8.2 | 39 | 22 | 58 | 1500 | 209 | 247 | 439 | 49 | 356 | 290 | 47 |
| 26 | 8.2 | 33 | 20 | 56 | 1480 | 163 | 236 | 1020 | 45 | 1240 | 186 | 44 |
| 27 | 10 | 29 | 20 | 51 | 1300 | 134 | 227 | 943 | 43 | 1620 | 163 | 40 |
| 28 | 14 | 31 | 19 | 49 | 1200 | 141 | 243 | 530 | 37 | 1730 | 450 | 37 |
| 29 | 18 | 31 | 20 | 47 | --- | 204 | 269 | 323 | 34 | 1330 | 578 | 36 |
| 30 | 15 | 27 | 21 | 45 | --- | 226 | 240 | 233 | 58 | 776 | 599 | 36 |
| 31 | 14 | --- | 30 | 43 | --- | 214 | --- | 190 | --- | 459 | 338 | --- |
| TOTAL | 427.0 | 975.2 | 3323 | 7710 | 7049 | 36417 | 21458 | 6848 | 6162 | 15322 | 16056 | 2663 |
| MEAN | 13.8 | 32.5 | 107 | 249 | 252 | 1175 | 715 | 221 | 205 | 494 | 518 | 88.8 |
| MAX | 35 | 144 | 588 | 1700 | 1500 | 5810 | 3030 | 1020 | 908 | 1730 | 1930 | 337 |
| MIN | 8.2 | 8.3 | 19 | 43 | 29 | 134 | 198 | 76 | 34 | 33 | 94 | 36 |
| CFSM | .03 | .07 | .24 | .55 | .56 | 2.59 | 1.58 | .49 | .45 | 1.09 | 1.14 | .20 |
| IN. | .04 | .08 | .27 | .63 | .58 | 2.99 | 1.76 | .56 | .51 | 1.26 | 1.32 | .22 |
| CAL YR 1978 | TOTAL | 147985.9 | MEAN | 405 | MAX | 8400 | MIN | 7.5 | CFSM | .89 | IN | 12.15 |
| WTR YR 1979 | TOTAL | 124410.2 | MEAN | 341 | MAX | 5810 | MIN | 8.2 | CFSM | .75 | IN | 10.22 |

WABASH RIVER BASIN

03322900 WABASH RIVER AT LINN GROVE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|--------------|------|-----------------------------|---|---|--|
| NOV 02... | 1300 | 11.0 | 8.2 | 71 | 1.6 |
| MAY 17... | 1545 | 19.0 | 90 | 89 | 22 |

03323450 HUNTINGTON LAKE NEAR HUNTINGTON, IN

LOCATION.--Lat 40°50'45", long 85°28'07", in SW¼SW¼ sec.25, T.28 N., R.9 E., Huntington County, Hydrologic Unit 05120101, in operating pylon of dam of reservoir on Wabash River at State Highway 5, 1.5 miles (2.4 km) south-east of Huntington, and at mile 411.4 (661.9 km).

DRAINAGE AREA.--717 mi² (1,857 km²).

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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 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 hm³), elevation, 737 ft (224.6 m). Seasonal pool capacity is 12,500 acre-ft (15.4 hm³), elevation, 749 ft (228.3 m). Capacity at flood control pool is 153,100 acre-ft (189 hm³), elevation, 798 ft (243.2 m). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Water-stage recorder graph, dam tenders records, and capacity tables furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 115,900 acre-ft (142.9 hm³) Mar. 25, 1978, elevation, 792.46 ft (241.542 m); minimum, 1,760 acre-ft (2.17 hm³) Nov. 18, 1974, elevation, 731.27 ft (222.891 m), lowered reservoir for repairs.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 54,870 acre-ft (67.7 hm³) Mar. 7, elevation, 776.37 ft (236.638 m); minimum, 4,100 acre-ft (5.05 hm³) Jan. 6, 8, Feb. 13, elevation, 736.95 ft (224.622 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 745.35 | 9,420 | |
| Oct. 31..... | 742.44 | 7,310 | -2,110 |
| Nov. 30..... | 737.20 | 4,220 | -3,090 |
| Dec. 31..... | 737.58 | 4,420 | +200 |
| CAL YR 1978..... | | | -1,930 |
| Jan. 31..... | 737.10 | 4,170 | -250 |
| Feb. 28..... | 756.03 | 19,720 | +15,550 |
| Mar. 31..... | 741.11 | 6,440 | -13,280 |
| Apr. 30..... | 748.80 | 12,300 | +5,860 |
| May 31..... | 750.75 | 14,120 | +1,820 |
| June 30..... | 749.16 | 12,620 | -1,500 |
| July 31..... | 755.45 | 19,060 | +6,440 |
| Aug. 31..... | 740.37 | 5,990 | -13,070 |
| Sept. 30..... | 746.83 | 10,600 | +4,610 |
| WTR YR 1979..... | | | +1,180 |

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

LOCATION.--Lat 40°54'14", long 85°24'22", in NE¼NW¼ sec.9, T.28 N., R.10 E., Huntington County, Hydrologic Unit 05120101, on right bank on upstream side of highway bridge, 5 miles (8 km) east of Huntington, and at mile 7.5 (12.1 km).

DRAINAGE AREA.--263 mi² (681 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 728.10 ft (221.925 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, nonrecording gage 4 miles (6 km) downstream at datum 8.79 ft (2.679 m) lower, and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are fair. During periods of extreme high water in St. Marys River, some water leaves the St. Marys River basin through Junk ditch and flows into Little River basin via Graham McCulloch ditch.

AVERAGE DISCHARGE.--36 years, 222 ft³/s (6.287 m³/s), 11.46 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,990 ft³/s (170 m³/s) Jan. 4, 1950; maximum gage height, 18.43 ft (5.617 m) Feb. 11, 1959; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Oct. 8, 1946, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,800 ft³/s (79.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 0200 | *4050 115 | *15.96 4.865 |

Minimum daily discharge, 15 ft³/s (0.424 m³/s) Nov. 10, 11, Sept. 24-28.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1969 to September 1978 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|------|------|------|------|------|
| 1 | 16 | 19 | 23 | 1300 | 21 | 450 | 955 | 105 | 56 | 73 | 86 | 24 |
| 2 | 17 | 18 | 21 | 400 | 20 | 900 | 629 | 91 | 50 | 45 | 302 | 22 |
| 3 | 17 | 24 | 201 | 170 | 20 | 1660 | 433 | 136 | 46 | 34 | 183 | 21 |
| 4 | 17 | 27 | 405 | 120 | 20 | 3380 | 341 | 147 | 43 | 31 | 153 | 24 |
| 5 | 17 | 23 | 176 | 84 | 19 | 3870 | 374 | 116 | 41 | 28 | 93 | 21 |
| 6 | 18 | 18 | 94 | 62 | 19 | 2620 | 291 | 103 | 57 | 25 | 128 | 19 |
| 7 | 19 | 18 | 133 | 50 | 19 | 1280 | 207 | 93 | 51 | 24 | 82 | 18 |
| 8 | 19 | 19 | 505 | 41 | 19 | 830 | 195 | 86 | 58 | 24 | 52 | 18 |
| 9 | 19 | 17 | 290 | 36 | 18 | 640 | 460 | 80 | 61 | 327 | 45 | 20 |
| 10 | 18 | 15 | 150 | 33 | 18 | 480 | 370 | 75 | 204 | 149 | 42 | 18 |
| 11 | 22 | 15 | 80 | 32 | 18 | 360 | 408 | 73 | 135 | 81 | 44 | 17 |
| 12 | 20 | 18 | 68 | 30 | 18 | 279 | 1140 | 73 | 81 | 54 | 35 | 17 |
| 13 | 20 | 18 | 60 | 30 | 18 | 271 | 723 | 88 | 60 | 43 | 29 | 18 |
| 14 | 21 | 75 | 54 | 29 | 18 | 890 | 839 | 74 | 50 | 52 | 25 | 20 |
| 15 | 21 | 68 | 48 | 29 | 18 | 509 | 570 | 209 | 45 | 64 | 23 | 20 |
| 16 | 22 | 38 | 42 | 28 | 18 | 308 | 341 | 145 | 47 | 43 | 21 | 18 |
| 17 | 22 | 57 | 37 | 27 | 18 | 278 | 250 | 99 | 41 | 31 | 21 | 17 |
| 18 | 21 | 101 | 35 | 27 | 19 | 340 | 200 | 82 | 39 | 27 | 30 | 17 |
| 19 | 23 | 52 | 33 | 26 | 19 | 411 | 169 | 74 | 37 | 24 | 29 | 17 |
| 20 | 22 | 36 | 32 | 26 | 19 | 356 | 149 | 67 | 33 | 21 | 28 | 16 |
| 21 | 21 | 28 | 31 | 25 | 20 | 287 | 134 | 60 | 114 | 20 | 61 | 18 |
| 22 | 21 | 25 | 29 | 25 | 22 | 232 | 120 | 60 | 108 | 19 | 61 | 21 |
| 23 | 22 | 28 | 28 | 24 | 60 | 218 | 105 | 54 | 63 | 19 | 52 | 16 |
| 24 | 21 | 36 | 27 | 24 | 1500 | 305 | 103 | 56 | 44 | 28 | 60 | 15 |
| 25 | 22 | 30 | 25 | 23 | 1100 | 224 | 108 | 139 | 34 | 108 | 55 | 15 |
| 26 | 26 | 26 | 24 | 23 | 700 | 157 | 106 | 241 | 32 | 122 | 40 | 15 |
| 27 | 27 | 28 | 23 | 22 | 600 | 125 | 103 | 147 | 32 | 62 | 32 | 15 |
| 28 | 24 | 31 | 22 | 22 | 500 | 340 | 122 | 99 | 28 | 41 | 29 | 15 |
| 29 | 20 | 28 | 21 | 22 | --- | 1670 | 114 | 75 | 31 | 33 | 28 | 19 |
| 30 | 19 | 25 | 20 | 21 | --- | 2280 | 116 | 64 | 105 | 27 | 28 | 21 |
| 31 | 18 | --- | 172 | 21 | --- | 1870 | --- | 57 | --- | 50 | 26 | --- |
| TOTAL | 632 | 961 | 2909 | 2832 | 4878 | 27820 | 10175 | 3068 | 1826 | 1729 | 1923 | 552 |
| MEAN | 20.4 | 32.0 | 93.8 | 91.4 | 174 | 897 | 339 | 99.0 | 60.9 | 55.8 | 62.0 | 18.4 |
| MAX | 27 | 101 | 505 | 1300 | 1500 | 3870 | 1140 | 241 | 204 | 327 | 302 | 24 |
| MIN | 16 | 15 | 20 | 21 | 18 | 125 | 103 | 54 | 28 | 19 | 21 | 15 |
| CFSM | .08 | .12 | .36 | .35 | .66 | 3.41 | 1.29 | .38 | .23 | .21 | .24 | .07 |
| IN. | .09 | .14 | .41 | .40 | .69 | 3.93 | 1.44 | .43 | .26 | .24 | .27 | .08 |
| CAL YR 1978 | TOTAL | 83437 | MEAN 229 | MAX 4040 | MIN 15 | CFSM .87 | IN 11.80 | | | | | |
| WTR YR 1979 | TOTAL | 59305 | MEAN 162 | MAX 3870 | MIN 15 | CFSM .62 | IN 8.39 | | | | | |

03324200 SALAMONIE RIVER AT PORTLAND, IN

LOCATION.--Lat 40°25'40", long 85°02'20", in NE¼SE¼ sec.23, T.23 N., R.13 E., Jay County, Hydrologic Unit 05120102, on right bank at downstream side of county road bridge, 2.3 miles (3.7 km) downstream from Butter-nut Creek, 3.2 miles (5.1 km) west of Portland, 3.7 miles (6.0 km) downstream from Little Salamonie River, and at mile 70.5 (113.4 km).

DRAINAGE AREA.--85.6 mi² (221.7 km²).

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

REVISED RECORDS.--WSP 2109: Drainage. WRD Ind. 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 877.59 ft (267.489 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1960, nonrecording gage at site 1.4 miles (2.3 km) upstream at datum 6.43 ft (1.960 m) higher.

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

AVERAGE DISCHARGE.--20 years, 72.0 ft³/s (2.039 m³/s), 11.42 in/yr (290 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s (98.0 m³/s) Mar. 5, 1963, gage height, 16.96 ft (5.169 m); minimum daily, 0.4 ft³/s (0.01 m³/s) Sept. 27, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 1200 | *2400 68.0 | *13.27 4.045 | Aug. 21 | 0500 | 1630 46.2 | 11.10 3.383 |
| Apr. 14 | 0900 | 1590 45.0 | 10.98 3.347 | | | | |

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|--------|--------|------|------|-------|--------|--------|--------|-------|
| 1 | 2.2 | 4.0 | 4.6 | 963 | 6.4 | 200 | 49 | 17 | 15 | 94 | 230 | 39 |
| 2 | 1.5 | 3.9 | 4.2 | 444 | 5.8 | 400 | 69 | 15 | 12 | 29 | 872 | 32 |
| 3 | 2.1 | 3.3 | 140 | 205 | 5.6 | 898 | 69 | 19 | 11 | 17 | 127 | 30 |
| 4 | 2.2 | 3.0 | 195 | 100 | 5.6 | 2230 | 47 | 21 | 11 | 62 | 53 | 26 |
| 5 | 3.3 | 2.3 | 52 | 50 | 5.4 | 836 | 70 | 18 | 10 | 21 | 62 | 27 |
| 6 | 3.5 | 1.3 | 24 | 27 | 5.2 | 245 | 54 | 18 | 404 | 14 | 249 | 22 |
| 7 | 2.5 | 5.3 | 21 | 23 | 5.0 | 187 | 34 | 17 | 165 | 13 | 78 | 19 |
| 8 | 2.1 | 4.3 | 116 | 20 | 4.8 | 159 | 33 | 13 | 158 | 17 | 33 | 17 |
| 9 | 1.8 | 4.0 | 150 | 18 | 4.6 | 134 | 103 | 11 | 72 | 174 | 69 | 15 |
| 10 | 2.3 | 3.7 | 37 | 17 | 4.6 | 166 | 104 | 9.6 | 41 | 844 | 48 | 15 |
| 11 | 2.8 | 3.1 | 14 | 16 | 4.6 | 70 | 249 | 9.6 | 23 | 109 | 22 | 14 |
| 12 | 3.3 | 2.6 | 12 | 15 | 4.6 | 41 | 762 | 11 | 15 | 40 | 14 | 13 |
| 13 | 8.6 | 2.9 | 10 | 14 | 4.7 | 38 | 294 | 10 | 12 | 95 | 11 | 13 |
| 14 | 3.1 | 10 | 8.0 | 13 | 4.8 | 88 | 1080 | 8.7 | 11 | 673 | 9.0 | 69 |
| 15 | 4.1 | 4.4 | 7.0 | 12 | 4.9 | 62 | 238 | 7.8 | 9.3 | 116 | 7.8 | 48 |
| 16 | 3.1 | 3.3 | 6.4 | 12 | 4.6 | 42 | 111 | 6.7 | 9.3 | 40 | 7.5 | 16 |
| 17 | 4.3 | 21 | 6.0 | 12 | 4.6 | 42 | 66 | 5.9 | 9.3 | 21 | 5.6 | 13 |
| 18 | 3.5 | 22 | 5.8 | 11 | 4.5 | 43 | 46 | 6.4 | 10 | 13 | 4.4 | 9.6 |
| 19 | 4.4 | 14 | 5.8 | 11 | 4.5 | 46 | 35 | 6.9 | 9.6 | 9.6 | 410 | 9.0 |
| 20 | 3.4 | 8.6 | 6.7 | 11 | 4.6 | 41 | 29 | 5.4 | 10 | 8.1 | 321 | 7.2 |
| 21 | 3.2 | 6.5 | 13 | 11 | 5.0 | 36 | 24 | 6.1 | 8.7 | 6.1 | 1000 | 5.9 |
| 22 | 2.0 | 4.9 | 11 | 12 | 50 | 30 | 20 | 4.9 | 7.8 | 219 | 189 | 5.9 |
| 23 | 3.9 | 6.0 | 9.2 | 14 | 300 | 29 | 19 | 4.4 | 7.8 | 33 | 172 | 4.9 |
| 24 | 4.8 | 4.5 | 7.1 | 15 | 1300 | 36 | 18 | 37 | 7.5 | 42 | 169 | 3.8 |
| 25 | 3.6 | 5.3 | 6.8 | 12 | 500 | 29 | 19 | 234 | 7.8 | 1180 | 74 | 3.6 |
| 26 | 12 | 5.0 | 6.4 | 11 | 300 | 21 | 18 | 253 | 7.8 | 946 | 55 | 3.2 |
| 27 | 3.3 | 6.2 | 5.6 | 9.4 | 220 | 19 | 17 | 90 | 8.1 | 428 | 121 | 3.0 |
| 28 | 1.8 | 5.6 | 4.9 | 8.4 | 160 | 18 | 33 | 66 | 8.7 | 247 | 120 | 3.2 |
| 29 | 1.6 | 5.2 | 4.7 | 7.6 | --- | 24 | 32 | 30 | 8.7 | 135 | 306 | 3.8 |
| 30 | 1.7 | 4.9 | 5.0 | 7.1 | --- | 30 | 22 | 18 | 248 | 57 | 92 | 4.0 |
| 31 | 2.5 | --- | 86 | 6.8 | --- | 46 | --- | 16 | --- | 33 | 52 | --- |
| TOTAL | 104.5 | 181.1 | 985.2 | 2108.3 | 2934.4 | 6286 | 3764 | 996.4 | 1338.4 | 5735.8 | 4983.3 | 495.1 |
| MEAN | 3.37 | 6.04 | 31.8 | 68.0 | 105 | 203 | 125 | 32.1 | 44.6 | 185 | 161 | 16.5 |
| MAX | 12 | 22 | 195 | 963 | 1300 | 2230 | 1080 | 253 | 404 | 1180 | 1000 | 69 |
| MIN | 1.5 | 1.3 | 4.2 | 6.8 | 4.5 | 18 | 17 | 4.4 | 7.5 | 6.1 | 4.4 | 3.0 |
| CFSM | .04 | .07 | .37 | .79 | 1.23 | 2.37 | 1.46 | .38 | .52 | 2.16 | 1.88 | .19 |
| IN. | .05 | .08 | .43 | .92 | 1.28 | 2.73 | 1.64 | .43 | .58 | 2.49 | 2.17 | .22 |

| CAL YR 1978 | TOTAL | 29008.7 | MEAN 79.5 | MAX 2400 | MIN 1.3 | CFSM .93 | IN 12.61 |
|-------------|-------|---------|-----------|----------|---------|----------|----------|
| WTR YR 1979 | TOTAL | 29912.5 | MEAN 82.0 | MAX 2230 | MIN 1.3 | CFSM .96 | IN 13.00 |

WABASH RIVER BASIN

03324300 SALAMONIE RIVER NEAR WARREN, IN

LOCATION.--Lat 40°42'45", long 85°27'13", in SE4SE4 sec.12, T.26 N., R.9 E., Huntington County, Hydrologic Unit 05120102, on right bank at downstream side of bridge on County Road 800 South, 0.4 mile (0.6 km) downstream from Detamore ditch, 0.4 mile (0.6 km) downstream from Interstate 69, 0.8 mile (1.3 km) upstream from concrete and stone dam, 2.4 miles (3.9 km) northwest of Warren, and at mile 30.0 (48.3 km).

DRAINAGE AREA.--425 mi² (1,101 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 784.65 ft (239.161 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 28, 1960, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--22 years, 383 ft³/s (10.85 m³/s), 12.24 in/yr (311 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s (374 m³/s) Feb. 10, 1959, gage height, 17.05 ft (5.197 m); minimum daily, 5.1 ft³/s (0.14 m³/s) Jan. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (84.96 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 25 | ---- | 4000 113 | ----- | Mar. 4 | 0100 | *9480 268 | *14.51 4.423 |

Minimum daily discharge, 17 ft³/s (0.48 m³/s) Nov. 2, 5.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1963 to September 1976 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|----------|----------|---------|-----------|----------|------|------|-------|-------|------|
| 1 | 20 | 18 | 73 | 2370 | 52 | 2490 | 449 | 146 | 81 | 225 | 211 | 101 |
| 2 | 22 | 17 | 66 | 2540 | 51 | 4410 | 417 | 122 | 72 | 196 | 1350 | 72 |
| 3 | 26 | 19 | 703 | 1000 | 51 | 5890 | 409 | 129 | 66 | 100 | 1760 | 58 |
| 4 | 30 | 19 | 1470 | 350 | 50 | 8320 | 328 | 164 | 60 | 76 | 645 | 169 |
| 5 | 30 | 17 | 771 | 190 | 49 | 7480 | 316 | 156 | 61 | 114 | 302 | 135 |
| 6 | 27 | 25 | 329 | 150 | 47 | 5250 | 323 | 133 | 1100 | 95 | 382 | 110 |
| 7 | 25 | 34 | 327 | 130 | 44 | 2750 | 243 | 115 | 1480 | 56 | 784 | 93 |
| 8 | 25 | 28 | 1010 | 115 | 43 | 1350 | 211 | 105 | 1640 | 46 | 280 | 80 |
| 9 | 26 | 28 | 975 | 105 | 42 | 1110 | 766 | 95 | 1350 | 561 | 162 | 70 |
| 10 | 29 | 31 | 582 | 96 | 41 | 1460 | 769 | 89 | 640 | 1190 | 222 | 58 |
| 11 | 30 | 36 | 287 | 90 | 40 | 862 | 845 | 88 | 356 | 1090 | 203 | 50 |
| 12 | 31 | 44 | 189 | 84 | 39 | 491 | 2550 | 97 | 225 | 354 | 131 | 45 |
| 13 | 32 | 46 | 150 | 80 | 39 | 420 | 2420 | 130 | 168 | 614 | 90 | 40 |
| 14 | 37 | 56 | 129 | 76 | 39 | 735 | 2400 | 141 | 139 | 1070 | 70 | 36 |
| 15 | 43 | 93 | 113 | 72 | 39 | 641 | 2440 | 135 | 115 | 968 | 58 | 33 |
| 16 | 53 | 76 | 106 | 68 | 40 | 426 | 1110 | 137 | 97 | 350 | 49 | 97 |
| 17 | 42 | 140 | 93 | 66 | 41 | 359 | 562 | 98 | 85 | 187 | 45 | 62 |
| 18 | 38 | 609 | 84 | 64 | 40 | 400 | 378 | 79 | 78 | 124 | 45 | 46 |
| 19 | 40 | 314 | 79 | 62 | 39 | 443 | 282 | 71 | 72 | 89 | 43 | 35 |
| 20 | 34 | 175 | 79 | 60 | 38 | 453 | 228 | 66 | 78 | 69 | 532 | 32 |
| 21 | 30 | 121 | 120 | 62 | 39 | 386 | 197 | 62 | 359 | 57 | 939 | 35 |
| 22 | 31 | 92 | 130 | 66 | 41 | 300 | 170 | 55 | 247 | 50 | 1350 | 36 |
| 23 | 33 | 87 | 105 | 74 | 100 | 260 | 147 | 51 | 124 | 191 | 554 | 34 |
| 24 | 32 | 131 | 88 | 80 | 500 | 278 | 137 | 56 | 77 | 120 | 330 | 36 |
| 25 | 34 | 127 | 76 | 73 | 4000 | 245 | 132 | 124 | 58 | 214 | 314 | 35 |
| 26 | 45 | 97 | 68 | 68 | 2000 | 191 | 131 | 752 | 49 | 1390 | 163 | 33 |
| 27 | 41 | 87 | 61 | 64 | 1200 | 154 | 129 | 536 | 45 | 1230 | 113 | 37 |
| 28 | 46 | 95 | 54 | 60 | 1400 | 223 | 148 | 247 | 46 | 688 | 141 | 43 |
| 29 | 39 | 92 | 50 | 57 | --- | 631 | 202 | 185 | 49 | 388 | 256 | 46 |
| 30 | 26 | 82 | 52 | 55 | --- | 687 | 181 | 124 | 61 | 234 | 426 | 49 |
| 31 | 21 | --- | 220 | 53 | --- | 624 | --- | 95 | --- | 171 | 177 | --- |
| TOTAL | 1018 | 2836 | 8639 | 8480 | 10144 | 49719 | 19020 | 4583 | 9078 | 12307 | 12127 | 1806 |
| MEAN | 32.8 | 94.5 | 279 | 274 | 362 | 1604 | 634 | 148 | 303 | 397 | 391 | 60.2 |
| MAX | 53 | 609 | 1470 | 2540 | 4000 | 8320 | 2550 | 752 | 1640 | 1390 | 1760 | 169 |
| MIN | 20 | 17 | 50 | 53 | 38 | 154 | 129 | 51 | 45 | 46 | 43 | 32 |
| CFSM | .08 | .22 | .66 | .65 | .85 | 3.77 | 1.49 | .35 | .71 | .93 | .92 | .14 |
| IN. | .09 | .25 | .76 | .74 | .89 | 4.35 | 1.66 | .40 | .79 | 1.08 | 1.06 | .16 |
| CAL YR 1978 | TOTAL | 157448.3 | MEAN 431 | MAX 9430 | MIN 8.3 | CFSM 1.01 | IN 13.78 | | | | | |
| WTR YR 1979 | TOTAL | 139757.0 | MEAN 383 | MAX 8320 | MIN 17 | CFSM .90 | IN 12.23 | | | | | |

03324450 SALAMONIE LAKE AT DORA, IN

LOCATION.--Lat 40°48'25", long 85°40'38", in SW¼NW¼ sec.7, T.27 N., R.8 E., Wabash County, Hydrologic Unit 05120102, 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 mi² (1,432 km²).

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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 hm³), elevation, 730 ft (222.5 m). Seasonal pool capacity is 60,700 acre-ft (74.8 hm³), elevation, 755 ft (230.1 m). Capacity at uncontrolled spillway elevation, 793 ft (241.7 m) is 263,000 acre-ft (325 hm³). Reservoir is used for flood control and recreation. Reservoir put in operation on Apr. 17, 1967.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 168,100 acre-ft (207 hm³) Mar. 30, 1978, elevation, 780.20 ft (237.805 m); minimum, 10,000 acre-ft (12.3 hm³) Mar. 11, 1969, elevation, 726.44 ft (221.419 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 111,788 acre-ft (138 hm³) Mar. 10, elevation, 769.22 ft (234.458 m); minimum, 12,796 acre-ft (15.8 hm³) Jan. 7, elevation, 729.68 ft (222.406 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 746.87 | 40,320 | |
| Oct. 31..... | 732.02 | 15,202 | -25,118 |
| Nov. 30..... | 730.12 | 13,222 | -1,980 |
| Dec. 31..... | 730.36 | 13,459 | +237 |
| CAL YR 1978..... | | | -45,041 |
| Jan. 31..... | 730.10 | 13,203 | -256 |
| Feb. 28..... | 748.06 | 42,987 | +29,874 |
| Mar. 31..... | 746.20 | 38,852 | -4,135 |
| Apr. 30..... | 753.13 | 55,520 | +16,668 |
| May 31..... | 755.13 | 61,066 | +5,546 |
| June 30..... | 755.13 | 61,066 | 0 |
| July 31..... | 756.39 | 64,760 | +3,694 |
| Aug. 31..... | 754.10 | 58,164 | -6,596 |
| Sept. 30..... | 745.16 | 36,634 | -21,530 |
| WTR YR 1979..... | | | -3,686 |

WABASH RIVER BASIN

03325000 WABASH RIVER AT WABASH, IN

LOCATION.--Lat 40°47'25", long 85°49'13", in SE¼NW¼ sec.14, T.27 N., R.6 E., Wabash County, Hydrologic Unit 05120101, on right bank on upstream side of Wabash Street bridge in Wabash, 7.1 miles (11.4 km) downstream from Salamonie River, and at mile 387.2 (623.0 km).

DRAINAGE AREA.--1,768 mi² (4,579 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 642.66 ft (195.883 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Huntington Lake (See sta 03323450) and Salamonie Lake (See sta 03324450).

AVERAGE DISCHARGE.--56 years, 1,482 ft³/s (41.97 m³/s), 11.38 in/yr (289 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,600 ft³/s (1,400 m³/s) May 18, 1943; maximum gage height, 24.44 (7.499 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 19 ft³/s (0.54 m³/s) July 21, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.7 ft (8.748 m) Mar. 26, 1913, from floodmark, determined by Corps of Engineers, discharge 90,000 ft³/s (2,550 m³/s), from rating curve extended above 49,000 ft³/s (1,390 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,200 ft³/s (290 m³/s) Mar. 4, gage height, 13.86 ft (4.225 m); minimum daily, 118 ft³/s (3.34 m³/s) Nov. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|---------|----------|----------|-------|-------|-------|
| 1 | 512 | 516 | 280 | 2810 | 260 | 3000 | 3880 | 622 | 952 | 281 | 1990 | 808 |
| 2 | 503 | 496 | 235 | 3110 | 250 | 4500 | 3020 | 488 | 584 | 251 | 3100 | 334 |
| 3 | 512 | 437 | 527 | 2390 | 240 | 6010 | 2510 | 557 | 511 | 259 | 1920 | 322 |
| 4 | 508 | 129 | 2080 | 1750 | 234 | 9840 | 2440 | 807 | 510 | 288 | 1860 | 347 |
| 5 | 507 | 146 | 3100 | 1300 | 225 | 9250 | 2390 | 603 | 399 | 279 | 1820 | 254 |
| 6 | 512 | 145 | 2240 | 1040 | 220 | 8020 | 1670 | 562 | 349 | 280 | 1780 | 200 |
| 7 | 502 | 147 | 1290 | 900 | 212 | 6900 | 1270 | 538 | 401 | 287 | 2950 | 161 |
| 8 | 499 | 159 | 2140 | 840 | 210 | 7080 | 899 | 460 | 572 | 244 | 2810 | 154 |
| 9 | 494 | 155 | 2790 | 780 | 208 | 7500 | 1260 | 414 | 575 | 404 | 2370 | 150 |
| 10 | 491 | 137 | 1390 | 740 | 207 | 7650 | 1580 | 395 | 610 | 895 | 2010 | 200 |
| 11 | 490 | 126 | 750 | 700 | 204 | 7900 | 1940 | 379 | 917 | 884 | 1110 | 303 |
| 12 | 489 | 120 | 600 | 660 | 202 | 7360 | 3440 | 384 | 2490 | 994 | 1760 | 764 |
| 13 | 481 | 118 | 455 | 640 | 202 | 6960 | 2970 | 371 | 2540 | 1050 | 2040 | 737 |
| 14 | 485 | 234 | 375 | 620 | 200 | 7500 | 2660 | 358 | 2120 | 1450 | 1480 | 726 |
| 15 | 502 | 328 | 330 | 590 | 200 | 6710 | 2630 | 442 | 2290 | 2090 | 646 | 1440 |
| 16 | 574 | 203 | 310 | 564 | 199 | 5230 | 2430 | 596 | 1590 | 2090 | 465 | 1460 |
| 17 | 624 | 356 | 290 | 540 | 198 | 5140 | 3230 | 478 | 409 | 2620 | 356 | 939 |
| 18 | 642 | 521 | 280 | 520 | 200 | 5080 | 3410 | 429 | 391 | 2510 | 303 | 677 |
| 19 | 614 | 655 | 282 | 495 | 202 | 5080 | 3000 | 372 | 353 | 1730 | 265 | 692 |
| 20 | 614 | 688 | 300 | 465 | 209 | 4740 | 3120 | 305 | 313 | 1290 | 281 | 707 |
| 21 | 670 | 452 | 310 | 450 | 219 | 4320 | 3030 | 289 | 299 | 600 | 306 | 645 |
| 22 | 633 | 429 | 280 | 430 | 233 | 4270 | 2380 | 287 | 521 | 316 | 461 | 695 |
| 23 | 574 | 360 | 260 | 410 | 430 | 3920 | 2320 | 277 | 798 | 247 | 694 | 697 |
| 24 | 574 | 356 | 240 | 388 | 1300 | 3970 | 2200 | 254 | 763 | 232 | 1470 | 692 |
| 25 | 583 | 354 | 220 | 365 | 3000 | 3840 | 1750 | 261 | 636 | 1880 | 1880 | 687 |
| 26 | 610 | 344 | 204 | 350 | 2800 | 3660 | 1440 | 392 | 351 | 1700 | 1700 | 682 |
| 27 | 619 | 318 | 195 | 330 | 2350 | 3200 | 1650 | 687 | 235 | 884 | 884 | 692 |
| 28 | 592 | 275 | 190 | 312 | 2200 | 2650 | 1460 | 1010 | 205 | 666 | 666 | 710 |
| 29 | 587 | 259 | 198 | 300 | --- | 4450 | 1390 | 1210 | 206 | 1110 | 1110 | 705 |
| 30 | 610 | 289 | 262 | 285 | --- | 6800 | 977 | 1200 | 221 | 1360 | 1360 | 702 |
| 31 | 666 | --- | 438 | 270 | --- | 6380 | --- | 1120 | --- | 1560 | 1560 | --- |
| TOTAL | 17273 | 9252 | 22841 | 25344 | 16814 | 178910 | 68346 | 16547 | 23111 | 30731 | 43407 | 18282 |
| MEAN | 557 | 308 | 737 | 818 | 601 | 5771 | 2278 | 534 | 770 | 991 | 1400 | 609 |
| MAX | 670 | 688 | 3100 | 3110 | 3000 | 9840 | 3880 | 1210 | 2540 | 2620 | 3100 | 1460 |
| MIN | 481 | 118 | 190 | 270 | 198 | 2650 | 899 | 254 | 205 | 232 | 265 | 150 |
| CFSM | .32 | .17 | .42 | .46 | .34 | 3.26 | 1.29 | .30 | .44 | .56 | .79 | .34 |
| IN. | .36 | .19 | .48 | .53 | .35 | 3.76 | 1.44 | .35 | .49 | .65 | .91 | .38 |
| CAL YR 1978 | TOTAL | 584715 | MEAN | 1602 | MAX | 11300 | MIN 118 | CFSM .91 | IN 12.30 | | | |
| WTR YR 1979 | TOTAL | 470858 | MEAN | 1290 | MAX | 9840 | MIN 118 | CFSM .73 | IN 9.91 | | | |

03325500 MISSISSINewa RIVER NEAR RIDGEVILLE, IN

LOCATION.--Lat 40°16'49", long 84°59'44", in SE¼SE¼ sec.7, T.21 N., R.14 E., Randolph County, Hydrologic Unit 05120103, on right bank 10 ft (3 m) downstream from highway bridge, 0.8 mile (1.3 km) downstream from Mud Creek, 2 miles (3 km) east of Ridgeville, and at mile 99.5 (160.0 km).

DRAINAGE AREA.--133 mi² (344 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1235: 1948. WSP 1335: 1953. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft (294.217 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--33 years, 125 ft³/s (3.540 m³/s), 12.76 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s (394 m³/s) June 10, 1958, gage height, 16.25 ft (4.953 m) from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 ft³/s (0.003 m³/s) Oct. 24, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,400 ft³/s (68.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Mar. 4 | 1800 | 3460 | 98.0 | 12.14 | 3.700 | July 29 | 0500 | 3010 | 85.2 | 11.74 | 3.578 |
| Apr. 14 | 0400 | 2620 | 74.2 | 11.31 | 3.447 | Aug. 2 | 0500 | 3220 | 91.2 | 11.94 | 3.639 |
| July 15 | 0100 | 3000 | 85.0 | 11.73 | 3.575 | Aug. 21 | 0800 | 2640 | 74.8 | 11.67 | 3.557 |
| July 26 | 1000 | *4260 | 121 | *12.72 | 3.877 | | | | | | |

Minimum daily discharge, 3.1 ft³/s (0.088 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|-----------|----------|------|------|-------|-------|------|
| 1 | 4.2 | 5.6 | 8.0 | 1860 | 18 | 300 | 84 | 46 | 53 | 106 | 722 | 96 |
| 2 | 3.2 | 5.6 | 7.8 | 969 | 18 | 250 | 124 | 43 | 40 | 52 | 2850 | 77 |
| 3 | 3.5 | 5.5 | 260 | 283 | 17 | 1380 | 102 | 51 | 35 | 33 | 1100 | 65 |
| 4 | 3.8 | 5.6 | 468 | 149 | 16 | 3130 | 99 | 53 | 32 | 27 | 302 | 63 |
| 5 | 4.2 | 5.6 | 152 | 80 | 16 | 2800 | 145 | 43 | 33 | 21 | 182 | 51 |
| 6 | 5.4 | 5.0 | 81 | 68 | 15 | 995 | 110 | 40 | 1200 | 18 | 143 | 43 |
| 7 | 4.8 | 4.7 | 67 | 60 | 15 | 570 | 86 | 37 | 463 | 16 | 95 | 34 |
| 8 | 4.0 | 5.8 | 341 | 54 | 14 | 465 | 86 | 34 | 228 | 15 | 69 | 29 |
| 9 | 3.2 | 6.0 | 418 | 49 | 14 | 401 | 196 | 32 | 150 | 303 | 62 | 26 |
| 10 | 3.1 | 5.7 | 133 | 46 | 13 | 449 | 153 | 29 | 108 | 852 | 58 | 24 |
| 11 | 4.3 | 5.8 | 82 | 44 | 13 | 211 | 578 | 29 | 93 | 177 | 42 | 24 |
| 12 | 6.1 | 5.2 | 60 | 44 | 13 | 138 | 1470 | 30 | 64 | 80 | 30 | 22 |
| 13 | 15 | 4.7 | 50 | 43 | 13 | 141 | 771 | 35 | 51 | 619 | 25 | 23 |
| 14 | 12 | 8.4 | 42 | 42 | 13 | 255 | 1850 | 28 | 43 | 2740 | 22 | 270 |
| 15 | 8.5 | 11 | 36 | 39 | 13 | 165 | 574 | 27 | 36 | 2490 | 20 | 108 |
| 16 | 7.1 | 6.5 | 32 | 37 | 13 | 131 | 293 | 24 | 31 | 456 | 18 | 51 |
| 17 | 7.0 | 34 | 29 | 36 | 13 | 136 | 181 | 22 | 28 | 173 | 17 | 33 |
| 18 | 5.6 | 82 | 24 | 34 | 13 | 136 | 127 | 21 | 27 | 93 | 18 | 27 |
| 19 | 5.8 | 29 | 25 | 33 | 13 | 127 | 99 | 22 | 27 | 64 | 765 | 24 |
| 20 | 5.6 | 16 | 37 | 33 | 13 | 115 | 83 | 21 | 26 | 48 | 472 | 21 |
| 21 | 5.0 | 13 | 170 | 45 | 13 | 103 | 73 | 19 | 25 | 40 | 2300 | 21 |
| 22 | 4.8 | 11 | 83 | 37 | 15 | 93 | 63 | 19 | 22 | 95 | 1190 | 20 |
| 23 | 4.5 | 11 | 57 | 34 | 100 | 95 | 58 | 19 | 19 | 41 | 573 | 16 |
| 24 | 4.8 | 11 | 45 | 30 | 1700 | 115 | 56 | 26 | 17 | 141 | 315 | 15 |
| 25 | 5.7 | 9.0 | 35 | 26 | 1000 | 88 | 57 | 212 | 15 | 2040 | 180 | 15 |
| 26 | 6.6 | 8.0 | 27 | 25 | 700 | 72 | 58 | 346 | 15 | 3740 | 255 | 14 |
| 27 | 7.2 | 8.3 | 22 | 23 | 540 | 64 | 52 | 193 | 15 | 3040 | 655 | 14 |
| 28 | 6.8 | 9.8 | 20 | 22 | 400 | 62 | 78 | 129 | 14 | 1340 | 519 | 15 |
| 29 | 6.0 | 8.7 | 18 | 21 | --- | 78 | 66 | 75 | 88 | 2230 | 706 | 15 |
| 30 | 5.1 | 8.4 | 17 | 20 | --- | 79 | 57 | 56 | 486 | 567 | 235 | 13 |
| 31 | 5.0 | --- | 355 | 19 | --- | 83 | --- | 53 | --- | 308 | 134 | --- |
| TOTAL | 177.9 | 355.9 | 3201.8 | 4305 | 4754 | 13227 | 7829 | 1814 | 3484 | 21965 | 14074 | 1269 |
| MEAN | 5.74 | 11.9 | 103 | 139 | 170 | 427 | 261 | 58.5 | 116 | 709 | 454 | 42.3 |
| MAX | 15 | 82 | 468 | 1860 | 1700 | 3130 | 1850 | 346 | 1200 | 3740 | 2850 | 270 |
| MIN | 3.1 | 4.7 | 7.8 | 19 | 13 | 62 | 52 | 19 | 14 | 15 | 17 | 13 |
| CFSM | .04 | .09 | .77 | 1.05 | 1.28 | 3.21 | 1.96 | .44 | .87 | 5.33 | 3.41 | .32 |
| IN. | .05 | .10 | .90 | 1.20 | 1.33 | 3.70 | 2.19 | .51 | .97 | 6.14 | 3.94 | .35 |
| CAL YR 1978 | TOTAL | 44088.2 | MEAN 121 | MAX 3430 | MIN 3.1 | CFSM .91 | IN 12.33 | | | | | |
| WTR YR 1979 | TOTAL | 76456.6 | MEAN 209 | MAX 3740 | MIN 3.1 | CFSM 1.57 | IN 21.38 | | | | | |

WABASH RIVER BASIN

03325500 MISSISSINewa RIVER NEAR RIDGEVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: March 1975 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|-------|------|-----------------------------|---|---|--|---|---|
| OCT | | | | | | | |
| 10... | 1150 | 12.0 | 3.1 | 12 | .10 | -- | -- |
| NOV | | | | | | | |
| 14... | 1500 | 12.0 | 8.3 | 13 | .29 | -- | -- |
| DEC | | | | | | | |
| 19... | 1145 | 1.5 | 25 | 8 | .54 | -- | -- |
| MAR | | | | | | | |
| 15... | 1550 | 2.5 | 151 | 39 | 15 | 95 | -- |
| APR | | | | | | | |
| 23... | 1145 | 12.5 | 57 | 29 | 4.4 | -- | -- |
| JUN | | | | | | | |
| 05... | 1435 | 21.0 | 29 | 13 | 1.0 | -- | -- |
| AUG | | | | | | | |
| 21... | 1615 | -- | 2190 | 195 | 1150 | 97 | 98 |
| 22... | 1610 | -- | 1100 | 266 | 790 | 97 | 99 |

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|-------|---|---|--|--|--|--|--|
| OCT | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | |
| 19... | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | |
| 21... | 99 | 100 | 74 | 88 | 90 | 93 | 96 |
| 22... | 100 | -- | -- | -- | -- | -- | -- |

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN

LOCATION.--Lat 40°25'20", long 85°21'04", in SE¼SE¼ sec.23, T.23 N., R.10 E., Blackford County, Hydrologic Unit 05120103, 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 mi² (75.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft (263.652 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 26.5 ft³/s (0.750 m³/s), 12.32 in/yr (313 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 792 ft³/s (22.4 m³/s) Feb. 10, 1976, gage height, 13.70 ft (4.176 m); maximum gage height, 13.98 ft (4.261 m) Feb. 23, 1975; minimum daily discharge, 0.38 ft³/s (0.011 m³/s) Sept. 25, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 275 ft³/s (7.79 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Dec. 3 | 1700 | 311 | 8.81 | 9.57 | 2.917 | Apr. 14 | 0400 | 276 | 7.82 | 9.15 | 2.789 |
| Jan. 1 | 0200 | 411 | 11.6 | 10.69 | 3.258 | June 7 | 2400 | 441 | 12.5 | 11.01 | 3.356 |
| Mar. 3 | 2200 | *578 | 16.4 | *12.30 | 3.749 | Aug. 2 | 0100 | 281 | 7.96 | 9.21 | 2.807 |
| Apr. 11 | 2000 | 291 | 8.24 | 9.33 | 2.844 | | | | | | |

Minimum daily discharge, 0.96 ft³/s (0.03 m³/s) Sept. 24.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|
| 1 | 1.5 | 3.2 | 5.1 | 352 | 3.4 | 75 | 19 | 7.7 | 4.6 | 4.1 | 39 | 4.8 |
| 2 | 1.1 | 3.2 | 4.5 | 146 | 3.4 | 150 | 27 | 7.1 | 3.8 | 3.5 | 161 | 4.5 |
| 3 | 1.1 | 3.6 | 163 | 66 | 3.3 | 300 | 18 | 15 | 3.5 | 3.5 | 40 | 4.5 |
| 4 | 1.2 | 3.9 | 128 | 25 | 3.1 | 504 | 14 | 13 | 3.2 | 3.8 | 20 | 39 |
| 5 | 1.1 | 3.8 | 36 | 10 | 2.9 | 195 | 18 | 9.1 | 4.3 | 3.7 | 13 | 6.9 |
| 6 | 1.4 | 4.3 | 19 | 8.2 | 2.8 | 102 | 13 | 7.8 | 146 | 3.3 | 8.6 | 3.5 |
| 7 | 1.4 | 4.5 | 31 | 7.4 | 2.6 | 82 | 10 | 7.0 | 137 | 3.1 | 6.6 | 2.7 |
| 8 | 1.3 | 5.3 | 98 | 6.9 | 2.5 | 74 | 11 | 6.3 | 274 | 3.3 | 5.5 | 1.9 |
| 9 | 1.3 | 4.5 | 67 | 6.6 | 2.3 | 69 | 77 | 5.8 | 87 | 16 | 6.7 | 1.4 |
| 10 | 1.3 | 4.0 | 20 | 6.2 | 2.1 | 80 | 38 | 5.3 | 38 | 11 | 6.4 | 1.3 |
| 11 | 1.4 | 4.0 | 12 | 6.0 | 2.0 | 30 | 124 | 5.2 | 21 | 4.3 | 6.1 | 1.4 |
| 12 | 2.7 | 3.9 | 10 | 6.0 | 1.9 | 18 | 219 | 9.3 | 12 | 3.7 | 5.0 | 1.4 |
| 13 | 3.9 | 4.1 | 8.0 | 6.0 | 1.8 | 20 | 109 | 14 | 9.0 | 52 | 4.5 | 1.5 |
| 14 | 2.8 | 20 | 7.0 | 5.6 | 1.7 | 46 | 187 | 7.7 | 7.5 | 17 | 4.4 | 3.4 |
| 15 | 3.2 | 11 | 6.0 | 5.2 | 1.6 | 26 | 68 | 9.0 | 7.5 | 7.8 | 4.3 | 2.1 |
| 16 | 2.5 | 5.5 | 5.4 | 4.8 | 1.6 | 21 | 35 | 6.6 | 6.2 | 4.9 | 4.0 | 1.2 |
| 17 | 2.3 | 125 | 4.9 | 4.5 | 1.5 | 22 | 23 | 5.3 | 5.5 | 3.9 | 4.1 | 1.0 |
| 18 | 2.4 | 97 | 4.5 | 4.2 | 1.5 | 25 | 16 | 5.0 | 5.8 | 3.3 | 4.7 | 1.3 |
| 19 | 3.1 | 29 | 5.8 | 3.8 | 1.5 | 24 | 13 | 4.6 | 6.7 | 2.8 | 8.4 | 1.3 |
| 20 | 3.1 | 14 | 6.7 | 4.4 | 1.4 | 21 | 11 | 4.4 | 6.2 | 2.5 | 11 | 1.3 |
| 21 | 3.4 | 10 | 12 | 6.9 | 1.4 | 17 | 9.9 | 4.0 | 5.5 | 2.2 | 22 | 1.3 |
| 22 | 4.0 | 8.8 | 8.1 | 5.6 | 1.4 | 14 | 8.8 | 3.6 | 4.6 | 2.6 | 8.7 | 1.4 |
| 23 | 5.8 | 11 | 6.2 | 4.8 | 15 | 15 | 8.0 | 3.5 | 3.7 | 2.2 | 6.1 | 1.2 |
| 24 | 7.5 | 13 | 5.0 | 4.2 | 250 | 16 | 7.8 | 6.0 | 3.5 | 3.5 | 14 | .96 |
| 25 | 9.2 | 8.4 | 4.0 | 3.9 | 130 | 11 | 8.1 | 39 | 3.3 | 27 | 7.7 | 1.0 |
| 26 | 16 | 7.7 | 3.3 | 3.7 | 80 | 8.5 | 8.2 | 36 | 3.3 | 23 | 5.3 | 1.0 |
| 27 | 6.7 | 8.1 | 2.8 | 3.5 | 50 | 7.4 | 7.7 | 13 | 3.1 | 7.8 | 7.0 | 1.5 |
| 28 | 3.8 | 9.0 | 2.2 | 3.4 | 40 | 7.6 | 16 | 9.0 | 3.1 | 4.7 | 9.6 | 1.9 |
| 29 | 2.9 | 6.7 | 2.8 | 3.3 | --- | 15 | 11 | 6.2 | 3.5 | 4.5 | 18 | 2.5 |
| 30 | 2.9 | 5.8 | 4.9 | 3.2 | --- | 18 | 9.2 | 5.1 | 5.5 | 3.3 | 8.5 | 2.9 |
| 31 | 3.0 | --- | 96 | 3.3 | --- | 26 | --- | 4.8 | --- | 4.5 | 5.5 | --- |
| TOTAL | 105.3 | 442.3 | 789.2 | 730.6 | 612.7 | 2039.5 | 1144.7 | 285.4 | 827.9 | 242.8 | 475.7 | 102.06 |
| MEAN | 3.40 | 14.7 | 25.5 | 23.6 | 21.9 | 65.8 | 38.2 | 9.21 | 27.6 | 7.83 | 15.3 | 3.40 |
| MAX | 16 | 125 | 163 | 352 | 250 | 504 | 219 | 39 | 274 | 52 | 161 | 39 |
| MIN | 1.1 | 3.2 | 2.2 | 3.2 | 1.4 | 7.4 | 7.7 | 3.5 | 3.1 | 2.2 | 4.0 | .96 |
| CFSM | .12 | .50 | .87 | .81 | .75 | 2.25 | 1.31 | .32 | .95 | .27 | .52 | .12 |
| IN. | .13 | .56 | 1.01 | .93 | .78 | 2.60 | 1.46 | .36 | 1.05 | .31 | .61 | .13 |

CAL YR 1978 TOTAL 10471.39 MEAN 28.7 MAX 615 MIN .64 CFSM .98 IN 13.34
WTR YR 1979 TOTAL 7798.16 MEAN 21.4 MAX 504 MIN .96 CFSM .73 IN 9.93

03326500 MISSISSINewa RIVER AT MARION, IN

LOCATION.--Lat 40°34'34", long 85°39'34", in SE¼NE¼ sec.31, T.25 N., R.8 E., Grant County, Hydrologic Unit 05120103, on left bank 12 ft (4 m) downstream from Highland Avenue bridge in Marion, 0.1 mile (0.2 km) downstream from old mill dam, 1.0 mile (2.0 km) upstream from Hummel Creek, 4.6 miles (7.4 km) downstream from Luwar Creek, and at mile 35.8 (57.6 km).

DRAINAGE AREA.--682 mi² (1,766 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1335: 1927(M), WSP 1385: 1948. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 774.56 ft (236.086 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow periodically regulated by dam above station.

AVERAGE DISCHARGE.--56 years, 627 ft³/s (17.76 m³/s), 12.48 in/yr (317 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/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 ft³/s (510 m³/s); minimum daily, 3.4 ft³/s (0.096 m³/s) Oct. 25, 1968.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 5,600 ft³/s (158 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|---------|---|-------------------------|
| Feb. 24 | 1200 | 8340 236 | 9.76 2.975 | Apr. 14 | unknown | 7500 212 | unknown |
| Mar. 4 | 1500 | *12500 354 | *12.02 3.664 | | | | |

Minimum daily discharge, 26 ft³/s (0.736 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1 | 54 | 61 | 108 | 2360 | 150 | 1240 | 475 | 283 | 218 | 172 | 1210 | 388 |
| 2 | 54 | 68 | 102 | 3820 | 145 | 2400 | 560 | 258 | 199 | 264 | 2710 | 293 |
| 3 | 52 | 67 | 223 | 3160 | 140 | 4450 | 555 | 264 | 193 | 270 | 3900 | 247 |
| 4 | 54 | 66 | 242 | 1660 | 135 | 11800 | 550 | 282 | 173 | 194 | 3400 | 238 |
| 5 | 58 | 68 | 528 | 774 | 130 | 10400 | 620 | 280 | 181 | 156 | 1310 | 313 |
| 6 | 58 | 66 | 872 | 505 | 125 | 6830 | 570 | 261 | 300 | 132 | 656 | 227 |
| 7 | 56 | 68 | 612 | 425 | 125 | 3680 | 535 | 243 | 2000 | 121 | 298 | 183 |
| 8 | 56 | 67 | 1090 | 372 | 120 | 2090 | 500 | 231 | 1300 | 122 | 264 | 159 |
| 9 | 54 | 68 | 1320 | 341 | 120 | 1720 | 860 | 221 | 1000 | 231 | 407 | 142 |
| 10 | 54 | 67 | 1290 | 315 | 120 | 1870 | 1000 | 215 | 850 | 526 | 300 | 129 |
| 11 | 58 | 66 | 702 | 290 | 118 | 1430 | 2000 | 213 | 679 | 998 | 258 | 121 |
| 12 | 63 | 68 | 425 | 275 | 118 | 918 | 4800 | 233 | 496 | 681 | 240 | 116 |
| 13 | 83 | 72 | 334 | 260 | 118 | 713 | 3500 | 240 | 411 | 248 | 207 | 111 |
| 14 | 91 | 119 | 278 | 240 | 118 | 863 | 7000 | 248 | 347 | 248 | 182 | 116 |
| 15 | 86 | 156 | 243 | 228 | 118 | 887 | 3500 | 271 | 292 | 533 | 161 | 112 |
| 16 | 83 | 143 | 215 | 218 | 119 | 733 | 1630 | 242 | 251 | 2510 | 149 | 283 |
| 17 | 78 | 198 | 191 | 208 | 120 | 624 | 1100 | 207 | 222 | 2130 | 142 | 213 |
| 18 | 86 | 241 | 170 | 200 | 120 | 628 | 756 | 191 | 220 | 618 | 143 | 158 |
| 19 | 80 | 242 | 156 | 190 | 123 | 647 | 424 | 183 | 217 | 384 | 187 | 131 |
| 20 | 75 | 263 | 162 | 180 | 126 | 637 | 248 | 180 | 234 | 289 | 271 | 117 |
| 21 | 73 | 243 | 178 | 175 | 135 | 568 | 248 | 172 | 398 | 234 | 1120 | 191 |
| 22 | 70 | 179 | 230 | 210 | 150 | 496 | 347 | 164 | 191 | 199 | 2520 | 26 |
| 23 | 68 | 170 | 331 | 250 | 500 | 463 | 334 | 153 | 190 | 175 | 2740 | 81 |
| 24 | 63 | 204 | 231 | 230 | 6680 | 480 | 309 | 152 | 160 | 270 | 1580 | 92 |
| 25 | 66 | 192 | 195 | 210 | 7090 | 440 | 299 | 171 | 141 | 528 | 875 | 91 |
| 26 | 73 | 151 | 160 | 190 | 3380 | 410 | 294 | 228 | 128 | 1310 | 561 | 89 |
| 27 | 70 | 141 | 135 | 180 | 2010 | 380 | 296 | 247 | 120 | 2580 | 425 | 85 |
| 28 | 88 | 138 | 120 | 170 | 1400 | 350 | 312 | 248 | 116 | 3630 | 788 | 83 |
| 29 | 88 | 134 | 110 | 160 | --- | 400 | 323 | 379 | 117 | 3410 | 658 | 82 |
| 30 | 80 | 119 | 100 | 160 | --- | 425 | 323 | 318 | 123 | 2440 | 1130 | 81 |
| 31 | 68 | --- | 181 | 155 | --- | 450 | --- | 253 | --- | 2430 | 627 | --- |
| TOTAL | 2140 | 3905 | 11234 | 18111 | 23853 | 59422 | 34268 | 7231 | 11467 | 28033 | 29419 | 4698 |
| MEAN | 69.0 | 130 | 362 | 584 | 852 | 1917 | 1142 | 233 | 382 | 904 | 949 | 157 |
| MAX | 91 | 263 | 1320 | 3820 | 7090 | 11800 | 7000 | 379 | 2000 | 3630 | 3900 | 388 |
| MIN | 52 | 61 | 100 | 155 | 118 | 350 | 248 | 152 | 116 | 121 | 142 | 26 |
| CFSM | .10 | .19 | .53 | .86 | 1.25 | 2.81 | 1.67 | .34 | .56 | 1.33 | 1.39 | .23 |
| IN. | .12 | .21 | .61 | .99 | 1.30 | 3.24 | 1.87 | .39 | .63 | 1.53 | 1.60 | .26 |
| CAL YR 1978 | TOTAL | 219269.1 | MEAN | 601 | MAX | 10400 | MIN | 8.1 | CFSM | .88 | IN | 11.96 |
| WTR YR 1979 | TOTAL | 233781.0 | MEAN | 640 | MAX | 11800 | MIN | 26 | CFSM | .94 | IN | 12.75 |

WATER-QUALITY RECORDS

WATER TEMPERATURE: November 1975 to September 1976, February 1979 to current year.

[illegible]

[illegible]

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

03326500 MISSISSINewa RIVER AT MARION, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

03326950 MISSISSINEWA LAKE AT PEORIA, IN

LOCATION.--Lat 40°42'52", long 85°57'27", in NW¼SW¼ sec.10, T.26 N., R.5 E., Miami County, Hydrologic Unit 05120103, 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 mi² (2,090 km²).

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers)

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 hm³), elevation, 712 ft (217.0 m). Seasonal pool capacity is 75,200 acre-ft (92.7 hm³), elevation, 737 ft (224.6 m). Capacity of uncontrolled spillway elevation, 779 ft (237.4 m) is 368,400 acre-ft (454 hm³). Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 212,290 acre-ft (262 hm³) Mar. 28, 1978, elevation, 763.54 ft (232.727 m); minimum, 22,890 acre-ft (28.2 hm³) Dec. 11, 1974, elevation, 711.69 ft (216.923 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 155,490 acre-ft (192 hm³) Mar. 11, elevation, 755.02 ft (230.130 m); minimum, 23,230 acre-ft (28.6 hm³) Dec. 27, elevation, 711.95 ft (217.002 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 736.15 | 72,530 | |
| Oct. 31..... | 728.79 | 52,890 | -19,640 |
| Nov. 30..... | 712.34 | 23,730 | -29,160 |
| Dec. 31..... | 712.42 | 23,830 | +100 |
| CAL YR 1978..... | | | -76,720 |
| Jan. 31..... | 712.15 | 23,480 | -350 |
| Feb. 28..... | 734.55 | 67,770 | +44,290 |
| Mar. 31..... | 729.96 | 55,670 | -12,100 |
| Apr. 30..... | 737.04 | 75,310 | +19,640 |
| May 31..... | 737.05 | 75,340 | +30 |
| June 30..... | 737.15 | 75,660 | +320 |
| July 31..... | 743.05 | 96,890 | +21,230 |
| Aug. 31..... | 737.10 | 75,500 | -21,390 |
| Sept. 30..... | 736.15 | 72,530 | -2,970 |
| WTR YR 1979..... | | | 0 |

03327500 WABASH RIVER AT PERU, IN

LOCATION.--Lat 40°44'35", long 86°05'45", in SE¼NE¼ sec.32, T.27 N., R.4 E., Miami County, Hydrologic Unit 05120101, on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mile (0.8 km) southwest of Peru, 4.4 miles (7.1 km) downstream from Mississinewa River, and at mile 370.5 (596.1 km).

DRAINAGE AREA.--2,686 mi² (6,956 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area. WRD Ind. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 617.94 ft (188.348 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

REMARKS.--Records good except winter periods, which are fair. Flow regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

AVERAGE DISCHARGE.--36 years, 2,343 ft³/s (66.35 m³/s), 11.85 in/yr (301 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,000 ft³/s (1,930 m³/s) May 18, 1943, gage height, 24.46 ft (7.455 m), from floodmark; minimum daily, 72 ft³/s (2.04 m³/s) Oct. 5, 1946.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 28.1 ft (8.56 m), discharge, 115,000 ft³/s (3,260 m³/s), from rating curve extended above 63,000 ft³/s (1,780 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,100 ft³/s (315 m³/s) Mar. 4, gage height, 10.47 ft (3.191 m); minimum daily, 307 ft³/s (8.69 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1 | 610 | 1190 | 582 | 3090 | 470 | 3300 | 5540 | 1370 | 1340 | 389 | 2550 | 1920 |
| 2 | 620 | 1140 | 390 | 4530 | 450 | 4000 | 4050 | 1160 | 1050 | 633 | 3740 | 993 |
| 3 | 620 | 1150 | 631 | 3400 | 385 | 10700 | 3320 | 965 | 744 | 913 | 2260 | 670 |
| 4 | 620 | 935 | 3040 | 2750 | 370 | 10100 | 3140 | 1240 | 754 | 630 | 1980 | 606 |
| 5 | 615 | 732 | 5370 | 2150 | 350 | 10000 | 3110 | 1190 | 753 | 524 | 1960 | 583 |
| 6 | 618 | 745 | 4500 | 1800 | 340 | 8500 | 2360 | 1100 | 641 | 470 | 2080 | 553 |
| 7 | 620 | 745 | 2550 | 1650 | 335 | 7380 | 1930 | 1050 | 837 | 448 | 3810 | 513 |
| 8 | 620 | 738 | 2980 | 1500 | 330 | 7880 | 1440 | 986 | 1970 | 445 | 4080 | 473 |
| 9 | 620 | 731 | 4360 | 1400 | 330 | 8560 | 1590 | 911 | 2060 | 868 | 4010 | 395 |
| 10 | 620 | 719 | 2500 | 1350 | 320 | 8640 | 1970 | 878 | 2090 | 2030 | 4110 | 349 |
| 11 | 594 | 694 | 1100 | 1270 | 320 | 9250 | 2380 | 806 | 2040 | 1920 | 3560 | 307 |
| 12 | 588 | 681 | 800 | 1200 | 320 | 9310 | 4290 | 769 | 3160 | 1950 | 3660 | 699 |
| 13 | 625 | 668 | 690 | 1150 | 320 | 9190 | 3790 | 762 | 3820 | 1920 | 4090 | 882 |
| 14 | 625 | 817 | 610 | 1100 | 320 | 10000 | 3150 | 728 | 3680 | 1390 | 4000 | 858 |
| 15 | 643 | 986 | 550 | 1050 | 320 | 9750 | 3180 | 774 | 3510 | 2540 | 3700 | 1240 |
| 16 | 1010 | 964 | 520 | 1000 | 320 | 8280 | 3000 | 908 | 3030 | 2640 | 3520 | 1770 |
| 17 | 1080 | 1120 | 500 | 940 | 320 | 8720 | 4200 | 858 | 1880 | 3430 | 3610 | 1710 |
| 18 | 1240 | 1510 | 490 | 890 | 320 | 8600 | 4290 | 820 | 951 | 4050 | 2790 | 1080 |
| 19 | 1320 | 2080 | 480 | 820 | 320 | 8920 | 4250 | 761 | 845 | 4210 | 1570 | 1030 |
| 20 | 1320 | 1930 | 470 | 790 | 320 | 9150 | 3880 | 649 | 735 | 4250 | 940 | 1030 |
| 21 | 1440 | 1390 | 460 | 750 | 350 | 8980 | 4540 | 592 | 761 | 3410 | 1120 | 1050 |
| 22 | 1410 | 1270 | 430 | 730 | 400 | 8860 | 4320 | 567 | 911 | 1480 | 1810 | 911 |
| 23 | 1260 | 1100 | 410 | 690 | 500 | 8560 | 3820 | 519 | 1040 | 759 | 2130 | 958 |
| 24 | 1240 | 1020 | 375 | 660 | 1900 | 8580 | 4140 | 464 | 1000 | 645 | 2870 | 924 |
| 25 | 1220 | 949 | 350 | 630 | 4100 | 8300 | 3210 | 452 | 971 | 747 | 3550 | 918 |
| 26 | 1290 | 993 | 330 | 600 | 3500 | 7860 | 3570 | 494 | 670 | 1530 | 3530 | 904 |
| 27 | 1290 | 1120 | 320 | 570 | 3200 | 7320 | 3200 | 865 | 498 | 2040 | 2850 | 898 |
| 28 | 1220 | 1080 | 310 | 530 | 2750 | 5830 | 2510 | 1670 | 406 | 2190 | 2360 | 911 |
| 29 | 1190 | 1020 | 320 | 500 | --- | 5680 | 2410 | 1950 | 372 | 2250 | 2210 | 911 |
| 30 | 1210 | 879 | 430 | 470 | --- | 8360 | 1920 | 1820 | 379 | 2300 | 2240 | 911 |
| 31 | 1350 | --- | 756 | 445 | --- | 8740 | --- | 1610 | --- | 2420 | 2770 | --- |
| TOTAL | 29348 | 31096 | 37604 | 40405 | 23580 | 257300 | 98500 | 29688 | 42898 | 55421 | 89460 | 26957 |
| MEAN | 947 | 1037 | 1213 | 1303 | 842 | 8300 | 3283 | 958 | 1430 | 1788 | 2886 | 899 |
| MAX | 1440 | 2080 | 5370 | 4530 | 4100 | 10700 | 5540 | 1950 | 3820 | 4250 | 4110 | 1920 |
| MIN | 588 | 668 | 310 | 445 | 320 | 3300 | 1440 | 452 | 372 | 389 | 940 | 307 |
| CFSM | .35 | .39 | .45 | .49 | .31 | 3.09 | 1.22 | .36 | .53 | .67 | 1.07 | .34 |
| IN. | .41 | .43 | .52 | .56 | .33 | 3.56 | 1.36 | .41 | .59 | .77 | 1.24 | .37 |
| CAL YR 1978 | TOTAL | 964400 | MEAN | 2642 | MAX | 15000 | MIN | 310 | CFSM | .98 | IN | 13.36 |
| WTR YR 1979 | TOTAL | 762257 | MEAN | 2088 | MAX | 10700 | MIN | 307 | CFSM | .78 | IN | 10.56 |

03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¼Sec. 29, T.26 N., R.4 E., Miami County, Hydrologic Unit 05120101, on right bank 150 ft (46 m) downstream from bridge on County Road 125 West, 0.5 mile (0.8 km) northeast of Bunker Hill, and at mile 11.4 (18.3 km).

DRAINAGE AREA.--159 mi² (412 km²).

WATER-DISCHARGE RECORDS

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 (224.333 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 143 ft³/s (4.050 m³/s), 12.21 in/yr (310 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft³/s (112 m³/s) Jan. 21, 1974, gage height, 14.93 ft (4.551 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Feb. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 0700 | 1930 54.6 | 10.53 3.210 | July 14 | 1600 | 1090 30.9 | 7.93 2.417 |
| Mar. 5 | 0800 | *2200 62.3 | *11.33 3.453 | | | | |

Minimum daily discharge, 10 ft³/s (0.283 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|-------|------|------|------|------|------|-------|
| 1 | 11 | 13 | 21 | 384 | 30 | 720 | 597 | 87 | 33 | 41 | 134 | 42 |
| 2 | 11 | 13 | 20 | 455 | 28 | 905 | 450 | 81 | 30 | 37 | 289 | 38 |
| 3 | 12 | 13 | 147 | 188 | 28 | 1090 | 352 | 90 | 29 | 33 | 271 | 35 |
| 4 | 11 | 14 | 317 | 140 | 27 | 1810 | 301 | 83 | 28 | 35 | 170 | 33 |
| 5 | 12 | 13 | 233 | 100 | 26 | 2130 | 313 | 75 | 27 | 33 | 116 | 36 |
| 6 | 12 | 13 | 134 | 88 | 25 | 1480 | 281 | 73 | 523 | 28 | 87 | 30 |
| 7 | 11 | 14 | 107 | 78 | 24 | 692 | 221 | 69 | 538 | 25 | 64 | 27 |
| 8 | 11 | 14 | 290 | 72 | 24 | 551 | 209 | 65 | 367 | 37 | 51 | 24 |
| 9 | 11 | 14 | 334 | 67 | 23 | 490 | 451 | 61 | 302 | 300 | 52 | 23 |
| 10 | 10 | 14 | 217 | 64 | 22 | 476 | 481 | 59 | 341 | 549 | 53 | 21 |
| 11 | 12 | 14 | 137 | 61 | 21 | 377 | 553 | 59 | 192 | 325 | 45 | 21 |
| 12 | 13 | 14 | 99 | 58 | 21 | 275 | 955 | 59 | 122 | 159 | 37 | 20 |
| 13 | 13 | 14 | 82 | 62 | 21 | 261 | 705 | 60 | 125 | 381 | 33 | 20 |
| 14 | 14 | 32 | 68 | 64 | 21 | 471 | 472 | 56 | 131 | 1050 | 29 | 20 |
| 15 | 15 | 28 | 61 | 57 | 23 | 419 | 375 | 67 | 95 | 825 | 27 | 18 |
| 16 | 14 | 18 | 55 | 53 | 22 | 302 | 285 | 81 | 77 | 386 | 25 | 17 |
| 17 | 13 | 23 | 48 | 50 | 21 | 272 | 225 | 68 | 68 | 238 | 24 | 17 |
| 18 | 13 | 51 | 41 | 47 | 21 | 317 | 182 | 61 | 63 | 160 | 25 | 15 |
| 19 | 14 | 53 | 40 | 45 | 21 | 359 | 151 | 60 | 81 | 111 | 38 | 15 |
| 20 | 14 | 37 | 39 | 44 | 21 | 332 | 130 | 58 | 118 | 85 | 136 | 14 |
| 21 | 13 | 28 | 41 | 50 | 22 | 277 | 117 | 53 | 469 | 70 | 186 | 14 |
| 22 | 14 | 23 | 47 | 47 | 40 | 234 | 102 | 49 | 307 | 59 | 136 | 15 |
| 23 | 14 | 23 | 45 | 45 | 718 | 348 | 90 | 47 | 157 | 50 | 162 | 14 |
| 24 | 13 | 26 | 40 | 47 | 1870 | 477 | 89 | 46 | 99 | 55 | 358 | 14 |
| 25 | 13 | 25 | 38 | 43 | 1300 | 339 | 91 | 45 | 65 | 215 | 278 | 14 |
| 26 | 14 | 24 | 35 | 40 | 890 | 239 | 90 | 42 | 58 | 246 | 153 | 13 |
| 27 | 17 | 24 | 32 | 38 | 740 | 187 | 86 | 41 | 51 | 167 | 102 | 13 |
| 28 | 16 | 27 | 30 | 41 | 600 | 304 | 116 | 39 | 46 | 104 | 79 | 13 |
| 29 | 17 | 25 | 27 | 38 | --- | 614 | 107 | 37 | 44 | 78 | 69 | 13 |
| 30 | 16 | 23 | 27 | 35 | --- | 838 | 100 | 35 | 46 | 62 | 64 | 13 |
| 31 | 17 | --- | 41 | 33 | --- | 878 | --- | 33 | --- | 56 | 51 | --- |
| TOTAL | 411 | 667 | 2893 | 2634 | 6650 | 18464 | 8677 | 1839 | 4632 | 6000 | 3344 | 622 |
| MEAN | 13.3 | 22.2 | 93.3 | 85.0 | 238 | 596 | 289 | 59.3 | 154 | 194 | 108 | 20.7 |
| MAX | 17 | 53 | 334 | 455 | 1870 | 2130 | 955 | 90 | 538 | 1050 | 358 | 42 |
| MIN | 10 | 13 | 20 | 33 | 21 | 187 | 86 | 33 | 27 | 25 | 24 | 13 |
| CFSM | .08 | .14 | .59 | .54 | 1.50 | 3.75 | 1.82 | .37 | .97 | 1.22 | .68 | .13 |
| IN. | .10 | .16 | .68 | .62 | 1.56 | 4.32 | 2.03 | .43 | 1.08 | 1.40 | .78 | .15 |
| CAL YR 1978 | TOTAL | 48240.1 | MEAN | 132 | MAX | 2110 | MIN | 9.1 | CFSM | .83 | IN | 11.29 |
| WTR YR 1979 | TOTAL | 56833.0 | MEAN | 156 | MAX | 2130 | MIN | 10 | CFSM | .98 | IN | 13.30 |

WABASH RIVER BASIN

03327520 PIPE CREEK NEAR BUNKER HILL, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|--------------|------|-----------------------------|---|---|--|---|---|
| OCT 31... | 1240 | 9.0 | 15 | 44 | 1.8 | -- | -- |
| MAY 14... | 1500 | 16.5 | 54 | 22 | 3.2 | -- | -- |
| JUN 25... | 1655 | 18.5 | 73 | 100 | 19 | -- | -- |
| AUG 06... | 1500 | -- | 81 | 65 | 14 | 76 | 100 |
| SEP 17... | 1435 | -- | 16 | 40 | 1.7 | 92 | -- |

03328000 EEL RIVER AT NORTH MANCHESTER, IN

LOCATION.--Lat 40°59'55", long 85°45'50", in NE¼NE¼ sec.5, T.29 N., R.7 E., Wabash County, Hydrologic Unit 05120104, on right bank 200 ft (61 m) downstream from Main Street bridge in North Manchester, 1.3 miles (2.1 km) upstream from Pony Creek, and at mile 52.7 (84.8 km).

DRAINAGE AREA.--417 mi² (1,080 km²), includes that of Pony Creek.

PERIOD OF RECORD.--October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Gage-height records since November 20, 1923 are available in the district office.

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

GAGE.--Water-stage recorder. Datum of gage is 738.00 ft (224.942 m) National Geodetic Vertical Datum of 1929. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street bridge, 700 ft (213 m) upstream at same datum.

REMARKS.--Records fair except those for winter periods and those below 95 ft³/s (2.690 m³/s), which are poor. Records include flow of Pony Creek.

AVERAGE DISCHARGE.--50 years, 352 ft³/s (9.97 m³/s), 11.46 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,940 ft³/s (225 m³/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 ft³/s (0.45 m³/s) Oct. 19, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,200 ft³/s (62.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 1800 | *4100 116 | *10.06 3.066 | Mar. 31 | 1100 | 2700 76.5 | 7.56 2.304 |

Minimum daily discharge, 54 ft³/s (1.53 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1 | 60 | 58 | 79 | 1450 | 84 | 700 | 2100 | 417 | 124 | 120 | 535 | 105 |
| 2 | 62 | 58 | 85 | 950 | 82 | 1300 | 1570 | 363 | 120 | 101 | 485 | 100 |
| 3 | 65 | 58 | 252 | 660 | 80 | 2450 | 1060 | 477 | 117 | 88 | 412 | 95 |
| 4 | 63 | 58 | 520 | 450 | 79 | 3890 | 808 | 612 | 111 | 80 | 482 | 121 |
| 5 | 65 | 57 | 350 | 300 | 78 | 3570 | 900 | 482 | 106 | 79 | 327 | 99 |
| 6 | 65 | 57 | 270 | 230 | 77 | 2910 | 743 | 398 | 105 | 74 | 294 | 90 |
| 7 | 63 | 62 | 250 | 180 | 76 | 2460 | 587 | 343 | 105 | 80 | 216 | 83 |
| 8 | 60 | 62 | 640 | 150 | 75 | 2010 | 531 | 301 | 108 | 86 | 163 | 80 |
| 9 | 58 | 62 | 530 | 130 | 74 | 1530 | 1120 | 269 | 106 | 90 | 165 | 80 |
| 10 | 60 | 60 | 450 | 125 | 74 | 1230 | 1060 | 246 | 102 | 80 | 220 | 77 |
| 11 | 58 | 60 | 360 | 120 | 73 | 946 | 965 | 286 | 97 | 76 | 232 | 74 |
| 12 | 60 | 58 | 280 | 118 | 73 | 760 | 1920 | 312 | 92 | 72 | 217 | 72 |
| 13 | 57 | 58 | 230 | 115 | 73 | 678 | 1530 | 378 | 89 | 71 | 171 | 72 |
| 14 | 60 | 165 | 200 | 112 | 73 | 1030 | 1030 | 321 | 93 | 69 | 141 | 79 |
| 15 | 65 | 140 | 185 | 110 | 73 | 889 | 773 | 473 | 100 | 68 | 120 | 76 |
| 16 | 66 | 101 | 170 | 108 | 74 | 676 | 614 | 409 | 122 | 66 | 107 | 71 |
| 17 | 60 | 112 | 160 | 106 | 75 | 602 | 514 | 317 | 123 | 62 | 104 | 68 |
| 18 | 58 | 165 | 145 | 104 | 76 | 614 | 446 | 267 | 242 | 59 | 134 | 68 |
| 19 | 62 | 135 | 135 | 102 | 77 | 684 | 392 | 234 | 295 | 57 | 122 | 66 |
| 20 | 57 | 107 | 132 | 100 | 78 | 652 | 358 | 212 | 197 | 57 | 133 | 66 |
| 21 | 57 | 90 | 128 | 99 | 83 | 572 | 328 | 192 | 138 | 57 | 245 | 65 |
| 22 | 57 | 81 | 122 | 98 | 90 | 503 | 307 | 174 | 116 | 57 | 315 | 62 |
| 23 | 57 | 83 | 115 | 96 | 230 | 501 | 284 | 163 | 104 | 57 | 289 | 62 |
| 24 | 57 | 89 | 110 | 95 | 640 | 651 | 279 | 154 | 122 | 80 | 300 | 58 |
| 25 | 56 | 82 | 102 | 94 | 2000 | 585 | 356 | 155 | 108 | 210 | 249 | 58 |
| 26 | 62 | 77 | 95 | 93 | 1100 | 467 | 411 | 156 | 96 | 320 | 195 | 58 |
| 27 | 65 | 82 | 86 | 91 | 940 | 400 | 498 | 154 | 83 | 159 | 162 | 57 |
| 28 | 63 | 81 | 80 | 90 | 800 | 527 | 610 | 145 | 83 | 186 | 142 | 57 |
| 29 | 62 | 75 | 74 | 89 | --- | 2010 | 540 | 135 | 95 | 165 | 131 | 57 |
| 30 | 62 | 77 | 72 | 87 | --- | 2420 | 473 | 129 | 127 | 140 | 122 | 54 |
| 31 | 60 | --- | 306 | 85 | --- | 2570 | --- | 125 | --- | 720 | 114 | --- |
| TOTAL | 1882 | 2510 | 6713 | 6737 | 7407 | 40787 | 23107 | 8799 | 3626 | 3686 | 7044 | 2230 |
| MEAN | 60.7 | 83.7 | 217 | 217 | 265 | 1316 | 770 | 284 | 121 | 119 | 227 | 74.3 |
| MAX | 66 | 165 | 640 | 1450 | 2000 | 3890 | 2100 | 612 | 295 | 720 | 535 | 121 |
| MIN | 56 | 57 | 72 | 85 | 73 | 400 | 279 | 125 | 83 | 57 | 104 | 54 |
| CFSM | .15 | .20 | .52 | .52 | .64 | 3.16 | 1.85 | .68 | .29 | .29 | .54 | .18 |
| IN. | .17 | .22 | .60 | .60 | .66 | 3.64 | 2.06 | .78 | .32 | .33 | .63 | .20 |

| | | | | | | | |
|-------------|-------|--------|----------|----------|--------|----------|----------|
| CAL YR 1978 | TOTAL | 133569 | MEAN 366 | MAX 4490 | MIN 56 | CFSM .88 | IN 11.92 |
| WTR YR 1979 | TOTAL | 114528 | MEAN 314 | MAX 3890 | MIN 54 | CFSM .75 | IN 10.22 |

WABASH RIVER BASIN

03328430 WEESAU CREEK NEAR DEEDSVILLE, IN

LOCATION.--Lat 40°54'34", long 86°07'36", in NW¼NW¼ sec.6, T.28 N., R.4 E., Miami County, Hydrologic Unit 05120104, on left bank 100 ft (30 m) downstream from bridge on County Road 1000 North, and 1.5 miles (2.4 km) west of Deedsville.

DRAINAGE AREA.--8.87 mi² (22.97 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 785.00 ft (239.268 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 9.24 ft³/s (0.262 m³/s), 14.15 in/yr (359 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 284 ft³/s (8.04 m³/s) Mar. 3, 1979, gage height, 5.86 ft (1.786 m); minimum daily, 0.26 ft³/s (0.07 m³/s) Feb. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 75 ft³/s (2.12 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Dec. 31 | 2100 | 103 | 2.92 | 3.93 | 1.198 | Mar. 28 | 2000 | 205 | 5.81 | 5.10 | 1.554 |
| Feb. 23 | 2200 | 146 | 4.13 | 4.48 | 1.366 | Mar. 31 | 0400 | 93 | 2.63 | 3.78 | 1.152 |
| Mar. 3 | 2200 | *284 | 8.04 | *5.86 | 1.786 | Apr. 12 | 0400 | 112 | 3.17 | 4.05 | 1.234 |

Minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Oct. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|--------|-------|-------|-------|-------|------|-------|
| 1 | 1.1 | .87 | 1.4 | 47 | 2.0 | 51 | 33 | 12 | 2.7 | 2.8 | 8.6 | 1.2 |
| 2 | .92 | .90 | 1.5 | 14 | 2.1 | 60 | 23 | 9.7 | 2.6 | 2.5 | 12 | 1.2 |
| 3 | .87 | .89 | 20 | 7.9 | 2.2 | 115 | 17 | 29 | 2.6 | 2.4 | 5.9 | 1.2 |
| 4 | .77 | .89 | 11 | 5.0 | 2.3 | 188 | 24 | 17 | 2.4 | 2.4 | 4.4 | 1.2 |
| 5 | .96 | .90 | 5.9 | 4.1 | 2.2 | 76 | 31 | 12 | 2.6 | 2.2 | 3.5 | 1.1 |
| 6 | .87 | .89 | 4.4 | 3.5 | 2.2 | 48 | 17 | 9.0 | 2.6 | 2.1 | 3.0 | 1.2 |
| 7 | .79 | .96 | 14 | 3.1 | 2.1 | 38 | 14 | 7.6 | 2.8 | 2.0 | 2.7 | 1.1 |
| 8 | .74 | .95 | 23 | 2.7 | 2.1 | 26 | 16 | 6.8 | 3.0 | 2.1 | 2.4 | 1.1 |
| 9 | .73 | .88 | 9.3 | 2.5 | 2.0 | 21 | 43 | 6.1 | 3.2 | 2.3 | 2.5 | 1.1 |
| 10 | .73 | .88 | 5.7 | 2.4 | 2.0 | 16 | 22 | 5.7 | 2.5 | 2.0 | 2.6 | 1.1 |
| 11 | .86 | .88 | 4.3 | 2.3 | 1.9 | 8.2 | 46 | 6.9 | 2.3 | 1.9 | 2.9 | 1.1 |
| 12 | .80 | .92 | 3.8 | 2.2 | 1.9 | 6.0 | 76 | 11 | 2.2 | 1.9 | 2.3 | 1.1 |
| 13 | .76 | 1.0 | 3.5 | 2.1 | 1.9 | 8.4 | 34 | 13 | 2.4 | 1.9 | 2.1 | 1.1 |
| 14 | .79 | 3.8 | 3.2 | 2.1 | 1.8 | 16 | 21 | 8.7 | 2.2 | 1.8 | 2.0 | 1.1 |
| 15 | .76 | 1.7 | 2.9 | 2.1 | 1.8 | 10 | 14 | 19 | 2.1 | 1.7 | 2.0 | 1.0 |
| 16 | .76 | 1.2 | 2.7 | 2.0 | 1.8 | 8.6 | 11 | 9.9 | 2.1 | 1.6 | 1.9 | .96 |
| 17 | .74 | 2.0 | 2.6 | 2.0 | 1.8 | 8.0 | 8.5 | 7.2 | 2.1 | 1.6 | 2.3 | .96 |
| 18 | .77 | 2.0 | 2.6 | 2.0 | 1.8 | 8.5 | 7.5 | 6.1 | 2.2 | 1.5 | 2.6 | .96 |
| 19 | .84 | 1.4 | 2.6 | 2.0 | 1.8 | 10 | 7.2 | 5.4 | 2.6 | 1.5 | 2.1 | .98 |
| 20 | .73 | 1.2 | 2.7 | 2.1 | 1.9 | 10 | 6.7 | 4.9 | 23 | 1.5 | 3.5 | .96 |
| 21 | .70 | 1.1 | 2.5 | 2.1 | 2.2 | 8.8 | 6.4 | 4.4 | 30 | 1.5 | 2.5 | 1.0 |
| 22 | .73 | 1.0 | 2.4 | 2.1 | 3.2 | 7.9 | 6.0 | 4.1 | 8.7 | 1.5 | 1.8 | 1.0 |
| 23 | .78 | 1.2 | 2.3 | 2.1 | 35 | 24 | 5.7 | 3.9 | 5.3 | 1.4 | 2.0 | .97 |
| 24 | .84 | 1.2 | 2.4 | 2.1 | 44 | 21 | 7.2 | 3.7 | 3.8 | 6.9 | 2.2 | .96 |
| 25 | .95 | 1.1 | 2.2 | 2.1 | 20 | 12 | 14 | 3.6 | 3.2 | 23 | 1.6 | .98 |
| 26 | 1.1 | 1.1 | 2.0 | 2.0 | 11 | 9.3 | 22 | 3.3 | 2.8 | 9.8 | 1.4 | .99 |
| 27 | .82 | 1.2 | 1.9 | 2.0 | 6.0 | 8.2 | 22 | 3.3 | 2.7 | 5.1 | 1.4 | 1.0 |
| 28 | .82 | 1.2 | 1.8 | 2.0 | 4.7 | 54 | 40 | 3.1 | 2.6 | 10 | 1.3 | 1.0 |
| 29 | .81 | 1.2 | 1.8 | 1.9 | --- | 80 | 20 | 3.0 | 3.1 | 5.2 | 1.3 | 1.0 |
| 30 | .82 | 1.4 | 3.9 | 1.9 | --- | 62 | 17 | 2.9 | 4.0 | 21 | 1.3 | 1.0 |
| 31 | .84 | --- | 39 | 1.9 | --- | 63 | --- | 2.8 | --- | 12 | 1.2 | --- |
| TOTAL | 25.50 | 36.81 | 189.3 | 135.3 | 165.7 | 1082.9 | 632.2 | 245.1 | 136.4 | 137.1 | 89.3 | 31.62 |
| MEAN | .82 | 1.23 | 6.11 | 4.36 | 5.92 | 34.9 | 21.1 | 7.91 | 4.55 | 4.42 | 2.88 | 1.05 |
| MAX | 1.1 | 3.8 | 39 | 47 | 44 | 188 | 76 | 29 | 30 | 23 | 12 | 1.2 |
| MIN | .70 | .87 | 1.4 | 1.9 | 1.8 | 6.0 | 5.7 | 2.8 | 2.1 | 1.4 | 1.2 | .96 |
| CFSM | .09 | .14 | .69 | .49 | .67 | 3.94 | 2.38 | .89 | .51 | .50 | .33 | .12 |
| IN. | .11 | .15 | .79 | .57 | .69 | 4.54 | 2.65 | 1.03 | .57 | .57 | .37 | .13 |
| CAL YR 1978 | TOTAL | 2844.21 | MEAN | 7.79 | MAX | 162 | MIN | .70 | CFSM | .88 | IN | 11.93 |
| WTR YR 1979 | TOTAL | 2907.23 | MEAN | 7.97 | MAX | 188 | MIN | .70 | CFSM | .90 | IN | 12.19 |

03328500 EEL RIVER NEAR LOGANSPOET, IN

LOCATION.--Lat 40°46'55", long 86°15'50", in NE¼SE¼ sec.14, T.27 N., R.2 E., Cass County, Hydrologic Unit 05120105, on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles (8.8 km) northeast of Logansport, and 7.4 miles (11.9 km) upstream from mouth.

DRAINAGE AREA.--789 mi² (2,044 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 621.50 ft (189.433 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--36 years, 726 ft³/s (20.56 m³/s), 12.49 in/yr (317 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/s (402 m³/s) Dec. 9, 1966, gage height, 12.20 ft (3.719 m); minimum daily, 70 ft³/s (1.98 m³/s) Mar. 15, 1960, results of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 13.2 ft (4.02 m), from floodmark, discharge, 17,000 ft³/s (481 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 5,000 ft³/s (142 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 25 | 0300 | 6390 181 | 8.48 2.585 | Mar. 4 | 1200 | *8220 233 | *46 2.883 |

Minimum daily discharge, 143 ft³/s (4.05 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| 1 | 143 | 158 | 194 | 1760 | 168 | 1930 | 3930 | 876 | 308 | 276 | 1200 | 214 |
| 2 | 145 | 156 | 197 | 1910 | 166 | 3690 | 2830 | 762 | 304 | 249 | 1120 | 203 |
| 3 | 152 | 158 | 261 | 760 | 164 | 4490 | 2160 | 876 | 292 | 228 | 818 | 196 |
| 4 | 151 | 158 | 603 | 540 | 160 | 7820 | 1680 | 1110 | 284 | 219 | 644 | 193 |
| 5 | 155 | 158 | 840 | 410 | 158 | 7370 | 1820 | 974 | 276 | 208 | 708 | 193 |
| 6 | 159 | 158 | 560 | 355 | 157 | 5370 | 1630 | 804 | 280 | 198 | 505 | 198 |
| 7 | 158 | 159 | 472 | 315 | 156 | 3890 | 1270 | 695 | 276 | 191 | 424 | 182 |
| 8 | 155 | 158 | 762 | 280 | 154 | 3150 | 1130 | 619 | 273 | 187 | 355 | 173 |
| 9 | 151 | 159 | 1080 | 257 | 154 | 2630 | 1760 | 564 | 276 | 208 | 292 | 169 |
| 10 | 149 | 159 | 735 | 240 | 152 | 2190 | 2100 | 522 | 273 | 214 | 269 | 166 |
| 11 | 153 | 160 | 487 | 230 | 151 | 1740 | 1900 | 511 | 265 | 203 | 304 | 164 |
| 12 | 156 | 161 | 400 | 224 | 150 | 1370 | 3860 | 588 | 249 | 193 | 322 | 164 |
| 13 | 152 | 163 | 350 | 219 | 152 | 1180 | 3260 | 695 | 252 | 191 | 308 | 162 |
| 14 | 153 | 240 | 324 | 215 | 154 | 1390 | 2100 | 695 | 249 | 187 | 273 | 160 |
| 15 | 155 | 279 | 302 | 212 | 155 | 1620 | 1430 | 776 | 237 | 184 | 240 | 160 |
| 16 | 159 | 275 | 275 | 210 | 157 | 1240 | 1110 | 928 | 228 | 178 | 219 | 158 |
| 17 | 157 | 238 | 258 | 212 | 159 | 1040 | 913 | 735 | 219 | 173 | 208 | 156 |
| 18 | 158 | 239 | 245 | 216 | 158 | 978 | 797 | 625 | 222 | 169 | 219 | 153 |
| 19 | 160 | 262 | 237 | 218 | 156 | 1050 | 708 | 564 | 237 | 164 | 231 | 151 |
| 20 | 158 | 249 | 233 | 222 | 154 | 1100 | 644 | 534 | 269 | 160 | 276 | 149 |
| 21 | 158 | 222 | 231 | 226 | 157 | 1010 | 600 | 494 | 540 | 158 | 292 | 147 |
| 22 | 155 | 204 | 228 | 226 | 172 | 905 | 564 | 461 | 676 | 158 | 288 | 147 |
| 23 | 152 | 205 | 220 | 220 | 640 | 960 | 528 | 435 | 494 | 155 | 414 | 147 |
| 24 | 151 | 202 | 218 | 212 | 3850 | 1410 | 528 | 414 | 336 | 178 | 456 | 144 |
| 25 | 154 | 200 | 215 | 202 | 6020 | 1240 | 656 | 399 | 269 | 284 | 429 | 144 |
| 26 | 160 | 202 | 207 | 195 | 4310 | 989 | 825 | 389 | 240 | 440 | 384 | 144 |
| 27 | 161 | 203 | 196 | 188 | 2120 | 834 | 990 | 379 | 225 | 511 | 309 | 144 |
| 28 | 164 | 202 | 188 | 180 | 1440 | 899 | 1320 | 364 | 216 | 322 | 269 | 144 |
| 29 | 162 | 198 | 182 | 175 | --- | 3260 | 1250 | 345 | 214 | 345 | 252 | 144 |
| 30 | 160 | 194 | 178 | 172 | --- | 4340 | 1000 | 327 | 243 | 336 | 237 | 144 |
| 31 | 158 | --- | 330 | 170 | --- | 4750 | --- | 318 | --- | 545 | 222 | --- |
| TOTAL | 4814 | 5879 | 11208 | 11171 | 21844 | 75835 | 45293 | 18778 | 8722 | 7412 | 12487 | 4913 |
| MEAN | 155 | 196 | 362 | 360 | 780 | 2446 | 1510 | 606 | 291 | 239 | 403 | 164 |
| MAX | 164 | 279 | 1080 | 1910 | 6020 | 7820 | 3930 | 1110 | 676 | 545 | 1200 | 214 |
| MIN | 143 | 156 | 178 | 170 | 150 | 834 | 528 | 318 | 214 | 155 | 208 | 144 |
| CFSM | .20 | .25 | .46 | .46 | .99 | 3.10 | 1.91 | .77 | .37 | .30 | .51 | .21 |
| IN. | .23 | .28 | .53 | .53 | 1.03 | 3.58 | 2.14 | .89 | .41 | .35 | .59 | .23 |

| CAL YR 1978 | TOTAL | 259659 | MEAN 711 | MAX 8020 | MIN 136 | CFSM .90 | IN 12.24 |
|-------------|-------|--------|----------|----------|---------|----------|----------|
| WTR YR 1979 | TOTAL | 228356 | MEAN 626 | MAX 7820 | MIN 143 | CFSM .79 | IN 10.77 |

WABASH RIVER BASIN

03328500 EEL RIVER NEAR LOGANSPOET, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: October 1969 to current year.

SEDIMENT DISCHARGE: August 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 30.0°C June 29, 1971, July 15, 19, 21, 1977, July 21, 1978; minimum, freezing point on many days during winter periods.

SEDIMENT CONCENTRATION: Maximum daily, 1,790 mg/L June 15, 1975; minimum daily, 5 mg/L Jan. 17 to Feb. 7, 20, 21, 1977.

SEDIMENT DISCHARGE: Maximum daily, 26,400 tons (23,900 tonnes) June 15, 1975; minimum daily, 0.68 tons (0.62 tonnes) Nov. 6, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.0°C July 29; minimum, freezing point on many days during winter period.

SEDIMENT CONCENTRATION: Maximum daily, 888 mg/L March 29; minimum daily, 8 mg/L Nov. 25, may have been less during period of ice effect.

SEDIMENT DISCHARGE: Maximum daily, 13,000 tons (11,800 tonnes) Mar. 4; minimum daily, 4.3 tons (3.9 tonnes) Nov. 6-8, 25, Dec. 30

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-----|------|-----|------|------|------|------|------|------|------|
| 1 | 17.0 | --- | --- | 1.0 | --- | 2.0 | 9.0 | 14.0 | 20.0 | --- | 23.0 | 27.0 |
| 2 | --- | 12.0 | 4.0 | --- | --- | 2.0 | 8.0 | 16.0 | 20.0 | 25.0 | 23.0 | --- |
| 3 | 16.0 | --- | --- | --- | --- | 2.0 | 8.0 | 15.0 | 23.0 | --- | 22.0 | 27.0 |
| 4 | --- | 14.0 | 2.0 | --- | --- | 2.0 | 7.0 | 13.0 | 23.0 | 23.0 | 24.0 | 27.0 |
| 5 | 14.0 | --- | 3.0 | --- | --- | 2.0 | 8.0 | 14.0 | 23.0 | --- | 27.0 | 24.0 |
| 6 | --- | 13.0 | 2.0 | --- | --- | 3.0 | 6.0 | 12.0 | 23.0 | 25.0 | 25.0 | --- |
| 7 | 13.0 | --- | 4.0 | --- | --- | --- | 6.0 | 15.0 | --- | --- | --- | 23.0 |
| 8 | --- | 10.0 | --- | --- | --- | --- | 7.0 | 22.0 | 22.0 | --- | 27.0 | --- |
| 9 | 15.0 | --- | 3.0 | --- | --- | --- | 5.0 | 24.0 | --- | 21.0 | --- | 25.0 |
| 10 | --- | 12.0 | 1.0 | --- | --- | --- | 6.0 | 23.0 | 25.0 | 26.0 | 27.0 | --- |
| 11 | 16.0 | --- | --- | --- | --- | 2.0 | 6.0 | 22.0 | --- | --- | --- | 25.0 |
| 12 | --- | 10.0 | 3.0 | --- | --- | 4.0 | 9.0 | 17.0 | 20.0 | 26.0 | 25.0 | --- |
| 13 | 14.0 | --- | --- | --- | --- | 7.0 | 11.0 | 18.0 | --- | --- | --- | 24.0 |
| 14 | --- | 11.0 | 2.0 | --- | --- | 5.0 | 12.0 | 17.0 | 21.0 | 25.0 | 22.0 | --- |
| 15 | 10.0 | --- | --- | --- | --- | 4.0 | 10.0 | 17.0 | --- | --- | --- | 20.0 |
| 16 | --- | 8.0 | 4.0 | --- | --- | 6.0 | 11.0 | 15.0 | 24.0 | 27.0 | 22.0 | --- |
| 17 | 11.0 | --- | --- | --- | --- | 7.0 | 12.0 | 18.0 | --- | --- | --- | 21.0 |
| 18 | --- | 8.0 | 3.0 | .0 | --- | 11.0 | 14.0 | 22.0 | 23.0 | 26.0 | 23.0 | --- |
| 19 | 12.0 | --- | --- | --- | --- | 10.0 | 14.0 | 20.0 | --- | --- | --- | 20.0 |
| 20 | --- | 6.0 | 4.0 | --- | --- | 11.0 | 16.0 | 19.0 | 22.0 | 25.0 | 25.0 | --- |
| 21 | 15.0 | --- | --- | --- | --- | 9.0 | 17.0 | 19.0 | --- | --- | --- | --- |
| 22 | --- | 6.0 | 3.0 | --- | --- | 12.0 | 17.0 | 20.0 | 26.0 | 23.0 | 22.0 | --- |
| 23 | 14.0 | --- | --- | --- | --- | 12.0 | 18.0 | 20.0 | --- | --- | --- | 18.0 |
| 24 | --- | 5.0 | 3.0 | --- | 1.0 | 9.0 | 17.0 | --- | 22.0 | 25.0 | 25.0 | --- |
| 25 | 11.0 | --- | --- | --- | 1.0 | 6.0 | 17.0 | 18.0 | --- | --- | --- | 17.0 |
| 26 | --- | 5.0 | 1.0 | --- | 1.0 | 5.0 | 15.0 | --- | 25.0 | 26.0 | 23.0 | --- |
| 27 | 12.0 | --- | --- | --- | 3.0 | 5.0 | 15.0 | 18.0 | --- | 25.0 | --- | 20.0 |
| 28 | --- | 3.0 | 2.0 | --- | 3.0 | 5.0 | 11.0 | --- | 25.0 | --- | --- | --- |
| 29 | 11.0 | --- | --- | --- | --- | 8.0 | 10.0 | 16.0 | --- | 28.0 | 23.0 | 21.0 |
| 30 | --- | 3.0 | 3.0 | --- | --- | 10.0 | 11.0 | --- | 24.0 | --- | 26.0 | --- |
| 31 | 11.0 | --- | --- | --- | --- | 9.0 | --- | 21.0 | --- | 25.0 | --- | --- |
| MEAN | 13.5 | 8.5 | 3.0 | .5 | 2.0 | 6.5 | 11.0 | 18.0 | 23.0 | 25.0 | 24.0 | 22.5 |
| MAX | 17.0 | 14.0 | 4.0 | 1.0 | 3.0 | 12.0 | 18.0 | 24.0 | 26.0 | 28.0 | 27.0 | 27.0 |
| MIN | 10.0 | 3.0 | 1.0 | .0 | 1.0 | 2.0 | 5.0 | 12.0 | 20.0 | 21.0 | 22.0 | 17.0 |
| WTR YR 1979 | MEAN | 14.5 | MAX | 28.0 | MIN | .0 | | | | | | |

03328500 EEL RIVER NEAR LOGANSPOET, IN--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 33 | 13 | 14 | 6.0 | 14 | 7.3 | | | --- | --- | 90 | 575 |
| 2 | 30 | 12 | 13 | 5.5 | 14 | 7.4 | | | --- | --- | 271 | 2820 |
| 3 | 26 | 11 | 12 | 5.1 | 40 | 28 | | | --- | --- | 380 | 4670 |
| 4 | 24 | 9.8 | 11 | 4.7 | 126 | 205 | | | --- | --- | 614 | 13000 |
| 5 | 30 | 13 | 11 | 4.7 | 99 | 225 | | | --- | --- | 515 | 10200 |
| 6 | 31 | 13 | 10 | 4.3 | 63 | 95 | | | --- | --- | 267 | 3870 |
| 7 | 27 | 12 | 10 | 4.3 | 45 | 57 | | | --- | --- | 325 | 3410 |
| 8 | 26 | 11 | 10 | 4.3 | 241 | 592 | | | --- | --- | 147 | 1250 |
| 9 | 25 | 10 | 11 | 4.7 | 372 | 1080 | | | --- | --- | 109 | 774 |
| 10 | 24 | 9.7 | 12 | 5.2 | 165 | 327 | | | --- | --- | 85 | 503 |
| 11 | 22 | 9.1 | 13 | 5.6 | 87 | 114 | | | --- | --- | 50 | 235 |
| 12 | 20 | 8.4 | 14 | 6.1 | 51 | 55 | | | --- | --- | 27 | 100 |
| 13 | 20 | 8.2 | 15 | 6.6 | 45 | 43 | | | --- | --- | 21 | 67 |
| 14 | 19 | 7.8 | 28 | 18 | 45 | 39 | | | --- | --- | 67 | 284 |
| 15 | 19 | 8.0 | 35 | 26 | 42 | 34 | | | --- | --- | 101 | 442 |
| 16 | 20 | 8.6 | 32 | 24 | 40 | 30 | | | --- | --- | 48 | 161 |
| 17 | 20 | 8.5 | 29 | 19 | 42 | 29 | | | --- | --- | 29 | 81 |
| 18 | 22 | 9.4 | 20 | 13 | 41 | 27 | | | --- | --- | 24 | 63 |
| 19 | 24 | 10 | 22 | 16 | 38 | 24 | | | --- | --- | 28 | 79 |
| 20 | 25 | 11 | 17 | 11 | 33 | 21 | | | --- | --- | 34 | 101 |
| 21 | 23 | 9.8 | 12 | 7.2 | 31 | 19 | | | --- | --- | 27 | 74 |
| 22 | 21 | 8.8 | 11 | 6.1 | 26 | 16 | | | --- | --- | 23 | 56 |
| 23 | 18 | 7.4 | 10 | 5.5 | 24 | 14 | | | --- | --- | 57 | 172 |
| 24 | 17 | 6.9 | 9 | 4.9 | 22 | 13 | | | 229 | 2450 | 132 | 503 |
| 25 | 27 | 11 | 8 | 4.3 | 20 | 12 | | | 114 | 1850 | 41 | 137 |
| 26 | 28 | 12 | 17 | 9.3 | 18 | 10 | | | 98 | 1140 | 19 | 51 |
| 27 | 25 | 11 | 17 | 9.3 | 17 | 9.0 | | | 66 | 378 | 11 | 25 |
| 28 | 21 | 9.3 | 16 | 8.7 | 15 | 7.6 | | | 52 | 202 | 127 | 492 |
| 29 | 17 | 7.4 | 15 | 8.0 | 12 | 5.9 | | | --- | --- | 888 | 7820 |
| 30 | 15 | 6.5 | 14 | 7.3 | 9 | 4.3 | | | --- | --- | 585 | 6860 |
| 31 | 15 | 6.4 | --- | --- | 44 | 39 | | | --- | --- | 427 | 5480 |
| TOTAL | --- | 300.0 | --- | 264.7 | --- | 3189.5 | | | | | --- | 64355 |

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 424 | 4500 | 17 | 40 | 49 | 41 | 69 | 51 | 227 | 724 | 29 | 17 |
| 2 | 198 | 1510 | 16 | 33 | 50 | 41 | 48 | 32 | 198 | 599 | 29 | 16 |
| 3 | 155 | 904 | 33 | 78 | 53 | 42 | 43 | 26 | 127 | 280 | 28 | 15 |
| 4 | 135 | 612 | 48 | 144 | 53 | 41 | 40 | 24 | 88 | 153 | 28 | 15 |
| 5 | 139 | 683 | 22 | 58 | 48 | 36 | 38 | 21 | 167 | 319 | 39 | 20 |
| 6 | 103 | 453 | 16 | 35 | 37 | 28 | 35 | 19 | 111 | 151 | 49 | 26 |
| 7 | 84 | 288 | 13 | 24 | 27 | 20 | 34 | 18 | 100 | 114 | 43 | 21 |
| 8 | 82 | 250 | 11 | 18 | 24 | 18 | 32 | 16 | 76 | 73 | 39 | 18 |
| 9 | 238 | 1230 | 10 | 15 | 33 | 25 | 35 | 20 | 58 | 46 | 35 | 16 |
| 10 | 151 | 856 | 13 | 18 | 38 | 28 | 38 | 22 | 55 | 40 | 30 | 13 |
| 11 | 131 | 758 | 10 | 14 | 39 | 28 | 36 | 20 | 83 | 68 | 27 | 12 |
| 12 | 459 | 4780 | 15 | 24 | 42 | 28 | 35 | 18 | 84 | 73 | 27 | 12 |
| 13 | 312 | 2750 | 23 | 43 | 46 | 31 | 34 | 18 | 60 | 50 | 29 | 13 |
| 14 | 136 | 771 | 14 | 26 | 49 | 33 | 33 | 17 | 51 | 38 | 30 | 13 |
| 15 | 73 | 282 | 22 | 46 | 48 | 31 | 32 | 16 | 45 | 29 | 33 | 14 |
| 16 | 42 | 126 | 33 | 83 | 45 | 28 | 32 | 15 | 40 | 24 | 34 | 15 |
| 17 | 34 | 84 | 29 | 58 | 34 | 20 | 31 | 14 | 35 | 20 | 35 | 15 |
| 18 | 31 | 67 | 39 | 66 | 25 | 15 | 31 | 14 | 34 | 20 | 35 | 14 |
| 19 | 28 | 54 | 58 | 88 | 30 | 19 | 31 | 14 | 34 | 21 | 33 | 13 |
| 20 | 24 | 42 | 66 | 95 | 43 | 31 | 30 | 13 | 44 | 33 | 30 | 12 |
| 21 | 21 | 34 | 56 | 75 | 107 | 169 | 30 | 13 | 62 | 49 | 29 | 12 |
| 22 | 26 | 40 | 53 | 66 | 95 | 173 | 29 | 12 | 56 | 44 | 28 | 11 |
| 23 | 33 | 47 | 52 | 61 | 69 | 92 | 29 | 12 | 69 | 77 | 26 | 10 |
| 24 | 28 | 40 | 50 | 56 | 54 | 49 | 68 | 34 | 54 | 66 | 24 | 9.3 |
| 25 | 27 | 48 | 50 | 54 | 45 | 33 | 117 | 90 | 36 | 42 | 22 | 8.6 |
| 26 | 28 | 62 | 49 | 51 | 40 | 26 | 120 | 143 | 32 | 33 | 21 | 8.2 |
| 27 | 29 | 78 | 48 | 49 | 36 | 22 | 79 | 109 | 31 | 26 | 21 | 8.2 |
| 28 | 64 | 228 | 48 | 47 | 31 | 18 | 51 | 44 | 31 | 23 | 24 | 9.3 |
| 29 | 47 | 159 | 48 | 45 | 30 | 17 | 65 | 61 | 31 | 21 | 28 | 11 |
| 30 | 24 | 65 | 48 | 42 | 61 | 40 | 60 | 54 | 31 | 20 | 32 | 12 |
| 31 | --- | --- | 49 | 42 | --- | --- | 93 | 137 | 30 | 18 | --- | --- |
| TOTAL | --- | 21801 | --- | 1594 | --- | 1223 | --- | 1117 | --- | 3294 | --- | 409.6 |

03328500 EEL RIVER NEAR LOGANSPOET, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|-------|------|---|---|--|---|---|---|
| JAN | | | | | | | |
| 01... | 1015 | 1610 | 390 | 1700 | 91 | -- | -- |
| FEB | | | | | | | |
| 24... | 1130 | 3040 | 147 | 1210 | 86 | -- | -- |
| 24... | 1400 | 3200 | 347 | 3000 | 68 | -- | -- |
| 24... | 1815 | 4340 | 298 | 3490 | 59 | -- | -- |
| 25... | 0915 | 6250 | 75 | 1270 | 96 | -- | -- |
| 25... | 1530 | 6180 | 118 | 1970 | 66 | -- | -- |
| 26... | 1030 | 4470 | 61 | 736 | 93 | -- | -- |
| 26... | 1600 | 3920 | 95 | 1010 | 72 | -- | -- |
| 27... | 1345 | 2240 | 67 | 405 | 79 | -- | -- |
| 28... | 1200 | 1710 | 51 | 235 | 83 | -- | -- |
| MAR | | | | | | | |
| 03... | 1630 | 4260 | 375 | 4310 | 68 | 74 | 84 |
| 04... | 0900 | 8040 | 586 | 12700 | 62 | 66 | 77 |
| 04... | 1430 | 8210 | 747 | 16600 | 58 | 62 | 69 |
| 04... | 1845 | 8160 | 742 | 16300 | 56 | 59 | 65 |
| 05... | 0845 | 7620 | 607 | 12500 | 48 | 50 | 56 |
| 05... | 1730 | 6320 | 433 | 7390 | 55 | 57 | 63 |
| 06... | 1730 | 4750 | 259 | 3320 | 65 | 68 | 73 |
| 07... | 1115 | 3900 | 328 | 3450 | 79 | 81 | 86 |
| 08... | 1030 | 3180 | 145 | 1250 | 83 | 86 | 90 |
| 09... | 1000 | 266 | 112 | 80 | 90 | 92 | 100 |
| 10... | 1335 | 216 | 94 | 55 | 90 | 92 | 100 |
| 29... | 0830 | 2920 | 720 | 5680 | 98 | 98 | 99 |
| 29... | 1300 | 3670 | 932 | 9240 | 90 | 93 | 96 |
| 29... | 1715 | 3920 | 1090 | 11500 | 88 | 91 | 95 |
| 30... | 0845 | 4290 | 603 | 6990 | 86 | 89 | 93 |
| 30... | 1730 | 4540 | 503 | 6170 | 84 | 87 | 92 |
| 31... | 0915 | 4790 | 404 | 5230 | 86 | -- | -- |
| 31... | 1700 | 4840 | 416 | 5440 | 83 | -- | -- |
| APR | | | | | | | |
| 01... | 0900 | 4110 | 503 | 5580 | 88 | -- | -- |
| 01... | 1545 | 3640 | 334 | 3280 | 94 | -- | -- |
| 02... | 1115 | 2840 | 196 | 1500 | 98 | -- | -- |
| 03... | 1145 | 2040 | 154 | 848 | 99 | -- | -- |
| 04... | 1315 | 1430 | 129 | 498 | 86 | -- | -- |
| 05... | 1030 | 1680 | 92 | 417 | 99 | -- | -- |
| 06... | 1130 | 1440 | 102 | 397 | 95 | -- | -- |
| 07... | 1400 | 1070 | 82 | 237 | 92 | -- | -- |
| 08... | 1400 | 936 | 128 | 323 | 98 | -- | -- |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|-------|---|---|--|--|--|--|--|
| JAN | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | |
| 24... | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | |
| 03... | 97 | 100 | -- | -- | -- | -- | -- |
| 04... | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 94 | 100 | -- | -- | -- | -- | -- |
| 04... | 94 | 100 | -- | -- | -- | -- | -- |
| 05... | 89 | 100 | -- | -- | -- | -- | -- |
| 05... | 92 | 100 | -- | -- | -- | -- | -- |
| 06... | 88 | 100 | -- | -- | -- | -- | -- |
| 07... | 100 | -- | -- | -- | -- | -- | -- |
| 08... | 100 | -- | -- | -- | -- | -- | -- |
| 09... | -- | -- | -- | -- | -- | -- | -- |
| 10... | -- | -- | -- | -- | -- | -- | -- |
| 29... | 100 | -- | 47 | 63 | 76 | 88 | 96 |
| 29... | 98 | 100 | -- | -- | -- | -- | -- |
| 29... | 98 | 100 | -- | -- | -- | -- | -- |
| 30... | 98 | 100 | -- | -- | -- | -- | -- |
| 30... | 97 | 100 | -- | -- | -- | -- | -- |
| 31... | -- | -- | -- | -- | -- | -- | -- |
| 31... | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- |
| 04... | -- | -- | -- | -- | -- | -- | -- |
| 05... | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- |
| 08... | -- | -- | -- | -- | -- | -- | -- |

03329000 WABASH RIVER AT LOGANSPOET, IN

LOCATION.--Lat 40°44'47", long 86°22'39", in SW¼NE¼ sec.35, T.27 N., R.1 E., Cass County, Hydrologic Unit 05120105, 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 mi² (9,788 km²).

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

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft (174.736 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.

REMARKS.--Records good except those for winter periods, which are fair. Flow partially regulated by Huntington Lake (See sta 03323450), Salamonie Lake (See sta 03324450), and Mississinewa Lake (See sta 03326950).

AVERAGE DISCHARGE.--56 years (1923 to current year), 3,284 ft³/s (93.0 m³/s), 11.80 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89,800 ft³/s (2,540 m³/s) May 18, 1943, gage height, 21.32 ft (6.500 m); minimum daily, 135 ft³/s (3.82 m³/s) Sept. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.3 ft (7.711 m) Mar. 26, 1913, from floodmarks, discharge, 140,000 ft³/s (3,960 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,800 ft³/s (646 m³/s) Mar. 4, gage height, 10.56 ft (3.219 m); minimum daily, 531 ft³/s (15.0 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|--------|-------|
| 1 | 806 | 1510 | 1020 | 3700 | 930 | 11700 | 11900 | 2640 | 1810 | 950 | 3300 | 2650 |
| 2 | 806 | 1380 | 841 | 4000 | 900 | 14500 | 8260 | 2200 | 1550 | 1100 | 4300 | 1450 |
| 3 | 828 | 1390 | 979 | 3600 | 880 | 13500 | 6510 | 2160 | 1170 | 1330 | 3000 | 1010 |
| 4 | 869 | 1310 | 3060 | 3200 | 850 | 21900 | 5580 | 2560 | 1150 | 970 | 2400 | 910 |
| 5 | 889 | 1020 | 6120 | 2700 | 830 | 21200 | 5790 | 2530 | 1140 | 780 | 2400 | 886 |
| 6 | 901 | 1020 | 5260 | 2200 | 800 | 17100 | 4840 | 2140 | 1240 | 733 | 2700 | 854 |
| 7 | 883 | 1020 | 3330 | 1900 | 790 | 13300 | 3780 | 1980 | 1710 | 704 | 4200 | 807 |
| 8 | 869 | 996 | 3680 | 1650 | 780 | 12600 | 3110 | 1850 | 2800 | 693 | 4850 | 747 |
| 9 | 860 | 992 | 5770 | 1550 | 790 | 12800 | 3800 | 1680 | 2820 | 1210 | 4620 | 678 |
| 10 | 854 | 991 | 5070 | 1450 | 780 | 12300 | 4900 | 1590 | 2870 | 2750 | 4810 | 598 |
| 11 | 887 | 974 | 3900 | 1400 | 750 | 12300 | 4980 | 1540 | 2680 | 2790 | 4420 | 531 |
| 12 | 878 | 966 | 2550 | 1320 | 740 | 11900 | 10100 | 1560 | 3850 | 2220 | 4200 | 619 |
| 13 | 894 | 986 | 2130 | 1270 | 730 | 11300 | 8910 | 1680 | 4480 | 2630 | 4740 | 1020 |
| 14 | 908 | 1260 | 1600 | 1220 | 720 | 12700 | 6410 | 1650 | 4240 | 2630 | 4610 | 1030 |
| 15 | 919 | 1420 | 1340 | 1190 | 700 | 13000 | 5670 | 1750 | 4070 | 3770 | 4420 | 1110 |
| 16 | 1170 | 1450 | 1180 | 1160 | 690 | 10700 | 4820 | 2040 | 3410 | 3430 | 3960 | 1790 |
| 17 | 1330 | 1510 | 1110 | 1130 | 680 | 10800 | 5750 | 1860 | 2100 | 3890 | 4290 | 2130 |
| 18 | 1440 | 1870 | 1060 | 1120 | 680 | 10500 | 5750 | 1640 | 1260 | 4570 | 3500 | 1300 |
| 19 | 1590 | 2610 | 1020 | 1120 | 680 | 10900 | 5730 | 1530 | 1170 | 4790 | 2170 | 1190 |
| 20 | 1560 | 2630 | 997 | 1110 | 690 | 11400 | 5010 | 1400 | 1160 | 4820 | 1680 | 1190 |
| 21 | 1670 | 1920 | 1000 | 1100 | 730 | 11100 | 5590 | 1260 | 1530 | 4090 | 1540 | 1220 |
| 22 | 1690 | 1720 | 964 | 1090 | 800 | 10700 | 5550 | 1180 | 2100 | 1890 | 2200 | 1100 |
| 23 | 1500 | 1550 | 964 | 1090 | 1200 | 10500 | 4900 | 1100 | 1750 | 1110 | 2730 | 1130 |
| 24 | 1460 | 1430 | 1070 | 1100 | 10000 | 11300 | 5140 | 1030 | 1400 | 968 | 3730 | 1090 |
| 25 | 1460 | 1320 | 1130 | 1110 | 12000 | 10800 | 4540 | 979 | 1050 | 1150 | 4510 | 1070 |
| 26 | 1530 | 1320 | 1110 | 1100 | 9900 | 9950 | 4880 | 987 | 900 | 1960 | 4430 | 1060 |
| 27 | 1530 | 1530 | 808 | 1090 | 7590 | 9230 | 4780 | 1170 | 820 | 2800 | 3710 | 1060 |
| 28 | 1490 | 1480 | 683 | 1050 | 6800 | 8150 | 4400 | 2140 | 770 | 2660 | 3070 | 1070 |
| 29 | 1440 | 1410 | 853 | 1010 | --- | 9910 | 4180 | 2450 | 760 | 2740 | 2770 | 1090 |
| 30 | 1440 | 1370 | 777 | 1000 | --- | 14100 | 3430 | 2320 | 840 | 2760 | 2650 | 1070 |
| 31 | 1570 | --- | 1110 | 960 | --- | 16100 | --- | 2070 | --- | 2950 | 3230 | --- |
| TOTAL | 36921 | 42355 | 62486 | 49690 | 64410 | 388240 | 168990 | 54666 | 58600 | 71838 | 109140 | 33460 |
| MEAN | 1191 | 1412 | 2016 | 1603 | 2300 | 12520 | 5633 | 1763 | 1953 | 2317 | 3521 | 1115 |
| MAX | 1690 | 2630 | 6120 | 4000 | 12000 | 21900 | 11900 | 2640 | 4480 | 4820 | 4850 | 2650 |
| MIN | 806 | 966 | 683 | 960 | 680 | 8150 | 3110 | 979 | 760 | 693 | 1540 | 531 |
| CFSM | .32 | .37 | .53 | .42 | .61 | 3.31 | 1.49 | .47 | .52 | .61 | .93 | .30 |
| IN. | .36 | .42 | .62 | .49 | .63 | 3.82 | 1.66 | .54 | .58 | .71 | 1.07 | .33 |

CAL YR 1978 TOTAL 1337729 MEAN 3665 MAX 23100 MIN 474 CFSM .97 IN 13.17
WTR YR 1979 TOTAL 1140796 MEAN 3125 MAX 21900 MIN 531 CFSM .83 IN 11.23

03329400 RATTLESNAKE CREEK NEAR PATTON, IN

LOCATION.--Lat 40°42'6", long 86°41'49", in NW¼SW¼ sec.7, T.26 N., R.2 W., Carroll County, Hydrologic Unit 05120105, 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 mi² (17.69 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 645.97 ft (196.892 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 7.19 ft³/s (0.204 m³/s), 14.30 in/yr (363 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 301 ft³/s (8.52 m³/s) Mar. 4, 1979, gage height, 3.75 ft (1.143 m); maximum gage height, 4.30 ft (1.311 m) June 14, 1975; minimum daily discharge, 0.14 ft³/s (0.004 m³/s) Sept. 23, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 65 ft³/s (1.84 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 0900 | *301 8.52 | *3.75 1.14 | Apr. 12 | 0300 | 91 2.58 | 2.86 0.87 |
| Mar. 28 | 1800 | 67 1.90 | 2.56 0.78 | | | | |

Minimum daily discharge, 0.37 ft³/s (0.010 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1 | .39 | .62 | .63 | 16 | .96 | 14 | 15 | 9.1 | 2.6 | 1.7 | 2.9 | .86 |
| 2 | .37 | .62 | .60 | 5.7 | .98 | 26 | 14 | 8.4 | 2.4 | 1.6 | 3.7 | .83 |
| 3 | .43 | .59 | 6.9 | 3.9 | 1.1 | 114 | 12 | 9.6 | 2.4 | 1.5 | 2.0 | .84 |
| 4 | .38 | .58 | 3.8 | 2.6 | 1.1 | 169 | 13 | 8.7 | 2.3 | 2.0 | 1.7 | .80 |
| 5 | .41 | .56 | 2.3 | 2.0 | 1.0 | 37 | 15 | 7.6 | 2.5 | 1.6 | 1.5 | .76 |
| 6 | .42 | .62 | 1.6 | 1.7 | .98 | 27 | 10 | 7.0 | 2.4 | 1.5 | 1.4 | .78 |
| 7 | .41 | .67 | 6.2 | 1.5 | .96 | 23 | 8.9 | 6.3 | 2.4 | 1.4 | 1.3 | .76 |
| 8 | .41 | .59 | 8.0 | 1.3 | .93 | 20 | 12 | 5.7 | 2.8 | 2.8 | 1.2 | .73 |
| 9 | .41 | .60 | 3.9 | 1.2 | .92 | 20 | 17 | 5.4 | 2.9 | 6.1 | 1.2 | .71 |
| 10 | .40 | .56 | 2.5 | 1.2 | .90 | 17 | 12 | 4.9 | 2.6 | 2.6 | 1.2 | .70 |
| 11 | .52 | .56 | 2.1 | 1.1 | .89 | 12 | 35 | 4.8 | 2.2 | 2.1 | 1.2 | .67 |
| 12 | .43 | .58 | 1.9 | 1.1 | .88 | 9.5 | 56 | 5.0 | 2.2 | 1.8 | 1.1 | .65 |
| 13 | .42 | .74 | 1.7 | 1.1 | .86 | 10 | 28 | 4.8 | 2.6 | 6.7 | 1.0 | .66 |
| 14 | .42 | 1.5 | 1.5 | 1.1 | .86 | 11 | 21 | 5.3 | 2.5 | 2.9 | .96 | .64 |
| 15 | .44 | .63 | 1.4 | 1.1 | .85 | 8.6 | 15 | 8.0 | 2.3 | 2.3 | .90 | .62 |
| 16 | .46 | .52 | 1.3 | 1.0 | .84 | 7.8 | 11 | 6.1 | 2.2 | 1.8 | .86 | .59 |
| 17 | .46 | 1.4 | 1.2 | 1.0 | .84 | 7.6 | 9.5 | 5.4 | 2.2 | 1.6 | .93 | .59 |
| 18 | .51 | 1.1 | 1.1 | 1.0 | .84 | 8.1 | 8.0 | 5.0 | 3.5 | 1.4 | 1.6 | .59 |
| 19 | .52 | .75 | 1.2 | 1.0 | .84 | 8.9 | 7.2 | 4.8 | 2.6 | 1.4 | 1.6 | .57 |
| 20 | .52 | .61 | 1.4 | 1.1 | .91 | 9.6 | 6.7 | 4.2 | 7.5 | 1.3 | 2.2 | .58 |
| 21 | .51 | .57 | 1.2 | 1.2 | 1.1 | 8.4 | 6.3 | 3.7 | 8.7 | 1.2 | 2.0 | .60 |
| 22 | .54 | .56 | 1.1 | 1.2 | 2.0 | 7.8 | 5.8 | 3.5 | 3.8 | 1.1 | 1.4 | .59 |
| 23 | .55 | 1.0 | 1.1 | 1.1 | 5.9 | 11 | 5.7 | 3.6 | 2.8 | 1.0 | 1.2 | .58 |
| 24 | .52 | .83 | 1.2 | 1.1 | 25 | 11 | 6.3 | 3.4 | 2.4 | 1.2 | 1.1 | .58 |
| 25 | .70 | .65 | .99 | 1.1 | 15 | 9.0 | 7.4 | 3.2 | 2.1 | 1.6 | .97 | .58 |
| 26 | .73 | .65 | .89 | 1.0 | 9.0 | 7.6 | 17 | 3.1 | 2.0 | 1.4 | .95 | .58 |
| 27 | .58 | .89 | .85 | .98 | 6.2 | 6.9 | 17 | 3.1 | 1.9 | 1.2 | .96 | .58 |
| 28 | .60 | .79 | .84 | .96 | 5.8 | 27 | 20 | 2.8 | 1.8 | 1.1 | 1.4 | .60 |
| 29 | .57 | .72 | .94 | .95 | --- | 33 | 14 | 2.8 | 2.1 | .95 | 1.5 | .61 |
| 30 | .58 | .65 | 1.1 | .95 | --- | 25 | 11 | 2.7 | 2.0 | .95 | 1.1 | .64 |
| 31 | .63 | --- | 12 | .93 | --- | 20 | --- | 2.8 | --- | .97 | .93 | --- |
| TOTAL | 15.24 | 21.71 | 73.44 | 59.17 | 88.44 | 726.8 | 436.8 | 160.8 | 84.7 | 58.77 | 43.96 | 19.87 |
| MEAN | .49 | .72 | 2.37 | 1.91 | 3.16 | 23.4 | 14.6 | 5.19 | 2.82 | 1.90 | 1.42 | .66 |
| MAX | .73 | 1.5 | 12 | 16 | 25 | 169 | 56 | 9.6 | 8.7 | 6.7 | 3.7 | .86 |
| MIN | .37 | .52 | .60 | .93 | .84 | 6.9 | 5.7 | 2.7 | 1.8 | .95 | .86 | .57 |
| CFSM | .07 | .11 | .35 | .28 | .46 | 3.43 | 2.14 | .76 | .41 | .28 | .21 | .10 |
| IN. | .08 | .12 | .40 | .32 | .48 | 3.96 | 2.38 | .88 | .46 | .32 | .24 | .11 |

| CAL YR 1978 | TOTAL | 2431.93 | MEAN 6.66 | MAX 146 | MIN .32 | CFSM .98 | IN 13.24 |
|-------------|-------|---------|-----------|---------|---------|----------|----------|
| WTR YR 1979 | TOTAL | 1789.70 | MEAN 4.90 | MAX 169 | MIN .37 | CFSM .72 | IN 9.75 |

03329400 RATTLESNAKE CREEK NEAR PATTON, IN

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: February 1979 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .250 MM |
|-------|------|-----------------------------|---|--|---|---|---|---|
| MAR | | | | | | | | |
| 04... | 1730 | .0 | 93 | 247 | 62 | -- | -- | -- |
| 20... | 0930 | 7.0 | 9.4 | 18 | .46 | -- | -- | -- |
| APR | | | | | | | | |
| 24... | 1020 | 12.0 | 6.2 | 38 | .64 | -- | -- | -- |
| JUN | | | | | | | | |
| 07... | 0930 | 19.0 | 2.4 | 34 | .22 | -- | -- | -- |
| JUL | | | | | | | | |
| 17... | 0910 | -- | 1.6 | 102 | .46 | 84 | 93 | 100 |
| AUG | | | | | | | | |
| 29... | 0915 | -- | 1.7 | 43 | .20 | -- | -- | -- |

WABASH RIVER BASIN

03329700 DEER CREEK NEAR DELPHI, IN

LOCATION.--Lat 40°35'25", long 86°37'15", in NE¼NE¼ sec.27, T.25 N., R.2 W., Carroll County, Hydrologic Unit 05120105, on downstream side of left wingwall of highway bridge, 2.6 miles (4.2 km) northeast of Delphi Post Office, and 4.8 miles (7.7 km) upstream from mouth.

DRAINAGE AREA.--274 mi² (710 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1275: 1944, 1947-48. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 553.81 ft (168.801 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark, levels by State of Indiana, Department of Natural Resources).

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

AVERAGE DISCHARGE.--36 years, 238 ft³/s (6.740 m³/s), 11.80 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s (408 m³/s) June 10, 1958, gage height, 18.26 ft (5.566 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Sept. 25-28, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 19.8 ft (6.035 m), from floodmarks, discharge, 18,000 ft³/s (510 m³/s), from rating curve extended above 8,000 ft³/s (227 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|--------------------------|---------|------|---|-------------------------|
| Feb. 24 | 0100 | 2400 68.0 | ^a 10.85 3.307 | Apr. 12 | 1200 | 2640 74.8 | 7.53 2.295 |
| Mar. 4 | 1400 | *2900 82.1 | 7.87 2.399 | | | | |

Minimum daily discharge, 21 ft³/s (0.59 m³/s) Oct. 1.

^aBackwater from ice.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: August 1969 to September 1978 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|------|------|------|------|------|
| 1 | 21 | 33 | 44 | 466 | 50 | 860 | 916 | 297 | 83 | 52 | 77 | 76 |
| 2 | 22 | 31 | 42 | 453 | 51 | 1200 | 693 | 269 | 80 | 51 | 142 | 69 |
| 3 | 25 | 29 | 118 | 220 | 54 | 1640 | 552 | 282 | 79 | 49 | 136 | 64 |
| 4 | 25 | 29 | 227 | 190 | 56 | 2610 | 488 | 254 | 74 | 55 | 103 | 59 |
| 5 | 26 | 29 | 184 | 159 | 53 | 1740 | 547 | 228 | 72 | 49 | 79 | 56 |
| 6 | 25 | 31 | 127 | 141 | 51 | 900 | 496 | 215 | 172 | 47 | 70 | 53 |
| 7 | 25 | 33 | 126 | 129 | 49 | 677 | 387 | 202 | 158 | 44 | 61 | 51 |
| 8 | 24 | 31 | 210 | 117 | 47 | 567 | 396 | 187 | 152 | 42 | 55 | 48 |
| 9 | 24 | 31 | 267 | 101 | 46 | 517 | 721 | 174 | 130 | 94 | 52 | 45 |
| 10 | 23 | 30 | 199 | 91 | 45 | 540 | 702 | 164 | 107 | 325 | 48 | 44 |
| 11 | 29 | 31 | 144 | 84 | 45 | 436 | 1030 | 197 | 103 | 164 | 57 | 42 |
| 12 | 27 | 32 | 118 | 77 | 44 | 340 | 2400 | 215 | 96 | 105 | 53 | 41 |
| 13 | 26 | 36 | 92 | 72 | 44 | 308 | 1610 | 215 | 94 | 118 | 49 | 40 |
| 14 | 27 | 72 | 86 | 69 | 44 | 487 | 940 | 187 | 88 | 279 | 45 | 39 |
| 15 | 26 | 66 | 74 | 77 | 44 | 481 | 672 | 195 | 80 | 254 | 41 | 38 |
| 16 | 26 | 57 | 67 | 82 | 44 | 379 | 517 | 195 | 73 | 167 | 38 | 38 |
| 17 | 26 | 59 | 63 | 73 | 44 | 336 | 416 | 179 | 68 | 116 | 38 | 36 |
| 18 | 26 | 56 | 58 | 66 | 44 | 348 | 350 | 164 | 68 | 86 | 50 | 35 |
| 19 | 27 | 52 | 56 | 73 | 44 | 394 | 306 | 157 | 68 | 72 | 212 | 34 |
| 20 | 26 | 52 | 57 | 69 | 45 | 391 | 276 | 150 | 79 | 63 | 374 | 33 |
| 21 | 26 | 46 | 57 | 67 | 65 | 351 | 248 | 140 | 103 | 57 | 754 | 33 |
| 22 | 27 | 42 | 54 | 64 | 337 | 306 | 222 | 128 | 73 | 52 | 398 | 32 |
| 23 | 27 | 46 | 53 | 62 | 1630 | 328 | 205 | 124 | 69 | 50 | 318 | 32 |
| 24 | 26 | 44 | 52 | 65 | 2200 | 553 | 212 | 120 | 64 | 70 | 450 | 31 |
| 25 | 27 | 42 | 51 | 73 | 1720 | 487 | 288 | 114 | 57 | 82 | 370 | 32 |
| 26 | 30 | 44 | 47 | 68 | 842 | 363 | 315 | 108 | 53 | 140 | 257 | 31 |
| 27 | 28 | 48 | 45 | 63 | 679 | 294 | 315 | 105 | 51 | 144 | 184 | 31 |
| 28 | 29 | 46 | 45 | 60 | 630 | 314 | 415 | 99 | 50 | 146 | 144 | 30 |
| 29 | 30 | 44 | 45 | 56 | --- | 842 | 398 | 92 | 51 | 94 | 128 | 29 |
| 30 | 31 | 44 | 45 | 53 | --- | 1040 | 347 | 86 | 55 | 74 | 110 | 29 |
| 31 | 33 | --- | 98 | 51 | --- | 1270 | --- | 85 | --- | 66 | 90 | --- |
| TOTAL | 820 | 1266 | 2951 | 3491 | 9047 | 21299 | 17380 | 5327 | 2550 | 3207 | 4983 | 1251 |
| MEAN | 26.5 | 42.2 | 95.2 | 113 | 323 | 687 | 579 | 172 | 85.0 | 103 | 161 | 41.7 |
| MAX | 33 | 72 | 267 | 466 | 2200 | 2610 | 2400 | 297 | 172 | 325 | 754 | 76 |
| MIN | 21 | 29 | 42 | 51 | 44 | 294 | 205 | 85 | 50 | 42 | 38 | 29 |
| CFSM | .10 | .15 | .35 | .41 | 1.18 | 2.51 | 2.11 | .63 | .31 | .38 | .59 | .15 |
| IN. | .11 | .17 | .40 | .47 | 1.23 | 2.89 | 2.36 | .72 | .35 | .44 | .68 | .17 |
| CAL YR 1978 | TOTAL | 86069 | MEAN 236 | MAX 3700 | MIN 21 | CFSM .86 | IN 11.69 | | | | | |
| WTR YR 1979 | TOTAL | 73572 | MEAN 202 | MAX 2610 | MIN 21 | CFSM .74 | IN 9.99 | | | | | |

03330500 TIPPICANOE RIVER AT OSWEGO, IN

LOCATION.--Lat 41°19'14", long 85°47'21", in NE¼NE¼ sec.14, T.33 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106, on left bank 10 ft (3 m) downstream from dam at Tippecanoe Lake Outlet in Oswego, 3 miles (5 km) east of Leesburg, and at mile 158.9 (255.7 km).

DRAINAGE AREA.--113 mi² (293 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 830.00 ft (252.984 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--30 years, 97.7 ft³/s (2.767 m³/s), 11.74 in/yr (298 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 700 ft³/s (19.8 m³/s) Oct. 17, 1954, gage height, 8.64 ft (2.633 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 4, 5, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 343 ft³/s (9.71 m³/s) Mar. 10, gage height, 8.00 ft (2.438 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Oct. 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 12 | 45 | 60 | 58 | 65 | 59 | 192 | 171 | 50 | 32 | 14 | 25 |
| 2 | 11 | 77 | 63 | 59 | 64 | 68 | 199 | 174 | 36 | 31 | 51 | 24 |
| 3 | 11 | 76 | 67 | 60 | 63 | 84 | 208 | 185 | 36 | 31 | 58 | 23 |
| 4 | 11 | 74 | 66 | 60 | 62 | 137 | 213 | 191 | 36 | 31 | 43 | 23 |
| 5 | 11 | 71 | 67 | 60 | 59 | 188 | 213 | 192 | 35 | 30 | 41 | 23 |
| 6 | 10 | 71 | 66 | 61 | 56 | 232 | 213 | 188 | 35 | 28 | 41 | 22 |
| 7 | 9.0 | 69 | 70 | 60 | 53 | 276 | 214 | 182 | 36 | 24 | 41 | 21 |
| 8 | 8.0 | 65 | 72 | 59 | 50 | 311 | 217 | 177 | 41 | 23 | 40 | 21 |
| 9 | 8.0 | 64 | 70 | 57 | 47 | 332 | 222 | 175 | 66 | 23 | 63 | 20 |
| 10 | 8.0 | 65 | 69 | 56 | 44 | 341 | 218 | 173 | 65 | 21 | 76 | 19 |
| 11 | 8.0 | 31 | 69 | 54 | 42 | 339 | 219 | 170 | 63 | 21 | 76 | 19 |
| 12 | 8.0 | 15 | 69 | 54 | 41 | 333 | 223 | 169 | 52 | 20 | 73 | 18 |
| 13 | 8.0 | 15 | 68 | 56 | 39 | 324 | 222 | 166 | 34 | 19 | 70 | 18 |
| 14 | 8.0 | 16 | 68 | 60 | 37 | 315 | 219 | 162 | 34 | 18 | 66 | 17 |
| 15 | 28 | 18 | 67 | 60 | 36 | 304 | 217 | 156 | 33 | 17 | 62 | 16 |
| 16 | 60 | 20 | 67 | 60 | 34 | 291 | 213 | 150 | 33 | 17 | 48 | 16 |
| 17 | 56 | 23 | 65 | 61 | 32 | 272 | 208 | 141 | 32 | 16 | 18 | 16 |
| 18 | 56 | 107 | 63 | 63 | 31 | 256 | 200 | 131 | 32 | 16 | 18 | 15 |
| 19 | 55 | 134 | 63 | 66 | 30 | 243 | 190 | 125 | 31 | 15 | 18 | 15 |
| 20 | 43 | 117 | 61 | 69 | 29 | 232 | 182 | 120 | 31 | 15 | 19 | 14 |
| 21 | 19 | 103 | 59 | 70 | 29 | 222 | 171 | 86 | 32 | 14 | 22 | 14 |
| 22 | 20 | 92 | 58 | 71 | 29 | 214 | 162 | 38 | 33 | 13 | 27 | 13 |
| 23 | 21 | 84 | 56 | 72 | 32 | 207 | 153 | 42 | 32 | 13 | 27 | 12 |
| 24 | 21 | 74 | 56 | 75 | 36 | 197 | 148 | 46 | 31 | 12 | 26 | 12 |
| 25 | 22 | 65 | 54 | 74 | 39 | 188 | 148 | 48 | 31 | 13 | 26 | 12 |
| 26 | 26 | 57 | 53 | 72 | 42 | 180 | 149 | 74 | 30 | 13 | 25 | 11 |
| 27 | 26 | 56 | 51 | 71 | 46 | 172 | 151 | 84 | 29 | 13 | 25 | 11 |
| 28 | 28 | 56 | 49 | 70 | 51 | 168 | 156 | 81 | 29 | 13 | 25 | 10 |
| 29 | 29 | 58 | 48 | 68 | --- | 171 | 162 | 80 | 29 | 13 | 25 | 9.8 |
| 30 | 31 | 59 | 48 | 68 | --- | 177 | 166 | 80 | 32 | 13 | 25 | 9.5 |
| 31 | 33 | --- | 51 | 66 | --- | 185 | --- | 77 | --- | 13 | 26 | --- |
| TOTAL | 705.0 | 1877 | 1913 | 1970 | 1218 | 7018 | 5768 | 4034 | 1119 | 591 | 1215 | 499.3 |
| MEAN | 22.7 | 62.6 | 61.7 | 63.5 | 43.5 | 226 | 192 | 130 | 37.3 | 19.1 | 39.2 | 16.6 |
| MAX | 60 | 134 | 72 | 75 | 65 | 341 | 223 | 192 | 66 | 32 | 76 | 25 |
| MIN | 8.0 | 15 | 48 | 54 | 29 | 59 | 148 | 38 | 29 | 12 | 14 | 9.5 |
| CFSM | .20 | .55 | .55 | .56 | .39 | 2.00 | 1.70 | 1.15 | .33 | .17 | .35 | .15 |
| IN. | .23 | .62 | .63 | .65 | .40 | 2.31 | 1.90 | 1.33 | .37 | .19 | .40 | .16 |
| CAL YR 1978 | TOTAL | 36029.0 | MEAN | 98.7 | MAX | 557 | MIN | 8.0 | CFSM | .87 | IN | 11.86 |
| WTR YR 1979 | TOTAL | 27927.3 | MEAN | 76.5 | MAX | 341 | MIN | 8.0 | CFSM | .68 | IN | 9.19 |

03331110 WALNUT CREEK NEAR WARSAW, IN

LOCATION.--Lat 41°12'17", long 85°52'11", in NW¼NE¼ sec.30, T.32 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106, 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 mi² (50.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 823.00 ft (250.850 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods of no gage-height record, Jan. 3 to Mar. 3 and June 16 to July 23, which are poor. Flow occasionally regulated by lakes upstream.

AVERAGE DISCHARGE.--10 years, 15.7 ft³/s (0.445 m³/s), 10.86 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 203 ft³/s (5.75 m³/s) Mar. 21, 1978, gage height, 3.57 ft (1.088 m); minimum daily, 0.49 ft³/s (0.014 m³/s) Sept. 11, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s (4.16 m³/s) Mar. 5, gage height, 3.09 ft (0.942 m); minimum daily, 0.75 ft³/s (0.021 m³/s) Oct. 13.

NOTE.--No gage-height record Jan. 3 to Mar. 3 and June 16 to July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|--------|------|-------|-------|-------|-------|-------|
| 1 | 1.3 | 1.2 | 2.8 | 26 | 3.3 | 6.6 | 120 | 41 | 6.4 | 3.9 | 5.8 | 2.5 |
| 2 | 1.2 | 1.2 | 2.9 | 34 | 3.2 | 7.4 | 98 | 34 | 6.0 | 3.6 | 6.7 | 2.4 |
| 3 | 1.1 | 1.2 | 6.4 | 20 | 3.1 | 10 | 77 | 36 | 5.8 | 3.4 | 6.8 | 2.3 |
| 4 | 1.0 | 1.2 | 13 | 10 | 3.0 | 85 | 64 | 38 | 5.2 | 3.2 | 5.8 | 2.2 |
| 5 | .96 | 1.1 | 13 | 9.0 | 2.9 | 142 | 67 | 36 | 4.7 | 3.0 | 5.4 | 2.1 |
| 6 | .97 | 1.0 | 10 | 7.6 | 2.8 | 118 | 70 | 31 | 4.7 | 3.1 | 5.4 | 2.0 |
| 7 | .94 | .97 | 8.5 | 6.6 | 2.7 | 90 | 59 | 27 | 4.5 | 3.2 | 5.3 | 1.8 |
| 8 | 1.3 | .97 | 11 | 5.8 | 2.6 | 74 | 50 | 23 | 5.0 | 3.3 | 4.6 | 1.7 |
| 9 | 1.3 | 1.0 | 7.7 | 5.4 | 2.5 | 61 | 57 | 20 | 5.0 | 3.1 | 3.7 | 1.6 |
| 10 | .85 | 1.1 | 6.8 | 5.0 | 2.4 | 52 | 60 | 19 | 5.0 | 2.8 | 4.2 | 1.5 |
| 11 | .80 | 1.2 | 6.0 | 4.8 | 2.3 | 43 | 65 | 19 | 4.5 | 2.5 | 3.9 | 1.5 |
| 12 | .78 | 1.3 | 5.2 | 4.7 | 2.2 | 34 | 91 | 20 | 3.8 | 2.3 | 3.7 | 1.5 |
| 13 | .75 | 1.4 | 4.6 | 4.5 | 2.1 | 31 | 103 | 22 | 3.6 | 2.1 | 3.1 | 1.5 |
| 14 | .83 | 2.2 | 4.2 | 4.4 | 2.0 | 32 | 95 | 23 | 3.6 | 1.9 | 2.7 | 1.4 |
| 15 | .87 | 2.3 | 3.8 | 4.3 | 2.0 | 33 | 76 | 26 | 3.4 | 1.7 | 2.4 | 1.4 |
| 16 | .91 | 2.1 | 3.6 | 4.2 | 2.0 | 30 | 58 | 26 | 5.4 | 1.6 | 2.1 | 1.3 |
| 17 | .88 | 2.3 | 3.3 | 4.1 | 2.0 | 28 | 47 | 23 | 5.4 | 1.5 | 2.2 | 1.2 |
| 18 | .88 | 3.5 | 3.1 | 4.1 | 2.0 | 30 | 38 | 20 | 6.0 | 1.4 | 3.0 | .97 |
| 19 | .88 | 4.2 | 2.9 | 4.1 | 2.0 | 27 | 30 | 18 | 6.5 | 1.3 | 3.2 | .97 |
| 20 | .88 | 3.7 | 2.6 | 4.1 | 2.0 | 28 | 26 | 16 | 5.7 | 1.2 | 3.5 | .97 |
| 21 | 1.4 | 3.3 | 2.3 | 4.0 | 2.0 | 29 | 23 | 15 | 5.0 | 1.1 | 4.0 | .97 |
| 22 | 1.8 | 3.0 | 2.2 | 4.0 | 2.0 | 25 | 22 | 13 | 4.6 | 1.0 | 3.9 | .97 |
| 23 | 1.5 | 2.9 | 2.2 | 4.0 | 2.0 | 33 | 20 | 12 | 4.3 | .93 | 3.6 | .97 |
| 24 | 1.2 | 2.9 | 2.1 | 4.0 | 3.0 | 56 | 18 | 11 | 4.6 | 1.2 | 3.7 | .97 |
| 25 | 1.2 | 2.9 | 2.1 | 3.9 | 4.5 | 59 | 23 | 10 | 4.2 | 1.5 | 3.8 | .95 |
| 26 | 1.2 | 2.9 | 2.0 | 3.9 | 5.9 | 50 | 34 | 8.9 | 3.9 | 2.3 | 3.5 | .88 |
| 27 | 1.1 | 3.0 | 2.0 | 3.9 | 5.9 | 38 | 42 | 8.0 | 3.6 | 2.3 | 3.1 | .88 |
| 28 | 1.0 | 3.0 | 2.1 | 3.7 | 6.0 | 34 | 53 | 7.6 | 3.4 | 2.1 | 2.8 | .88 |
| 29 | .97 | 3.5 | 2.2 | 3.7 | --- | 71 | 52 | 7.2 | 3.3 | 2.0 | 2.7 | .87 |
| 30 | .95 | 2.8 | 2.3 | 3.6 | --- | 118 | 47 | 7.8 | 4.3 | 1.8 | 2.7 | .80 |
| 31 | 1.1 | --- | 6.9 | 3.4 | --- | 132 | --- | 7.1 | --- | 3.0 | 2.5 | --- |
| TOTAL | 32.80 | 65.34 | 149.8 | 214.8 | 80.4 | 1607.0 | 1685 | 625.6 | 141.4 | 69.33 | 119.8 | 41.95 |
| MEAN | 1.06 | 2.18 | 4.83 | 6.93 | 2.87 | 51.8 | 56.2 | 20.2 | 4.71 | 2.24 | 3.86 | 1.40 |
| MAX | 1.8 | 4.2 | 13 | 34 | 6.0 | 142 | 120 | 41 | 6.5 | 3.9 | 6.8 | 2.5 |
| MIN | .75 | .97 | 2.0 | 3.4 | 2.0 | 6.6 | 18 | 7.1 | 3.3 | .93 | 2.1 | .80 |
| CFSM | .05 | .11 | .25 | .35 | .15 | 2.64 | 2.87 | 1.03 | .24 | .11 | .20 | .07 |
| IN. | .06 | .12 | .28 | .41 | .15 | 3.05 | 3.20 | 1.19 | .27 | .13 | .23 | .08 |
| CAL YR 1978 | TOTAL | 4608.81 | MEAN | 12.6 | MAX | 186 | MIN | .49 | CFSM | .64 | IN | 8.75 |
| WTR YR 1979 | TOTAL | 4833.22 | MEAN | 13.2 | MAX | 142 | MIN | .75 | CFSM | .67 | IN | 9.17 |

03331500 TIPPECANOE RIVER NEAR ORA, IN

LOCATION.--Lat 41°09'26", long 86°33'49", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.31 N., R.1 W., Pulaski County, Hydrologic Unit 05120106, on right bank at downstream side of highway bridge, 1.0 mile (1.6 km) upstream from Bartee ditch, 1.3 miles (2.1 km) southwest of Ora, and at mile 78.5 (126.3 km).

DRAINAGE AREA.--856 mi² (2,217 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1335: 1944(M). WSP 1505: 1949-50(P). WSP 2109: Drainage area.

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.

REMARKS.--Records good except those for winter periods and period of no gage-height record, Mar. 15 to Apr. 5, which are fair.

AVERAGE DISCHARGE.--36 years, 805 ft³/s (22.80 m³/s), 12.77 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,800 ft³/s (221 m³/s) Apr. 5, 1950, gage height, 14.40 ft (4.389 m) site then in use; minimum daily, 87 ft³/s (2.46 m³/s) Sept. 13, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65.01 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 1900 | *7660 217 | *14.27 4.349 | Apr. 13 | 1600 | 2720 77.0 | 10.56 3.219 |
| Mar. 29 | unknown | 2850 80.7 | unknown | | | | |

Minimum daily discharge, 166 ft³/s (4.70 m³/s) Sept. 30.

NOTE.--No gage-height record Mar. 15 to Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|---------|----------|----------|-------|-------|------|-------|------|
| 1 | 175 | 203 | 279 | 937 | 265 | 1500 | 2400 | 1890 | 551 | 357 | 321 | 291 |
| 2 | 172 | 200 | 281 | 700 | 260 | 2740 | 2200 | 1760 | 538 | 348 | 376 | 277 |
| 3 | 178 | 202 | 320 | 620 | 260 | 4380 | 2000 | 1810 | 526 | 345 | 387 | 267 |
| 4 | 177 | 202 | 432 | 570 | 260 | 7390 | 1800 | 2060 | 500 | 337 | 390 | 258 |
| 5 | 179 | 207 | 453 | 511 | 260 | 7000 | 1710 | 2020 | 463 | 323 | 383 | 252 |
| 6 | 185 | 224 | 448 | 510 | 260 | 5500 | 1690 | 1800 | 469 | 306 | 361 | 247 |
| 7 | 185 | 235 | 446 | 480 | 260 | 5800 | 1530 | 1610 | 465 | 293 | 339 | 239 |
| 8 | 186 | 242 | 495 | 460 | 255 | 4580 | 1440 | 1460 | 495 | 282 | 313 | 234 |
| 9 | 184 | 240 | 531 | 430 | 250 | 3780 | 1500 | 1340 | 520 | 283 | 301 | 228 |
| 10 | 179 | 236 | 410 | 410 | 249 | 3180 | 1630 | 1240 | 513 | 280 | 302 | 223 |
| 11 | 182 | 236 | 385 | 400 | 241 | 2700 | 1670 | 1170 | 507 | 271 | 365 | 216 |
| 12 | 182 | 233 | 370 | 385 | 240 | 2300 | 2130 | 1260 | 482 | 264 | 405 | 210 |
| 13 | 179 | 236 | 365 | 370 | 241 | 2020 | 2660 | 1350 | 474 | 260 | 394 | 207 |
| 14 | 180 | 245 | 340 | 360 | 245 | 1900 | 2600 | 1360 | 465 | 258 | 351 | 204 |
| 15 | 198 | 246 | 330 | 350 | 245 | 1950 | 2300 | 1400 | 445 | 255 | 314 | 200 |
| 16 | 211 | 236 | 325 | 340 | 250 | 1650 | 2030 | 1420 | 415 | 251 | 293 | 195 |
| 17 | 214 | 251 | 315 | 335 | 260 | 1520 | 1770 | 1300 | 394 | 244 | 292 | 191 |
| 18 | 239 | 262 | 310 | 330 | 265 | 1460 | 1570 | 1190 | 393 | 234 | 335 | 190 |
| 19 | 261 | 256 | 309 | 325 | 275 | 1480 | 1440 | 1100 | 405 | 225 | 344 | 186 |
| 20 | 254 | 265 | 303 | 320 | 282 | 1520 | 1340 | 1040 | 425 | 218 | 412 | 184 |
| 21 | 245 | 268 | 311 | 320 | 299 | 1480 | 1260 | 961 | 455 | 211 | 490 | 182 |
| 22 | 239 | 291 | 309 | 320 | 320 | 1350 | 1200 | 878 | 419 | 204 | 432 | 183 |
| 23 | 236 | 309 | 308 | 315 | 450 | 1330 | 1140 | 824 | 407 | 198 | 394 | 181 |
| 24 | 223 | 315 | 294 | 310 | 900 | 1470 | 1100 | 767 | 397 | 205 | 371 | 178 |
| 25 | 209 | 306 | 287 | 300 | 1400 | 1460 | 1250 | 701 | 385 | 256 | 340 | 174 |
| 26 | 213 | 304 | 273 | 295 | 1550 | 1360 | 1510 | 646 | 365 | 267 | 316 | 171 |
| 27 | 215 | 305 | 210 | 290 | 1250 | 1180 | 1800 | 613 | 349 | 272 | 304 | 169 |
| 28 | 215 | 301 | 286 | 285 | 1100 | 1500 | 1940 | 586 | 337 | 262 | 298 | 168 |
| 29 | 216 | 286 | 364 | 280 | --- | 2750 | 2020 | 571 | 338 | 247 | 314 | 168 |
| 30 | 210 | 284 | 422 | 275 | --- | 2600 | 1960 | 560 | 374 | 248 | 322 | 166 |
| 31 | 204 | --- | 462 | 270 | --- | 2550 | --- | 549 | --- | 298 | 304 | --- |
| TOTAL | 6325 | 7626 | 10973 | 12403 | 12392 | 83380 | 52590 | 37236 | 13271 | 8302 | 10863 | 6239 |
| MEAN | 204 | 254 | 354 | 400 | 443 | 2690 | 1753 | 1201 | 442 | 268 | 350 | 208 |
| MAX | 261 | 315 | 531 | 937 | 1550 | 7390 | 2660 | 2060 | 551 | 357 | 490 | 291 |
| MIN | 172 | 200 | 210 | 270 | 240 | 1180 | 1100 | 549 | 337 | 198 | 292 | 166 |
| CFSM | .24 | .30 | .41 | .47 | .52 | 3.14 | 2.05 | 1.40 | .52 | .31 | .41 | .24 |
| IN. | .27 | .33 | .48 | .54 | .54 | 3.62 | 2.29 | 1.62 | .58 | .36 | .47 | .27 |
| CAL YR 1978 | TOTAL | 287646 | MEAN 788 | MAX 6640 | MIN 158 | CFSM .92 | IN 12.50 | | | | | |
| WTR YR 1979 | TOTAL | 261600 | MEAN 717 | MAX 7390 | MIN 166 | CFSM .84 | IN 11.37 | | | | | |

WABASH RIVER BASIN

03331500 TIPPECANOE RIVER NEAR ORA, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to October 1974 (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|-------|------|---|--|---|
| MAR | | | | |
| 07... | 1100 | 5600 | 25 | 378 |
| 08... | 1210 | 4590 | 17 | 211 |

03332500 TIPPECANOE RIVER NEAR MONTICELLO, IN

LOCATION.--Lat 40°46'48", long 86°45'36", in NW¼NE¼ sec.21, T.27 N., R.3 W., White County, Hydrologic Unit 05120106, at Norway plant of Northern Indiana Public Service Co., 2 miles (3 km) north of Monticello, and at mile 32.0 (51.5 km).

DRAINAGE AREA.--1,732 mi² (4,486 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

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.

AVERAGE DISCHARGE.--48 years, 1,493 ft³/s (42.28 m³/s), 11.71 in/yr (297 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,800 ft³/s (476 m³/s) June 13, 1958; minimum daily, 103 ft³/s (2.92 m³/s) July 27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,900 ft³/s (394 m³/s) Mar. 4; minimum daily, 173 ft³/s (4.90 m³/s) Oct 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1 | 282 | 347 | 520 | 1960 | 520 | 2630 | 4790 | 3910 | 1190 | 816 | 685 | 520 |
| 2 | 238 | 303 | 390 | 1180 | 520 | 4120 | 4610 | 3320 | 1150 | 718 | 915 | 520 |
| 3 | 325 | 303 | 668 | 783 | 520 | 5170 | 3980 | 3470 | 1090 | 619 | 685 | 520 |
| 4 | 303 | 282 | 668 | 833 | 520 | 13900 | 3450 | 3910 | 1020 | 767 | 718 | 520 |
| 5 | 288 | 368 | 718 | 767 | 520 | 13500 | 3860 | 3640 | 1130 | 1040 | 668 | 390 |
| 6 | 260 | 325 | 701 | 750 | 368 | 11400 | 3610 | 3150 | 915 | 668 | 635 | 347 |
| 7 | 282 | 282 | 767 | 750 | 520 | 12200 | 2720 | 2860 | 1130 | 685 | 733 | 520 |
| 8 | 260 | 412 | 915 | 767 | 520 | 9660 | 2700 | 2300 | 1190 | 586 | 520 | 390 |
| 9 | 390 | 390 | 750 | 718 | 390 | 7650 | 3100 | 2240 | 1430 | 833 | 520 | 390 |
| 10 | 266 | 347 | 510 | 767 | 520 | 6220 | 3120 | 1960 | 1240 | 718 | 520 | 347 |
| 11 | 260 | 368 | 520 | 635 | 520 | 4890 | 3870 | 2060 | 1220 | 652 | 635 | 412 |
| 12 | 260 | 347 | 635 | 635 | 520 | 4260 | 7870 | 2310 | 915 | 520 | 750 | 368 |
| 13 | 282 | 368 | 882 | 652 | 325 | 3640 | 6670 | 2460 | 1130 | 640 | 652 | 368 |
| 14 | 347 | 433 | 635 | 520 | 520 | 3730 | 5830 | 2660 | 1090 | 520 | 635 | 303 |
| 15 | 173 | 412 | 783 | 520 | 412 | 3140 | 5650 | 2870 | 915 | 520 | 585 | 325 |
| 16 | 325 | 368 | 701 | 520 | 433 | 2920 | 4620 | 2830 | 915 | 602 | 520 | 303 |
| 17 | 390 | 390 | 586 | 603 | 412 | 2820 | 3430 | 2440 | 800 | 390 | 520 | 325 |
| 18 | 271 | 477 | 553 | 498 | 520 | 2700 | 2500 | 2110 | 816 | 520 | 652 | 347 |
| 19 | 303 | 412 | 652 | 520 | 433 | 2900 | 2220 | 1810 | 800 | 390 | 701 | 260 |
| 20 | 390 | 390 | 619 | 520 | 455 | 3090 | 2100 | 1740 | 915 | 439 | 767 | 303 |
| 21 | 368 | 390 | 520 | 520 | 390 | 2900 | 1890 | 1480 | 1280 | 390 | 783 | 368 |
| 22 | 390 | 390 | 520 | 586 | 520 | 2550 | 1780 | 1360 | 915 | 390 | 915 | 282 |
| 23 | 347 | 520 | 520 | 520 | 890 | 2520 | 1690 | 1520 | 783 | 412 | 734 | 282 |
| 24 | 368 | 412 | 668 | 619 | 1890 | 3070 | 1810 | 1310 | 734 | 412 | 668 | 325 |
| 25 | 347 | 455 | 455 | 520 | 2310 | 3010 | 2140 | 1430 | 652 | 478 | 701 | 303 |
| 26 | 325 | 520 | 520 | 520 | 1940 | 2740 | 3270 | 1240 | 718 | 520 | 586 | 303 |
| 27 | 303 | 520 | 347 | 520 | 2080 | 2380 | 3380 | 1170 | 668 | 520 | 520 | 303 |
| 28 | 433 | 412 | 303 | 520 | 2020 | 2940 | 3020 | 1130 | 618 | 520 | 586 | 260 |
| 29 | 353 | 520 | 347 | 520 | --- | 5910 | 4460 | 1090 | 701 | 520 | 767 | 325 |
| 30 | 368 | 412 | 520 | 520 | --- | 5310 | 4380 | 1110 | 668 | 520 | 833 | 238 |
| 31 | 303 | --- | 924 | 520 | --- | 5320 | --- | 1110 | --- | 718 | 652 | --- |
| TOTAL | 9800 | 11875 | 18817 | 20783 | 21508 | 159190 | 108520 | 68000 | 28738 | 18043 | 20761 | 10767 |
| MEAN | 316 | 396 | 607 | 670 | 768 | 5135 | 3617 | 2194 | 958 | 582 | 670 | 359 |
| MAX | 433 | 520 | 924 | 1960 | 2310 | 13900 | 7870 | 3910 | 1430 | 1040 | 915 | 520 |
| MIN | 173 | 282 | 303 | 498 | 325 | 2380 | 1690 | 1090 | 618 | 390 | 520 | 238 |
| CFSM | .18 | .23 | .35 | .39 | .44 | 2.97 | 2.09 | 1.27 | .55 | .34 | .39 | .21 |
| IN. | .21 | .26 | .40 | .45 | .46 | 3.42 | 2.33 | 1.46 | .62 | .39 | .45 | .23 |
| CAL YR 1978 | TOTAL | 516716 | MEAN | 1416 | MAX | 11200 | MIN | 163 | CFSM | .82 | IN | 11.10 |
| WTR YR 1979 | TOTAL | 496802 | MEAN | 1361 | MAX | 13900 | MIN | 173 | CFSM | .79 | IN | 10.67 |

03333000 TIPPECANOE RIVER NEAR DELPHI, IN

LOCATION.--Lat 40°37'02", long 86°45'39", in NW¼NE¼ sec.16, T.25 N., R.3 W., Carroll County, Hydrologic Unit 05120106, on right bank 2 miles (3 km) northeast of Springboro, 1.7 miles (2.7 km) downstream from Big Creek, 5 miles (8 km) northwest of Delphi, and at mile 15.1 (24.3 km).

DRAINAGE AREA.--1,865 mi² (4,830 km²).

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.

REVISED RECORDS.--WSP 973: 1942. WSP 1335: 1905-6. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 552.01 ft (168.253 m) National Geodetic Vertical Datum of 1929 (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.

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

AVERAGE DISCHARGE.--40 years (1939 to current year), 1,625 ft³/s (46.02 m³/s), 11.83 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,600 ft³/s (640 m³/s) Feb. 10, 1959, gage height, 15.10 ft (4.602 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Nov. 2, 3, 1954, caused by repair work at Oakdale Dam, 6.5 miles (10.5 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,600 ft³/s (499 m³/s) Mar. 4, gage height, 13.19 ft (4.020 m); Minimum daily, 261 ft³/s (7.39 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|---------|----------|----------|-------|-------|-------|
| 1 | 348 | 421 | 607 | 2250 | 597 | 2700 | 4770 | 3860 | 1200 | 904 | 1000 | 589 |
| 2 | 265 | 269 | 576 | 1370 | 648 | 4540 | 4280 | 3330 | 1210 | 794 | 1100 | 565 |
| 3 | 384 | 426 | 845 | 750 | 544 | 5150 | 3870 | 3600 | 1260 | 778 | 860 | 609 |
| 4 | 384 | 269 | 557 | 750 | 520 | 14900 | 3640 | 3820 | 1220 | 1000 | 770 | 560 |
| 5 | 363 | 368 | 966 | 900 | 490 | 14500 | 3720 | 3680 | 1130 | 1120 | 840 | 473 |
| 6 | 282 | 471 | 838 | 810 | 450 | 11100 | 3510 | 3310 | 1090 | 767 | 710 | 477 |
| 7 | 399 | 287 | 990 | 780 | 440 | 11900 | 2860 | 3020 | 1300 | 795 | 810 | 482 |
| 8 | 343 | 384 | 1140 | 730 | 420 | 9530 | 2960 | 2710 | 1390 | 591 | 584 | 488 |
| 9 | 315 | 454 | 807 | 680 | 400 | 7390 | 3240 | 2410 | 1720 | 1180 | 536 | 488 |
| 10 | 465 | 405 | 500 | 840 | 500 | 6300 | 3290 | 2280 | 1350 | 773 | 610 | 332 |
| 11 | 301 | 405 | 792 | 720 | 660 | 5100 | 4150 | 2270 | 1140 | 741 | 689 | 335 |
| 12 | 310 | 410 | 616 | 640 | 560 | 4300 | 8130 | 2280 | 1110 | 611 | 788 | 504 |
| 13 | 319 | 378 | 940 | 580 | 450 | 4100 | 6990 | 2590 | 1220 | 780 | 730 | 457 |
| 14 | 454 | 715 | 777 | 540 | 410 | 4100 | 5620 | 2940 | 1220 | 600 | 714 | 348 |
| 15 | 319 | 410 | 822 | 500 | 380 | 3700 | 5480 | 3160 | 1060 | 634 | 583 | 356 |
| 16 | 319 | 296 | 800 | 470 | 380 | 3400 | 4240 | 2950 | 1070 | 632 | 536 | 362 |
| 17 | 384 | 550 | 643 | 430 | 430 | 3100 | 3280 | 2760 | 837 | 450 | 593 | 364 |
| 18 | 477 | 531 | 724 | 540 | 470 | 2950 | 2780 | 2430 | 925 | 524 | 859 | 366 |
| 19 | 343 | 454 | 770 | 420 | 510 | 2950 | 2850 | 2210 | 873 | 448 | 777 | 322 |
| 20 | 324 | 454 | 583 | 520 | 560 | 3000 | 2310 | 2000 | 1050 | 562 | 1060 | 407 |
| 21 | 389 | 405 | 680 | 480 | 600 | 3000 | 2310 | 1920 | 1370 | 448 | 753 | 380 |
| 22 | 421 | 437 | 577 | 520 | 538 | 2690 | 2170 | 1490 | 1090 | 448 | 1060 | 261 |
| 23 | 454 | 538 | 590 | 570 | 638 | 2660 | 2010 | 1770 | 853 | 446 | 835 | 389 |
| 24 | 368 | 550 | 785 | 620 | 2100 | 3010 | 2220 | 1520 | 933 | 455 | 803 | 397 |
| 25 | 525 | 507 | 454 | 640 | 2780 | 2960 | 2370 | 1570 | 712 | 684 | 872 | 377 |
| 26 | 394 | 599 | 643 | 560 | 2060 | 2770 | 3640 | 1320 | 784 | 544 | 594 | 328 |
| 27 | 368 | 583 | 426 | 580 | 2140 | 2300 | 4120 | 1300 | 733 | 703 | 589 | 380 |
| 28 | 399 | 471 | 363 | 480 | 2050 | 2800 | 3260 | 1310 | 695 | 469 | 777 | 270 |
| 29 | 348 | 471 | 353 | 430 | --- | 5670 | 4430 | 1250 | 808 | 723 | 858 | 441 |
| 30 | 389 | 477 | 625 | 612 | --- | 5160 | 4100 | 1200 | 827 | 534 | 856 | 275 |
| 31 | 384 | --- | 1150 | 550 | --- | 5200 | --- | 1260 | --- | 800 | 748 | --- |
| TOTAL | 11537 | 13395 | 21939 | 21262 | 22725 | 162930 | 112600 | 73520 | 32180 | 20938 | 23894 | 12382 |
| MEAN | 372 | 447 | 708 | 686 | 812 | 5256 | 3753 | 2372 | 1073 | 675 | 771 | 413 |
| MAX | 525 | 715 | 1150 | 2250 | 2780 | 14900 | 8130 | 3860 | 1720 | 1180 | 1100 | 609 |
| MIN | 265 | 269 | 353 | 420 | 380 | 2300 | 2010 | 1200 | 695 | 446 | 536 | 261 |
| CFSM | .20 | .24 | .38 | .37 | .44 | 2.82 | 2.01 | 1.27 | .58 | .36 | .41 | .22 |
| IN. | .23 | .27 | .44 | .42 | .45 | 3.25 | 2.25 | 1.47 | .64 | .42 | .48 | .25 |
| CAL YR 1978 | TOTAL | 557829 | MEAN | 1528 | MAX | 11800 | MIN 253 | CFSM .82 | IN 11.13 | | | |
| WTR YR 1979 | TOTAL | 529302 | MEAN | 1450 | MAX | 14900 | MIN 261 | CFSM .78 | IN 10.56 | | | |

03333450 WILDCAT CREEK NEAR JEROME, IN

LOCATION.--Lat 40°26'29", long 85°55'08", in NE¼SE¼ sec.14, T.23 N., R.5 E., Howard County, Hydrologic Unit 05120107, on right bank at downstream side of bridge on County Road 1100 East, 0.5 mile (0.8 km) downstream from Mud Creek, 1.5 miles (2.4 km) southeast of Jerome, and at mile 79.9 (128.6 km).

DRAINAGE AREA.--146 mi² (378 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 820.04 ft (249.948 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--18 years, 127 ft³/s (3.597 m³/s), 11.81 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,160 ft³/s (118 m³/s) Apr. 20, 1964; maximum gage height, 11.98 ft (3.652 m) Jan. 26, 1962; minimum daily discharge, 0.89 ft³/s (0.025 m³/s) Jan. 24-26, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 18 ft (5.5 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft³/s (34.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 24 | 1500 | 1800 | 51.0 | 8.48 | 2.585 | Mar. 4 | 1300 | *3290 | 93.2 | *10.94 | 3.335 |
| Mar. 2 | 1200 | 1290 | 36.5 | 7.13 | 2.173 | July 14 | 0500 | 1210 | 34.3 | 6.87 | 2.094 |

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Oct. 18-20, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|------|------|--------|-------|------|------|------|------|------|-------|
| 1 | 4.0 | 3.0 | 15 | 458 | 16 | 532 | 358 | 58 | 22 | 22 | 787 | 38 |
| 2 | 3.8 | 3.3 | 15 | 402 | 15 | 1150 | 316 | 56 | 20 | 18 | 1000 | 34 |
| 3 | 3.5 | 3.8 | 55 | 199 | 14 | 1250 | 259 | 62 | 19 | 15 | 677 | 31 |
| 4 | 3.5 | 4.2 | 209 | 110 | 13 | 3030 | 227 | 57 | 18 | 15 | 419 | 29 |
| 5 | 3.6 | 5.2 | 138 | 82 | 13 | 1880 | 248 | 52 | 19 | 23 | 255 | 32 |
| 6 | 3.3 | 5.6 | 88 | 60 | 13 | 965 | 229 | 51 | 88 | 27 | 162 | 27 |
| 7 | 3.0 | 6.0 | 71 | 49 | 12 | 733 | 167 | 50 | 75 | 21 | 130 | 23 |
| 8 | 2.5 | 6.3 | 190 | 43 | 12 | 602 | 156 | 47 | 69 | 17 | 101 | 20 |
| 9 | 2.1 | 6.3 | 220 | 39 | 12 | 511 | 244 | 44 | 67 | 224 | 80 | 17 |
| 10 | 1.9 | 6.0 | 110 | 36 | 12 | 553 | 271 | 42 | 53 | 303 | 73 | 16 |
| 11 | 2.1 | 6.0 | 74 | 33 | 11 | 404 | 267 | 43 | 40 | 133 | 293 | 15 |
| 12 | 2.9 | 6.3 | 60 | 31 | 11 | 267 | 660 | 43 | 32 | 78 | 164 | 14 |
| 13 | 3.5 | 6.7 | 50 | 28 | 11 | 257 | 610 | 44 | 30 | 552 | 93 | 14 |
| 14 | 3.2 | 10 | 42 | 26 | 10 | 392 | 456 | 39 | 28 | 1080 | 68 | 14 |
| 15 | 2.6 | 9.5 | 37 | 25 | 10 | 341 | 348 | 43 | 25 | 702 | 52 | 11 |
| 16 | 1.9 | 4.5 | 33 | 23 | 10 | 248 | 254 | 39 | 22 | 404 | 43 | 11 |
| 17 | 1.5 | 6.7 | 30 | 22 | 10 | 219 | 190 | 34 | 21 | 67 | 38 | 11 |
| 18 | 1.3 | 97 | 27 | 21 | 9.8 | 221 | 148 | 33 | 21 | 143 | 37 | 8.9 |
| 19 | 1.3 | 63 | 29 | 20 | 9.8 | 227 | 123 | 35 | 21 | 101 | 92 | 8.7 |
| 20 | 1.3 | 40 | 32 | 23 | 9.6 | 207 | 109 | 37 | 49 | 74 | 189 | 10 |
| 21 | 1.5 | 28 | 33 | 27 | 22 | 177 | 100 | 33 | 62 | 60 | 241 | 10 |
| 22 | 1.5 | 23 | 30 | 23 | 49 | 152 | 88 | 30 | 47 | 51 | 156 | 9.2 |
| 23 | 1.3 | 23 | 27 | 21 | 412 | 213 | 80 | 28 | 32 | 43 | 118 | 7.6 |
| 24 | 1.9 | 25 | 26 | 19 | 1620 | 417 | 78 | 30 | 26 | 45 | 162 | 8.0 |
| 25 | 1.9 | 23 | 29 | 18 | 1390 | 315 | 79 | 30 | 21 | 257 | 108 | 8.4 |
| 26 | 3.5 | 20 | 23 | 17 | 880 | 213 | 78 | 29 | 19 | 685 | 80 | 8.4 |
| 27 | 3.3 | 20 | 20 | 19 | 730 | 163 | 73 | 30 | 18 | 454 | 68 | 8.4 |
| 28 | 2.8 | 20 | 19 | 20 | 512 | 154 | 74 | 28 | 17 | 243 | 59 | 9.0 |
| 29 | 2.6 | 17 | 18 | 18 | --- | 301 | 70 | 24 | 18 | 242 | 61 | 11 |
| 30 | 2.3 | 15 | 20 | 17 | --- | 393 | 66 | 22 | 23 | 179 | 54 | 11 |
| 31 | 2.1 | --- | 35 | 16 | --- | 427 | --- | 21 | --- | 238 | 44 | --- |
| TOTAL | 77.5 | 513.4 | 1805 | 1945 | 5849.2 | 16914 | 6426 | 1214 | 1022 | 6516 | 5904 | 475.6 |
| MEAN | 2.50 | 17.1 | 58.2 | 62.7 | 209 | 546 | 214 | 39.2 | 34.1 | 210 | 190 | 15.9 |
| MAX | 4.0 | 97 | 220 | 458 | 1620 | 3030 | 660 | 62 | 88 | 1080 | 1000 | 38 |
| MIN | 1.3 | 3.0 | 15 | 16 | 9.6 | 152 | 66 | 21 | 17 | 15 | 37 | 7.6 |
| CFSM | .02 | .12 | .40 | .43 | 1.43 | 3.74 | 1.47 | .27 | .23 | 1.44 | 1.30 | .11 |
| IN. | .02 | .13 | .46 | .50 | 1.49 | 4.31 | 1.64 | .31 | .26 | 1.66 | 1.50 | .12 |

CAL YR 1978 TOTAL 45926.3 MEAN 126 MAX 2330 MIN 1.3 CFSM .86 IN 11.70
WTR YR 1979 TOTAL 48661.7 MEAN 133 MAX 3030 MIN 1.3 CFSM .91 IN 12.40

WABASH RIVER BASIN

03333450 WILDCAT CREEK NEAR JEROME, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| MAY 23... | 1140 | 17.5 | 29 | 29 | 2.2 | -- | -- | -- | -- | -- |
| AUG 02... | 1030 | 19.5 | 1010 | 53 | 145 | 88 | 92 | 96 | 99 | 100 |

03333600 KOKOMO CREEK NEAR KOKOMO, IN

LOCATION.--Lat 40°26'28", long 86°05'20", in NW¼SW¼ sec.16, T.23 N., R.4E., Howard County, Hydrologic Unit 05120107, 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 mi² (64.0 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area. WRD Ind. 1972: 1970-71(P).

GAGE.--Water-stage recorder. Datum of gage is 807.68 ft (246.181 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods and periods of indefinite stage-discharge relation, which are fair.

AVERAGE DISCHARGE.--20 years, 20.8 ft³/s (0.589 m³/s), 11.44 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.4 m³/s) Apr. 20, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 20, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 260 ft³/s (7.36 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 23 | 2100 | *501 14.2 | *6.52 1.987 | Mar. 4 | 1100 | 480 13.6 | 6.36 1.939 |

Minimum daily discharge, 0.78 ft³/s (0.022 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|
| 1 | .78 | 1.3 | 3.8 | 91 | 2.3 | 40 | 82 | 16 | 3.7 | 2.0 | 87 | 5.6 |
| 2 | .86 | 1.6 | 3.9 | 51 | 2.2 | 100 | 72 | 15 | 3.5 | 1.5 | 86 | 5.3 |
| 3 | 1.2 | 1.3 | 20 | 32 | 2.2 | 204 | 57 | 17 | 3.2 | 2.6 | 56 | 5.3 |
| 4 | 1.0 | 1.2 | 26 | 22 | 2.1 | 449 | 54 | 14 | 3.5 | 5.6 | 37 | 4.5 |
| 5 | 1.2 | 1.1 | 16 | 16 | 2.1 | 198 | 61 | 13 | 4.0 | 2.9 | 25 | 4.0 |
| 6 | 1.3 | 1.5 | 10 | 14 | 2.0 | 109 | 47 | 13 | 5.3 | 2.0 | 18 | 3.8 |
| 7 | 1.1 | 2.0 | 10 | 13 | 2.0 | 93 | 37 | 12 | 6.9 | 1.6 | 15 | 3.5 |
| 8 | 1.0 | 1.5 | 38 | 10 | 2.0 | 81 | 39 | 11 | 8.1 | 2.1 | 11 | 2.9 |
| 9 | 1.4 | 1.3 | 32 | 7.4 | 2.0 | 73 | 63 | 10 | 6.8 | 3.3 | 10 | 2.8 |
| 10 | 1.8 | 2.5 | 20 | 6.3 | 2.0 | 76 | 54 | 9.6 | 6.0 | 2.9 | 13 | 2.8 |
| 11 | 2.8 | 3.5 | 14 | 5.3 | 1.9 | 55 | 61 | 9.5 | 5.8 | 2.0 | 58 | 2.6 |
| 12 | 3.3 | 7.0 | 11 | 4.9 | 1.9 | 41 | 133 | 9.6 | 5.2 | 4.7 | 43 | 2.3 |
| 13 | 2.1 | 12 | 9.5 | 4.6 | 1.9 | 50 | 89 | 9.3 | 6.6 | 123 | 24 | 2.4 |
| 14 | 1.1 | 17 | 7.3 | 4.3 | 1.9 | 80 | 65 | 8.7 | 6.5 | 117 | 16 | 4.7 |
| 15 | 1.2 | 6.4 | 7.1 | 4.1 | 1.9 | 58 | 52 | 11 | 5.2 | 68 | 11 | 2.3 |
| 16 | 1.3 | 4.6 | 6.2 | 3.9 | 1.9 | 46 | 41 | 8.8 | 4.9 | 41 | 8.8 | 2.1 |
| 17 | 1.4 | 20 | 5.0 | 3.8 | 1.8 | 43 | 33 | 7.8 | 5.9 | 26 | 7.5 | 2.3 |
| 18 | 1.5 | 18 | 4.5 | 3.7 | 1.8 | 48 | 27 | 7.8 | 6.9 | 17 | 7.8 | 2.1 |
| 19 | 1.3 | 10 | 4.6 | 3.7 | 1.9 | 47 | 23 | 7.8 | 7.6 | 13 | 16 | 2.3 |
| 20 | 1.1 | 7.1 | 5.0 | 3.9 | 2.0 | 43 | 21 | 7.6 | 11 | 9.7 | 51 | 2.1 |
| 21 | 1.0 | 5.7 | 4.6 | 4.1 | 2.6 | 37 | 19 | 6.7 | 14 | 7.8 | 53 | 2.1 |
| 22 | 1.1 | 4.9 | 4.3 | 3.9 | 5.8 | 33 | 16 | 5.8 | 9.2 | 6.4 | 35 | 2.1 |
| 23 | 1.3 | 6.1 | 4.1 | 3.7 | 204 | 61 | 15 | 5.6 | 6.9 | 6.0 | 25 | 2.1 |
| 24 | 1.5 | 5.9 | 4.6 | 4.3 | 323 | 81 | 15 | 5.7 | 5.6 | 15 | 25 | 2.0 |
| 25 | 1.7 | 5.1 | 4.2 | 3.3 | 154 | 59 | 17 | 5.5 | 4.5 | 61 | 17 | 2.1 |
| 26 | 2.2 | 4.6 | 4.0 | 3.1 | 47 | 45 | 17 | 5.2 | 3.8 | 52 | 14 | 2.0 |
| 27 | 1.6 | 4.9 | 3.7 | 2.8 | 38 | 38 | 16 | 5.5 | 3.5 | 30 | 11 | 2.1 |
| 28 | 1.2 | 4.5 | 3.6 | 2.7 | 34 | 45 | 23 | 4.8 | 2.9 | 21 | 10 | 2.0 |
| 29 | .97 | 4.2 | 3.8 | 2.6 | --- | 86 | 21 | 4.3 | 1.7 | 19 | 10 | 2.1 |
| 30 | 1.1 | 4.1 | 4.4 | 2.5 | --- | 106 | 19 | 3.9 | 2.4 | 15 | 8.4 | 2.1 |
| 31 | 1.2 | --- | 17 | 2.4 | --- | 113 | --- | 3.8 | --- | 34 | 6.5 | --- |
| TOTAL | 43.61 | 170.9 | 312.2 | 340.3 | 848.2 | 2638 | 1289 | 275.3 | 171.1 | 715.1 | 816.0 | 86.4 |
| MEAN | 1.41 | 5.70 | 10.1 | 11.0 | 30.3 | 85.1 | 43.0 | 8.88 | 5.70 | 23.1 | 26.3 | 2.88 |
| MAX | 3.3 | 20 | 38 | 91 | 323 | 449 | 133 | 17 | 14 | 123 | 87 | 5.6 |
| MIN | .78 | 1.1 | 3.6 | 2.4 | 1.8 | 33 | 15 | 3.8 | 1.7 | 1.5 | 6.5 | 2.0 |
| CFSM | .06 | .23 | .41 | .45 | 1.23 | 3.45 | 1.74 | .36 | .23 | .94 | 1.07 | .12 |
| IN. | .07 | .26 | .47 | .51 | 1.28 | 3.97 | 1.94 | .41 | .26 | 1.08 | 1.23 | .13 |

CAL YR 1978 TOTAL 7668.41 MEAN 21.0 MAX 502 MIN .46 CFSM .85 IN 11.55
WTR YR 1979 TOTAL 7706.11 MEAN 21.1 MAX 449 MIN .78 CFSM .85 IN 11.61

03333700 WILDCAT CREEK AT KOKOMO, IN

LOCATION.--Lat 40°28'24", long 86°09'26", in NE¼NW¼ sec.2, T.23 N., R.3 E., Howard County, Hydrologic Unit 05120107, on right bank on property of Penn-Dixie Steel Corporation in Kokomo, 0.5 mile (0.8 km) downstream from Kokomo Creek, 0.4 mile (0.6 km) upstream from Dixon Road bridge, and at mile 62.5 (100.6 km).

DRAINAGE AREA.--242 mi² (627 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 775.62 ft (236.409 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records good except those for periods of no gage height record, Apr. 10 to July 10, which are fair. Some regulation for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2, combined capacity, 4,170 acre-ft (5,140,000 m³), and by Kokomo Sewage Treatment Plant.

AVERAGE DISCHARGE.--24 years, 224 ft³/s (6.344 m³/s), 12.57 in/yr (319 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s (229 m³/s) Feb. 10, 1959; maximum gage height, 11.77 ft (3.587 m) Apr. 21, 1964; minimum daily discharge, 7.2 ft³/s (0.20 m³/s) Sept. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,100 ft³/s (59.5 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 4 | 2300 | *4940 140 | *9.50 2.920 |

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|------|------|------|-------|------|
| 1 | 19 | 21 | 47 | 408 | 42 | 682 | 745 | 108 | 39 | 39 | 918 | 85 |
| 2 | 21 | 23 | 77 | 662 | 41 | 1080 | 593 | 110 | 37 | 34 | 1360 | 76 |
| 3 | 37 | 21 | 128 | 388 | 40 | 1610 | 523 | 110 | 34 | 29 | 1050 | 70 |
| 4 | 25 | 20 | 236 | 259 | 39 | 3680 | 445 | 108 | 34 | 30 | 628 | 68 |
| 5 | 30 | 18 | 189 | 216 | 38 | 3920 | 453 | 102 | 40 | 43 | 416 | 68 |
| 6 | 23 | 19 | 147 | 180 | 37 | 1900 | 419 | 92 | 155 | 44 | 302 | 66 |
| 7 | 21 | 28 | 170 | 157 | 37 | 1210 | 356 | 88 | 140 | 43 | 234 | 59 |
| 8 | 17 | 24 | 207 | 143 | 37 | 968 | 352 | 84 | 128 | 90 | 192 | 56 |
| 9 | 19 | 23 | 305 | 122 | 37 | 849 | 519 | 80 | 120 | 370 | 181 | 50 |
| 10 | 23 | 26 | 256 | 112 | 36 | 804 | 660 | 76 | 115 | 320 | 167 | 46 |
| 11 | 41 | 28 | 184 | 108 | 36 | 708 | 900 | 76 | 90 | 200 | 350 | 49 |
| 12 | 34 | 29 | 139 | 101 | 36 | 490 | 1150 | 76 | 66 | 184 | 337 | 49 |
| 13 | 35 | 44 | 113 | 97 | 35 | 412 | 1100 | 76 | 56 | 642 | 204 | 63 |
| 14 | 25 | 136 | 96 | 93 | 35 | 568 | 1000 | 75 | 52 | 1270 | 147 | 55 |
| 15 | 19 | 82 | 84 | 90 | 35 | 618 | 880 | 73 | 47 | 1140 | 114 | 45 |
| 16 | 21 | 70 | 76 | 88 | 34 | 458 | 660 | 72 | 42 | 649 | 90 | 41 |
| 17 | 22 | 90 | 69 | 83 | 34 | 392 | 500 | 69 | 40 | 391 | 81 | 43 |
| 18 | 24 | 150 | 62 | 73 | 33 | 386 | 380 | 64 | 40 | 264 | 120 | 48 |
| 19 | 23 | 78 | 66 | 66 | 34 | 401 | 290 | 61 | 45 | 192 | 158 | 46 |
| 20 | 20 | 59 | 69 | 64 | 38 | 388 | 235 | 65 | 96 | 145 | 467 | 49 |
| 21 | 19 | 52 | 67 | 62 | 68 | 345 | 200 | 64 | 112 | 109 | 520 | 48 |
| 22 | 18 | 48 | 59 | 61 | 90 | 304 | 175 | 62 | 100 | 92 | 346 | 45 |
| 23 | 20 | 49 | 66 | 60 | 634 | 418 | 155 | 59 | 76 | 84 | 291 | 42 |
| 24 | 24 | 50 | 69 | 81 | 1580 | 645 | 145 | 57 | 58 | 162 | 311 | 44 |
| 25 | 29 | 54 | 67 | 67 | 1690 | 607 | 140 | 55 | 46 | 312 | 251 | 46 |
| 26 | 31 | 49 | 61 | 58 | 989 | 431 | 135 | 54 | 37 | 720 | 182 | 45 |
| 27 | 23 | 52 | 56 | 51 | 585 | 340 | 132 | 54 | 33 | 664 | 147 | 45 |
| 28 | 21 | 55 | 50 | 49 | 429 | 373 | 128 | 51 | 34 | 405 | 143 | 44 |
| 29 | 16 | 58 | 58 | 47 | --- | 566 | 125 | 47 | 37 | 309 | 132 | 42 |
| 30 | 17 | 52 | 69 | 45 | --- | 843 | 118 | 43 | 39 | 292 | 118 | 36 |
| 31 | 21 | --- | 129 | 43 | --- | 917 | --- | 38 | --- | 327 | 100 | --- |
| TOTAL | 738 | 1508 | 3471 | 4134 | 6799 | 27313 | 13613 | 2249 | 1988 | 9595 | 10057 | 1569 |
| MEAN | 23.8 | 50.3 | 112 | 133 | 243 | 881 | 454 | 72.5 | 66.3 | 310 | 324 | 52.3 |
| MAX | 41 | 150 | 305 | 662 | 1690 | 3920 | 1150 | 110 | 155 | 1270 | 1360 | 85 |
| MIN | 16 | 18 | 47 | 43 | 33 | 304 | 118 | 38 | 33 | 29 | 81 | 36 |
| CFSM | .10 | .21 | .46 | .55 | 1.00 | 3.64 | 1.88 | .30 | .27 | 1.28 | 1.34 | .22 |
| IN. | .11 | .23 | .53 | .64 | 1.05 | 4.20 | 2.09 | .35 | .31 | 1.47 | 1.55 | .24 |
| CAL YR 1978 | TOTAL | 83294 | MEAN 228 | MAX 3780 | MIN 16 | CFSM .94 | IN 12.80 | | | | | |
| WTR YR 1979 | TOTAL | 83034 | MEAN 227 | MAX 3920 | MIN 16 | CFSM .94 | IN 12.76 | | | | | |

03334500 SOUTH FORK WILDCAT CREEK NEAR LAFAYETTE, IN

LOCATION.--Lat 40°25'04", long 86°46'05", in SW¼SW¼ sec.21, T.23 N., R.3 W., Tippecanoe County, Hydrologic Unit 05120107, on right bank 40 ft (12 m) upstream from bridge on State Highway 26, 0.5 mile (0.8 km) upstream from Middle Fork, 4.4 miles (7.1 km) upstream from mouth, and 5 miles (8 km) east of Lafayette.

DRAINAGE AREA.--243 mi² (629 km²).

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

REVISED RECORDS.--WSP 1335: 1948(M). WSP 1505: 1947. WSP 1725: 1951-53(M), 1955(M). WSP 1909: 1955(P). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 566.60 ft (172.700 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft (12 m) downstream at same datum.

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

AVERAGE DISCHARGE.--36 years, 238 ft³/s (6.740 m³/s), 13.30 in/yr (338 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) June 10, 1958, gage height, 15.28 (4.657 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of contracted-opening measurement at 16.8 ft (5.121 m); minimum daily, 15 ft³/s (0.42 m³/s) Sept. 19, 22, 1944, Aug. 30, 31, Sept. 1, 14, 15, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 16.8 ft (5.12 m), from floodmarks, discharge, 17,900 ft³/s (507 m³/s) by contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 23 | 2400 | 3920 111 | 9.46 2.883 | July 4 | 1400 | *3980 113 | *9.52 2.902 |
| Mar. 4 | 1400 | 3530 99.9 | 9.03 2.752 | | | | |

Minimum daily discharge, 34 ft³/s (0.96 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1 | 39 | 41 | 60 | 816 | 62 | 1200 | 604 | 221 | 100 | 61 | 657 | 80 |
| 2 | 37 | 41 | 59 | 586 | 60 | 1180 | 493 | 206 | 92 | 53 | 1280 | 73 |
| 3 | 39 | 41 | 70 | 291 | 62 | 1050 | 412 | 214 | 88 | 49 | 734 | 69 |
| 4 | 41 | 42 | 140 | 206 | 56 | 2750 | 369 | 204 | 82 | 2200 | 412 | 65 |
| 5 | 41 | 42 | 131 | 190 | 54 | 1690 | 418 | 186 | 81 | 1080 | 291 | 61 |
| 6 | 40 | 42 | 103 | 160 | 52 | 934 | 392 | 178 | 85 | 507 | 320 | 59 |
| 7 | 40 | 42 | 101 | 140 | 51 | 694 | 312 | 171 | 123 | 312 | 271 | 57 |
| 8 | 38 | 42 | 205 | 130 | 50 | 572 | 309 | 163 | 105 | 232 | 206 | 54 |
| 9 | 37 | 42 | 212 | 110 | 49 | 507 | 722 | 154 | 93 | 198 | 173 | 52 |
| 10 | 35 | 42 | 177 | 100 | 48 | 608 | 568 | 149 | 88 | 180 | 152 | 49 |
| 11 | 39 | 42 | 130 | 94 | 48 | 474 | 841 | 163 | 81 | 158 | 138 | 48 |
| 12 | 47 | 43 | 100 | 88 | 47 | 357 | 1970 | 194 | 76 | 149 | 123 | 47 |
| 13 | 45 | 43 | 92 | 80 | 47 | 325 | 1180 | 200 | 77 | 271 | 109 | 46 |
| 14 | 47 | 88 | 84 | 78 | 46 | 436 | 728 | 169 | 85 | 534 | 102 | 49 |
| 15 | 42 | 96 | 76 | 88 | 46 | 433 | 529 | 227 | 74 | 363 | 93 | 47 |
| 16 | 40 | 73 | 70 | 92 | 45 | 330 | 421 | 200 | 68 | 257 | 86 | 42 |
| 17 | 39 | 74 | 60 | 76 | 45 | 289 | 358 | 165 | 63 | 198 | 81 | 40 |
| 18 | 39 | 130 | 62 | 80 | 45 | 271 | 313 | 151 | 61 | 169 | 95 | 39 |
| 19 | 38 | 92 | 70 | 78 | 45 | 281 | 283 | 142 | 60 | 149 | 116 | 38 |
| 20 | 39 | 76 | 74 | 76 | 45 | 281 | 262 | 140 | 74 | 133 | 119 | 37 |
| 21 | 38 | 68 | 76 | 76 | 45 | 264 | 246 | 130 | 92 | 119 | 165 | 37 |
| 22 | 35 | 63 | 73 | 76 | 158 | 245 | 230 | 123 | 69 | 112 | 217 | 37 |
| 23 | 37 | 64 | 71 | 76 | 1420 | 294 | 216 | 117 | 63 | 105 | 173 | 36 |
| 24 | 37 | 66 | 72 | 82 | 2320 | 443 | 216 | 116 | 58 | 111 | 158 | 34 |
| 25 | 39 | 62 | 71 | 100 | 1340 | 412 | 253 | 114 | 54 | 234 | 165 | 35 |
| 26 | 41 | 59 | 68 | 92 | 698 | 325 | 267 | 109 | 52 | 380 | 144 | 38 |
| 27 | 43 | 62 | 53 | 84 | 558 | 274 | 252 | 114 | 50 | 262 | 122 | 37 |
| 28 | 42 | 64 | 52 | 74 | 750 | 271 | 271 | 111 | 49 | 219 | 108 | 37 |
| 29 | 41 | 64 | 56 | 61 | --- | 443 | 257 | 99 | 52 | 262 | 109 | 36 |
| 30 | 40 | 62 | 59 | 66 | --- | 615 | 243 | 96 | 69 | 227 | 99 | 35 |
| 31 | 40 | --- | 84 | 64 | --- | 770 | --- | 99 | --- | 238 | 88 | --- |
| TOTAL | 1235 | 1808 | 2811 | 4410 | 8292 | 19018 | 13935 | 4825 | 2264 | 9522 | 7106 | 1414 |
| MEAN | 39.8 | 60.3 | 90.7 | 142 | 296 | 613 | 465 | 156 | 75.5 | 307 | 229 | 47.1 |
| MAX | 47 | 130 | 212 | 816 | 2320 | 2750 | 1970 | 227 | 123 | 2200 | 1280 | 80 |
| MIN | 35 | 41 | 52 | 61 | 45 | 245 | 216 | 96 | 49 | 49 | 81 | 34 |
| CFSM | .16 | .25 | .37 | .58 | 1.22 | 2.52 | 1.91 | .64 | .31 | 1.26 | .94 | .19 |
| IN. | .19 | .28 | .43 | .68 | 1.27 | 2.91 | 2.13 | .74 | .35 | 1.46 | 1.09 | .22 |
| CAL YR 1978 | TOTAL | 99406 | MEAN 272 | MAX 7600 | MIN 35 | CFSM 1.12 | IN 15.22 | | | | | |
| WTR YR 1979 | TOTAL | 76640 | MEAN 210 | MAX 2750 | MIN 34 | CFSM .86 | IN 11.73 | | | | | |

03335000 WILDCAT CREEK NEAR LAFAYETTE, IN

LOCATION.--Lat 40°26'26", long 86°49'45", in SW¼NW¼ sec.13, T.23 N., R.4 W., Tippecanoe County, Hydrologic Unit 05120107, on right bank about 200 ft (60 m) downstream of bridge on County Road 2A East, 2.8 miles (4.5 km) downstream from South Fork Wildcat Creek, 3.7 miles (6.0 km) northeast of courthouse in Lafayette, and 4.8 miles (7.7 km) upstream from mouth.
DRAINAGE AREA.--794 mi² (2,056 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1555: 1955, 1957(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 527.66 ft (160.831 m) National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark). Nonrecording gage prior to June 13, 1957, and August 21, 1976, to May 20, 1976, at present site and datum.

REMARKS.--Records fair except those for winter periods and period of no gage-height record Jan. 31 to Mar. 21, which are poor.

AVERAGE DISCHARGE.--25 years, 750 ft³/s (21.24 m³/s), 12.82 in/yr (326 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) June 10, 1958, gage height, 21.52 ft (6.559 m), from rating curve extended above 18,000 ft³/s (510 m³/s); minimum daily, 46 ft³/s (1.30 m³/s) Sept. 28, 29, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1913 reached a stage of about 25.4 ft (7.74 m), from profile by State of Indiana, Department of Natural Resources.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6,300 ft³/s (178 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|---------|---|-------------------------|
| Feb. 24 | unknown | 8000 227 | unknown | Apr. 12 | 1200 | 6630 188 | 11.06 3.371 |
| Mar. 4 | unknown | *9000 255 | unknown | July 4 | unknown | 8500 241 | unknown |

Minimum daily discharge, 93 ft³/s (2.63 m³/s) Oct. 25.
NOTE.--No gage-height record Jan. 31 to Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1 | 100 | 102 | 163 | 2600 | 180 | 3800 | 2350 | 643 | 283 | 209 | 1400 | 273 |
| 2 | 101 | 98 | 159 | 1530 | 180 | 3600 | 1950 | 593 | 260 | 191 | 2930 | 250 |
| 3 | 110 | 104 | 198 | 923 | 170 | 3500 | 1540 | 593 | 247 | 175 | 2520 | 231 |
| 4 | 106 | 106 | 469 | 693 | 170 | 8200 | 1400 | 593 | 234 | 7800 | 1810 | 212 |
| 5 | 111 | 108 | 430 | 600 | 170 | 4100 | 1340 | 550 | 228 | 3300 | 1230 | 200 |
| 6 | 114 | 108 | 370 | 540 | 170 | 2700 | 1370 | 497 | 354 | 1900 | 1180 | 193 |
| 7 | 110 | 108 | 330 | 500 | 160 | 2100 | 1150 | 485 | 378 | 1100 | 850 | 185 |
| 8 | 109 | 108 | 662 | 460 | 160 | 1700 | 1090 | 461 | 330 | 860 | 625 | 178 |
| 9 | 102 | 105 | 755 | 420 | 160 | 1900 | 2220 | 442 | 354 | 700 | 505 | 168 |
| 10 | 98 | 110 | 580 | 380 | 150 | 1800 | 2000 | 423 | 313 | 600 | 449 | 161 |
| 11 | 105 | 112 | 470 | 360 | 150 | 1300 | 2610 | 449 | 283 | 540 | 408 | 144 |
| 12 | 114 | 110 | 380 | 330 | 150 | 1100 | 6010 | 505 | 250 | 510 | 558 | 133 |
| 13 | 132 | 113 | 320 | 310 | 150 | 1300 | 4500 | 576 | 247 | 576 | 521 | 133 |
| 14 | 137 | 246 | 280 | 280 | 150 | 1500 | 3000 | 505 | 253 | 1720 | 408 | 126 |
| 15 | 135 | 379 | 250 | 290 | 140 | 1300 | 2100 | 727 | 250 | 2040 | 337 | 135 |
| 16 | 119 | 237 | 230 | 310 | 140 | 1000 | 1700 | 746 | 212 | 1580 | 290 | 133 |
| 17 | 111 | 200 | 200 | 280 | 140 | 940 | 1500 | 546 | 195 | 991 | 260 | 122 |
| 18 | 106 | 440 | 190 | 260 | 140 | 920 | 1300 | 469 | 183 | 708 | 303 | 113 |
| 19 | 105 | 350 | 200 | 280 | 150 | 940 | 1100 | 430 | 178 | 541 | 378 | 106 |
| 20 | 105 | 212 | 230 | 270 | 150 | 1000 | 940 | 419 | 222 | 438 | 537 | 106 |
| 21 | 109 | 180 | 220 | 260 | 150 | 1100 | 840 | 386 | 303 | 371 | 922 | 106 |
| 22 | 102 | 163 | 242 | 250 | 500 | 1170 | 780 | 354 | 250 | 320 | 991 | 106 |
| 23 | 97 | 168 | 247 | 240 | 3000 | 932 | 720 | 340 | 234 | 283 | 742 | 106 |
| 24 | 94 | 168 | 253 | 270 | 7300 | 1320 | 660 | 330 | 209 | 300 | 634 | 104 |
| 25 | 93 | 183 | 251 | 320 | 3700 | 1450 | 640 | 320 | 185 | 481 | 643 | 100 |
| 26 | 97 | 166 | 228 | 290 | 2100 | 1270 | 640 | 313 | 171 | 922 | 558 | 97 |
| 27 | 103 | 176 | 200 | 250 | 1900 | 1030 | 689 | 323 | 168 | 1100 | 461 | 100 |
| 28 | 117 | 185 | 170 | 220 | 2700 | 961 | 756 | 310 | 180 | 1050 | 396 | 100 |
| 29 | 114 | 198 | 180 | 210 | --- | 1610 | 776 | 290 | 190 | 835 | 368 | 100 |
| 30 | 108 | 176 | 200 | 200 | --- | 2190 | 703 | 277 | 211 | 680 | 326 | 100 |
| 31 | 106 | --- | 263 | 190 | --- | 2800 | --- | 290 | --- | 634 | 306 | --- |
| TOTAL | 3370 | 5219 | 9320 | 14366 | 24480 | 60533 | 48374 | 14185 | 7355 | 33455 | 23846 | 4321 |
| MEAN | 109 | 174 | 301 | 463 | 874 | 1953 | 1612 | 458 | 245 | 1079 | 769 | 144 |
| MAX | 137 | 440 | 755 | 2600 | 7300 | 8200 | 6010 | 746 | 378 | 7800 | 2930 | 273 |
| MIN | 93 | 98 | 159 | 190 | 140 | 920 | 640 | 277 | 168 | 175 | 260 | 97 |
| CFSM | .14 | .22 | .38 | .58 | 1.10 | 2.46 | 2.03 | .58 | .31 | 1.36 | .97 | .18 |
| IN. | .16 | .24 | .44 | .67 | 1.15 | 2.84 | 2.27 | .66 | .34 | 1.57 | 1.12 | .20 |
| CAL YR 1978 | TOTAL | 303173 | MEAN | 831 | MAX | 10800 | MIN | 91 | CFSM | 1.05 | IN | 14.20 |
| WTR YR 1979 | TOTAL | 248824 | MEAN | 682 | MAX | 8200 | MIN | 93 | CFSM | .86 | IN | 11.66 |

03335000 WILDCAT CREEK NEAR LAFAYETTE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: December 1970 to August 1974.

WATER TEMPERATURE: December 1970 to August 1974.

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|--------------|------|-----------------------------|---|--|---|
| OCT 19... | 1315 | 11.5 | 103 | 3 | .83 |
| NOV 16... | 1315 | 7.0 | 221 | 14 | 8.3 |

WABASH RIVER BASIN

03335500 WABASH RIVER AT LAFAYETTE, IN

LOCATION.--Lat 40°25'19", long 86°53'49", in NE¼SW¼ sec.20, T.23 N., R.4 W., Tippecanoe County, Hydrologic Unit 05120108, on right bank 20 ft (6 m) downstream from Brown Street in Lafayette, 0.2 mile (0.3 km) upstream from Main Street bridge, 0.3 mile (0.5 km) downstream from Harrison Memorial Bridge, 5.1 miles (8.2 km) downstream from Wildcat Creek, and at mile 311.9 (501.8 km).

DRAINAGE AREA.--7,267 mi² (18,822 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 504.14 ft (153.662 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records good except those for winter periods, which are fair. Flow partially regulated by upstream reservoirs and power development.

AVERAGE DISCHARGE.--56 years (1923 to current year), 6,383 ft³/s (181.0 m³/s), 11.93 in/yr (303 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,000 ft³/s (3,710 m³/s) May 19, 1943, gage height, 28.47 ft (8.678 m); minimum daily, 399 ft³/s (11.3 m³/s) Sept. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 32.9 ft (10.03 m), from floodmark determined by National Weather Service, discharge, 190,000 ft³/s (5,380 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,700 ft³/s (1,408 m³/s) Mar. 5, gage height, 20.19 ft (6.154 m); minimum daily, 1,240 ft³/s (35.1 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1 | 1440 | 2160 | 2230 | 7000 | 1900 | 15600 | 25800 | 9140 | 3830 | 1970 | 5150 | 4230 |
| 2 | 1430 | 2120 | 1970 | 7800 | 1860 | 21300 | 20100 | 7670 | 3480 | 2100 | 7910 | 3370 |
| 3 | 1420 | 1870 | 2180 | 7000 | 1800 | 24700 | 15800 | 7340 | 3220 | 1790 | 8360 | 2510 |
| 4 | 1480 | 2040 | 2700 | 6000 | 1760 | 39500 | 13100 | 7670 | 2950 | 7450 | 6130 | 2050 |
| 5 | 1530 | 1790 | 5330 | 5000 | 1700 | 48800 | 13000 | 7960 | 2900 | 6380 | 4890 | 1900 |
| 6 | 1550 | 1710 | 7200 | 4000 | 1690 | 42500 | 12800 | 7260 | 2950 | 3650 | 5450 | 1770 |
| 7 | 1480 | 1650 | 6150 | 3600 | 1630 | 36300 | 10100 | 6520 | 3230 | 2640 | 4580 | 1700 |
| 8 | 1550 | 1530 | 5460 | 3300 | 1600 | 31200 | 9030 | 6110 | 4030 | 2440 | 5500 | 1640 |
| 9 | 1490 | 1700 | 6480 | 3000 | 1560 | 26800 | 11100 | 5450 | 4910 | 2750 | 5580 | 1560 |
| 10 | 1610 | 1600 | 6570 | 2850 | 1520 | 24600 | 12500 | 5030 | 4870 | 3660 | 5390 | 1460 |
| 11 | 1520 | 1620 | 6140 | 2700 | 1510 | 22400 | 13800 | 5000 | 4290 | 4290 | 5530 | 1260 |
| 12 | 1530 | 1610 | 4880 | 2550 | 1500 | 20200 | 25200 | 5170 | 4400 | 4120 | 5220 | 1240 |
| 13 | 1530 | 1620 | 3890 | 2500 | 1500 | 18300 | 28500 | 5530 | 5550 | 4070 | 5320 | 1370 |
| 14 | 1540 | 2170 | 3520 | 2400 | 1490 | 18600 | 22500 | 5840 | 5800 | 4920 | 5570 | 1670 |
| 15 | 1670 | 2450 | 2930 | 2300 | 1460 | 20200 | 17500 | 6230 | 5440 | 5520 | 5290 | 1630 |
| 16 | 1550 | 2230 | 2810 | 2300 | 1440 | 18000 | 14200 | 6470 | 5180 | 5910 | 4820 | 1780 |
| 17 | 1710 | 2280 | 2540 | 2300 | 1420 | 16100 | 12200 | 6200 | 4320 | 5000 | 4630 | 2370 |
| 18 | 2070 | 2710 | 2310 | 2300 | 1400 | 15800 | 11200 | 5480 | 3330 | 5090 | 5060 | 2550 |
| 19 | 2040 | 2870 | 2160 | 2250 | 1400 | 15700 | 11100 | 4970 | 2860 | 5440 | 4590 | 1920 |
| 20 | 2110 | 3330 | 2180 | 2220 | 1400 | 16900 | 9760 | 4530 | 2670 | 5300 | 4150 | 1760 |
| 21 | 2060 | 3190 | 2200 | 2200 | 1500 | 16800 | 9260 | 4260 | 3240 | 5310 | 4870 | 1840 |
| 22 | 2250 | 2530 | 2010 | 2200 | 1800 | 15700 | 9530 | 3740 | 3530 | 4330 | 4600 | 1790 |
| 23 | 2270 | 2610 | 2000 | 2200 | 4050 | 15500 | 8750 | 3520 | 3430 | 2820 | 4650 | 1720 |
| 24 | 2090 | 2430 | 2030 | 2210 | 11800 | 16600 | 8270 | 3590 | 2910 | 2240 | 4930 | 1670 |
| 25 | 2050 | 2340 | 2280 | 2300 | 17300 | 17500 | 9160 | 3250 | 2670 | 2500 | 5780 | 1700 |
| 26 | 2210 | 2190 | 2050 | 2280 | 18700 | 16000 | 9400 | 3160 | 2530 | 3250 | 5910 | 1610 |
| 27 | 2180 | 2320 | 1940 | 2200 | 17600 | 14300 | 11400 | 3010 | 2320 | 3930 | 5370 | 1650 |
| 28 | 2060 | 2450 | 1630 | 2140 | 13200 | 13300 | 10600 | 3190 | 1980 | 4480 | 4580 | 1610 |
| 29 | 2100 | 2330 | 1450 | 2080 | --- | 17300 | 10900 | 3950 | 2000 | 4110 | 4420 | 1620 |
| 30 | 2010 | 2250 | 1750 | 2010 | --- | 22200 | 10400 | 4010 | 2340 | 4150 | 3950 | 1670 |
| 31 | 2050 | --- | 2090 | 1980 | --- | 26200 | --- | 3950 | --- | 3980 | 3950 | --- |
| TOTAL | 55580 | 65700 | 101060 | 97170 | 117490 | 684900 | 406960 | 165200 | 107160 | 125590 | 162130 | 56620 |
| MEAN | 1793 | 2190 | 3260 | 3135 | 4196 | 22090 | 13570 | 5329 | 3572 | 4051 | 5230 | 1887 |
| MAX | 2270 | 3330 | 7200 | 7800 | 18700 | 48800 | 28500 | 9140 | 5800 | 7450 | 8360 | 4230 |
| MIN | 1420 | 1530 | 1450 | 1980 | 1400 | 13300 | 8270 | 3010 | 1980 | 1790 | 3950 | 1240 |
| CFSM | .25 | .30 | .45 | .43 | .58 | 3.04 | 1.87 | .73 | .49 | .56 | .72 | .26 |
| IN. | .28 | .34 | .52 | .50 | .60 | 3.51 | 2.08 | .85 | .55 | .64 | .83 | .29 |
| CAL YR 1978 | TOTAL | 2490090 | MEAN | 6822 | MAX | 49500 | MIN | 1170 | CFSM | .94 | IN | 12.75 |
| WTR YR 1979 | TOTAL | 2145560 | MEAN | 5878 | MAX | 48800 | MIN | 1240 | CFSM | .81 | IN | 10.98 |

03335500 WABASH RIVER AT LAFAYETTE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1954 to September 1964, August 1967 to September 1975.

SEDIMENT DISCHARGE: March 1978 to current year.

INSTRUMENTATION.--Water temperature recorder since July 1954. Hand sampler mounted on upstream bridge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 32.0°C July 30, 31, 1954; minimum, freezing point on many days during most winter periods.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum, 980 mg/L Feb. 11, 1965; minimum, 6 mg/L Dec. 22, 1976.

SEDIMENT LOADS: Maximum, 81,500 tons (73,900 tonnes) Feb. 11, 1965; minimum, 9.1 tons (8.3 tonnes) Mar. 12, 1965.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 383 mg/L Apr. 12; minimum daily mean, 5 mg/L Oct. 8.

SEDIMENT LOADS: Maximum daily, 35,300 tons (32,000 tonnes) Mar. 4; minimum daily, 21 tons (19.1 tonnes) Oct. 8.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|---------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| OCTOBER | | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 14 | 54 | 16 | 93 | 18 | 108 | | | | | 100 | 4210 |
| 2 | 13 | 50 | 16 | 92 | 23 | 122 | | | | | 110 | 6330 |
| 3 | 12 | 46 | 16 | 81 | 39 | 230 | | | | | 145 | 9670 |
| 4 | 11 | 44 | 15 | 83 | 59 | 430 | | | | | 298 | 32400 |
| 5 | 9 | 37 | 14 | 68 | 119 | 1920 | | | | | 213 | 28000 |
| 6 | 7 | 29 | 18 | 83 | 122 | 2370 | | | | | 117 | 13400 |
| 7 | 6 | 24 | 24 | 107 | 101 | 1680 | | | | | 95 | 9310 |
| 8 | 5 | 21 | 26 | 107 | 85 | 1250 | | | | | 73 | 6150 |
| 9 | 7 | 28 | 24 | 110 | 102 | 1780 | | | | | 57 | 4120 |
| 10 | 8 | 35 | 21 | 91 | 92 | 1630 | | | | | 59 | 3920 |
| 11 | 8 | 33 | 18 | 79 | 68 | 1130 | | | | | 92 | 5560 |
| 12 | 8 | 33 | 17 | 74 | 51 | 672 | | | | | 112 | 6110 |
| 13 | 9 | 37 | 16 | 70 | 53 | 557 | | | | | 102 | 5040 |
| 14 | 9 | 37 | 16 | 94 | 55 | 523 | | | | | 49 | 2460 |
| 15 | 9 | 41 | 15 | 99 | 56 | 443 | | | | | 46 | 2510 |
| 16 | 9 | 38 | 15 | 90 | 57 | 432 | | | | | 53 | 2580 |
| 17 | 9 | 42 | 15 | 92 | 57 | 391 | | | | | 41 | 1780 |
| 18 | 10 | 56 | 14 | 102 | 55 | 343 | | | | | 37 | 1580 |
| 19 | 10 | 55 | 13 | 101 | 53 | 309 | | | | | 31 | 1310 |
| 20 | 10 | 57 | 13 | 117 | 54 | 318 | | | | | 35 | 1600 |
| 21 | 10 | 56 | 13 | 112 | 58 | 345 | | | | | 39 | 1770 |
| 22 | 11 | 67 | 14 | 96 | 60 | 326 | | | | | 38 | 1610 |
| 23 | 12 | 74 | 14 | 99 | 61 | 329 | | | | | 24 | 1000 |
| 24 | 14 | 79 | 14 | 92 | 62 | 340 | | | | | 26 | 1170 |
| 25 | 15 | 83 | 15 | 95 | 58 | 357 | | | | | 29 | 1370 |
| 26 | 16 | 95 | 15 | 89 | 55 | 304 | | | | | 34 | 1470 |
| 27 | 16 | 94 | 15 | 94 | 50 | 262 | | | | | 45 | 1740 |
| 28 | 16 | 89 | 15 | 99 | 45 | 198 | | | | | 59 | 2120 |
| 29 | 16 | 91 | 16 | 101 | 48 | 188 | | | | | 229 | 11200 |
| 30 | 16 | 87 | 17 | 103 | 55 | 260 | | | | | 221 | 13000 |
| 31 | 16 | 89 | --- | --- | 70 | 395 | | | | | 220 | 15500 |
| TOTAL | --- | 1701 | --- | 2813 | --- | 19942 | | | | | --- | 199990 |

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 34 | 2370 | 21 | 518 | 23 | 238 | 38 | 202 | 50 | 695 | 9 | 103 |
| 2 | 25 | 1360 | 25 | 518 | 22 | 207 | 59 | 335 | 90 | 1920 | 9 | 82 |
| 3 | 39 | 1660 | 23 | 456 | 20 | 174 | 35 | 169 | 106 | 2390 | 14 | 95 |
| 4 | 55 | 1950 | 28 | 580 | 19 | 151 | 331 | 7780 | 44 | 728 | 34 | 188 |
| 5 | 71 | 2490 | 52 | 1120 | 20 | 157 | 287 | 5540 | 30 | 396 | 52 | 267 |
| 6 | 73 | 2520 | 64 | 1250 | 21 | 167 | 80 | 788 | 75 | 1100 | 44 | 210 |
| 7 | 59 | 1610 | 26 | 458 | 23 | 201 | 70 | 499 | 39 | 482 | 41 | 188 |
| 8 | 56 | 1370 | 20 | 330 | 24 | 261 | 56 | 369 | 30 | 445 | 40 | 177 |
| 9 | 72 | 2160 | 17 | 250 | 25 | 331 | 92 | 683 | 38 | 573 | 39 | 164 |
| 10 | 83 | 2800 | 17 | 231 | 31 | 408 | 73 | 721 | 38 | 553 | 38 | 150 |
| 11 | 87 | 3240 | 36 | 486 | 32 | 371 | 88 | 1020 | 30 | 448 | 36 | 122 |
| 12 | 383 | 26400 | 40 | 558 | 29 | 345 | 104 | 1160 | 41 | 578 | 34 | 114 |
| 13 | 200 | 15400 | 35 | 523 | 31 | 465 | 72 | 791 | 32 | 460 | 32 | 118 |
| 14 | 170 | 10300 | 33 | 520 | 43 | 673 | 46 | 611 | 45 | 677 | 30 | 135 |
| 15 | 149 | 7040 | 34 | 572 | 61 | 896 | 80 | 1190 | 32 | 457 | 28 | 123 |
| 16 | 122 | 4680 | 35 | 611 | 38 | 531 | 64 | 1020 | 30 | 390 | 26 | 125 |
| 17 | 46 | 1520 | 12 | 201 | 26 | 303 | 57 | 769 | 25 | 313 | 28 | 179 |
| 18 | 54 | 1630 | 12 | 178 | 22 | 198 | 44 | 605 | 20 | 273 | 40 | 275 |
| 19 | 40 | 1200 | 18 | 242 | 20 | 154 | 120 | 1760 | 16 | 198 | 31 | 161 |
| 20 | 79 | 2080 | 20 | 245 | 30 | 216 | 109 | 1560 | 13 | 146 | 27 | 128 |
| 21 | 89 | 2230 | 22 | 253 | 39 | 341 | 58 | 832 | 46 | 605 | 25 | 124 |
| 22 | 76 | 1960 | 20 | 202 | 29 | 276 | 43 | 503 | 41 | 509 | 24 | 116 |
| 23 | 36 | 850 | 20 | 190 | 27 | 250 | 40 | 305 | 27 | 339 | 23 | 107 |
| 24 | 39 | 871 | 19 | 184 | 60 | 471 | 40 | 242 | 32 | 426 | 22 | 99 |
| 25 | 59 | 1460 | 18 | 158 | 46 | 332 | 53 | 358 | 28 | 437 | 21 | 96 |
| 26 | 86 | 2300 | 25 | 213 | 31 | 212 | 55 | 483 | 25 | 399 | 20 | 87 |
| 27 | 225 | 6930 | 21 | 171 | 27 | 169 | 64 | 679 | 47 | 681 | 30 | 134 |
| 28 | 117 | 3350 | 22 | 189 | 29 | 155 | 80 | 968 | 20 | 247 | 24 | 104 |
| 29 | 49 | 1440 | 27 | 288 | 31 | 167 | 58 | 644 | 17 | 203 | 20 | 87 |
| 30 | 19 | 534 | 21 | 227 | 29 | 183 | 49 | 549 | 9 | 96 | 19 | 86 |
| 31 | --- | --- | 20 | 213 | --- | --- | 45 | 484 | 8 | 85 | --- | --- |
| TOTAL | --- | 115705 | --- | 12135 | --- | 9003 | --- | 33619 | --- | 17249 | --- | 4144 |

03335500 WABASH RIVER AT LAFAYETTE, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|-------|------|---|---|--|---|---|---|
| MAR | | | | | | | |
| 03... | 1900 | 23600 | 185 | 11800 | 93 | 94 | 100 |
| JUL | | | | | | | |
| 19... | 1300 | 5370 | 119 | 1730 | 93 | 98 | 100 |
| 20... | 1000 | 5220 | 109 | 1540 | 98 | 99 | 100 |

WABASH RIVER BASIN

03335690 MUD PINE CREEK NEAR OXFORD, IN

LOCATION.--Lat 40°31'24", long 87°20'30", in NE¼SE¼ sec.17, T.24 N., R.8 W., Benton County, Hydrologic Unit 05120108, 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 mi² (102.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 718.00 ft (218.846 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter periods and periods of no gage-height record, Jan. 3 to Mar. 4, Mar. 15 to Apr. 23, and Apr. 29 to June 11, which are poor.

AVERAGE DISCHARGE.--8 years (1972 to current year), 39.8 ft³/s (1.127 m³/s), 13.72 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,900 ft³/s (82.1 m³/s) Mar. 4, 1979, gage height, 11.00 ft (3.353 m) from high-water mark; minimum daily, 0.25 ft³/s (0.007 m³/s) Sept. 24, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft³/s (7.08 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|---------|---|-------------------------|
| Feb. 24 | unknown | 1500 42.5 | unknown | Apr. 12 | unknown | 1090 30.9 | 8.79 2.679 |
| Mar. 4 | unknown | *2900 82.1 | *11.00 3.353 | July 4 | 1200 | 1430 40.5 | 9.41 2.868 |

Minimum daily discharge, 0.79 ft³/s (0.022 m³/s) Oct. 21.

NOTE.--No gage-height record Jan. 3 to Mar. 4, Mar. 15 to Apr. 23, and April 29 to June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|-------|-------|--------|------|------|------|-------|--------|-------|-------|
| 1 | .86 | .90 | 3.7 | 124 | 5.4 | 250 | 155 | 62 | 12 | 70 | 31 | 7.6 |
| 2 | .88 | .96 | 3.3 | 110 | 5.2 | 300 | 130 | 70 | 12 | 24 | 40 | 7.0 |
| 3 | 1.0 | .93 | 33 | 78 | 5.0 | 700 | 105 | 62 | 12 | 15 | 19 | 6.2 |
| 4 | .98 | .95 | 23 | 53 | 4.8 | 1800 | 115 | 55 | 11 | 942 | 13 | 5.7 |
| 5 | 1.1 | .96 | 15 | 37 | 4.6 | 900 | 110 | 48 | 11 | 236 | 10 | 4.8 |
| 6 | 1.0 | 1.0 | 11 | 29 | 4.5 | 410 | 105 | 43 | 12 | 126 | 25 | 4.5 |
| 7 | .94 | 2.0 | 32 | 21 | 4.3 | 165 | 150 | 39 | 13 | 84 | 12 | 3.8 |
| 8 | .88 | 1.4 | 56 | 17 | 4.2 | 145 | 170 | 34 | 15 | 63 | 8.6 | 3.0 |
| 9 | .84 | 1.1 | 32 | 14 | 4.0 | 150 | 160 | 33 | 14 | 52 | 7.2 | 2.8 |
| 10 | .90 | 1.0 | 52 | 12 | 3.9 | 135 | 310 | 35 | 12 | 40 | 7.0 | 2.8 |
| 11 | 1.0 | 1.1 | 18 | 11 | 3.9 | 92 | 420 | 40 | 11 | 33 | 7.1 | 2.6 |
| 12 | .99 | 1.2 | 15 | 10 | 3.9 | 71 | 450 | 39 | 9.9 | 26 | 5.4 | 2.2 |
| 13 | .95 | 1.2 | 13 | 9.2 | 4.0 | 82 | 390 | 45 | 11 | 27 | 5.0 | 2.2 |
| 14 | .92 | 3.6 | 19 | 8.6 | 4.0 | 96 | 290 | 62 | 10 | 61 | 4.5 | 2.2 |
| 15 | .98 | 2.2 | 12 | 8.2 | 4.0 | 82 | 200 | 76 | 9.3 | 56 | 4.0 | 2.0 |
| 16 | .96 | 1.5 | 9.8 | 7.6 | 4.0 | 76 | 130 | 54 | 8.9 | 31 | 3.6 | 2.0 |
| 17 | .96 | 5.9 | 11 | 7.4 | 4.0 | 90 | 98 | 44 | 8.8 | 23 | 3.8 | 1.7 |
| 18 | 1.1 | 5.0 | 8.7 | 7.2 | 4.0 | 105 | 76 | 33 | 8.5 | 18 | 22 | 1.7 |
| 19 | 1.1 | 2.8 | 8.5 | 7.2 | 4.1 | 120 | 64 | 28 | 9.2 | 15 | 56 | 1.4 |
| 20 | 1.0 | 2.1 | 9.2 | 7.2 | 4.2 | 120 | 54 | 24 | 59 | 13 | 127 | 1.4 |
| 21 | .79 | 2.0 | 9.2 | 6.7 | 4.5 | 105 | 45 | 21 | 61 | 11 | 42 | 1.4 |
| 22 | .82 | 1.9 | 8.6 | 6.6 | 7.0 | 110 | 35 | 20 | 28 | 10 | 27 | 1.4 |
| 23 | .81 | 4.9 | 7.6 | 6.7 | 80 | 130 | 33 | 18 | 16 | 9.1 | 21 | 1.4 |
| 24 | .87 | 4.0 | 8.0 | 6.8 | 1100 | 145 | 38 | 17 | 12 | 9.1 | 20 | 1.4 |
| 25 | 1.4 | 3.0 | 8.5 | 7.0 | 450 | 120 | 57 | 16 | 9.9 | 20 | 13 | 1.4 |
| 26 | 3.6 | 3.0 | 6.5 | 6.8 | 250 | 100 | 140 | 17 | 8.9 | 14 | 11 | 1.2 |
| 27 | 1.7 | 5.4 | 6.5 | 6.6 | 120 | 120 | 110 | 16 | 8.5 | 9.9 | 10 | 1.2 |
| 28 | 1.0 | 5.1 | 6.9 | 6.3 | 180 | 135 | 108 | 15 | 8.0 | 8.6 | 15 | 1.4 |
| 29 | .97 | 4.6 | 8.1 | 6.0 | --- | 150 | 84 | 14 | 9.1 | 7.2 | 21 | 1.4 |
| 30 | .92 | 4.6 | 9.7 | 5.7 | --- | 170 | 70 | 14 | 23 | 7.1 | 11 | 1.4 |
| 31 | .92 | --- | 68 | 5.6 | --- | 175 | --- | 13 | --- | 7.4 | 8.7 | --- |
| TOTAL | 33.14 | 76.30 | 532.8 | 649.4 | 2277.5 | 7349 | 4402 | 1107 | 454.0 | 2068.4 | 610.9 | 81.2 |
| MEAN | 1.07 | 2.54 | 17.2 | 20.9 | 81.3 | 237 | 147 | 35.7 | 15.1 | 66.7 | 19.7 | 2.71 |
| MAX | 3.6 | 5.9 | 68 | 124 | 1100 | 1800 | 450 | 76 | 61 | 942 | 127 | 7.6 |
| MIN | .79 | .90 | 3.3 | 5.6 | 3.9 | 71 | 33 | 13 | 8.0 | 7.1 | 3.6 | 1.2 |
| CFSM | .03 | .06 | .44 | .53 | 2.06 | 6.02 | 3.73 | .91 | .38 | 1.69 | .50 | .07 |
| IN. | .03 | .07 | .50 | .61 | 2.15 | 6.94 | 4.16 | 1.05 | .43 | 1.95 | .58 | .08 |
| CAL YR 1978 | TOTAL | 9514.27 | MEAN | 26.1 | MAX | 480 | MIN | .72 | CFSM | .66 | IN | 8.98 |
| WTR YR 1979 | TOTAL | 19641.64 | MEAN | 53.8 | MAX | 1800 | MIN | .79 | CFSM | 1.37 | IN | 18.54 |

03335690 MUD PINE CREEK NEAR OXFORD, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1979 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| MAR | | | | | | | | | | |
| 04... | 1450 | .0 | 1990 | 977 | 5250 | 98 | 98 | 99 | 100 | -- |
| 19... | 1430 | 8.0 | 131 | 524 | 185 | 98 | 98 | 99 | 99 | 100 |
| APR | | | | | | | | | | |
| 23... | 1405 | 14.0 | 32 | 46 | 4.0 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 11... | 1325 | 22.0 | 10 | 22 | .63 | -- | -- | -- | -- | -- |
| 20... | 1640 | 20.5 | 109 | 797 | 235 | 98 | 99 | 99 | 100 | -- |
| JUL | | | | | | | | | | |
| 16... | 1415 | 26.0 | 27 | 333 | 25 | 98 | 99 | 100 | -- | -- |
| AUG | | | | | | | | | | |
| 28... | 1445 | -- | 14 | 76 | 2.9 | -- | -- | -- | -- | -- |

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IN

LOCATION.--Lat 40°19'03", long 87°17'26", in SW¼SE¼ sec.26, T.22 N., R.8 W., Warren County, Hydrologic Unit 05120108, on downstream side of county road bridge, 1.6 miles (2.6 km) north of city limits of Williamsport, and 3.7 miles (6.0 km) upstream from mouth.

DRAINAGE AREA.--323 mi² (837 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.68 ft (155.960 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to May 19, 1967, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good except those for winter periods and periods of no gage-height records, Jan. 2 to Feb. 5, and Mar. 19 to Apr. 26, which are fair.

AVERAGE DISCHARGE.--24 years, 262 ft³/s (7.420 m³/s), 11.01 in/yr (280 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Feb. 10, 1959, from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of contracted-opening measurement, gage height, 16.00 ft (4.877 m), from floodmark; minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 6-8, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,800 ft³/s (79.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|---------|---|-------------------------|
| Feb. 24 | unknown | 4500 127 | unknown | Apr. 12 | unknown | 3400 96.3 | unknown |
| Mar. 4 | 1600 | *6280 178 | *11.90 3.627 | July 4 | unknown | 4430 125 | 10.30 3.139 |

Minimum daily discharge, 17 ft³/s (0.481 m³/s) Oct. 1, 2, 9, 10.

NOTE.--No gage-height record Jan. 2 to Feb. 5 and Mar. 19 to Apr. 26.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: July 1970 to September 1976.

WATER TEMPERATURE: November 1970 to September 1975.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|-------|------|------|-------|------|------|
| 1 | 17 | 21 | 25 | 595 | 48 | 833 | 1050 | 467 | 178 | 105 | 510 | 92 |
| 2 | 17 | 20 | 27 | 400 | 47 | 1040 | 860 | 413 | 164 | 98 | 646 | 84 |
| 3 | 19 | 21 | 43 | 250 | 45 | 1990 | 700 | 475 | 151 | 600 | 382 | 79 |
| 4 | 20 | 22 | 126 | 210 | 43 | 5500 | 600 | 467 | 146 | 4000 | 253 | 73 |
| 5 | 19 | 22 | 111 | 160 | 41 | 4300 | 660 | 413 | 139 | 2000 | 193 | 70 |
| 6 | 18 | 22 | 82 | 138 | 39 | 2020 | 620 | 375 | 134 | 1150 | 367 | 68 |
| 7 | 18 | 22 | 100 | 120 | 38 | 1420 | 580 | 335 | 137 | 640 | 215 | 65 |
| 8 | 18 | 23 | 211 | 105 | 37 | 1130 | 1100 | 304 | 218 | 470 | 162 | 62 |
| 9 | 17 | 23 | 250 | 94 | 38 | 995 | 1200 | 275 | 331 | 380 | 132 | 60 |
| 10 | 17 | 24 | 195 | 86 | 36 | 954 | 1080 | 253 | 215 | 320 | 119 | 58 |
| 11 | 18 | 22 | 155 | 80 | 35 | 724 | 2400 | 265 | 167 | 270 | 112 | 57 |
| 12 | 18 | 21 | 123 | 74 | 35 | 519 | 3000 | 353 | 151 | 260 | 102 | 56 |
| 13 | 20 | 23 | 104 | 70 | 35 | 462 | 2200 | 338 | 139 | 600 | 94 | 56 |
| 14 | 20 | 52 | 92 | 67 | 36 | 585 | 1500 | 356 | 139 | 800 | 88 | 53 |
| 15 | 21 | 32 | 79 | 64 | 36 | 467 | 1200 | 678 | 132 | 600 | 85 | 52 |
| 16 | 20 | 27 | 69 | 63 | 37 | 390 | 860 | 556 | 116 | 310 | 81 | 51 |
| 17 | 19 | 37 | 62 | 62 | 37 | 360 | 660 | 421 | 108 | 229 | 79 | 50 |
| 18 | 18 | 41 | 57 | 62 | 36 | 353 | 520 | 353 | 102 | 190 | 108 | 50 |
| 19 | 18 | 38 | 53 | 62 | 36 | 510 | 450 | 318 | 98 | 164 | 288 | 47 |
| 20 | 18 | 32 | 51 | 60 | 36 | 440 | 400 | 288 | 110 | 149 | 1150 | 46 |
| 21 | 19 | 25 | 49 | 60 | 37 | 420 | 370 | 253 | 433 | 144 | 340 | 46 |
| 22 | 19 | 23 | 46 | 59 | 40 | 450 | 350 | 226 | 272 | 132 | 280 | 47 |
| 23 | 18 | 25 | 43 | 60 | 520 | 640 | 330 | 218 | 175 | 123 | 240 | 46 |
| 24 | 18 | 25 | 49 | 60 | 4100 | 700 | 350 | 209 | 141 | 193 | 190 | 45 |
| 25 | 18 | 27 | 50 | 62 | 2200 | 660 | 700 | 190 | 116 | 398 | 160 | 45 |
| 26 | 23 | 27 | 45 | 64 | 1400 | 560 | 840 | 180 | 100 | 349 | 140 | 45 |
| 27 | 25 | 31 | 40 | 58 | 900 | 460 | 832 | 193 | 95 | 204 | 110 | 44 |
| 28 | 25 | 31 | 36 | 54 | 730 | 700 | 792 | 172 | 93 | 154 | 100 | 44 |
| 29 | 25 | 30 | 35 | 52 | --- | 900 | 678 | 162 | 120 | 125 | 175 | 44 |
| 30 | 22 | 28 | 38 | 50 | --- | 1150 | 561 | 154 | 135 | 164 | 151 | 44 |
| 31 | 21 | --- | 120 | 49 | --- | 1200 | --- | 149 | --- | 212 | 106 | --- |
| TOTAL | 603 | 817 | 2566 | 3450 | 10698 | 32832 | 27443 | 9809 | 4755 | 15533 | 7158 | 1679 |
| MEAN | 19.5 | 27.2 | 82.8 | 111 | 382 | 1059 | 915 | 316 | 159 | 501 | 231 | 56.0 |
| MAX | 25 | 52 | 250 | 595 | 4100 | 5500 | 3000 | 678 | 433 | 4000 | 1150 | 92 |
| MIN | 17 | 20 | 25 | 49 | 35 | 353 | 330 | 149 | 93 | 98 | 79 | 44 |
| CFSM | .06 | .08 | .26 | .34 | 1.18 | 3.28 | 2.83 | .98 | .49 | 1.55 | .72 | .17 |
| IN. | .07 | .09 | .30 | .40 | 1.23 | 3.78 | 3.16 | 1.13 | .55 | 1.79 | .82 | .19 |

| CAL YR 1978 | TOTAL | 86576 | MEAN 237 | MAX 4280 | MIN 17 | CFSM .73 | IN 9.97 |
|-------------|-------|--------|----------|----------|--------|----------|----------|
| WTR YR 1979 | TOTAL | 117343 | MEAN 321 | MAX 5500 | MIN 17 | CFSM .99 | IN 13.51 |

03336000 WABASH RIVER AT COVINGTON, IN

LOCATION.--Lat 40°08'24", long 87°24'20", in NE¼NW¼ sec.35, T.20 N., R.9 W., on Fountain-Warren county line, Hydrologic Unit 05120108, 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 mi² (21,285 km²).

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

REVISED RECORDS.--WSP 1275: Drainage area. WRD Ind. 1973: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 473.97 ft (144.466 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--40 years, 7,251 ft³/s (205 m³/s), 11.98 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 147,000 ft³/s (4,160 m³/s) May 20, 1943, gage height, 32.44 ft (9.888 m); minimum daily, 487 ft³/s (13.8 m³/s) Sept. 29, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 35.1 ft (10.70 m), from floodmark determined by National Weather Service, discharge, 200,000 ft³/s (5,600 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 52,800 ft³/s (1,495 m³/s) Mar. 6, gage height, 24.83 ft (7.568 m); minimum daily, 1,650 ft³/s (46.7 m³/s) Feb. 18, 19.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1 | 1950 | 2200 | 2900 | 8000 | 2300 | 20000 | 24600 | 10400 | 4800 | 2800 | 7910 | 5300 |
| 2 | 1900 | 2200 | 2700 | 9900 | 2200 | 25000 | 25500 | 10000 | 4500 | 2600 | 11000 | 4780 |
| 3 | 1900 | 2200 | 2800 | 8700 | 2150 | 29900 | 24000 | 9920 | 4100 | 2500 | 11300 | 3920 |
| 4 | 1900 | 2200 | 4000 | 7400 | 2100 | 36200 | 22000 | 9590 | 3700 | 5000 | 9000 | 3100 |
| 5 | 1900 | 2100 | 4500 | 5800 | 2050 | 45600 | 20000 | 9260 | 3700 | 11800 | 6800 | 2750 |
| 6 | 1900 | 2100 | 6000 | 5000 | 2000 | 52600 | 18500 | 9030 | 3600 | 12000 | 6200 | 2560 |
| 7 | 1950 | 2000 | 7000 | 4550 | 2000 | 47400 | 17000 | 8010 | 4200 | 9800 | 6200 | 2450 |
| 8 | 1950 | 1900 | 7800 | 4150 | 1950 | 41500 | 15000 | 7380 | 5400 | 7600 | 5820 | 2340 |
| 9 | 1930 | 1840 | 7200 | 3800 | 1900 | 34000 | 13400 | 7110 | 6200 | 3830 | 6220 | 2260 |
| 10 | 1900 | 1840 | 6800 | 3500 | 1850 | 30000 | 14500 | 7020 | 6100 | 3320 | 6000 | 2220 |
| 11 | 2000 | 1900 | 6340 | 3300 | 1850 | 27000 | 16100 | 6940 | 5600 | 4210 | 5660 | 2130 |
| 12 | 2000 | 1840 | 6180 | 3100 | 1850 | 23500 | 24200 | 6790 | 6000 | 4920 | 5600 | 1970 |
| 13 | 2020 | 1850 | 5020 | 3000 | 1800 | 22000 | 28700 | 6640 | 6600 | 4860 | 5600 | 1940 |
| 14 | 2050 | 2400 | 4500 | 2900 | 1800 | 20400 | 31500 | 6590 | 6900 | 5770 | 5800 | 2020 |
| 15 | 2020 | 3300 | 3960 | 2850 | 1750 | 20100 | 26800 | 7050 | 6800 | 6200 | 6000 | 2190 |
| 16 | 2050 | 4100 | 3790 | 2850 | 1700 | 18000 | 24500 | 7630 | 6500 | 6260 | 5540 | 2240 |
| 17 | 2000 | 4500 | 3190 | 2800 | 1700 | 16400 | 20100 | 7470 | 5800 | 5770 | 5140 | 2400 |
| 18 | 1950 | 4900 | 3140 | 2800 | 1650 | 16200 | 14300 | 6760 | 4600 | 5640 | 7000 | 2790 |
| 19 | 2000 | 5000 | 2900 | 2750 | 1650 | 16100 | 12800 | 6050 | 3800 | 4900 | 10500 | 3000 |
| 20 | 2100 | 4500 | 2750 | 2750 | 1750 | 17400 | 13500 | 5590 | 3500 | 5600 | 9210 | 2700 |
| 21 | 2250 | 4450 | 2700 | 2700 | 2000 | 19500 | 12100 | 5290 | 3800 | 5200 | 9060 | 2450 |
| 22 | 2300 | 4400 | 2600 | 2700 | 2500 | 19000 | 11300 | 4970 | 4000 | 4500 | 8810 | 2400 |
| 23 | 2350 | 3900 | 2550 | 2700 | 5000 | 18400 | 10700 | 4680 | 3900 | 4000 | 7500 | 2400 |
| 24 | 2350 | 3600 | 2550 | 2800 | 15000 | 18100 | 9560 | 4120 | 3600 | 3700 | 7600 | 2350 |
| 25 | 2400 | 3500 | 2550 | 2800 | 21000 | 17600 | 9560 | 3930 | 3500 | 3490 | 7500 | 2300 |
| 26 | 2400 | 3450 | 2500 | 2750 | 23000 | 17500 | 12300 | 3930 | 3400 | 4110 | 7500 | 2300 |
| 27 | 2300 | 3350 | 2300 | 2650 | 20000 | 17400 | 12900 | 3930 | 3100 | 4350 | 7200 | 2300 |
| 28 | 2300 | 3350 | 2200 | 2600 | 17000 | 17300 | 13200 | 4000 | 2800 | 4910 | 6400 | 2200 |
| 29 | 2300 | 3400 | 2200 | 2500 | --- | 17900 | 12800 | 4500 | 2600 | 5310 | 6000 | 2250 |
| 30 | 2280 | 3200 | 2400 | 2400 | --- | 21400 | 12200 | 4800 | 3000 | 5650 | 5600 | 2250 |
| 31 | 2250 | --- | 2900 | 2350 | --- | 23500 | --- | 4900 | --- | 4900 | 5200 | --- |
| TOTAL | 64850 | 91470 | 120920 | 118850 | 143500 | 766900 | 523620 | 204280 | 136100 | 165500 | 220870 | 78260 |
| MEAN | 2092 | 3049 | 3901 | 3834 | 5125 | 24740 | 17450 | 6590 | 4537 | 5339 | 7125 | 2609 |
| MAX | 2400 | 5000 | 7800 | 9900 | 23000 | 52600 | 31500 | 10400 | 6900 | 12000 | 11300 | 5300 |
| MIN | 1900 | 1840 | 2200 | 2350 | 1650 | 16100 | 9560 | 3930 | 2600 | 2500 | 5140 | 1940 |
| CFSM | .26 | .37 | .48 | .47 | .62 | 3.01 | 2.12 | .80 | .55 | .65 | .87 | .32 |
| IN. | .29 | .41 | .55 | .54 | .65 | 3.47 | 2.37 | .92 | .62 | .75 | 1.00 | .35 |
| CAL YR 1978 | TOTAL | 2789380 | MEAN | 7642 | MAX | 52600 | MIN | 1600 | CFSM | .93 | IN | 12.63 |
| WTR YR 1979 | TOTAL | 2635120 | MEAN | 7220 | MAX | 52600 | MIN | 1650 | CFSM | .88 | IN | 11.93 |

03339000 VERMILION RIVER NEAR DANVILLE, IL

LOCATION.--Lat 40°05'53", long 87°35'37", in SE¼NW¼ sec.22, T.19 N., R.11 W., Vermilion County, Illinois, Hydrologic Unit 05120109, on left bank 1.5 mi (2.4 km) upstream from Stony Creek and 2.5 mi (4.0 km) southeast of Danville, and at mile 19.2 (30.9 km).

DRAINAGE AREA.--1,290 mi² (3,341 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 853: 1936(M). WSP 973: 1939. WSP 1305: 1915-16, 1920, 1929. WSP 1335: 1934(M). WSP 1909: 1960. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 503.33 ft (153.415 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mi (0.5 km) upstream at same datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 mi (7.2 km) above station, usable capacity, 7,440 acre-ft (9.17 km³), and by Danville sewage-disposal plant.

AVERAGE DISCHARGE.--58 years, 939 ft³/s (26.59 m³/s), 9.88 in/yr (251 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s (1,380 m³/s) Mar. 13, 1939, gage height, 28.59 ft (8.714 m); minimum daily, 2 ft³/s (0.057 m³/s) Oct. 9-14, 1920, Aug. 10, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 5 | 1515 | *23300 660 | *23.64 7.205 | Apr. 28 | 0530 | 6450 183 | 11.13 3.392 |
| Mar. 30 | 2300 | 6620 187 | 11.31 3.447 | Aug. 2 | 0800 | 9770 277 | 14.48 4.414 |
| Apr. 13 | 1200 | 17700 501 | 20.70 6.309 | Aug. 21 | 0945 | 11300 320 | 15.93 4.855 |

Minimum daily discharge, 63 ft³/s (1.78 m³/s) Oct. 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906-07, January 1978 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|-------|-------|--------|--------|-----------|----------|-------|-------|------|
| 1 | 95 | 76 | 205 | 1430 | 172 | 3320 | 4260 | 2440 | 491 | 210 | 7230 | 866 |
| 2 | 88 | 75 | 194 | 1370 | 142 | 4690 | 3200 | 2060 | 483 | 203 | 9280 | 755 |
| 3 | 99 | 70 | 207 | 661 | 167 | 6550 | 2750 | 2110 | 453 | 172 | 6800 | 671 |
| 4 | 92 | 75 | 256 | 540 | 178 | 15600 | 2790 | 2770 | 419 | 1400 | 4180 | 582 |
| 5 | 103 | 76 | 301 | 470 | 167 | 22200 | 3040 | 2370 | 396 | 2010 | 2540 | 509 |
| 6 | 87 | 65 | 262 | 430 | 161 | 19400 | 2520 | 1720 | 387 | 1610 | 1630 | 464 |
| 7 | 80 | 73 | 325 | 390 | 161 | 12200 | 1920 | 1740 | 378 | 1010 | 1300 | 420 |
| 8 | 71 | 72 | 788 | 360 | 172 | 7220 | 2210 | 1510 | 383 | 605 | 1090 | 359 |
| 9 | 63 | 92 | 772 | 320 | 167 | 5870 | 2770 | 1330 | 383 | 539 | 899 | 294 |
| 10 | 65 | 79 | 518 | 300 | 161 | 4810 | 2370 | 1160 | 383 | 487 | 735 | 270 |
| 11 | 70 | 71 | 491 | 270 | 150 | 3440 | 5100 | 1140 | 387 | 414 | 608 | 260 |
| 12 | 83 | 70 | 393 | 250 | 161 | 2690 | 14500 | 1190 | 344 | 338 | 507 | 245 |
| 13 | 108 | 80 | 346 | 230 | 158 | 2390 | 17200 | 1130 | 340 | 297 | 431 | 276 |
| 14 | 111 | 207 | 299 | 220 | 158 | 2860 | 15600 | 1120 | 327 | 359 | 382 | 224 |
| 15 | 93 | 268 | 280 | 210 | 340 | 2950 | 8960 | 1470 | 323 | 1770 | 348 | 210 |
| 16 | 82 | 216 | 272 | 200 | 315 | 2330 | 4560 | 1550 | 265 | 1670 | 317 | 194 |
| 17 | 82 | 283 | 249 | 210 | 175 | 1850 | 3640 | 1260 | 247 | 771 | 288 | 181 |
| 18 | 78 | 472 | 221 | 220 | 167 | 1600 | 2870 | 1070 | 236 | 563 | 467 | 166 |
| 19 | 77 | 381 | 221 | 230 | 147 | 2070 | 2290 | 988 | 236 | 454 | 4200 | 162 |
| 20 | 77 | 273 | 227 | 240 | 150 | 3940 | 1950 | 950 | 240 | 393 | 3190 | 155 |
| 21 | 75 | 229 | 224 | 258 | 181 | 4180 | 1760 | 879 | 247 | 329 | 10700 | 148 |
| 22 | 73 | 208 | 204 | 243 | 247 | 2980 | 1600 | 755 | 226 | 239 | 7800 | 151 |
| 23 | 70 | 224 | 193 | 233 | 1150 | 2490 | 1340 | 666 | 233 | 221 | 6060 | 140 |
| 24 | 70 | 222 | 201 | 223 | 3860 | 2740 | 1260 | 647 | 216 | 232 | 6330 | 132 |
| 25 | 75 | 220 | 203 | 197 | 4110 | 3410 | 2930 | 611 | 203 | 1230 | 5150 | 126 |
| 26 | 90 | 194 | 188 | 161 | 3370 | 2850 | 4720 | 574 | 187 | 2990 | 3220 | 123 |
| 27 | 139 | 211 | 125 | 150 | 2480 | 2170 | 5910 | 596 | 175 | 2760 | 2090 | 120 |
| 28 | 121 | 243 | 137 | 178 | 2520 | 2080 | 5990 | 586 | 175 | 1930 | 1930 | 118 |
| 29 | 86 | 239 | 186 | 178 | --- | 3800 | 3700 | 528 | 172 | 1180 | 2300 | 123 |
| 30 | 75 | 234 | 208 | 178 | --- | 6300 | 2910 | 474 | 184 | 930 | 1420 | 118 |
| 31 | 75 | --- | 364 | 172 | --- | 5900 | --- | 463 | --- | 2780 | 1100 | --- |
| TOTAL | 2653 | 5298 | 9060 | 10722 | 21487 | 166880 | 136620 | 37857 | 9119 | 30096 | 94522 | 8562 |
| MEAN | 85.6 | 177 | 292 | 346 | 767 | 5383 | 4554 | 1221 | 304 | 971 | 3049 | 285 |
| MAX | 139 | 472 | 788 | 1430 | 4110 | 22200 | 17200 | 2770 | 491 | 2990 | 10700 | 866 |
| MIN | 63 | 65 | 125 | 150 | 142 | 1600 | 1260 | 463 | 172 | 172 | 288 | 118 |
| CFSM | .07 | .14 | .23 | .27 | .60 | 4.17 | 3.53 | .95 | .24 | .75 | 2.36 | .22 |
| IN. | .08 | .15 | .26 | .31 | .62 | 4.81 | 3.94 | 1.09 | .26 | .87 | 2.73 | .25 |
| CAL YR 1978 | TOTAL | 279992 | MEAN | 767 | MAX | 10900 | MIN 63 | CFSM .60 | IN 8.07 | | | |
| WTR YR 1979 | TOTAL | 532876 | MEAN | 1460 | MAX | 22200 | MIN 63 | CFSM 1.13 | IN 15.37 | | | |

03339108 EAST FORK COAL CREEK NEAR HILLSBORO, IN

LOCATION.--Lat 40°06'06", long 87°07'54", in NW¼SW¼ sec.8, T.19 N., R.6 W., Fountain County, Hydrologic Unit 05120108, 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 mi² (86.5 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 673.76 ft (205.362 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 38.2 ft³/s (1.082 m³/s), 15.53 in/yr (394 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft³/s (73.9 m³/s) Oct. 1, 1977, gage height, 10.33 ft (3.149 m); minimum daily, 3.5 ft³/s (0.099 m³/s) Jan. 16, 17, Feb. 6, 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | unknown | 930 26.3 | unknown | Apr. 11 | 1645 | 844 23.9 | 5.95 1.814 |
| Mar. 4 | unknown | *1600 45.3 | unknown | July 25 | 1315 | 1470 41.6 | 7.80 2.377 |

Minimum daily discharge, 4.3 ft³/s (0.122 m³/s) Oct. 9, 10.

NOTE.--No gage-height record Jan. 2 to Mar. 5.

| DAY | OCT | DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979 | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--|------|------|--------|------|------|------|-------|------|------|-------|-----|
| 1 | 5.8 | 4.4 | 23 | 140 | 10 | 240 | 106 | 51 | 50 | 22 | 208 | 29 | |
| 2 | 6.0 | 4.4 | 22 | 100 | 10 | 450 | 98 | 46 | 23 | 17 | 140 | 27 | |
| 3 | 6.2 | 4.5 | 39 | 72 | 9.8 | 700 | 88 | 44 | 20 | 15 | 77 | 25 | |
| 4 | 5.8 | 4.7 | 43 | 49 | 9.4 | 1100 | 82 | 43 | 17 | 176 | 67 | 23 | |
| 5 | 5.4 | 5.0 | 34 | 34 | 9.2 | 161 | 94 | 41 | 16 | 88 | 52 | 22 | |
| 6 | 5.2 | 8.0 | 27 | 26 | 8.9 | 122 | 89 | 38 | 14 | 67 | 75 | 21 | |
| 7 | 4.9 | 11 | 41 | 23 | 8.8 | 115 | 78 | 37 | 16 | 27 | 56 | 20 | |
| 8 | 4.6 | 6.0 | 78 | 20 | 8.6 | 107 | 87 | 34 | 18 | 24 | 42 | 19 | |
| 9 | 4.3 | 5.2 | 50 | 18 | 8.4 | 112 | 184 | 33 | 16 | 22 | 35 | 18 | |
| 10 | 4.3 | 4.7 | 42 | 17 | 8.3 | 127 | 112 | 31 | 13 | 21 | 31 | 18 | |
| 11 | 10 | 4.4 | 29 | 16 | 8.2 | 102 | 364 | 38 | 12 | 20 | 29 | 18 | |
| 12 | 17 | 8.0 | 25 | 15 | 8.1 | 90 | 403 | 39 | 13 | 19 | 25 | 17 | |
| 13 | 21 | 30 | 25 | 14 | 7.9 | 84 | 141 | 40 | 15 | 54 | 23 | 16 | |
| 14 | 16 | 160 | 22 | 14 | 7.9 | 85 | 114 | 34 | 14 | 69 | 21 | 16 | |
| 15 | 13 | 55 | 21 | 15 | 7.8 | 82 | 108 | 44 | 13 | 52 | 20 | 15 | |
| 16 | 11 | 40 | 21 | 14 | 7.8 | 74 | 101 | 27 | 11 | 34 | 19 | 15 | |
| 17 | 8.6 | 75 | 20 | 14 | 7.8 | 68 | 92 | 22 | 10 | 27 | 18 | 14 | |
| 18 | 7.2 | 62 | 19 | 14 | 7.8 | 66 | 83 | 21 | 9.6 | 24 | 44 | 14 | |
| 19 | 5.8 | 43 | 16 | 14 | 7.8 | 66 | 74 | 20 | 14 | 21 | 81 | 15 | |
| 20 | 5.0 | 38 | 17 | 14 | 7.8 | 69 | 66 | 20 | 22 | 20 | 101 | 12 | |
| 21 | 4.7 | 33 | 18 | 14 | 21 | 68 | 61 | 18 | 18 | 18 | 77 | 11 | |
| 22 | 4.5 | 28 | 16 | 14 | 66 | 65 | 57 | 18 | 14 | 18 | 49 | 11 | |
| 23 | 4.6 | 27 | 15 | 14 | 200 | 105 | 53 | 17 | 13 | 18 | 173 | 11 | |
| 24 | 4.7 | 28 | 14 | 15 | 580 | 117 | 51 | 16 | 12 | 27 | 119 | 14 | |
| 25 | 5.2 | 25 | 13 | 18 | 300 | 102 | 51 | 16 | 11 | 602 | 89 | 13 | |
| 26 | 11 | 24 | 15 | 16 | 200 | 84 | 56 | 17 | 11 | 127 | 62 | 12 | |
| 27 | 7.0 | 33 | 20 | 14 | 150 | 72 | 62 | 19 | 12 | 71 | 52 | 12 | |
| 28 | 5.0 | 35 | 15 | 13 | 180 | 69 | 63 | 18 | 13 | 93 | 43 | 12 | |
| 29 | 4.6 | 29 | 14 | 12 | --- | 82 | 61 | 16 | 33 | 81 | 38 | 9.3 | |
| 30 | 4.5 | 26 | 15 | 11 | --- | 114 | 56 | 25 | 56 | 166 | 35 | 8.9 | |
| 31 | 4.5 | --- | 72 | 11 | --- | 119 | --- | 36 | --- | 98 | 32 | --- | |
| TOTAL | 227.4 | 861.3 | 841 | 795 | 1867.3 | 5017 | 3135 | 919 | 529.6 | 2138 | 1933 | 488.2 | |
| MEAN | 7.34 | 28.7 | 27.1 | 25.6 | 66.7 | 162 | 105 | 29.6 | 17.7 | 69.0 | 62.4 | 16.3 | |
| MAX | 21 | 160 | 78 | 140 | 580 | 1100 | 403 | 51 | 56 | 602 | 208 | 29 | |
| MIN | 4.3 | 4.4 | 13 | 11 | 7.8 | 65 | 51 | 16 | 9.6 | 15 | 18 | 8.9 | |
| CFSM | .22 | .86 | .81 | .77 | 2.00 | 4.85 | 3.14 | .89 | .53 | 2.07 | 1.87 | .49 | |
| IN. | .25 | .96 | .94 | .89 | 2.08 | 5.59 | 3.49 | 1.02 | .59 | 2.38 | 2.15 | .54 | |
| CAL YR 1978 | TOTAL | 11857.4 | MEAN | 32.5 | MAX | 591 | MIN | 4.3 | CFSM | .97 | IN | 13.21 | |
| WTR YR 1979 | TOTAL | 18751.8 | MEAN | 51.4 | MAX | 1100 | MIN | 4.3 | CFSM | 1.54 | IN | 20.88 | |

WABASH RIVER BASIN

03339500 SUGAR CREEK AT CRAWFORDSVILLE, IN

LOCATION.--Lat 40°02'56", long 86°53'58", in SW¼NW¼ sec.32, T.19 N., R.4 W., Montgomery County, Hydrologic Unit 05120110, on left bank 327 ft (100 m) upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 0.5 mile (0.8 km) upstream from bridge on State Highway 43, 1.0 mile (1.6 km) downstream from Walnut Fork Sugar Creek, and at mile 40.4 (65.0 km).

DRAINAGE AREA.--509 mi² (1,318 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.

GAGE.--Water-stage recorder. Datum of gage is 657.77 ft (200.488 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--41 years, 486 ft³/s (13.76 m³/s), 12.97 in/yr (329 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft³/s (745 m³/s) June 28, 1957, gage height, 14.48 ft (4.414 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Sept. 24-27, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913, reached a stage of 17.3 ft (5.27 m) from information by local resident, discharge, about 36,000 ft³/s (1,020 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (113 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0800 | 4330 123 | 4.44 1.353 | July 26 | 0200 | 5670 160 | 5.13 1.564 |
| Feb. 23 | 1500 | 7260 206 | 6.09 1.856 | July 29 | 0800 | 5420 153 | 4.99 1.521 |
| Mar. 4 | 1300 | *9750 276 | *7.75 2.362 | Aug. 1 | 2200 | 4990 141 | 4.76 1.451 |
| Apr. 12 | 1100 | 4660 132 | 4.60 1.402 | | | | |

Minimum daily discharge, 41 ft³/s (1.16 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 41 | 52 | 209 | 3910 | 118 | 2920 | 1070 | 330 | 408 | 185 | 2470 | 254 |
| 2 | 41 | 53 | 189 | 2340 | 110 | 3390 | 1030 | 309 | 291 | 129 | 4210 | 228 |
| 3 | 44 | 50 | 420 | 1600 | 108 | 3450 | 894 | 328 | 222 | 102 | 2340 | 207 |
| 4 | 44 | 51 | 1280 | 900 | 105 | 8080 | 788 | 312 | 192 | 1850 | 1360 | 237 |
| 5 | 49 | 50 | 845 | 530 | 102 | 6510 | 1010 | 280 | 174 | 2250 | 922 | 234 |
| 6 | 49 | 49 | 542 | 440 | 100 | 2970 | 922 | 268 | 162 | 898 | 1500 | 192 |
| 7 | 53 | 53 | 452 | 342 | 97 | 2210 | 695 | 258 | 155 | 496 | 1130 | 167 |
| 8 | 49 | 51 | 1250 | 280 | 95 | 1800 | 703 | 245 | 158 | 336 | 705 | 148 |
| 9 | 47 | 51 | 1190 | 239 | 93 | 1570 | 2390 | 232 | 166 | 265 | 496 | 133 |
| 10 | 45 | 56 | 760 | 215 | 92 | 2030 | 1760 | 224 | 151 | 222 | 395 | 125 |
| 11 | 51 | 56 | 605 | 198 | 90 | 1290 | 1650 | 274 | 138 | 190 | 340 | 119 |
| 12 | 58 | 54 | 404 | 184 | 89 | 891 | 4190 | 313 | 134 | 166 | 294 | 114 |
| 13 | 75 | 61 | 357 | 172 | 88 | 772 | 2810 | 340 | 135 | 1310 | 255 | 108 |
| 14 | 91 | 634 | 311 | 169 | 87 | 966 | 1640 | 280 | 147 | 2850 | 229 | 115 |
| 15 | 85 | 924 | 284 | 171 | 86 | 879 | 1180 | 398 | 136 | 1540 | 207 | 106 |
| 16 | 78 | 512 | 267 | 172 | 85 | 674 | 886 | 333 | 118 | 897 | 189 | 92 |
| 17 | 70 | 804 | 238 | 170 | 84 | 586 | 701 | 266 | 110 | 554 | 176 | 86 |
| 18 | 65 | 1350 | 212 | 168 | 84 | 557 | 569 | 241 | 104 | 386 | 183 | 83 |
| 19 | 61 | 775 | 212 | 172 | 85 | 578 | 493 | 230 | 101 | 303 | 230 | 77 |
| 20 | 59 | 500 | 218 | 163 | 86 | 606 | 445 | 221 | 104 | 244 | 555 | 74 |
| 21 | 57 | 381 | 297 | 162 | 88 | 559 | 408 | 206 | 134 | 206 | 1770 | 74 |
| 22 | 54 | 316 | 292 | 169 | 368 | 502 | 371 | 189 | 113 | 183 | 1010 | 70 |
| 23 | 53 | 291 | 252 | 168 | 3330 | 807 | 339 | 184 | 101 | 163 | 1110 | 68 |
| 24 | 50 | 296 | 240 | 165 | 6080 | 1520 | 339 | 179 | 93 | 196 | 1360 | 65 |
| 25 | 51 | 264 | 236 | 195 | 4190 | 1150 | 380 | 172 | 85 | 2560 | 787 | 65 |
| 26 | 57 | 237 | 205 | 195 | 1960 | 767 | 412 | 168 | 81 | 5380 | 514 | 62 |
| 27 | 57 | 241 | 159 | 173 | 1510 | 595 | 397 | 193 | 78 | 3250 | 412 | 62 |
| 28 | 59 | 257 | 152 | 155 | 2010 | 548 | 416 | 197 | 76 | 3110 | 352 | 59 |
| 29 | 55 | 236 | 168 | 141 | --- | 778 | 404 | 171 | 124 | 5050 | 399 | 59 |
| 30 | 54 | 223 | 185 | 131 | --- | 1170 | 374 | 156 | 316 | 2650 | 385 | 59 |
| 31 | 52 | --- | 728 | 122 | --- | 1360 | --- | 174 | --- | 1540 | 304 | --- |
| TOTAL | 1754 | 8928 | 13159 | 14311 | 21420 | 52485 | 29666 | 7671 | 4507 | 39461 | 26589 | 3542 |
| MEAN | 56.6 | 298 | 424 | 462 | 765 | 1693 | 989 | 247 | 150 | 1273 | 858 | 118 |
| MAX | 91 | 1350 | 1280 | 3910 | 6080 | 8080 | 4190 | 398 | 408 | 5380 | 4210 | 254 |
| MIN | 41 | 49 | 152 | 122 | 84 | 502 | 339 | 156 | 76 | 102 | 176 | 59 |
| CFSM | .11 | .59 | .83 | .91 | 1.50 | 3.33 | 1.94 | .49 | .30 | 2.50 | 1.69 | .23 |
| IN. | .13 | .65 | .96 | 1.05 | 1.57 | 3.84 | 2.17 | .56 | .33 | 2.88 | 1.94 | .26 |

| | | | | | | | | | | | | |
|-------------|-------|--------|------|-----|-----|------|-----|----|------|------|----|-------|
| CAL YR 1978 | TOTAL | 216328 | MEAN | 593 | MAX | 8170 | MIN | 41 | CFSM | 1.17 | IN | 15.81 |
| WTR YR 1979 | TOTAL | 223493 | MEAN | 612 | MAX | 8080 | MIN | 41 | CFSM | 1.20 | IN | 16.33 |

03339500 SUGAR CREEK AT CRAWFORDSVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: February 1972 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| OCT 11... | 1000 | -- | 51 | 20 | 2.8 | -- | -- | -- | -- | -- |
| DEC 19... | 1215 | 2.5 | 212 | 46 | 26 | -- | -- | -- | -- | -- |
| MAR 13... | 1050 | -- | 752 | 26 | 53 | -- | -- | -- | -- | -- |
| JUL 27... | 0950 | -- | 3120 | 290 | 2440 | 90 | 91 | 92 | 95 | 100 |

03340500 WABASH RIVER AT MONTEZUMA, IN

LOCATION.--Lat 39°47'33", long 87°22'26", in SE¼NE¼ sec.35, T.16 N., R.9 W., Parke County, Hydrologic Unit 05120108, on downstream side of first pier from left bank of bridge on U.S. Highway 36 at Montezuma, 2.0 miles (3.2 km) upstream from Raccoon Creek, 4.9 miles (7.9 km) downstream from Sugar Creek, and at mile 240.0 (386.0 km).

DRAINAGE AREA.--11,118 mi² (28,796 km²).

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage height only) in reports of State of Indiana, Department of Natural Resources.

REVISED RECORDS.--WSP 1335: 1929, 1931(M). WSP 1505: 1954. WSP 1915: 1954(m). WSP 2109: Drainage area. WRD Ind. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft (139.522 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow partially regulated by upstream reservoirs.

AVERAGE DISCHARGE.--52 years, 9,614 ft³/s (272 m³/s), 11.74 in/yr (298 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184,000 ft³/s (5,210 m³/s) May 20, 1943, gage height, 32.83 ft (10.007 m); minimum daily, 571 ft³/s (16.2 m³/s) Sept. 24, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 27, 1913, reached a stage of 34.0 ft (10.36 m), from floodmarks, discharge, 230,000 ft³/s (6,510 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76,600 ft³/s (2,170 m³/s) Mar. 7, gage height, 27.08 ft (8.254 m); minimum daily, 2,200 ft³/s (62.3 m³/s) Feb. 20.

NOTE.--No gage-height record Jan. 2 to Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| 1 | 2210 | 2720 | 3750 | 12100 | 3000 | 24700 | 31500 | 17800 | 6390 | 4450 | 15400 | 7850 |
| 2 | 2250 | 2730 | 3500 | 13000 | 2900 | 28000 | 32400 | 16000 | 6440 | 4100 | 28100 | 7500 |
| 3 | 2260 | 2810 | 3630 | 12000 | 2900 | 30700 | 32000 | 14600 | 6080 | 3820 | 27700 | 6950 |
| 4 | 2240 | 2650 | 4580 | 10000 | 2800 | 42200 | 29000 | 13900 | 5710 | 5400 | 22500 | 5940 |
| 5 | 2280 | 2630 | 5210 | 8000 | 2800 | 60400 | 25800 | 14200 | 5350 | 15700 | 16500 | 5220 |
| 6 | 2270 | 2580 | 5800 | 6700 | 2700 | 69700 | 23000 | 13500 | 5120 | 15900 | 12800 | 4740 |
| 7 | 2320 | 2430 | 7300 | 6000 | 2600 | 75600 | 20800 | 12500 | 5040 | 10500 | 12600 | 4360 |
| 8 | 2260 | 2350 | 8800 | 5600 | 2600 | 71200 | 18500 | 11600 | 5220 | 7320 | 10400 | 4090 |
| 9 | 2270 | 2310 | 8600 | 5100 | 2500 | 61400 | 23300 | 10700 | 5780 | 5830 | 9360 | 3880 |
| 10 | 2240 | 2290 | 8000 | 4800 | 2500 | 53200 | 23300 | 9900 | 6520 | 5280 | 9220 | 3680 |
| 11 | 2240 | 2410 | 7500 | 4500 | 2500 | 46000 | 24000 | 9250 | 6720 | 5700 | 8770 | 3590 |
| 12 | 2370 | 2340 | 6900 | 4300 | 2450 | 39500 | 36800 | 9300 | 6350 | 5980 | 8470 | 3430 |
| 13 | 2370 | 2350 | 6000 | 4000 | 2450 | 34100 | 42800 | 9720 | 6060 | 6260 | 7980 | 3240 |
| 14 | 2400 | 3770 | 5400 | 3800 | 2400 | 30300 | 48800 | 9690 | 6690 | 8530 | 7630 | 3190 |
| 15 | 2370 | 4800 | 5350 | 3700 | 2350 | 28100 | 49900 | 10300 | 7320 | 10600 | 7670 | 3310 |
| 16 | 2410 | 4580 | 4960 | 3700 | 2300 | 26900 | 44200 | 11200 | 7140 | 10700 | 7410 | 3290 |
| 17 | 2350 | 4680 | 4670 | 3700 | 2300 | 25600 | 35700 | 11000 | 6690 | 9540 | 7020 | 3210 |
| 18 | 2320 | 5880 | 4320 | 3600 | 2250 | 23600 | 27800 | 10300 | 6210 | 8020 | 6710 | 3500 |
| 19 | 2540 | 5750 | 4020 | 3600 | 2250 | 22300 | 22000 | 9460 | 5420 | 7300 | 20300 | 3790 |
| 20 | 2740 | 5190 | 3770 | 3600 | 2200 | 23300 | 19300 | 8770 | 4860 | 7340 | 24500 | 3530 |
| 21 | 2770 | 4980 | 3650 | 3600 | 2400 | 24800 | 17600 | 8180 | 5260 | 7220 | 27900 | 3210 |
| 22 | 2800 | 4890 | 3590 | 3600 | 3000 | 25000 | 16200 | 7650 | 5380 | 7030 | 25500 | 3140 |
| 23 | 2840 | 4500 | 3490 | 3550 | 4000 | 23900 | 15600 | 7090 | 5360 | 6430 | 20500 | 3140 |
| 24 | 2910 | 4190 | 3350 | 3600 | 22400 | 24400 | 14900 | 6540 | 5210 | 5590 | 22600 | 3040 |
| 25 | 2880 | 4120 | 3320 | 3700 | 24500 | 25300 | 14800 | 6420 | 4780 | 5530 | 17600 | 3000 |
| 26 | 2760 | 3890 | 3370 | 3600 | 22800 | 25400 | 17500 | 6110 | 4440 | 13900 | 14900 | 2990 |
| 27 | 2880 | 3790 | 3150 | 3500 | 22100 | 23900 | 19900 | 6030 | 4140 | 13600 | 12400 | 2950 |
| 28 | 2880 | 3810 | 2830 | 3450 | 22800 | 21700 | 21900 | 5910 | 3990 | 16600 | 10600 | 2890 |
| 29 | 2860 | 3990 | 2800 | 3400 | --- | 21500 | 21200 | 5750 | 3800 | 23400 | 10500 | 2910 |
| 30 | 2770 | 3900 | 2890 | 3300 | --- | 25600 | 19100 | 6010 | 4230 | 18100 | 9970 | 2840 |
| 31 | 2720 | --- | 3590 | 3200 | --- | 29400 | --- | 6280 | --- | 12300 | 8760 | --- |
| TOTAL | 77780 | 109310 | 148090 | 160300 | 174750 | 1087700 | 789600 | 305660 | 167700 | 287970 | 452270 | 118400 |
| MEAN | 2509 | 3644 | 4777 | 5171 | 6241 | 35090 | 26320 | 9860 | 5590 | 9289 | 14590 | 3947 |
| MAX | 2910 | 5880 | 8800 | 13000 | 24500 | 75600 | 49900 | 17800 | 7320 | 23400 | 28100 | 7850 |
| MIN | 2210 | 2290 | 2800 | 3200 | 2200 | 21500 | 14800 | 5750 | 3800 | 3820 | 6710 | 2840 |
| CFSM | .23 | .33 | .43 | .47 | .56 | 3.16 | 2.37 | .89 | .50 | .84 | 1.31 | .36 |
| IN. | .26 | .37 | .50 | .54 | .58 | 3.64 | 2.64 | 1.02 | .56 | .96 | 1.51 | .40 |
| CAL YR 1978 | TOTAL | 3821360 | MEAN | 10470 | MAX | 71900 | MIN | 1950 | CFSM | .94 | IN | 12.79 |
| WTR YR 1979 | TOTAL | 3879530 | MEAN | 10630 | MAX | 75600 | MIN | 2200 | CFSM | .96 | IN | 12.98 |

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN

LOCATION.--Lat 39°48'45", long 86°57'14", in NW¼SW¼ sec.22, T.16 N., R.5 W., Putnam County, Hydrologic Unit 05120108, on left bank at downstream side of county road bridge, 1.6 miles (2.6 km) upstream from Ramp Creek, 3.1 miles (5.0 km) west of Fincastle, and at mile 48.8 (78.5 km).

DRAINAGE AREA.--130 mi² (360 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

REVISED RECORDS.--WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 686.03 ft (209.102 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--22 years, 144 ft³/s (4.078 m³/s), 14.07 in/yr (357 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 26, 1962; maximum gage height, 15.68 ft (4.779 m) Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Sept. 16, 17, and Oct. 5, 6, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.10 ft (5.822 m), discharge, 39,900 ft³/s (1,130 m³/s), from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0700 | 2120 60.0 | 8.93 2.722 | July 13 | 1900 | 1960 55.5 | 8.94 2.725 |
| Feb. 24 | 0300 | 4000 113 | 11.67 3.557 | July 29 | 1100 | 3950 112 | 11.93 3.636 |
| Mar. 4 | 2200 | *6170 175 | *13.36 4.072 | | | | |

Minimum daily discharge, 10 ft³/s (0.28 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|------|------|------|-------|------|------|
| 1 | 11 | 12 | 74 | 1660 | 52 | 840 | 236 | 101 | 173 | 62 | 882 | 111 |
| 2 | 12 | 12 | 68 | 671 | 50 | 999 | 274 | 96 | 98 | 39 | 840 | 91 |
| 3 | 12 | 11 | 358 | 310 | 48 | 1380 | 238 | 100 | 72 | 30 | 423 | 78 |
| 4 | 12 | 11 | 661 | 165 | 47 | 4350 | 228 | 94 | 60 | 199 | 298 | 68 |
| 5 | 12 | 11 | 365 | 137 | 46 | 2200 | 299 | 87 | 52 | 152 | 226 | 63 |
| 6 | 12 | 12 | 245 | 115 | 44 | 676 | 252 | 81 | 47 | 70 | 355 | 58 |
| 7 | 11 | 12 | 216 | 103 | 43 | 543 | 200 | 80 | 44 | 47 | 242 | 52 |
| 8 | 11 | 11 | 498 | 92 | 42 | 439 | 208 | 80 | 51 | 40 | 168 | 45 |
| 9 | 10 | 11 | 428 | 82 | 40 | 366 | 816 | 76 | 47 | 37 | 129 | 41 |
| 10 | 11 | 12 | 267 | 74 | 39 | 392 | 461 | 73 | 42 | 33 | 110 | 38 |
| 11 | 13 | 12 | 195 | 69 | 38 | 279 | 377 | 76 | 39 | 29 | 103 | 35 |
| 12 | 15 | 11 | 164 | 66 | 37 | 217 | 1200 | 91 | 34 | 28 | 92 | 32 |
| 13 | 19 | 12 | 150 | 66 | 42 | 192 | 584 | 97 | 32 | 1150 | 83 | 30 |
| 14 | 21 | 568 | 130 | 68 | 45 | 214 | 370 | 82 | 33 | 1030 | 76 | 29 |
| 15 | 18 | 488 | 121 | 68 | 37 | 195 | 282 | 112 | 31 | 468 | 70 | 28 |
| 16 | 16 | 278 | 111 | 66 | 30 | 171 | 223 | 88 | 28 | 259 | 64 | 26 |
| 17 | 15 | 630 | 99 | 68 | 37 | 158 | 182 | 71 | 25 | 162 | 59 | 25 |
| 18 | 14 | 661 | 88 | 66 | 38 | 153 | 157 | 64 | 24 | 115 | 60 | 24 |
| 19 | 13 | 357 | 90 | 64 | 40 | 156 | 142 | 61 | 23 | 90 | 249 | 23 |
| 20 | 12 | 239 | 94 | 70 | 54 | 161 | 133 | 59 | 27 | 74 | 554 | 22 |
| 21 | 12 | 186 | 122 | 80 | 83 | 153 | 126 | 55 | 60 | 62 | 528 | 22 |
| 22 | 12 | 152 | 116 | 85 | 345 | 146 | 117 | 50 | 44 | 55 | 461 | 21 |
| 23 | 12 | 148 | 100 | 72 | 1910 | 227 | 110 | 48 | 30 | 49 | 381 | 21 |
| 24 | 12 | 160 | 97 | 83 | 2810 | 399 | 111 | 49 | 25 | 54 | 424 | 20 |
| 25 | 12 | 132 | 84 | 94 | 1000 | 312 | 128 | 46 | 23 | 171 | 217 | 19 |
| 26 | 13 | 112 | 72 | 74 | 599 | 213 | 132 | 44 | 20 | 821 | 157 | 19 |
| 27 | 13 | 111 | 64 | 65 | 492 | 174 | 120 | 53 | 19 | 813 | 144 | 18 |
| 28 | 13 | 106 | 62 | 60 | 553 | 164 | 122 | 50 | 18 | 1510 | 175 | 18 |
| 29 | 12 | 91 | 68 | 58 | --- | 225 | 114 | 42 | 221 | 3280 | 374 | 18 |
| 30 | 11 | 85 | 74 | 56 | --- | 304 | 110 | 39 | 163 | 1790 | 229 | 18 |
| 31 | 11 | --- | 444 | 54 | --- | 282 | --- | 51 | --- | 598 | 148 | --- |
| TOTAL | 403 | 4654 | 5725 | 4861 | 8641 | 16680 | 8052 | 2196 | 1605 | 13317 | 8321 | 1113 |
| MEAN | 13.0 | 155 | 185 | 157 | 309 | 538 | 268 | 70.8 | 53.5 | 430 | 268 | 37.1 |
| MAX | 21 | 661 | 661 | 1660 | 2810 | 4350 | 1200 | 112 | 221 | 3280 | 882 | 111 |
| MIN | 10 | 11 | 62 | 54 | 30 | 146 | 110 | 39 | 18 | 28 | 59 | 18 |
| CFSM | .09 | 1.12 | 1.33 | 1.13 | 2.22 | 3.87 | 1.93 | .51 | .39 | 3.09 | 1.93 | .27 |
| IN. | .11 | 1.25 | 1.53 | 1.30 | 2.31 | 4.46 | 2.15 | .59 | .43 | 3.56 | 2.23 | .30 |

| CAL YR 1978 | TOTAL | 63653 | MEAN 174 | MAX 2800 | MIN 10 | CFSM 1.25 | IN 17.04 |
|-------------|-------|-------|----------|----------|--------|-----------|----------|
| WTR YR 1979 | TOTAL | 75568 | MEAN 207 | MAX 4350 | MIN 10 | CFSM 1.49 | IN 20.22 |

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN--Continued

WATER-DISCHARGE RECORDS--Continued

REVISIONS.--Revised daily discharges, in cubic feet per second, for 1978 water year are given below. These figures supersede those published in WRD for Indiana 1978.

| | | | | | | |
|-----------------|-----------------|-----------------|------|-----|------|-------|
| Sept. 20.....38 | Sept. 24.....22 | Sept. 28.....15 | | | | |
| Sept. 21.....31 | Sept. 25.....20 | Sept. 29.....14 | | | | |
| Sept. 22.....26 | Sept. 26.....18 | Sept. 30.....13 | | | | |
| Sept. 23.....24 | Sept. 27.....17 | | | | | |
| Month | Total | Mean | Max | Min | CFSM | In. |
| Sept. 1978 | 1566 | 52.2 | 249 | 13 | .38 | .42 |
| Cal Yr 1977 | 46241.6 | 127 | 2910 | 3.9 | .91 | 12.38 |
| Wtr Yr 1978 | 79001 | 216 | 2910 | 10 | 1.56 | 21.18 |

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1975 to September 1977.

WATER TEMPERATURE: July 1965 to September 1977. Prior to October 1975 fragmentary instantaneous observations.

SEDIMENT DISCHARGE: August 1959 to September 1971, October 1973 to March 1979 (partial-record station, October 1971 to September 1973) (discontinued).

INSTRUMENTATION.--Multi-parameter monitor.

REMARKS.--Conductance, temperature and sediment discharge records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 753 micromhos Oct. 31, 1978; minimum, 160 micromhos Feb. 24, 1979.

WATER TEMPERATURE: Maximum observed, 31°C July 16, 1966; minimum, freezing point on many days during winter period of most years.

SEDIMENT CONCENTRATION: Maximum daily, 27,900 mg/L Jan. 29, 1970; minimum daily, 0 mg/L June 9, 1978.

SEDIMENT DISCHARGE: Maximum daily, 295,000 tons (268,000 tonnes) Dec. 22, 1967; minimum daily, 0.00 ton (0.000 tonne) June 9, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 753 micromhos Oct. 31; minimum, 160 micromhos Feb. 24.

WATER TEMPERATURE: Maximum, 28.5°C Sept. 20; minimum, freezing point on Feb. 15.

SEDIMENT CONCENTRATION: Maximum daily, 1,540 mg/L March 4; minimum daily, 1 mg/L Dec. 26.

SEDIMENT DISCHARGE: Maximum daily, 18,100 tons (16,400 tonnes) March 4; minimum daily, 0.19 ton (0.172 tonne) Dec. 26.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 598 | 571 | 724 | 611 | 655 | 651 | 327 | 235 | 650 | 646 | 472 | 303 |
| 2 | --- | --- | 736 | 624 | 656 | 652 | 335 | 308 | 650 | 645 | 304 | 286 |
| 3 | 594 | 565 | 715 | 652 | 653 | 471 | 376 | 337 | 654 | 644 | 303 | 215 |
| 4 | 588 | 561 | 679 | 607 | 535 | 481 | 408 | 378 | 656 | 651 | 245 | 174 |
| 5 | 594 | 564 | 665 | 606 | 590 | 539 | 435 | 408 | 666 | 657 | 394 | 205 |
| 6 | 595 | 584 | 641 | 627 | 616 | 592 | 467 | 435 | 665 | 659 | 456 | 401 |
| 7 | 602 | 581 | 641 | 614 | 623 | 617 | 478 | 467 | 670 | 660 | 485 | 460 |
| 8 | 616 | 574 | 664 | 614 | 623 | 608 | 494 | 478 | 675 | 670 | 523 | 486 |
| 9 | 611 | 574 | 667 | 614 | 620 | 609 | 510 | 495 | 677 | 671 | --- | --- |
| 10 | 618 | 596 | 668 | 614 | 631 | 620 | 527 | 511 | 679 | 675 | --- | --- |
| 11 | 635 | 612 | 691 | 615 | 643 | 631 | 539 | 528 | 687 | 679 | --- | --- |
| 12 | 652 | 611 | 683 | 655 | 654 | 644 | 546 | 538 | 693 | 687 | --- | --- |
| 13 | 604 | 566 | --- | --- | 664 | 654 | 557 | 546 | 693 | 688 | --- | --- |
| 14 | 599 | 576 | --- | --- | 674 | 665 | 557 | 557 | 690 | 686 | 577 | 569 |
| 15 | 581 | 576 | --- | --- | 685 | 674 | 576 | 569 | 687 | 650 | 585 | 571 |
| 16 | 593 | 579 | --- | --- | 696 | 685 | 585 | 576 | 656 | 648 | 588 | 578 |
| 17 | 603 | 586 | --- | --- | 709 | 697 | 594 | 585 | 670 | 651 | 591 | 587 |
| 18 | 619 | 592 | --- | --- | --- | --- | 599 | 594 | 679 | 672 | 591 | 586 |
| 19 | 615 | 586 | --- | --- | 655 | 648 | 603 | 598 | 685 | 664 | 590 | 578 |
| 20 | 707 | 591 | --- | --- | 656 | 612 | 607 | 602 | 684 | 660 | 581 | 576 |
| 21 | 695 | 602 | --- | --- | 654 | 643 | 614 | 604 | 669 | 640 | 589 | 580 |
| 22 | 704 | 621 | --- | --- | 661 | 653 | 621 | 614 | 633 | 379 | 589 | 580 |
| 23 | 693 | 651 | --- | --- | --- | --- | 623 | 620 | 372 | 171 | 582 | 526 |
| 24 | 659 | 597 | --- | --- | 674 | 665 | 628 | 623 | 266 | 160 | 543 | 530 |
| 25 | 639 | 621 | --- | --- | 680 | 674 | 629 | 625 | 360 | 274 | 568 | 542 |
| 26 | 660 | 619 | --- | --- | 686 | 680 | 629 | 626 | --- | --- | 585 | 569 |
| 27 | 699 | 599 | --- | --- | 703 | 686 | 628 | 627 | --- | --- | 589 | 584 |
| 28 | 680 | 613 | --- | --- | 703 | 700 | 630 | 627 | --- | --- | 588 | 577 |
| 29 | 638 | 607 | --- | --- | 706 | 703 | 637 | 630 | --- | --- | 577 | 549 |
| 30 | 723 | 602 | 655 | 648 | 711 | 706 | 643 | 637 | --- | --- | 553 | 548 |
| 31 | 753 | 629 | --- | --- | 713 | 333 | 650 | 643 | --- | --- | 570 | 552 |
| MONTH | 753 | 561 | | | | | 650 | 235 | 693 | 160 | | |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | | |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|--|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 576 | 568 | --- | --- | 603 | 509 | --- | --- | 465 | 404 | | |
| 2 | 577 | 570 | --- | --- | 629 | 541 | 386 | 373 | 537 | 450 | | |
| 3 | 586 | 575 | --- | --- | 637 | 624 | 370 | 257 | --- | --- | | |
| 4 | 588 | 579 | --- | --- | 648 | 626 | 259 | 231 | --- | --- | | |
| 5 | 580 | 558 | --- | --- | 674 | 649 | 270 | 242 | --- | --- | | |
| 6 | 572 | 565 | --- | --- | --- | --- | 397 | 242 | --- | --- | | |
| 7 | 574 | 568 | --- | --- | --- | --- | 394 | 243 | --- | --- | | |
| 8 | --- | --- | --- | --- | --- | --- | 289 | 244 | --- | --- | | |
| 9 | 435 | 381 | --- | --- | --- | --- | 296 | 273 | --- | --- | | |
| 10 | 500 | 428 | --- | --- | --- | --- | 301 | 191 | --- | --- | | |
| 11 | 523 | 494 | --- | --- | 598 | 466 | --- | --- | --- | --- | | |
| 12 | 502 | 345 | --- | --- | 580 | 474 | --- | --- | 596 | 582 | | |
| 13 | 456 | 373 | --- | --- | 581 | 538 | --- | --- | 653 | 636 | | |
| 14 | 506 | 459 | --- | --- | 572 | 536 | --- | --- | 649 | 639 | | |
| 15 | 554 | 508 | --- | --- | 572 | 535 | --- | --- | 655 | 641 | | |
| 16 | --- | --- | 583 | 561 | --- | --- | --- | --- | 637 | 611 | | |
| 17 | --- | --- | 663 | 586 | --- | --- | --- | --- | 622 | 388 | | |
| 18 | --- | --- | 682 | 637 | 501 | 307 | --- | --- | 535 | 392 | | |
| 19 | --- | --- | 637 | 603 | --- | --- | 605 | 257 | 432 | 355 | | |
| 20 | --- | --- | 622 | 597 | --- | --- | 356 | 250 | 444 | 341 | | |
| 21 | --- | --- | 654 | 624 | --- | --- | 386 | 316 | 434 | 392 | | |
| 22 | --- | --- | 669 | 655 | --- | --- | 477 | 345 | 453 | 367 | | |
| 23 | --- | --- | 675 | 662 | --- | --- | 447 | 315 | 452 | 321 | | |
| 24 | --- | --- | 663 | 618 | --- | --- | 415 | 326 | 465 | 309 | | |
| 25 | --- | --- | 617 | 595 | --- | --- | 395 | 369 | 584 | 342 | | |
| 26 | --- | --- | 598 | 580 | --- | --- | 449 | 367 | 587 | 521 | | |
| 27 | --- | --- | 579 | 572 | --- | --- | 451 | 398 | 567 | 356 | | |
| 28 | --- | --- | 583 | 574 | --- | --- | 528 | 380 | 524 | 419 | | |
| 29 | --- | --- | 587 | 569 | --- | --- | 475 | 434 | 520 | 408 | | |
| 30 | --- | --- | 591 | 574 | --- | --- | 531 | 470 | 548 | 432 | | |
| 31 | --- | --- | 602 | 590 | --- | --- | 520 | 413 | --- | --- | | |
| MONTH | | | | | | | | | | | | |

WABASH RIVER BASIN

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|------|----------|------|----------|-----|---------|-----|----------|-----|-------|------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 16.0 | 13.5 | 14.0 | 10.5 | 5.0 | 3.5 | 3.5 | 3.0 | 1.0 | .5 | 3.0 | 2.5 |
| 2 | 18.0 | 12.5 | 13.5 | 9.0 | 5.0 | 4.5 | 2.5 | .5 | .5 | .5 | 3.5 | 2.5 |
| 3 | 16.0 | 14.5 | 14.0 | 9.5 | 8.0 | 5.0 | 1.0 | .5 | .5 | .5 | 3.5 | 3.0 |
| 4 | 17.0 | 13.5 | 14.5 | 10.0 | 8.0 | 5.0 | 1.0 | .5 | .5 | .5 | 4.5 | 3.0 |
| 5 | 16.0 | 13.0 | 14.5 | 11.0 | 4.5 | 4.0 | .5 | .5 | 1.0 | .5 | 4.0 | 3.0 |
| 6 | 13.0 | 12.0 | 13.0 | 10.5 | 5.5 | 4.5 | 1.5 | .5 | 1.0 | .5 | 5.5 | 3.0 |
| 7 | 12.5 | 11.0 | 11.5 | 8.5 | 6.5 | 5.5 | 1.5 | .5 | .5 | .5 | 5.5 | 5.0 |
| 8 | 13.5 | 9.0 | 11.0 | 6.5 | 6.5 | 4.5 | 1.0 | .5 | 1.0 | .5 | 7.0 | 5.0 |
| 9 | 15.0 | 9.0 | 11.5 | 7.0 | 4.5 | 2.5 | 1.0 | .5 | 1.0 | .5 | 8.5 | 6.0 |
| 10 | 15.5 | 12.0 | 11.5 | 6.5 | 2.5 | 1.5 | 1.0 | .5 | 1.0 | .5 | 6.5 | 4.5 |
| 11 | 14.5 | 13.0 | --- | --- | 3.0 | 1.5 | 1.0 | .5 | 1.0 | .5 | --- | --- |
| 12 | 15.0 | 13.5 | --- | --- | 4.0 | 3.0 | .5 | .5 | 1.0 | .5 | --- | --- |
| 13 | 14.0 | 13.0 | --- | --- | 4.0 | 3.5 | .5 | .5 | 1.0 | .5 | --- | --- |
| 14 | 13.0 | 11.0 | --- | --- | 3.0 | 2.0 | 1.0 | .5 | 1.0 | .5 | 7.0 | 5.5 |
| 15 | 11.0 | 9.5 | --- | --- | 3.0 | 2.0 | 1.0 | .5 | 1.0 | .0 | 5.5 | 3.0 |
| 16 | 10.0 | 9.5 | --- | --- | 3.5 | 2.5 | .5 | .5 | 1.0 | .5 | 6.0 | 3.0 |
| 17 | 11.5 | 8.5 | --- | --- | 3.5 | 2.5 | .5 | .5 | 1.5 | 1.0 | 7.0 | 4.5 |
| 18 | 11.5 | 9.0 | --- | --- | 3.0 | 2.5 | .5 | .5 | 1.0 | 1.0 | 11.0 | 7.0 |
| 19 | 13.0 | 10.5 | --- | --- | 3.0 | 2.5 | 1.0 | .5 | 1.5 | .5 | 12.0 | 10.5 |
| 20 | 14.0 | 9.5 | --- | --- | 5.5 | 3.0 | 1.0 | .5 | 1.0 | 1.0 | 12.5 | 11.5 |
| 21 | 15.0 | 10.0 | --- | --- | 5.0 | 2.5 | 1.0 | .5 | 1.0 | .5 | 12.0 | 10.5 |
| 22 | 15.0 | 12.0 | --- | --- | 2.5 | 2.0 | 2.0 | .5 | 1.0 | .5 | 12.0 | 9.5 |
| 23 | 14.0 | 10.5 | --- | --- | 2.5 | 1.0 | .5 | .5 | 1.0 | --- | 12.5 | 12.0 |
| 24 | 13.5 | 8.5 | --- | --- | 2.5 | 2.0 | .5 | .5 | 1.0 | .5 | 12.0 | 7.0 |
| 25 | 12.0 | 9.0 | --- | --- | 2.5 | 1.5 | .5 | .5 | 1.5 | 1.0 | 7.0 | 4.5 |
| 26 | 12.5 | 10.0 | --- | --- | 2.0 | 1.0 | .5 | .5 | --- | --- | 5.5 | 3.0 |
| 27 | 13.0 | 8.5 | --- | --- | 1.0 | .5 | .5 | .5 | --- | --- | 8.0 | 5.0 |
| 28 | 12.5 | 8.5 | --- | --- | .5 | .5 | .5 | .5 | --- | --- | 7.5 | 6.0 |
| 29 | 12.5 | 8.0 | --- | --- | 1.0 | .5 | .5 | .5 | --- | --- | 10.5 | 7.5 |
| 30 | 13.0 | 8.5 | --- | --- | 3.0 | 1.5 | .5 | .5 | --- | --- | 12.5 | 10.5 |
| 31 | 13.5 | 9.0 | --- | --- | 3.5 | 3.0 | .5 | .5 | --- | --- | 12.5 | 10.0 |
| MONTH | 18.0 | 8.0 | | | 8.0 | .5 | 3.5 | .5 | 1.5 | .0 | | |

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|---------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| OCTOBER | | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 19 | .56 | 12 | .39 | 36 | 7.2 | 1130 | 5410 | --- | --- | 1140 | 1810 |
| 2 | 19 | .62 | 12 | .39 | 29 | 5.3 | --- | --- | --- | --- | 985 | 2660 |
| 3 | 19 | .62 | 12 | .36 | 458 | 704 | --- | --- | --- | --- | 1490 | 5590 |
| 4 | 18 | .58 | 12 | .36 | 800 | 1480 | --- | --- | --- | --- | 1540 | 16400 |
| 5 | 17 | .55 | 12 | .36 | 307 | 330 | --- | --- | --- | --- | 563 | 4220 |
| 6 | 17 | .55 | 12 | .39 | 90 | 60 | --- | --- | --- | --- | 314 | 573 |
| 7 | 17 | .50 | 12 | .39 | 90 | 61 | --- | --- | --- | --- | 160 | 235 |
| 8 | 16 | .48 | 12 | .36 | 594 | 824 | --- | --- | --- | --- | 100 | 119 |
| 9 | 16 | .43 | 12 | .36 | 330 | 406 | --- | --- | --- | --- | 78 | 77 |
| 10 | 16 | .48 | 12 | .39 | 95 | 68 | --- | --- | --- | --- | 70 | 74 |
| 11 | 16 | .56 | 12 | .39 | 28 | 15 | --- | --- | --- | --- | 65 | 49 |
| 12 | 15 | .61 | 12 | .36 | 11 | 4.9 | --- | --- | --- | --- | 63 | 37 |
| 13 | 15 | .77 | 12 | .39 | 8 | 3.2 | --- | --- | --- | --- | 56 | 29 |
| 14 | 14 | .79 | 400 | 613 | 8 | 2.8 | --- | --- | --- | --- | 53 | 31 |
| 15 | 14 | .68 | 350 | 461 | 7 | 2.3 | --- | --- | --- | --- | 51 | 27 |
| 16 | 14 | .60 | 72 | 54 | 6 | 1.8 | --- | --- | --- | --- | 50 | 23 |
| 17 | 13 | .53 | 800 | 1360 | 5 | 1.3 | --- | --- | --- | --- | 49 | 21 |
| 18 | 13 | .49 | 864 | 1540 | 4 | .95 | --- | --- | --- | --- | 47 | 19 |
| 19 | 13 | .46 | 335 | 323 | 3 | .73 | 43 | 7.4 | --- | --- | 45 | 19 |
| 20 | 12 | .39 | 160 | 103 | 12 | 3.0 | 42 | 7.9 | --- | --- | 42 | 18 |
| 21 | 12 | .39 | 90 | 45 | 42 | 14 | 41 | 8.9 | --- | --- | 40 | 17 |
| 22 | 12 | .39 | 50 | 21 | 28 | 8.8 | 40 | 9.2 | --- | --- | 38 | 15 |
| 23 | 12 | .39 | 45 | 18 | 9 | 2.4 | 38 | 7.4 | --- | --- | 273 | 200 |
| 24 | 12 | .39 | 33 | 14 | 3 | .79 | 37 | 8.3 | --- | --- | 305 | 328 |
| 25 | 12 | .39 | 29 | 10 | 2 | .45 | --- | --- | 173 | 467 | 224 | 189 |
| 26 | 12 | .42 | 27 | 8.2 | 1 | .19 | --- | --- | 107 | 173 | 204 | 117 |
| 27 | 12 | .42 | 25 | 7.5 | 2 | .35 | --- | --- | 87 | 116 | 196 | 92 |
| 28 | 12 | .42 | 22 | 6.3 | 23 | 3.9 | --- | --- | 82 | 122 | 198 | 88 |
| 29 | 12 | .39 | 20 | 4.9 | 10 | 1.8 | --- | --- | --- | --- | 275 | 167 |
| 30 | 12 | .36 | 30 | 6.9 | 5 | 1.0 | --- | --- | --- | --- | 419 | 344 |
| 31 | 12 | .36 | --- | --- | 244 | 848 | --- | --- | --- | --- | 337 | 257 |
| TOTAL | --- | 15.57 | --- | 4600.69 | --- | 4863.16 | --- | --- | --- | --- | --- | 33845 |

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|--------------|------|---|---|--|---|---|
| JUN 21... | 1550 | 68 | 135 | 25 | 95 | 100 |

WABASH RIVER BASIN

03340870 CECIL M. HARDEN LAKE AT FERNDAL, IN
(Formerly published as Mansfield Lake at Ferndale)

LOCATION.--Lat 39°43'02", long 87°04'20", in SE¼NE¼ sec.28, T.15 N., R.6 W., Parke County, Hydrologic Unit 05120108, in discharge tower of reservoir on Big Raccoon Creek at Ferndale, 4.4 miles (7.1 km) upstream from Rocky Fork Creek, 6.1 miles (9.8 km) northeast of Mansfield, and at mile 33.8 (54.4 km).

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--December 1960 to current year. Published as "Mansfield Reservoir" prior to October 1970 and as "Mansfield Lake" October 1970 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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 hm³), elevation, 640 ft (195.1 m). Seasonal pool capacity is 49,300 acre-ft (60.8 hm³), elevation, 661 ft (201.5 m). Capacity at uncontrolled spillway elevation, 690 ft (210.3 m) is 133,000 acre-ft (164 hm³). Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 87,510 acre-ft (107 hm³) May 4, 1964, elevation, 676.52 ft (206.203 m); minimum, 16,080 acre-ft (19.8 hm³), many times, elevation, 639.9 ft (195.04 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 84,010 acre-ft (103.6 hm³) Aug. 9, elevation, 675.29 ft (205.828 m); minimum, 16,270 acre-ft (20.1 hm³) Feb. 6, 7, elevation, 640.08 ft (195.096 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 660.20 | 47,630 | |
| Oct. 31..... | 653.75 | 35,580 | -12,050 |
| Nov. 30..... | 640.55 | 16,790 | -18,790 |
| Dec. 31..... | 641.96 | 18,420 | +1,630 |
| CAL YR 1978..... | | | +23,590 |
| Jan. 31..... | 640.10 | 16,300 | -2,120 |
| Feb. 28..... | 653.83 | 35,710 | +19,410 |
| Mar. 31..... | 664.76 | 57,340 | +21,630 |
| Apr. 30..... | 662.59 | 52,590 | -4,750 |
| May 31..... | 661.14 | 49,540 | -3,050 |
| June 30..... | 661.36 | 50,000 | +460 |
| July 31..... | 671.80 | 74,490 | +24,490 |
| Aug. 31..... | 673.94 | 80,230 | +5,740 |
| Sept. 30..... | 661.05 | 49,350 | -30,880 |
| WTR YR 1979..... | | | +1,720 |

03341300 BIG RACCOON CREEK AT COXVILLE, IN

LOCATION.--Lat 39°39'09", long 87°17'37", in SW¼SW¼ sec.15, T.14 N., R.8 W., Parke County, Hydrologic Unit 05120108, on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mile (1.3 km) upstream from Rock Run, 1.5 miles (2.4 km) downstream from Little Raccoon Creek, 2.1 miles (3.4 km) northwest of Rosedale, and at mile 13.1 (21.1 km).

DRAINAGE AREA.--448 mi² (1,160 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area. WRD Ind. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 494.00 ft (150.571 m) National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Cecil M. Harden Lake (See sta 03340870).

AVERAGE DISCHARGE.--23 years, 485 ft³/s (13.74 m³/s), 14.70 in/yr (373 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108,000 ft³/s (3,060 m³/s) June 28, 1957, gage height, 21.23 ft (6.471 m), from rating curve extended above 35,000 ft³/s (991 m³/s) on basis of an estimate made by slope-area study; minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,900 ft³/s (309 m³/s) July 29, gage height, 14.06 ft (4.285 m); minimum daily, 95 ft³/s (2.69 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|-------|------|-------|-------|-------|
| 1 | 103 | 440 | 708 | 2190 | 210 | 1340 | 848 | 1120 | 181 | 609 | 2030 | 1180 |
| 2 | 101 | 438 | 327 | 928 | 210 | 1590 | 876 | 1100 | 173 | 373 | 3020 | 1160 |
| 3 | 104 | 422 | 583 | 754 | 192 | 2580 | 601 | 766 | 166 | 236 | 1080 | 1160 |
| 4 | 105 | 367 | 691 | 1030 | 189 | 5910 | 611 | 438 | 163 | 340 | 766 | 1140 |
| 5 | 103 | 369 | 518 | 1090 | 203 | 2820 | 783 | 380 | 159 | 342 | 588 | 1100 |
| 6 | 96 | 373 | 777 | 1040 | 240 | 1450 | 614 | 336 | 165 | 518 | 585 | 1080 |
| 7 | 98 | 373 | 716 | 928 | 180 | 1070 | 968 | 315 | 206 | 245 | 557 | 1070 |
| 8 | 96 | 348 | 705 | 860 | 180 | 851 | 1090 | 276 | 224 | 189 | 459 | 1040 |
| 9 | 95 | 292 | 547 | 835 | 180 | 708 | 2660 | 261 | 203 | 176 | 503 | 1030 |
| 10 | 95 | 336 | 397 | 713 | 175 | 622 | 1060 | 250 | 176 | 162 | 845 | 1030 |
| 11 | 113 | 477 | 348 | 515 | 170 | 513 | 1210 | 252 | 165 | 150 | 968 | 1240 |
| 12 | 113 | 470 | 317 | 363 | 160 | 452 | 3230 | 282 | 158 | 145 | 886 | 1240 |
| 13 | 193 | 410 | 297 | 296 | 160 | 426 | 1370 | 308 | 156 | 429 | 851 | 1240 |
| 14 | 249 | 962 | 279 | 304 | 160 | 420 | 932 | 272 | 153 | 671 | 832 | 1230 |
| 15 | 322 | 742 | 333 | 279 | 165 | 375 | 725 | 274 | 129 | 965 | 817 | 876 |
| 16 | 301 | 614 | 757 | 306 | 165 | 380 | 601 | 261 | 123 | 454 | 817 | 641 |
| 17 | 160 | 1270 | 823 | 264 | 170 | 842 | 515 | 274 | 119 | 320 | 909 | 294 |
| 18 | 184 | 918 | 792 | 242 | 170 | 1050 | 475 | 271 | 115 | 494 | 922 | 253 |
| 19 | 184 | 918 | 733 | 237 | 210 | 1170 | 879 | 264 | 111 | 611 | 2180 | 234 |
| 20 | 184 | 870 | 342 | 239 | 200 | 1380 | 1010 | 241 | 112 | 654 | 1770 | 221 |
| 21 | 358 | 823 | 338 | 250 | 186 | 1350 | 1130 | 225 | 200 | 671 | 2500 | 212 |
| 22 | 408 | 808 | 333 | 249 | 322 | 1300 | 1140 | 213 | 119 | 671 | 1420 | 206 |
| 23 | 422 | 892 | 309 | 242 | 1310 | 918 | 1130 | 190 | 139 | 677 | 909 | 197 |
| 24 | 429 | 892 | 279 | 334 | 2230 | 948 | 1160 | 189 | 175 | 530 | 909 | 192 |
| 25 | 438 | 864 | 272 | 344 | 1610 | 1210 | 1220 | 182 | 136 | 694 | 630 | 188 |
| 26 | 445 | 857 | 260 | 315 | 1050 | 1060 | 1270 | 176 | 111 | 708 | 510 | 228 |
| 27 | 443 | 848 | 242 | 277 | 789 | 1200 | 1250 | 231 | 103 | 979 | 452 | 221 |
| 28 | 443 | 823 | 193 | 263 | 711 | 1190 | 1240 | 195 | 96 | 3950 | 671 | 185 |
| 29 | 443 | 805 | 186 | 247 | --- | 932 | 1190 | 176 | 96 | 9270 | 1270 | 155 |
| 30 | 443 | 786 | 241 | 241 | --- | 1070 | 1150 | 169 | 401 | 2710 | 1050 | 218 |
| 31 | 440 | --- | 845 | 218 | --- | 1030 | --- | 172 | --- | 1510 | 1200 | --- |
| TOTAL | 7711 | 19807 | 14488 | 16393 | 11897 | 38157 | 32938 | 10059 | 4733 | 30453 | 32906 | 20461 |
| MEAN | 249 | 660 | 467 | 529 | 425 | 1231 | 1098 | 324 | 158 | 982 | 1061 | 682 |
| MAX | 445 | 1270 | 845 | 2190 | 2230 | 5910 | 3230 | 1120 | 401 | 9270 | 3020 | 1240 |
| MIN | 95 | 292 | 186 | 218 | 160 | 375 | 475 | 169 | 96 | 145 | 452 | 155 |
| CFSM | .56 | 1.47 | 1.04 | 1.18 | .95 | 2.75 | 2.45 | .72 | .35 | 2.19 | 2.37 | 1.52 |
| IN. | .64 | 1.64 | 1.20 | 1.36 | .99 | 3.17 | 2.74 | .84 | .39 | 2.53 | 2.73 | 1.70 |
| CAL YR 1978 | TOTAL | 206242 | MEAN 565 | MAX 3000 | MIN 89 | CFSM 1.26 | IN 17.13 | | | | | |
| WTR YR 1979 | TOTAL | 240003 | MEAN 658 | MAX 9270 | MIN 95 | CFSM 1.47 | IN 19.93 | | | | | |

03341500 WABASH RIVER AT TERRE HAUTE, IN

LOCATION.--Lat 39°28'00", long 87°25'08", in NE¼SW¼ sec.21, T.12 N., R.9 W., Vigo County, Hydrologic Unit 05120111, on left bank at upstream side of Wabash Avenue bridge at Terre Haute, 2.4 miles (3.9 km) upstream from Sugar Creek, 4.2 miles (6.8 km) downstream from Lost Creek, and at mile 214.4 (345.0 km).

DRAINAGE AREA.--12,265 mi² (31,766 km²).

PERIOD OF RECORD.--August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year. Gage-height records collected at site 3,300 ft (1,010 m) upstream June 1891 to June 1897 and since December 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 205: 1905. WSP 1335: 1944. WRD Ind. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 442.90 ft (134.996 m) National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to Oct. 27, 1928.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 1 to Nov. 14, which are fair. Flow partially regulated by upstream reservoirs.

AVERAGE DISCHARGE.--52 years, 10,640 ft³/s (301.3 m³/s), 11.78 in/yr (299 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft³/s (5,350 m³/s) May 20, 1943, gage height, 30.50 ft (9.296 m); minimum daily, 701 ft³/s (19.9 m³/s) Aug. 3, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 27, 1913, reached a stage of 31.1 ft (9.48 m), present site and datum, discharge, 245,000 ft³/s (6,940 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,600 ft³/s (2,140 m³/s) Mar. 8, gage height, 24.96 ft (7.608 m); minimum daily, 2,500 ft³/s (70.8 m³/s) Oct. 7, 8.

NOTE.--No gage-height record Oct. 1 to Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN VALUES | | | | | | | | | | | |
|-------------|-------------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1 | 2600 | 3200 | 4500 | 13000 | 3570 | 26900 | 31100 | 20100 | 6770 | 4850 | 19800 | 9360 |
| 2 | 2600 | 3200 | 4270 | 15400 | 3390 | 29800 | 32600 | 18400 | 6850 | 4830 | 30600 | 8790 |
| 3 | 2600 | 3200 | 4290 | 14200 | 3400 | 32000 | 33300 | 16800 | 6630 | 4220 | 32700 | 8440 |
| 4 | 2600 | 3200 | 5440 | 12400 | 3340 | 39000 | 33100 | 15400 | 6180 | 4210 | 30000 | 7590 |
| 5 | 2600 | 3100 | 5930 | 9340 | 3220 | 51000 | 31700 | 15200 | 5770 | 11200 | 22800 | 6650 |
| 6 | 2550 | 3000 | 6250 | 7730 | 3140 | 62700 | 29200 | 15000 | 5450 | 16900 | 17000 | 6060 |
| 7 | 2500 | 3000 | 8240 | 8520 | 3100 | 70900 | 26100 | 14000 | 5260 | 13000 | 15000 | 5640 |
| 8 | 2500 | 2900 | 10500 | 8270 | 3000 | 74400 | 23000 | 13100 | 5400 | 8950 | 13100 | 5300 |
| 9 | 2550 | 2800 | 11200 | 7820 | 2920 | 68400 | 25500 | 12100 | 5940 | 6850 | 10800 | 5040 |
| 10 | 2600 | 2750 | 10200 | 7640 | 2900 | 59400 | 28100 | 11200 | 6650 | 5660 | 10300 | 4830 |
| 11 | 2700 | 2750 | 9690 | 6610 | 2910 | 51700 | 26500 | 10300 | 6990 | 5510 | 10300 | 4670 |
| 12 | 3500 | 2800 | 9070 | 5650 | 2880 | 45000 | 32400 | 10100 | 6850 | 5850 | 9740 | 4650 |
| 13 | 3200 | 3000 | 8370 | 5160 | 2850 | 39800 | 40200 | 10600 | 6380 | 6260 | 9220 | 4440 |
| 14 | 3000 | 3700 | 7020 | 4800 | 2900 | 35800 | 44400 | 10600 | 6570 | 7520 | 8700 | 4310 |
| 15 | 2850 | 5740 | 6130 | 4600 | 2800 | 32700 | 48800 | 10700 | 7380 | 10500 | 8510 | 4260 |
| 16 | 2800 | 5470 | 5740 | 4470 | 2800 | 30900 | 49400 | 11600 | 7460 | 11200 | 8410 | 4060 |
| 17 | 2550 | 5640 | 5520 | 4480 | 2750 | 29600 | 44500 | 12000 | 7090 | 10500 | 8080 | 3820 |
| 18 | 2600 | 7120 | 5240 | 4300 | 2700 | 28000 | 38100 | 11400 | 6680 | 9000 | 7670 | 3620 |
| 19 | 2700 | 6850 | 4930 | 4250 | 2690 | 26200 | 31500 | 10600 | 5920 | 7840 | 17100 | 3880 |
| 20 | 2900 | 6290 | 4660 | 4290 | 2620 | 26100 | 26100 | 9760 | 5180 | 7710 | 29100 | 3950 |
| 21 | 3000 | 5760 | 4420 | 4310 | 2800 | 27000 | 22300 | 9230 | 5360 | 7710 | 32600 | 3590 |
| 22 | 3100 | 5620 | 4290 | 4240 | 3280 | 27500 | 19800 | 8400 | 5490 | 7540 | 31800 | 3350 |
| 23 | 3300 | 5390 | 4210 | 4150 | 10000 | 27500 | 18200 | 7880 | 5680 | 7230 | 27100 | 3340 |
| 24 | 3300 | 5050 | 4050 | 4430 | 26500 | 28100 | 17200 | 7260 | 5470 | 6480 | 25200 | 3300 |
| 25 | 3300 | 4900 | 3960 | 4410 | 28600 | 28300 | 16600 | 6980 | 5150 | 5880 | 21700 | 3200 |
| 26 | 3300 | 4710 | 3910 | 4190 | 27000 | 28200 | 18100 | 6740 | 4690 | 10700 | 17700 | 3170 |
| 27 | 3300 | 4580 | 3820 | 4160 | 25000 | 27500 | 20800 | 6650 | 4360 | 16700 | 14900 | 3170 |
| 28 | 3300 | 4580 | 3520 | 4100 | 24900 | 26200 | 23000 | 6550 | 4140 | 20200 | 12800 | 3100 |
| 29 | 3400 | 4580 | 3350 | 4000 | --- | 23400 | 23700 | 6240 | 3950 | 36600 | 11900 | 3010 |
| 30 | 3300 | 4580 | 3360 | 3870 | --- | 27100 | 21800 | 6220 | 4270 | 30900 | 11700 | 2970 |
| 31 | 3200 | --- | 4080 | 3790 | --- | 26300 | --- | 6580 | --- | 22500 | 10400 | --- |
| TOTAL | 90300 | 129460 | 180160 | 198580 | 207960 | 1157400 | 877100 | 337690 | 175960 | 335000 | 536730 | 141560 |
| MEAN | 2913 | 4315 | 5812 | 6406 | 7427 | 37340 | 29240 | 10890 | 5865 | 10810 | 17310 | 4719 |
| MAX | 3500 | 7120 | 11200 | 15400 | 28600 | 74400 | 49400 | 20100 | 7460 | 36600 | 32700 | 9360 |
| MIN | 2500 | 2750 | 3350 | 3790 | 2620 | 23400 | 16600 | 6220 | 3950 | 4210 | 7670 | 2970 |
| CFSM | .24 | .35 | .47 | .52 | .61 | 3.04 | 2.38 | .89 | .48 | .88 | 1.41 | .39 |
| IN. | .27 | .39 | .55 | .60 | .63 | 3.51 | 2.66 | 1.02 | .53 | 1.02 | 1.63 | .43 |
| CAL YR 1978 | TOTAL | 4087170 | MEAN | 11200 | MAX | 66700 | MIN | 2500 | CFSM | .91 | IN | 12.40 |
| WTR YR 1979 | TOTAL | 4367900 | MEAN | 11970 | MAX | 74400 | MIN | 2500 | CFSM | .98 | IN | 13.25 |

03342000 WABASH RIVER AT RIVERTON, IN

LOCATION.--Lat 39°01'13", long 87°34'07", in NE¼SW¼ sec.30, T.7 N., R.10 W., Sullivan County, Hydrologic Unit 05120111, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.5 mile (0.8 km) downstream from Turtle Creek, and at mile 162.0 (260.7 km).

DRAINAGE AREA.--13,161 mi² (34,087 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to April 1939 monthly discharge only, published in WSP 1305. June 1911 to December 1914 (gage heights only) available in the Corps of Engineers office, Louisville, Ky.

REVISED RECORDS.--WSP 1335: 1939, 1950. WRD Ind. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 414.65 ft (126.385 m) National Geodetic Vertical Datum of 1929. Prior to July 17, 1951, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--41 years, 11,590 ft³/s (328.2 m³/s), 11.96 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 201,000 ft³/s (5,690 m³/s) May 21, 1943, gage height, 29.36 ft (8.949 m); minimum daily, 858 ft³/s (24.3 m³/s) Sept. 27-30, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 ft³/s (7,080 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76,500 ft³/s (2,170 m³/s) Mar. 10, gage height, 21.55 ft (6.568 m); minimum daily, 2,690 ft³/s (76.2 m³/s) Oct. 10.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: July 1954 to September 1961, October 1962 to September 1965, October 1967 to September 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN VALUES | | | | | | | | | | | |
|-------------|-------------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1 | 2810 | 3430 | 5040 | 12500 | 4240 | 30400 | 32300 | 23100 | 7300 | 5080 | 43700 | 11400 |
| 2 | 2750 | 3380 | 4880 | 17000 | 4010 | 32800 | 33600 | 21300 | 7460 | 5440 | 40700 | 10400 |
| 3 | 2740 | 3380 | 4740 | 15700 | 3870 | 35300 | 34700 | 19500 | 7460 | 5320 | 39800 | 9880 |
| 4 | 2760 | 3430 | 5530 | 14000 | 3840 | 42000 | 36300 | 17800 | 7150 | 4870 | 38900 | 9480 |
| 5 | 2750 | 3390 | 6260 | 12600 | 3750 | 46700 | 37900 | 16400 | 6760 | 5400 | 37600 | 8650 |
| 6 | 2710 | 3250 | 6450 | 7870 | 3630 | 49800 | 37800 | 16000 | 6410 | 12700 | 32300 | 7800 |
| 7 | 2740 | 3270 | 7080 | 7370 | 3550 | 56200 | 35700 | 15300 | 6350 | 15100 | 24200 | 7140 |
| 8 | 2740 | 3160 | 9840 | 8640 | 3500 | 64700 | 32900 | 14400 | 6250 | 12100 | 18900 | 6690 |
| 9 | 2750 | 3050 | 11700 | 9300 | 3400 | 72300 | 32600 | 13500 | 7010 | 9120 | 15100 | 6300 |
| 10 | 2690 | 2960 | 11300 | 8860 | 3300 | 76000 | 32500 | 12600 | 7210 | 7360 | 12900 | 6020 |
| 11 | 2750 | 2870 | 10400 | 8540 | 3280 | 74400 | 32300 | 11800 | 7470 | 6390 | 15000 | 5780 |
| 12 | 2890 | 2960 | 9860 | 7310 | 3270 | 69600 | 37700 | 11300 | 7620 | 6450 | 13000 | 5620 |
| 13 | 3840 | 3060 | 9270 | 6800 | 3250 | 63500 | 41300 | 11400 | 7380 | 7060 | 11500 | 5550 |
| 14 | 3320 | 3110 | 8440 | 6200 | 3200 | 57200 | 43100 | 11600 | 7030 | 7730 | 10600 | 5350 |
| 15 | 3130 | 4520 | 7250 | 5700 | 3290 | 51200 | 46600 | 11800 | 7340 | 10500 | 9960 | 5160 |
| 16 | 3040 | 6080 | 6510 | 5150 | 3200 | 46200 | 50600 | 11700 | 7920 | 11900 | 9670 | 5080 |
| 17 | 3050 | 6260 | 6120 | 4980 | 3100 | 41800 | 53600 | 12300 | 7910 | 11500 | 9390 | 4880 |
| 18 | 3020 | 7110 | 5880 | 4980 | 3100 | 38100 | 53800 | 12300 | 7580 | 10500 | 9010 | 4650 |
| 19 | 2850 | 7700 | 5600 | 4820 | 3000 | 35200 | 50800 | 11700 | 7170 | 9200 | 10700 | 4470 |
| 20 | 2880 | 7310 | 5350 | 4770 | 3060 | 33500 | 45500 | 11000 | 6500 | 8390 | 22100 | 4650 |
| 21 | 3090 | 6740 | 5150 | 4850 | 3060 | 32100 | 38400 | 10300 | 6190 | 8220 | 27100 | 4690 |
| 22 | 3200 | 6270 | 4970 | 4800 | 3950 | 31200 | 31000 | 9640 | 6220 | 8150 | 29900 | 4400 |
| 23 | 3360 | 6110 | 4760 | 4700 | 12800 | 31600 | 25000 | 9090 | 6230 | 7980 | 31400 | 4160 |
| 24 | 3420 | 5830 | 4630 | 5940 | 26600 | 33400 | 21900 | 8590 | 6300 | 7680 | 31800 | 4090 |
| 25 | 3480 | 5510 | 4510 | 6020 | 31300 | 33300 | 20600 | 7930 | 6070 | 7050 | 29900 | 4020 |
| 26 | 3530 | 5370 | 4400 | 5470 | 31300 | 32600 | 20200 | 7670 | 5740 | 7440 | 25900 | 3940 |
| 27 | 3470 | 5200 | 4290 | 5050 | 30800 | 31900 | 21700 | 7550 | 5350 | 23200 | 20900 | 3890 |
| 28 | 3450 | 5050 | 4140 | 4870 | 29800 | 31200 | 23100 | 7490 | 5040 | 34400 | 16800 | 3890 |
| 29 | 3520 | 5020 | 3890 | 4670 | --- | 30300 | 24400 | 7250 | 4860 | 43700 | 15300 | 3820 |
| 30 | 3530 | 5050 | 3790 | 4530 | --- | 31100 | 24600 | 6960 | 4710 | 47500 | 13600 | 3770 |
| 31 | 3470 | --- | 4840 | 4380 | --- | 32100 | --- | 7010 | --- | 47300 | 12600 | --- |
| TOTAL | 95730 | 139830 | 196870 | 228370 | 238450 | 1367700 | 1052500 | 376280 | 199990 | 414730 | 680230 | 175620 |
| MEAN | 3088 | 4661 | 6351 | 7367 | 8516 | 44120 | 35080 | 12140 | 6666 | 13380 | 21940 | 5854 |
| MAX | 3840 | 7700 | 11700 | 17000 | 31300 | 76000 | 53800 | 23100 | 7920 | 47500 | 43700 | 11400 |
| MIN | 2690 | 2870 | 3790 | 4380 | 3000 | 30300 | 20200 | 6960 | 4710 | 4870 | 9010 | 3770 |
| CFSM | .24 | .35 | .48 | .56 | .65 | 3.35 | 2.67 | .92 | .51 | 1.02 | 1.67 | .45 |
| IN. | .27 | .40 | .56 | .65 | .67 | 3.87 | 2.97 | 1.06 | .57 | 1.17 | 1.92 | .50 |
| CAL YR 1978 | TOTAL | 4673260 | MEAN | 12800 | MAX | 79500 | MIN | 2690 | CFSM | .97 | IN | 13.21 |
| WTR YR 1979 | TOTAL | 5166300 | MEAN | 14150 | MAX | 76000 | MIN | 2690 | CFSM | 1.08 | IN | 14.60 |

03342100 BUSSEYON CREEK NEAR HYMERA, IN

LOCATION.--Lat 39°12'54", long 87°18'41", in NW¼NW¼ sec.21, T.9 N., R.8 W., Sullivan County, Hydrologic Unit 05120111, on right bank at downstream side of bridge on County Road 900 North, 1.3 miles (2.1 km) upstream from East Fork Busseyon Creek, 1.9 miles (3.1 km) northwest of Hymera, 4.1 miles (6.6 km) upstream from West Fork Busseyon Creek, and at mile 30.3 (48.8 km).

DRAINAGE AREA.--16.7 mi² (43.3 km²).

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

REVISED RECORDS.--WRD Ind. 1972: 1971.

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1969. Datum of gage is 480.00 ft (146.304 m) National Geodetic Vertical Datum of 1929 (U.S. Soil Conservation Service bench mark).

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

AVERAGE DISCHARGE.--13 years, 18.7 ft³/s (0.530 m³/s), 15.21 in/yr (386 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) Sept. 12, 1974, gage height, 18.58 ft (5.761 m) maximum gage height, 18.90 ft (5.761 m) July 28, 1979; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) July 28, gage height, 18.90 ft (5.761m); no flow Oct. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|--------|--------|------|-------|-------|---------|--------|-------|
| 1 | .00 | .10 | 1.0 | 115 | 6.5 | 94 | 65 | 11 | 1.1 | .55 | 153 | 2.0 |
| 2 | .00 | .13 | 1.0 | 64 | 6.0 | 95 | 74 | 9.8 | 1.0 | .55 | 86 | 1.7 |
| 3 | .00 | .13 | 8.7 | 57 | 5.6 | 138 | 51 | 18 | 1.0 | .55 | 68 | 1.5 |
| 4 | .00 | .13 | 10 | 41 | 5.0 | 370 | 65 | 16 | .94 | .66 | 58 | 1.2 |
| 5 | .00 | .13 | 6.8 | 31 | 6.6 | 83 | 53 | 13 | .94 | .66 | 46 | 1.0 |
| 6 | .00 | .13 | 4.0 | 19 | 4.8 | 64 | 40 | 10 | .94 | .47 | 35 | .86 |
| 7 | .00 | .18 | 9.8 | 13 | 4.6 | 55 | 34 | 8.2 | 1.7 | .47 | 23 | .66 |
| 8 | .00 | .18 | 44 | 9.0 | 4.3 | 44 | 43 | 6.6 | 3.7 | .55 | 14 | .47 |
| 9 | .00 | .13 | 21 | 7.2 | 4.2 | 36 | 66 | 5.5 | 2.7 | .55 | 7.7 | .33 |
| 10 | .00 | .18 | 16 | 6.2 | 4.0 | 29 | 42 | 4.6 | 1.5 | .55 | 18 | .24 |
| 11 | .24 | .18 | 10 | 5.4 | 3.8 | 23 | 73 | 5.9 | .94 | .47 | 5.5 | .24 |
| 12 | 1.1 | .18 | 7.5 | 4.8 | 3.6 | 21 | 266 | 9.8 | .78 | 16 | 2.9 | .24 |
| 13 | 20 | .13 | 5.3 | 5.3 | 3.5 | 19 | 75 | 8.0 | .78 | 49 | 1.7 | .24 |
| 14 | 3.5 | .66 | 3.7 | 5.6 | 3.6 | 15 | 62 | 5.5 | .66 | 144 | 1.0 | .24 |
| 15 | 2.0 | .55 | 3.0 | 4.0 | 4.1 | 12 | 52 | 3.4 | .66 | 107 | .66 | .24 |
| 16 | 1.4 | .47 | 2.3 | 3.7 | 7.4 | 10 | 43 | 2.6 | .66 | 49 | .33 | .18 |
| 17 | .94 | 19 | 2.1 | 5.0 | 6.0 | 9.2 | 34 | 2.2 | .66 | 36 | .18 | .18 |
| 18 | .66 | 8.5 | 2.0 | 3.5 | 4.7 | 8.5 | 27 | 1.8 | .66 | 23 | .13 | .33 |
| 19 | .55 | 4.6 | 1.9 | 3.6 | 3.5 | 16 | 23 | 2.1 | .66 | 16 | 58 | .10 |
| 20 | .39 | 2.9 | 3.7 | 3.6 | 2.5 | 22 | 21 | 2.0 | 5.1 | 11 | 48 | .06 |
| 21 | .39 | 2.2 | 10 | 3.7 | 45 | 25 | 18 | 1.6 | 4.2 | 7.7 | 44 | .24 |
| 22 | .33 | 1.7 | 6.3 | 5.0 | 194 | 23 | 16 | 1.4 | 1.7 | 6.3 | 35 | .33 |
| 23 | .33 | 1.7 | 4.4 | 8.3 | 559 | 95 | 15 | 1.4 | 1.0 | 5.5 | 26 | .33 |
| 24 | .13 | 1.5 | 3.7 | 95 | 134 | 63 | 17 | 1.4 | .86 | 5.3 | 18 | .13 |
| 25 | .18 | 1.2 | 3.5 | 67 | 79 | 46 | 28 | 1.0 | .66 | 12 | 11 | .07 |
| 26 | .24 | 1.7 | 2.7 | 49 | 69 | 37 | 26 | 1.0 | .66 | 8.5 | 8.2 | .13 |
| 27 | .13 | 1.7 | 2.1 | 31 | 62 | 29 | 22 | 2.1 | .55 | 271 | 5.9 | .18 |
| 28 | .10 | 1.4 | 1.7 | 17 | 54 | 30 | 22 | 1.5 | .47 | 585 | 4.4 | .10 |
| 29 | .07 | 1.2 | 1.8 | 12 | --- | 61 | 17 | 1.1 | .55 | 325 | 4.0 | .07 |
| 30 | .07 | 1.1 | 3.7 | 8.9 | --- | 101 | 14 | 1.1 | .55 | 101 | 3.0 | .13 |
| 31 | .10 | --- | 146 | 7.0 | --- | 73 | --- | 1.2 | --- | 76 | 2.3 | --- |
| TOTAL | 32.85 | 53.99 | 349.7 | 710.8 | 1290.3 | 1746.7 | 1404 | 160.8 | 38.28 | 1860.33 | 788.90 | 13.72 |
| MEAN | 1.06 | 1.80 | 11.3 | 22.9 | 46.1 | 56.3 | 46.8 | 5.19 | 1.28 | 60.0 | 25.4 | .46 |
| MAX | 20 | 19 | 146 | 115 | 559 | 370 | 266 | 18 | 5.1 | 585 | 153 | 2.0 |
| MIN | .00 | .10 | 1.0 | 3.5 | 2.5 | 8.5 | 14 | 1.0 | .47 | .47 | .13 | .06 |
| CFSM | .06 | .11 | .68 | 1.37 | 2.76 | 3.37 | 2.80 | .31 | .08 | 3.59 | 1.52 | .03 |
| IN. | .07 | .12 | .78 | 1.58 | 2.87 | 3.89 | 3.13 | .36 | .09 | 4.14 | 1.76 | .03 |
| CAL YR 1978 | TOTAL | 4894.01 | MEAN | 13.4 | MAX | 310 | MIN | .00 | CFSM | .80 | IN | 10.90 |
| WTR YR 1979 | TOTAL | 8450.37 | MEAN | 23.2 | MAX | 585 | MIN | .00 | CFSM | 1.39 | IN | 18.82 |

03342100 BUSSEYON CREEK NEAR HYMERA, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN 1.00 MM |
|-------|------|---|---|--|---|---|---|---|---|
| JUL | | | | | | | | | |
| 28... | 1545 | 1490 | 314 | 1260 | 94 | 96 | 98 | 100 | -- |
| 29... | 0900 | 421 | 264 | 300 | 86 | 89 | 92 | 99 | 100 |

03342150 WEST FORK BUSSERON CREEK NEAR HYMERA, IN

LOCATION.--Lat 39°11'10", long 87°19'44", in NW¼NW¼ sec.32, T.9 N., R.8 W., Sullivan County, Hydrologic Unit 05120111, 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 mi² (37.3 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

REMARKS.--Records poor.

AVERAGE DISCHARGE.--13 years, 13.8 ft³/s (0.391 m³/s), 13.01 in/yr (330 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) July 26, 1973, gage height, 13.23 ft (4.033 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 1300 | 972 27.2 | 11.81 3.600 | July 27 | 1000 | *1900 53.8 | *13.00 3.962 |
| Apr. 12 | 0700 | 995 28.2 | 11.86 3.615 | July 28 | 1500 | 1860 52.7 | 12.92 3.938 |
| July 15 | 0200 | 722 20.4 | 11.26 3.432 | Aug. 1 | 1400 | 596 16.9 | 10.95 3.338 |

Minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|--------|--------|--------|--------|-------|---------|--------|-------|
| 1 | .20 | .13 | 1.2 | 19 | 3.0 | 80 | 27 | 9.0 | .58 | .16 | 269 | 1.6 |
| 2 | .22 | .15 | 1.2 | 37 | 2.7 | 80 | 115 | 7.2 | .52 | .16 | 24 | 1.3 |
| 3 | .25 | .16 | 4.4 | 25 | 2.5 | 80 | 20 | 13 | .50 | .16 | 7.6 | 1.1 |
| 4 | .25 | .16 | 8.8 | 6.2 | 2.3 | 350 | 55 | 11 | .45 | .20 | 4.4 | .90 |
| 5 | .31 | .16 | 3.9 | 4.5 | 2.2 | 120 | 33 | 9.4 | .41 | .28 | 3.0 | .75 |
| 6 | .31 | .16 | 2.9 | 4.0 | 2.1 | 65 | 13 | 8.0 | .42 | .22 | 2.3 | .60 |
| 7 | .31 | .20 | 6.0 | 3.7 | 2.0 | 62 | 9.4 | 6.6 | 1.0 | .20 | 1.7 | .50 |
| 8 | .31 | .25 | 37 | 3.3 | 1.9 | 44 | 22 | 5.4 | 2.4 | .28 | 2.2 | .41 |
| 9 | .35 | .22 | 13 | 3.0 | 1.8 | 40 | 78 | 4.5 | 1.4 | .28 | 1.8 | .34 |
| 10 | .35 | .20 | 4.9 | 2.6 | 1.7 | 29 | 17 | 3.8 | .80 | .43 | 2.0 | .29 |
| 11 | .48 | .20 | 3.6 | 2.4 | 1.7 | 24 | 50 | 3.5 | .50 | .52 | 4.2 | .24 |
| 12 | .81 | .20 | 3.4 | 2.1 | 1.6 | 19 | 380 | 6.0 | .30 | 7.0 | .94 | .21 |
| 13 | 10 | .17 | 3.2 | 2.2 | 1.5 | 17 | 60 | 7.0 | .30 | 18 | .57 | .24 |
| 14 | .94 | .31 | 2.9 | 2.3 | 1.7 | 16 | 47 | 5.8 | .27 | 120 | .43 | .28 |
| 15 | .39 | .39 | 2.6 | 1.7 | 2.2 | 12 | 40 | 3.5 | .25 | 178 | .28 | .32 |
| 16 | .35 | .35 | 2.4 | 1.7 | 3.2 | 9.6 | 34 | 2.5 | .23 | 12 | .25 | .36 |
| 17 | .28 | 10 | 2.1 | 2.0 | 2.3 | 8.4 | 29 | 1.7 | .20 | 6.2 | .25 | .43 |
| 18 | .31 | 3.9 | 2.0 | 1.5 | 1.8 | 7.6 | 24 | 1.1 | .35 | 4.9 | .25 | .48 |
| 19 | .52 | 1.6 | 2.2 | 1.5 | 1.3 | 20 | 20 | 1.2 | .70 | 5.3 | 59 | .75 |
| 20 | .48 | 1.2 | 3.9 | 1.5 | 1.1 | 41 | 16 | 1.1 | 4.2 | 5.8 | 1.7 | 8.0 |
| 21 | .43 | 1.1 | 10 | 1.6 | 7.0 | 28 | 14 | .98 | 2.9 | 6.5 | 6.5 | 3.0 |
| 22 | .43 | 1.0 | 4.0 | 2.1 | 34 | 15 | 13 | .84 | 1.5 | 7.8 | 1.7 | 3.4 |
| 23 | .39 | 1.2 | 2.9 | 4.2 | 530 | 35 | 12 | .70 | .50 | 8.2 | 1.6 | 1.5 |
| 24 | .17 | 1.2 | 2.9 | 81 | 300 | 90 | 11 | .70 | 1.0 | 9.8 | 2.3 | 1.2 |
| 25 | .22 | 1.1 | 3.4 | 19 | 150 | 74 | 15 | .65 | .50 | 23 | 2.0 | .94 |
| 26 | .27 | 1.4 | 2.6 | 11 | 70 | 50 | 20 | .52 | 2.5 | 9.0 | 2.6 | .87 |
| 27 | .15 | 1.7 | 1.7 | 7.4 | 60 | 37 | 17 | 1.2 | .17 | 652 | 4.0 | .87 |
| 28 | .11 | 1.5 | 1.5 | 5.5 | 50 | 30 | 16 | .80 | .95 | 794 | 3.5 | .69 |
| 29 | .08 | 1.2 | 1.8 | 5.0 | --- | 29 | 14 | .60 | .16 | 91 | 2.8 | .52 |
| 30 | .09 | 1.2 | 10 | 5.0 | --- | 110 | 11 | .60 | .16 | 17 | 2.4 | .43 |
| 31 | .12 | --- | 16 | 3.7 | --- | 34 | --- | .64 | --- | 11 | 1.9 | --- |
| TOTAL | 19.88 | 32.71 | 168.4 | 272.7 | 1241.6 | 1656.6 | 1232.4 | 119.53 | 26.12 | 1989.39 | 417.17 | 32.52 |
| MEAN | .64 | 1.09 | 5.43 | 8.80 | 44.3 | 53.4 | 41.1 | 3.86 | .87 | 64.2 | 13.5 | 1.08 |
| MAX | 10 | 10 | 37 | 81 | 530 | 350 | 380 | 13 | 4.2 | 794 | 269 | 8.0 |
| MIN | .08 | .13 | 1.2 | 1.5 | 1.1 | 7.6 | 9.4 | .52 | .16 | .16 | .25 | .21 |
| CFSM | .04 | .08 | .38 | .61 | 3.08 | 3.71 | 2.85 | .27 | .06 | 4.46 | .94 | .08 |
| IN. | .05 | .08 | .44 | .70 | 3.21 | 4.28 | 3.18 | .31 | .07 | 5.14 | 1.08 | .08 |
| CAL YR 1978 | TOTAL | 4052.65 | MEAN | 11.1 | MAX | 500 | MIN | .08 | CFSM | .77 | IN | 10.47 |
| WTR YR 1979 | TOTAL | 7209.02 | MEAN | 19.8 | MAX | 794 | MIN | .08 | CFSM | 1.38 | IN | 18.62 |

03342150 WEST FORK BUSSEY CREEK NEAR HYMERA, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: February 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. #FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. #FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. #FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. #FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. #FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|--|--|--|--|--|
| DEC 27... | 0940 | .0 | 1.7 | 12 | .06 | -- | -- | -- | -- | -- |
| JAN 19... | 1715 | -- | 1.5 | 10 | .04 | -- | -- | -- | -- | -- |
| MAR 21... | 1100 | 10.0 | 33 | 780 | 71 | 89 | 90 | 92 | 100 | -- |
| MAY 15... | 1110 | 17.0 | 3.7 | 14 | .14 | -- | -- | -- | -- | -- |
| JUL 27... | 0845 | -- | 1710 | 169 | 780 | 89 | 92 | 95 | 98 | 100 |
| 27... | 1000 | -- | 1850 | 220 | 1100 | 94 | 96 | 98 | 100 | -- |
| 28... | 1500 | -- | 1750 | 411 | 1940 | 87 | 89 | 98 | 100 | -- |
| AUG 08... | 1300 | -- | 2.3 | 50 | .31 | 94 | 100 | -- | -- | -- |
| SEP 18... | 1200 | -- | .49 | 122 | .16 | 81 | -- | -- | -- | -- |

03342250 MUD CREEK NEAR DUGGER, IN

LOCATION.--Lat 39°06'28", long 87°16'42", in SE¼NE¼ sec.27, T.8 N., R.8 W., Sullivan County, Hydrologic Unit 05120111, on right bank at downstream side of bridge on County Road 700 East, 0.6 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 mi² (30.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 466.41 ft (142.162 m) National Geodetic Vertical Datum of 1929 (U.S. Soil Conservation Service bench mark).

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

AVERAGE DISCHARGE.--13 years, 14.4 ft³/s (0.408 m³/s), 16.43 in/yr (417 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s (36.0 m³/s) July 27, 1979, gage height, 14.83 ft (4.520 m) from flood mark; minimum daily, 0.40 ft³/s (0.011 m³/s) Jan. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,270 ft³/s (36.0 m³/s) July 27, gage height, 14.83 ft (4.520 m) from floodmark; minimum daily, 1.3 ft³/s (0.037 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-----------|---------|---------|-----------|----------|-------|-------|--------|-------|-------|
| 1 | 1.4 | 1.8 | 3.9 | 86 | 9.7 | 110 | 45 | 12 | 8.0 | 6.6 | 110 | 8.0 |
| 2 | 1.4 | 1.8 | 3.9 | 37 | 9.3 | 140 | 22 | 15 | 7.5 | 5.2 | 46 | 8.0 |
| 3 | 1.4 | 1.8 | 37 | 30 | 8.7 | 160 | 30 | 19 | 7.2 | 4.4 | 30 | 7.5 |
| 4 | 1.4 | 1.8 | 26 | 26 | 8.2 | 200 | 45 | 17 | 6.5 | 4.2 | 26 | 6.7 |
| 5 | 1.4 | 1.8 | 16 | 23 | 7.8 | 240 | 60 | 15 | 6.5 | 3.9 | 23 | 6.5 |
| 6 | 1.4 | 1.9 | 14 | 21 | 7.5 | 165 | 32 | 13 | 6.0 | 3.7 | 20 | 6.2 |
| 7 | 1.4 | 2.7 | 34 | 19 | 7.2 | 110 | 19 | 11 | 80 | 3.4 | 18 | 5.8 |
| 8 | 1.4 | 2.2 | 111 | 17 | 6.8 | 80 | 16 | 9.4 | 63 | 3.5 | 17 | 5.6 |
| 9 | 1.3 | 2.0 | 40 | 15 | 6.6 | 57 | 85 | 8.0 | 66 | 3.8 | 13 | 5.4 |
| 10 | 1.3 | 2.0 | 32 | 14 | 6.3 | 45 | 63 | 7.2 | 25 | 3.5 | 14 | 4.9 |
| 11 | 3.7 | 1.9 | 23 | 12 | 6.2 | 35 | 52 | 7.8 | 16 | 10 | 17 | 4.9 |
| 12 | 14 | 1.9 | 20 | 11 | 6.2 | 31 | 170 | 10 | 13 | 25 | 14 | 4.8 |
| 13 | 20 | 1.9 | 17 | 13 | 6.4 | 23 | 220 | 13 | 12 | 53 | 13 | 4.8 |
| 14 | 4.2 | 3.2 | 15 | 12 | 6.8 | 17 | 150 | 16 | 11 | 120 | 12 | 4.9 |
| 15 | 3.0 | 4.6 | 13 | 10 | 8.5 | 15 | 100 | 13 | 9.3 | 90 | 11 | 4.4 |
| 16 | 2.6 | 3.7 | 12 | 8.7 | 13 | 13 | 60 | 11 | 8.3 | 12 | 10 | 4.2 |
| 17 | 2.5 | 43 | 10 | 11 | 12 | 12 | 42 | 10 | 7.3 | 9.1 | 10 | 4.2 |
| 18 | 2.5 | 9.1 | 9.0 | 8.5 | 10 | 11 | 30 | 9.4 | 6.4 | 7.2 | 10 | 3.9 |
| 19 | 2.5 | 5.6 | 8.0 | 8.6 | 8.0 | 15 | 23 | 9.1 | 5.8 | 6.0 | 11 | 3.9 |
| 20 | 2.5 | 4.6 | 14 | 9.0 | 6.8 | 20 | 17 | 9.1 | 5.4 | 4.9 | 10 | 4.2 |
| 21 | 2.5 | 4.4 | 23 | 10 | 6.0 | 29 | 16 | 8.8 | 14 | 4.4 | 12 | 4.2 |
| 22 | 2.3 | 4.2 | 18 | 12 | 25 | 25 | 15 | 8.5 | 12 | 3.7 | 10 | 3.9 |
| 23 | 2.1 | 5.6 | 14 | 15 | 200 | 80 | 14 | 8.5 | 10 | 3.2 | 10 | 3.6 |
| 24 | 2.0 | 4.8 | 10 | 110 | 110 | 100 | 16 | 8.3 | 8.3 | 4.0 | 10 | 3.4 |
| 25 | 2.1 | 4.2 | 8.5 | 65 | 62 | 56 | 22 | 7.8 | 6.9 | 3.6 | 8.8 | 3.4 |
| 26 | 2.5 | 6.5 | 6.8 | 33 | 60 | 46 | 28 | 11 | 5.8 | 23 | 11 | 3.1 |
| 27 | 2.1 | 5.6 | 5.4 | 17 | 60 | 37 | 22 | 14 | 4.8 | 100 | 10 | 3.1 |
| 28 | 1.9 | 4.6 | 4.5 | 13 | 90 | 31 | 19 | 9.1 | 4.2 | 500 | 14 | 3.2 |
| 29 | 1.8 | 4.2 | 8.0 | 12 | --- | 30 | 17 | 8.0 | 4.7 | 88 | 13 | 3.0 |
| 30 | 1.7 | 4.0 | 23 | 11 | --- | 60 | 14 | 7.5 | 5.3 | 45 | 9.4 | 3.1 |
| 31 | 1.8 | --- | 179 | 10 | --- | 90 | --- | 11 | --- | 35 | 8.5 | --- |
| TOTAL | 94.1 | 147.4 | 759.0 | 699.8 | 775.0 | 2083 | 1464 | 337.5 | 446.2 | 1189.3 | 551.7 | 142.8 |
| MEAN | 3.04 | 4.91 | 24.5 | 22.6 | 27.7 | 67.2 | 48.8 | 10.9 | 14.9 | 38.4 | 17.8 | 4.76 |
| MAX | 20 | 43 | 179 | 110 | 200 | 240 | 220 | 19 | 80 | 500 | 110 | 8.0 |
| MIN | 1.3 | 1.8 | 3.9 | 8.5 | 6.0 | 11 | 14 | 7.2 | 4.2 | 3.2 | 8.5 | 3.0 |
| CFSM | .26 | .41 | 2.06 | 1.90 | 2.33 | 5.65 | 4.10 | .92 | 1.25 | 3.23 | 1.50 | .40 |
| IN. | .29 | .46 | 2.37 | 2.19 | 2.42 | 6.51 | 4.58 | 1.05 | 1.39 | 3.72 | 1.72 | .45 |
| CAL YR 1978 | TOTAL | 5521.5 | MEAN 15.1 | MAX 340 | MIN 1.3 | CFSM 1.27 | IN 17.23 | | | | | |
| WTR YR 1979 | TOTAL | 8689.8 | MEAN 23.8 | MAX 500 | MIN 1.3 | CFSM 2.00 | IN 27.16 | | | | | |

03342250 MUD CREEK NEAR DUGGER, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|-------|------|---|---|--|---|---|---|---|---|---|
| JUL | | | | | | | | | | |
| 28... | 1730 | 378 | 1580 | 1610 | 50 | 59 | 73 | 92 | 99 | 100 |
| 29... | 1010 | 75 | 867 | 177 | 43 | 50 | 66 | 78 | 95 | 100 |

WABASH RIVER BASIN

03342300 BUSSEYON CREEK NEAR SULLIVAN, IN

LOCATION.--Lat 39°04'33", long 87°23'11", in SE¼NW¼ sec.2, T.7 N., R.9 W., Sullivan County, Hydrologic Unit 05120111, on left bank at upstream side of bridge on State Highway 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 Highway 54, 1.7 miles (2.7 km) upstream from Buttermilk Creek, and at mile 16.7 (26.9 km).

DRAINAGE AREA.--138 mi² (357 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Ind. 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 440.00 ft (134.112 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

REMARKS.--Records good except those for winter periods, which are fair. Flow affected by surface-mined areas and U.S. Soil Conservation Service floodwater-retarding structures.

AVERAGE DISCHARGE.--13 years, 148 ft³/s (4.191 m³/s), 14.56 in/yr (370 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,050 ft³/s (171 m³/s) July 29, 1979, gage height, 16.28 ft (4.962 m); minimum daily, 0.9 ft³/s (0.025 m³/s) Sept. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,050 ft³/s (171 m³/s) July 29, gage height, 16.28 ft (4.962 m); minimum daily, 4.2 ft³/s (0.119 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|----------|----------|---------|-----------|----------|------|------|-------|------|------|
| 1 | 4.2 | 10 | 22 | 1260 | 73 | 841 | 529 | 95 | 21 | 22 | 1580 | 32 |
| 2 | 4.6 | 10 | 30 | 1190 | 66 | 1040 | 671 | 89 | 27 | 16 | 1440 | 30 |
| 3 | 5.0 | 11 | 69 | 629 | 62 | 1160 | 500 | 124 | 25 | 14 | 1030 | 28 |
| 4 | 5.3 | 9.7 | 158 | 380 | 58 | 1480 | 431 | 158 | 23 | 14 | 694 | 24 |
| 5 | 5.2 | 8.4 | 96 | 218 | 54 | 1890 | 522 | 130 | 21 | 13 | 476 | 22 |
| 6 | 4.8 | 7.7 | 65 | 165 | 51 | 1420 | 310 | 103 | 20 | 12 | 311 | 20 |
| 7 | 4.5 | 8.7 | 103 | 120 | 48 | 843 | 197 | 87 | 146 | 11 | 209 | 19 |
| 8 | 4.5 | 9.7 | 401 | 92 | 46 | 612 | 197 | 74 | 428 | 11 | 166 | 17 |
| 9 | 32 | 9.7 | 404 | 80 | 44 | 423 | 721 | 64 | 566 | 13 | 153 | 15 |
| 10 | 56 | 9.2 | 213 | 69 | 43 | 303 | 434 | 57 | 236 | 12 | 121 | 15 |
| 11 | 56 | 9.2 | 159 | 62 | 42 | 237 | 377 | 62 | 148 | 12 | 137 | 17 |
| 12 | 104 | 8.9 | 106 | 54 | 41 | 208 | 1370 | 80 | 131 | 32 | 103 | 17 |
| 13 | 391 | 8.9 | 72 | 60 | 44 | 149 | 1850 | 100 | 62 | 577 | 82 | 14 |
| 14 | 151 | 11 | 60 | 66 | 48 | 129 | 1210 | 72 | 52 | 613 | 70 | 16 |
| 15 | 56 | 56 | 53 | 49 | 60 | 103 | 725 | 78 | 45 | 933 | 61 | 14 |
| 16 | 68 | 28 | 47 | 45 | 90 | 88 | 487 | 56 | 39 | 644 | 53 | 13 |
| 17 | 77 | 126 | 42 | 60 | 82 | 82 | 344 | 46 | 34 | 283 | 49 | 13 |
| 18 | 40 | 115 | 41 | 44 | 74 | 78 | 252 | 42 | 31 | 184 | 45 | 13 |
| 19 | 7.5 | 57 | 38 | 47 | 66 | 117 | 159 | 38 | 29 | 124 | 110 | 12 |
| 20 | 7.0 | 39 | 43 | 47 | 64 | 197 | 135 | 37 | 26 | 88 | 120 | 11 |
| 21 | 6.3 | 26 | 75 | 47 | 148 | 226 | 119 | 35 | 60 | 66 | 98 | 12 |
| 22 | 6.3 | 17 | 62 | 60 | 535 | 174 | 106 | 32 | 47 | 53 | 81 | 14 |
| 23 | 7.5 | 18 | 47 | 120 | 1310 | 593 | 98 | 30 | 37 | 44 | 66 | 13 |
| 24 | 8.2 | 36 | 39 | 593 | 2310 | 759 | 113 | 28 | 30 | 51 | 59 | 13 |
| 25 | 7.9 | 27 | 44 | 771 | 2490 | 419 | 183 | 28 | 26 | 85 | 52 | 12 |
| 26 | 8.4 | 26 | 30 | 608 | 1540 | 299 | 234 | 26 | 23 | 347 | 60 | 11 |
| 27 | 8.9 | 32 | 25 | 238 | 1000 | 253 | 163 | 47 | 15 | 1600 | 96 | 11 |
| 28 | 9.7 | 30 | 26 | 184 | 685 | 188 | 156 | 32 | 14 | 5060 | 64 | 11 |
| 29 | 10 | 25 | 28 | 128 | --- | 221 | 127 | 28 | 16 | 5740 | 58 | 13 |
| 30 | 10 | 23 | 35 | 101 | --- | 584 | 107 | 30 | 17 | 4290 | 45 | 14 |
| 31 | 10 | --- | 413 | 90 | --- | 776 | --- | 32 | --- | 2610 | 40 | --- |
| TOTAL | 1176.8 | 813.1 | 3046 | 7677 | 11174 | 15892 | 12827 | 1940 | 2395 | 23574 | 7729 | 486 |
| MEAN | 38.0 | 27.1 | 98.3 | 248 | 399 | 513 | 428 | 62.6 | 79.8 | 760 | 249 | 16.2 |
| MAX | 391 | 126 | 413 | 1260 | 2490 | 1890 | 1850 | 158 | 566 | 5740 | 1580 | 32 |
| MIN | 4.2 | 7.7 | 22 | 44 | 41 | 78 | 98 | 26 | 14 | 11 | 40 | 11 |
| CFSM | .28 | .20 | .71 | 1.80 | 2.89 | 3.72 | 3.10 | .45 | .58 | 5.51 | 1.80 | .12 |
| IN. | .32 | .22 | .82 | 2.07 | 3.01 | 4.28 | 3.46 | .52 | .65 | 6.35 | 2.08 | .13 |
| CAL YR 1978 | TOTAL | 50110.1 | MEAN 137 | MAX 3000 | MIN 3.6 | CFSM .99 | IN 13.51 | | | | | |
| WTR YR 1979 | TOTAL | 88729.9 | MEAN 243 | MAX 5740 | MIN 4.2 | CFSM 1.76 | IN 23.92 | | | | | |

03342300 BUSSEYON CREEK NEAR SULLIVAN, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. * FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. * FINER THAN 1.00 MM |
|-------|------|---|---|--|---|---|---|---|---|
| JUL | | | | | | | | | |
| 28... | 1500 | 5470 | 124 | 1830 | 92 | 93 | 95 | 98 | 100 |
| 29... | 0905 | 5960 | 77 | 1240 | 96 | 97 | 98 | 99 | 100 |

03342500 BUSSEYON CREEK NEAR CARLISLE, IN

LOCATION.--Lat 38°58'26", long 87°25'33", in NW¼ survey 17, Vincennes Tract, Sullivan County, Hydrologic Unit 05120111, on left bank 10 ft (3 m) downstream from bridge on State Highway 58, 1.5 miles (2.4 km) northwest of Carlisle, and 7.2 miles (11.6 km) upstream from mouth.

DRAINAGE AREA.--228 mi² (591 km²).

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

REVISED RECORDS.--WSP 1335: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 425.36 ft (129.650 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft (61 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures and surface-mined areas.

AVERAGE DISCHARGE.--36 years, 223 ft³/s (6.315 m³/s), 13.28 in/yr (337 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s (249 m³/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.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,200 ft³/s (62.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 25 | 1800 | 3480 | 98.6 | 15.96 | 4.865 | Apr. 12 | 1100 | 2660 | 75.3 | 14.56 | 4.438 |
| Mar. 4 | 1300 | 3440 | 97.4 | 15.90 | 4.846 | July 30 | 0900 | *6210 | 176 | *19.01 | 5.794 |

Minimum daily discharge, 6.2 ft³/s (0.176 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|------|------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 6.2 | 15 | 29 | 2040 | 140 | 1700 | 1200 | 154 | 47 | 61 | 4530 | 60 |
| 2 | 6.2 | 13 | 28 | 1780 | 120 | 1890 | 1220 | 136 | 39 | 27 | 3660 | 57 |
| 3 | 9.0 | 13 | 298 | 1610 | 115 | 2300 | 1050 | 194 | 36 | 22 | 2890 | 53 |
| 4 | 10 | 13 | 413 | 1050 | 108 | 3200 | 854 | 273 | 32 | 21 | 2250 | 47 |
| 5 | 9.6 | 13 | 207 | 466 | 100 | 2860 | 932 | 220 | 28 | 20 | 1570 | 41 |
| 6 | 9.3 | 12 | 132 | 314 | 95 | 2590 | 640 | 175 | 24 | 18 | 823 | 36 |
| 7 | 8.7 | 12 | 156 | 243 | 89 | 2260 | 364 | 148 | 528 | 16 | 443 | 36 |
| 8 | 9.0 | 13 | 988 | 170 | 85 | 1640 | 337 | 126 | 1130 | 16 | 289 | 32 |
| 9 | 13 | 13 | 899 | 145 | 82 | 1090 | 1130 | 110 | 1030 | 19 | 224 | 28 |
| 10 | 67 | 13 | 476 | 125 | 80 | 700 | 1010 | 98 | 582 | 18 | 183 | 28 |
| 11 | 70 | 13 | 284 | 110 | 77 | 559 | 805 | 90 | 277 | 18 | 388 | 27 |
| 12 | 161 | 12 | 210 | 94 | 75 | 467 | 2390 | 121 | 219 | 111 | 191 | 28 |
| 13 | 666 | 12 | 142 | 100 | 89 | 368 | 2290 | 150 | 128 | 1160 | 141 | 28 |
| 14 | 354 | 14 | 115 | 110 | 86 | 287 | 2300 | 133 | 100 | 1320 | 116 | 26 |
| 15 | 107 | 30 | 98 | 85 | 100 | 204 | 1980 | 611 | 78 | 1460 | 96 | 24 |
| 16 | 76 | 72 | 86 | 78 | 150 | 166 | 1350 | 181 | 62 | 1250 | 83 | 22 |
| 17 | 101 | 250 | 75 | 100 | 140 | 150 | 727 | 127 | 52 | 730 | 75 | 22 |
| 18 | 78 | 248 | 66 | 80 | 130 | 143 | 458 | 101 | 45 | 350 | 67 | 21 |
| 19 | 23 | 114 | 68 | 73 | 125 | 206 | 295 | 81 | 40 | 225 | 78 | 21 |
| 20 | 15 | 65 | 84 | 72 | 116 | 352 | 229 | 68 | 40 | 156 | 189 | 20 |
| 21 | 13 | 47 | 163 | 72 | 404 | 339 | 189 | 60 | 68 | 115 | 239 | 21 |
| 22 | 12 | 29 | 124 | 94 | 1270 | 295 | 167 | 52 | 65 | 88 | 145 | 24 |
| 23 | 13 | 30 | 91 | 140 | 2880 | 799 | 152 | 48 | 43 | 67 | 111 | 22 |
| 24 | 14 | 41 | 85 | 1260 | 3210 | 1220 | 175 | 44 | 36 | 67 | 105 | 20 |
| 25 | 15 | 40 | 85 | 1240 | 3320 | 1000 | 309 | 40 | 33 | 135 | 82 | 20 |
| 26 | 13 | 42 | 71 | 953 | 3330 | 539 | 419 | 35 | 26 | 1160 | 86 | 19 |
| 27 | 13 | 51 | 45 | 552 | 2910 | 412 | 288 | 82 | 23 | 3230 | 89 | 18 |
| 28 | 14 | 46 | 57 | 380 | 2090 | 319 | 263 | 58 | 21 | 4660 | 154 | 18 |
| 29 | 13 | 37 | 57 | 284 | --- | 301 | 211 | 42 | 23 | 5950 | 149 | 18 |
| 30 | 14 | 32 | 63 | 229 | --- | 728 | 173 | 40 | 35 | 6140 | 92 | 20 |
| 31 | 15 | --- | 933 | 175 | --- | 1230 | --- | 45 | --- | 5510 | 74 | --- |
| TOTAL | 1948.0 | 1355 | 6628 | 14224 | 21516 | 30314 | 23907 | 3843 | 4890 | 34140 | 19612 | 857 |
| MEAN | 62.8 | 45.2 | 214 | 459 | 768 | 978 | 797 | 124 | 163 | 1101 | 633 | 28.6 |
| MAX | 666 | 250 | 988 | 2040 | 3330 | 3200 | 2390 | 611 | 1130 | 6140 | 4530 | 60 |
| MIN | 6.2 | 12 | 28 | 72 | 75 | 143 | 152 | 35 | 21 | 16 | 67 | 18 |
| CFSM | .28 | .20 | .94 | 2.01 | 3.37 | 4.29 | 3.50 | .54 | .72 | 4.83 | 2.78 | .13 |
| IN. | .32 | .22 | 1.08 | 2.32 | 3.51 | 4.95 | 3.90 | .63 | .80 | 5.57 | 3.20 | .14 |

| CAL YR 1978 | TOTAL | 86636.5 | MEAN 237 | MAX 3700 | MIN 6.2 | CFSM 1.04 | IN 14.14 |
|-------------|-------|----------|----------|----------|---------|-----------|----------|
| WTR YR 1979 | TOTAL | 163234.0 | MEAN 447 | MAX 6140 | MIN 6.2 | CFSM 1.96 | IN 26.63 |

03342500 BUSSEYON CREEK NEAR CARLISLE, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .500 MM |
|--------------|------|---|---|--|---|---|---|---|
| JUL 29... | 1015 | 6350 | 139 | 2380 | 96 | 96 | 98 | 100 |

03343000 WABASH RIVER AT VINCENNES, IN

LOCATION (revised).--Lat 38°42'19", long 87°31'14", T.3 N., R.10 W., Lawrence County, IL, Hydrologic Unit 05120111, on right bank, 30 ft (9.1 m) east of Illinois State Highway 33, 300 ft (91 m) upstream from Kelso Creek, 570 ft (174 m) downstream from U.S. Highway 50 bridge, 5.1 miles (8.2 km) downstream from Maria Creek, 7.5 miles (12.1 km) upstream from Embarras River and at mile 129.6 (208.5 km).

DRAINAGE AREA.--13,706 mi² (35,498 km²).

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 1.8 miles (2.9 km) (revised) downstream, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955. WRD Ind. 1973: Drainage area.

GAGE (revised).--Water-stage recorder. Datum of gage is 394.43 ft (120.222 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1968, to June 19, 1979, recording gage at site 570 ft (174 m) upstream at same datum. Oct. 1, 1960, to September 30, 1968, nonrecording gage at site 1.8 miles (2.9 km) downstream at same datum. Oct. 1, 1960, to Sept. 30, 1968, auxiliary water-stage recorder at site 2.8 miles (4.5 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.

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

AVERAGE DISCHARGE.--50 years, 11,790 ft³/s (333.9 m³/s), 11.68 in/yr (297 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft³/s (5,350 m³/s) May 22, 23, 1943, gage height, 29.33 ft (8.940 m), at former site 1.8 miles (2.9 km) (revised) downstream and at present datum; minimum daily, 770 ft³/s (21.8 m³/s) Aug. 4, 5, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1913, reached a stage of 26.3 ft (8.02 m), at former site 1.8 miles (2.9 km) (revised) downstream and at present datum, from floodmarks, determined by Corps of Engineers, discharge, 255,000 ft³/s (7,220 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 78,000 ft³/s (2,209 m³/s) Mar. 12; minimum daily, 2,640 ft³/s (74.8 m³/s) Oct. 7-10.

NOTE.--No gage-height record Feb. 22 to Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 1 | 2840 | 3450 | 5350 | 15400 | 4900 | 30000 | 31000 | 25000 | 7370 | 4790 | 45600 | 13200 |
| 2 | 2750 | 3400 | 5330 | 20800 | 4600 | 30000 | 32000 | 24000 | 7580 | 5150 | 46000 | 12100 |
| 3 | 2680 | 3380 | 5710 | 19000 | 4500 | 32000 | 33000 | 22000 | 7700 | 5320 | 44800 | 11200 |
| 4 | 2680 | 3360 | 6890 | 16400 | 4500 | 36000 | 34000 | 20000 | 7640 | 5000 | 43700 | 10700 |
| 5 | 2680 | 3380 | 6980 | 14600 | 4400 | 42000 | 35000 | 19000 | 7340 | 4680 | 42600 | 9890 |
| 6 | 2660 | 3340 | 7150 | 13000 | 4200 | 47000 | 36000 | 17000 | 6960 | 8460 | 41000 | 8850 |
| 7 | 2640 | 3240 | 7300 | 8800 | 4100 | 50000 | 36000 | 16000 | 7010 | 14800 | 37400 | 8030 |
| 8 | 2640 | 3210 | 11000 | 8200 | 4000 | 56000 | 35000 | 15000 | 8330 | 13800 | 31100 | 7330 |
| 9 | 2640 | 3110 | 14600 | 9400 | 3900 | 66000 | 33000 | 14000 | 8330 | 10800 | 24200 | 6780 |
| 10 | 2640 | 3010 | 14100 | 9900 | 3800 | 73000 | 33000 | 14000 | 8460 | 8280 | 18000 | 6440 |
| 11 | 2680 | 2910 | 12600 | 9600 | 3700 | 76000 | 33000 | 13000 | 8240 | 6900 | 16500 | 6180 |
| 12 | 2820 | 2880 | 11600 | 9100 | 3700 | 78000 | 34000 | 12000 | 8180 | 6530 | 16400 | 5950 |
| 13 | 5220 | 2970 | 10700 | 8200 | 3700 | 70000 | 40000 | 12000 | 8110 | 9310 | 14000 | 5850 |
| 14 | 4810 | 3030 | 9800 | 7400 | 3600 | 62000 | 44000 | 12000 | 7770 | 9890 | 12400 | 5660 |
| 15 | 3560 | 3450 | 8670 | 6600 | 3600 | 55000 | 46000 | 12000 | 7560 | 11300 | 11500 | 5410 |
| 16 | 3240 | 5530 | 7640 | 6000 | 3600 | 50000 | 50000 | 12000 | 7960 | 13000 | 10900 | 5250 |
| 17 | 3110 | 6980 | 7080 | 5800 | 3600 | 45000 | 52000 | 12000 | 8220 | 13200 | 10600 | 5120 |
| 18 | 3070 | 7640 | 6660 | 5500 | 3600 | 41000 | 54000 | 12000 | 8110 | 12100 | 10100 | 4860 |
| 19 | 2970 | 8050 | 6380 | 5500 | 3500 | 37000 | 52000 | 12000 | 7900 | 10600 | 9880 | 4570 |
| 20 | 2800 | 8050 | 6200 | 5400 | 3500 | 35000 | 48000 | 12000 | 7280 | 9290 | 17300 | 4640 |
| 21 | 2840 | 7580 | 6090 | 5300 | 3900 | 33000 | 44000 | 12000 | 6570 | 8710 | 25300 | 4860 |
| 22 | 2990 | 6940 | 5780 | 5300 | 5700 | 31000 | 36000 | 11000 | 6320 | 8550 | 27500 | 4670 |
| 23 | 3090 | 6680 | 5440 | 5400 | 10000 | 31000 | 31000 | 10000 | 6350 | 8390 | 28500 | 4340 |
| 24 | 3210 | 6430 | 5290 | 6400 | 16000 | 32000 | 25000 | 9400 | 6370 | 8210 | 29700 | 4190 |
| 25 | 3300 | 6140 | 5160 | 6600 | 2700 | 33000 | 22000 | 9100 | 6270 | 7800 | 29300 | 4140 |
| 26 | 3400 | 5930 | 4990 | 6200 | 30000 | 33000 | 21000 | 8600 | 6010 | 9290 | 28200 | 4150 |
| 27 | 3450 | 5840 | 4810 | 5800 | 31000 | 33000 | 21000 | 7900 | 5580 | 18100 | 24600 | 3650 |
| 28 | 3380 | 5550 | 4600 | 5300 | 31000 | 32000 | 22000 | 7700 | 5200 | 30700 | 19900 | 3620 |
| 29 | 3380 | 5420 | 4400 | 5300 | --- | 30000 | 23000 | 7500 | 4930 | 35700 | 17700 | 3580 |
| 30 | 3470 | 5380 | 4230 | 5200 | --- | 29000 | 24000 | 7200 | 4770 | 40500 | 15900 | 3520 |
| 31 | 3470 | --- | 6120 | 5200 | --- | 31000 | --- | 7200 | --- | 43900 | 14600 | --- |
| TOTAL | 97110 | 146260 | 228650 | 266600 | 209300 | 1359000 | 1060000 | 404600 | 214420 | 403050 | 765180 | 188730 |
| MEAN | 3133 | 4875 | 7376 | 8600 | 7475 | 43840 | 35330 | 13050 | 7147 | 13000 | 24680 | 6291 |
| MAX | 5220 | 8050 | 14600 | 20800 | 31000 | 78000 | 54000 | 25000 | 8460 | 43900 | 46000 | 13200 |
| MIN | 2640 | 2880 | 4230 | 5200 | 2700 | 29000 | 21000 | 7200 | 4770 | 4680 | 9880 | 3520 |
| CFSM | .23 | .36 | .54 | .63 | .55 | 3.20 | 2.58 | .95 | .52 | .95 | 1.80 | .46 |
| IN. | .26 | .40 | .62 | .72 | .57 | 3.69 | 2.88 | 1.10 | .58 | 1.09 | 2.08 | .51 |
| CAL YR 1978 | TOTAL | 4801140 | MEAN | 13150 | MAX | 73600 | MIN | 2640 | CFSM | .96 | IN | 13.03 |
| WTR YR 1979 | TOTAL | 5342900 | MEAN | 14640 | MAX | 78000 | MIN | 2640 | CFSM | 1.07 | IN | 14.50 |

03346000 NORTH FORK EMBARRAS RIVER NEAR OBLONG, IL

LOCATION (revised).--Lat 39°00'37", long 87°56'47", in NW¼NW¼ sec.35, T.7 N., R.14 W., Crawford County, Illinois, Hydrologic Unit 05120112, on left bank at downstream side of bridge on State Highway 33, 0.8 mi (1.3 km) upstream from Illinois Central Gulf Railroad bridge, 2 mi (3 km) west of Oblong, and at mile 10.5 (16.9 km).

DRAINAGE AREA.--318 mi² (824 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft (139.047 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1940, nonrecording gage and Dec. 11, 1940, to Sept. 30, 1964, water-stage recorder at same site at datum 2.00 ft (0.610 m) higher. Oct. 8, 1971, to May 15, 1979, water-stage recorder at site 0.8 mi (1.3 km) downstream at present datum.

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, Feb. 16 to Mar. 26, which are poor.

AVERAGE DISCHARGE.--39 years, 252 ft³/s (7.137 m³/s), 10.73 in/yr (273 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,100 ft³/s (767 m³/s) Jan. 4, 1950, gage height, 24.38 ft (7.431 m), present datum, from rating curve extended above 16,000 ft³/s (453 m³/s); no flow for many days in 1953-54, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (110 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | ---- | unknown | unknown | Apr. 13 | 0300 | 7850 222 | 19.30 5.883 |
| Mar. 5 | ---- | 5600 159 | 17.04 5.194 | July 29 | 1530 | *14300 405 | *21.18 6.456 |

Minimum daily discharge, 7.9 ft³/s (0.22 m³/s) Sept. 30.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1978 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|-------|-------|-------|------|------|-------|-------|-------|
| 1 | 9.8 | 20 | 46 | 1760 | 50 | 900 | 657 | 167 | 40 | 27 | 3530 | 61 |
| 2 | 9.6 | 18 | 41 | 1500 | 45 | 1200 | 949 | 142 | 33 | 19 | 1410 | 45 |
| 3 | 9.8 | 17 | 41 | 400 | 45 | 2000 | 721 | 152 | 31 | 15 | 281 | 42 |
| 4 | 9.8 | 14 | 322 | 200 | 40 | 3500 | 520 | 152 | 28 | 13 | 165 | 40 |
| 5 | 9.8 | 15 | 240 | 130 | 40 | 4000 | 968 | 133 | 27 | 12 | 120 | 33 |
| 6 | 8.5 | 15 | 124 | 120 | 40 | 2500 | 550 | 147 | 27 | 11 | 97 | 29 |
| 7 | 9.0 | 15 | 98 | 100 | 35 | 1000 | 278 | 119 | 31 | 11 | 78 | 26 |
| 8 | 9.6 | 16 | 333 | 80 | 35 | 700 | 407 | 97 | 145 | 10 | 96 | 23 |
| 9 | 9.0 | 17 | 434 | 130 | 35 | 500 | 1810 | 88 | 94 | 10 | 630 | 20 |
| 10 | 8.3 | 17 | 141 | 110 | 30 | 400 | 2260 | 84 | 50 | 11 | 209 | 18 |
| 11 | 9.8 | 17 | 111 | 100 | 30 | 300 | 1270 | 128 | 37 | 11 | 103 | 16 |
| 12 | 40 | 18 | 88 | 100 | 30 | 250 | 3720 | 178 | 36 | 10 | 81 | 15 |
| 13 | 242 | 17 | 79 | 100 | 30 | 220 | 5420 | 200 | 35 | 13 | 80 | 14 |
| 14 | 120 | 18 | 64 | 95 | 30 | 190 | 1760 | 137 | 34 | 137 | 79 | 13 |
| 15 | 65 | 49 | 62 | 80 | 29 | 170 | 673 | 506 | 35 | 485 | 62 | 13 |
| 16 | 35 | 95 | 55 | 70 | 28 | 150 | 353 | 315 | 29 | 458 | 51 | 12 |
| 17 | 27 | 88 | 52 | 65 | 28 | 140 | 266 | 109 | 25 | 102 | 46 | 11 |
| 18 | 24 | 290 | 48 | 60 | 28 | 130 | 194 | 81 | 23 | 46 | 42 | 11 |
| 19 | 22 | 203 | 46 | 60 | 28 | 160 | 162 | 69 | 22 | 29 | 39 | 10 |
| 20 | 21 | 114 | 48 | 60 | 28 | 200 | 147 | 63 | 20 | 22 | 57 | 10 |
| 21 | 19 | 76 | 64 | 60 | 100 | 190 | 128 | 57 | 463 | 18 | 441 | 9.7 |
| 22 | 18 | 61 | 115 | 60 | 400 | 170 | 102 | 54 | 175 | 16 | 297 | 9.7 |
| 23 | 17 | 50 | 81 | 70 | 1000 | 300 | 102 | 52 | 56 | 14 | 93 | 9.7 |
| 24 | 17 | 50 | 65 | 90 | 3000 | 800 | 492 | 44 | 34 | 46 | 946 | 9.4 |
| 25 | 16 | 48 | 66 | 80 | 2500 | 1000 | 1100 | 41 | 25 | 37 | 970 | 9.4 |
| 26 | 16 | 47 | 88 | 80 | 1600 | 500 | 755 | 38 | 21 | 231 | 179 | 8.8 |
| 27 | 16 | 45 | 63 | 70 | 1300 | 298 | 580 | 40 | 18 | 856 | 80 | 8.5 |
| 28 | 16 | 54 | 62 | 60 | 1000 | 278 | 443 | 53 | 17 | 2240 | 61 | 8.5 |
| 29 | 19 | 60 | 53 | 60 | --- | 689 | 254 | 59 | 16 | 9880 | 658 | 8.2 |
| 30 | 21 | 51 | 53 | 55 | --- | 2210 | 200 | 43 | 15 | 4630 | 354 | 7.9 |
| 31 | 21 | --- | 338 | 50 | --- | 2060 | --- | 40 | --- | 2590 | 104 | --- |
| TOTAL | 895.0 | 1615 | 3521 | 6055 | 11584 | 27105 | 27241 | 3588 | 1642 | 22010 | 11439 | 551.8 |
| MEAN | 28.9 | 53.8 | 114 | 195 | 414 | 874 | 908 | 116 | 54.7 | 710 | 369 | 18.4 |
| MAX | 242 | 290 | 434 | 1760 | 3000 | 4000 | 5420 | 506 | 463 | 9880 | 3530 | 61 |
| MIN | 8.3 | 14 | 41 | 50 | 28 | 130 | 102 | 38 | 15 | 10 | 39 | 7.9 |
| CFSM | .09 | .17 | .36 | .61 | 1.30 | 2.74 | 2.85 | .36 | .17 | 2.23 | 1.16 | .06 |
| IN. | .10 | .19 | .41 | .71 | 1.35 | 3.16 | 3.18 | .42 | .19 | 2.57 | 1.33 | .06 |

| | | | | | | | |
|-------------|-------|----------|----------|----------|---------|-----------|----------|
| CAL YR 1978 | TOTAL | 87228.0 | MEAN 239 | MAX 4960 | MIN 8.0 | CFSM .75 | IN 10.17 |
| WTR YR 1979 | TOTAL | 117246.8 | MEAN 321 | MAX 9880 | MIN 7.9 | CFSM 1.01 | IN 13.67 |

WABASH RIVER BASIN

03346900 PRAIRIE CREEK RESERVOIR NEAR MUNCIE, IN

LOCATION.--Lat 40°08'46", long 85°17'35", in NE¼NE¼ sec.32, T.20 N., R.11 E., Delaware County, Hydrologic Unit 05120201, 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 mi² (43.5 km²).

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 21,900 acre-ft (27.0 hm³). Reservoir is used for low-flow augmentation of the water supply for Muncie and recreation. Reservoir was filled for the first time in the spring of 1963.

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

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 989.7 | 21,490 | |
| Oct. 31..... | 989.3 | 21,000 | -490 |
| Nov. 30..... | 989.4 | 21,120 | +120 |
| Dec. 31..... | 989.8 | 21,610 | +490 |
| CAL YR 1978..... | | | -250 |
| Jan. 31..... | 989.8 | 21,610 | 0 |
| Feb. 28..... | 990.0 | 21,860 | +250 |
| Mar. 31..... | 990.0 | 21,860 | 0 |
| Apr. 30..... | 990.0 | 21,860 | 0 |
| May 31..... | 990.0 | 21,860 | 0 |
| June 30..... | 990.0 | 21,860 | 0 |
| July 31..... | 990.0 | 21,860 | 0 |
| Aug. 31..... | 990.0 | 21,860 | 0 |
| Sept. 30..... | 990.0 | 21,860 | 0 |
| WTR YR 1979..... | | | +370 |

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 ft³/s

| 1978 | | | | | | | | | | | | 1979 | |
|------|------|------|-----------|------|------|------|------|------|------|------|------|-------|------------|
| Oct. | Nov. | Dec. | Cal. year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Water year |
| 17.7 | 16.0 | 16.1 | 17.3 | 18.1 | 18.9 | 18.4 | 17.8 | 18.1 | 17.3 | 17.3 | 17.8 | 19.0 | 17.7 |

03347000 WHITE RIVER AT MUNCIE, IN

LOCATION.--Lat 40°12'15", long 85°23'14", in SE¼NW¼ Hackley Reserve, Delaware County, Hydrologic Unit 05120201, on right bank 200 ft (61 m) downstream from Walnut Street bridge in Muncie, 6 miles (10 km) upstream from Bell Creek, and at mile 315.8 (508.1 km).

DRAINAGE AREA.--241 mi² (624 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. Daily gage heights from July 1923 to December 1929 are available in the district office.

REVISED RECORDS.--WSP 1335: 1931-32(M), 1936(M), 1938, 1948. WSP 1435: 1955. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 917.10 ft (279.532 m) National Geodetic Vertical Datum of 1929 (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.

REMARKS.--Records good except those for winter periods, which are poor. Natural flow affected by regulation of Prairie Creek Reservoir and by diversion of municipal water supply by Muncie Water Works Co. (See sta 03346900). Records of diversion available since October 1937.

AVERAGE DISCHARGE.--48 years (1931 to current year), 207 ft³/s (5.862 m³/s), 11.65 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,300 ft³/s (405 m³/s) Apr. 21, 1964, gage height, 14.98 ft (4.566 m) present datum; maximum gage height, 21.07 ft (6.422 m) Jan. 15, 1937, present datum; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 16, 17, 23-25, 1954, and Oct. 10, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 22.6 ft (6.89 m) in March 1913, present datum, discharge, 20,000 ft³/s (566 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 2000 | 5250 149 | 9.80 2.987 | July 30 | 0100 | 3710 105 | 8.71 2.655 |
| Mar. 4 | 2200 | 3850 109 | 8.77 2.673 | Aug. 3 | 0100 | 3700 105 | 8.70 2.652 |
| July 27 | 0500 | 2960 83.8 | 8.05 2.454 | Aug. 22 | 0600 | *5230 148 | *9.84 2.999 |

Minimum daily discharge, 26 ft³/s (0.736 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 42 | 47 | 46 | 1840 | 87 | 487 | 185 | 138 | 128 | 139 | 1280 | 350 |
| 2 | 38 | 46 | 46 | 1930 | 85 | 1040 | 234 | 129 | 110 | 77 | 3030 | 289 |
| 3 | 30 | 45 | 210 | 1090 | 83 | 1660 | 237 | 146 | 98 | 53 | 2880 | 253 |
| 4 | 31 | 47 | 780 | 600 | 82 | 3240 | 202 | 152 | 84 | 57 | 995 | 247 |
| 5 | 33 | 50 | 540 | 450 | 80 | 3240 | 209 | 143 | 98 | 55 | 505 | 242 |
| 6 | 31 | 48 | 315 | 320 | 79 | 1510 | 217 | 131 | 852 | 43 | 404 | 200 |
| 7 | 30 | 52 | 232 | 223 | 78 | 794 | 202 | 125 | 722 | 36 | 330 | 143 |
| 8 | 31 | 52 | 353 | 185 | 77 | 616 | 188 | 117 | 504 | 34 | 256 | 128 |
| 9 | 29 | 49 | 702 | 162 | 77 | 517 | 306 | 108 | 469 | 50 | 209 | 113 |
| 10 | 26 | 49 | 410 | 153 | 76 | 486 | 275 | 101 | 407 | 54 | 185 | 105 |
| 11 | 32 | 49 | 245 | 152 | 75 | 396 | 376 | 94 | 300 | 65 | 291 | 94 |
| 12 | 34 | 49 | 187 | 156 | 75 | 303 | 1380 | 99 | 232 | 57 | 216 | 87 |
| 13 | 123 | 49 | 161 | 160 | 78 | 261 | 1200 | 115 | 191 | 116 | 149 | 85 |
| 14 | 177 | 67 | 138 | 165 | 80 | 279 | 1510 | 97 | 166 | 921 | 115 | 159 |
| 15 | 143 | 78 | 121 | 155 | 83 | 264 | 1090 | 90 | 134 | 1510 | 93 | 225 |
| 16 | 121 | 71 | 111 | 150 | 81 | 221 | 602 | 79 | 113 | 627 | 77 | 165 |
| 17 | 72 | 155 | 99 | 147 | 79 | 201 | 430 | 68 | 102 | 259 | 68 | 123 |
| 18 | 59 | 393 | 86 | 140 | 78 | 189 | 334 | 61 | 89 | 171 | 67 | 103 |
| 19 | 47 | 269 | 77 | 138 | 78 | 183 | 274 | 60 | 100 | 123 | 90 | 89 |
| 20 | 42 | 173 | 90 | 150 | 79 | 179 | 238 | 61 | 134 | 90 | 388 | 81 |
| 21 | 38 | 123 | 205 | 210 | 90 | 167 | 213 | 55 | 128 | 72 | 2600 | 74 |
| 22 | 32 | 98 | 190 | 300 | 1460 | 156 | 197 | 49 | 96 | 61 | 4290 | 76 |
| 23 | 29 | 94 | 148 | 200 | 3250 | 160 | 179 | 46 | 71 | 49 | 1580 | 70 |
| 24 | 27 | 92 | 127 | 158 | 4220 | 175 | 167 | 55 | 59 | 62 | 705 | 61 |
| 25 | 48 | 75 | 117 | 140 | 1970 | 163 | 166 | 97 | 49 | 214 | 469 | 57 |
| 26 | 53 | 66 | 100 | 123 | 884 | 134 | 162 | 172 | 41 | 1910 | 388 | 53 |
| 27 | 58 | 61 | 84 | 114 | 681 | 111 | 157 | 204 | 38 | 2530 | 601 | 49 |
| 28 | 59 | 60 | 78 | 106 | 552 | 107 | 176 | 277 | 36 | 1320 | 636 | 48 |
| 29 | 57 | 53 | 85 | 99 | --- | 119 | 182 | 200 | 39 | 2750 | 1240 | 50 |
| 30 | 58 | 49 | 77 | 94 | --- | 133 | 161 | 149 | 124 | 2740 | 706 | 51 |
| 31 | 52 | --- | 262 | 90 | --- | 157 | --- | 129 | --- | 1180 | 457 | --- |
| TOTAL | 1682 | 2609 | 6422 | 10100 | 14697 | 17648 | 11449 | 3547 | 5714 | 17425 | 25300 | 3870 |
| MEAN | 54.3 | 87.0 | 207 | 326 | 525 | 569 | 382 | 114 | 190 | 562 | 816 | 129 |
| MAX | 177 | 393 | 780 | 1930 | 4220 | 3240 | 1510 | 277 | 852 | 2750 | 4290 | 350 |
| MIN | 26 | 45 | 46 | 90 | 75 | 107 | 157 | 46 | 36 | 34 | 67 | 48 |
| CFSM | .23 | .36 | .86 | 1.35 | 2.18 | 2.36 | 1.59 | .47 | .79 | 2.33 | 3.39 | .54 |
| IN. | .26 | .40 | .99 | 1.56 | 2.27 | 2.72 | 1.77 | .55 | .88 | 2.69 | 3.91 | .60 |

CAL YR 1978 TOTAL 87124.4 MEAN 239 MAX 3460 MIN 6.9 CFSM .99 IN 13.45
WTR YR 1979 TOTAL 120463.0 MEAN 330 MAX 4290 MIN 26 CFSM 1.37 IN 18.59

WABASH RIVER BASIN

03347000 WHITE RIVER AT MUNCIE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|
| OCT | | | | | | | | |
| 12... | 0900 | 14.0 | 33 | 11 | .98 | -- | -- | -- |
| NOV | | | | | | | | |
| 16... | 0920 | 7.0 | 68 | 12 | 2.2 | -- | -- | -- |
| DEC | | | | | | | | |
| 20... | 1420 | 4.0 | 79 | 8 | 1.7 | -- | -- | -- |
| MAR | | | | | | | | |
| 22... | 0915 | 11.0 | 162 | 16 | 7.0 | -- | -- | -- |
| APR | | | | | | | | |
| 25... | 0905 | 16.0 | 167 | 20 | 9.0 | -- | -- | -- |
| JUN | | | | | | | | |
| 04... | 1230 | 21.0 | 83 | 19 | 4.2 | -- | -- | -- |
| JUL | | | | | | | | |
| 18... | 1125 | 22.0 | 178 | 117 | 56 | -- | -- | -- |
| 26... | 1210 | -- | 2020 | 593 | 3230 | 98 | -- | -- |
| AUG | | | | | | | | |
| 02... | 1550 | -- | 3220 | 224 | 1950 | 85 | 86 | 86 |
| 08... | 1150 | -- | 256 | 113 | 78 | 98 | -- | -- |
| 21... | 1510 | -- | 2780 | 387 | 2910 | 95 | 96 | 97 |
| 22... | 1510 | -- | 4040 | 139 | 1520 | 95 | -- | -- |

[illegible]

03347500 BUCK CREEK NEAR MUNCIE, IN

LOCATION.--Lat 40°08'05", long 85°22'25", in SW¼SE¼ sec.34, T.20 N., R.10 E., Delaware County, Hydrologic Unit 05120201, on left bank at downstream side of bridge on County Road 400 South, 1.0 mile (1.6 km) upstream from Muncie Water Works Co. pumping station, 4.2 miles (6.8 km) southeast of courthouse in Muncie, and at mile 10.6 (17.0 km).

DRAINAGE AREA.--35.5 mi² (91.9 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1909: 1955, 1957. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 944.67 ft (287.935 m) National Geodetic Vertical Datum of 1929. Prior to May 5, 1955, nonrecording gage at same site and datum.

REMARKS.--Records good except those above 180 ft³/s, which are fair.

AVERAGE DISCHARGE.--25 years, 35.2 ft³/s (0.997 m³/s), 13.46 in/yr (342 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Apr. 21, 1964, gage height, 13.96 ft (4.255 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Jan. 17, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 15 ft (4.6 m), from information by local residents. Date unknown.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 0100 | *1020 28.9 | *11.77 3.587 | July 29 | 0400 | 715 20.2 | 10.30 3.139 |
| Mar. 3 | 2400 | 565 16.0 | 9.16 2.792 | Aug. 2 | 0400 | 783 22.2 | 10.75 3.277 |
| July 26 | 0600 | 616 17.4 | 9.59 2.923 | Aug. 21 | 1300 | 860 24.4 | 11.24 3.426 |

Minimum daily discharge, 17 ft³/s (0.48 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-----------|---------|--------|-----------|----------|------|------|------|------|------|
| 1 | 19 | 22 | 26 | 313 | 23 | 85 | 37 | 31 | 27 | 31 | 399 | 41 |
| 2 | 18 | 22 | 26 | 151 | 22 | 181 | 41 | 31 | 27 | 27 | 492 | 39 |
| 3 | 18 | 22 | 82 | 79 | 21 | 308 | 36 | 34 | 27 | 26 | 123 | 41 |
| 4 | 18 | 22 | 91 | 55 | 21 | 438 | 36 | 32 | 26 | 33 | 85 | 40 |
| 5 | 18 | 21 | 52 | 45 | 20 | 178 | 36 | 30 | 42 | 28 | 64 | 37 |
| 6 | 19 | 21 | 41 | 39 | 20 | 111 | 44 | 30 | 203 | 25 | 54 | 35 |
| 7 | 18 | 22 | 41 | 35 | 20 | 91 | 38 | 29 | 75 | 24 | 49 | 34 |
| 8 | 18 | 21 | 94 | 32 | 19 | 79 | 37 | 29 | 57 | 24 | 44 | 32 |
| 9 | 17 | 21 | 85 | 31 | 19 | 66 | 52 | 28 | 50 | 28 | 41 | 32 |
| 10 | 17 | 21 | 49 | 30 | 19 | 63 | 43 | 28 | 42 | 25 | 39 | 31 |
| 11 | 20 | 21 | 40 | 29 | 19 | 52 | 81 | 27 | 38 | 23 | 69 | 30 |
| 12 | 22 | 20 | 37 | 29 | 19 | 45 | 150 | 30 | 35 | 23 | 46 | 30 |
| 13 | 65 | 20 | 35 | 29 | 19 | 44 | 92 | 29 | 34 | 44 | 40 | 31 |
| 14 | 40 | 33 | 32 | 29 | 18 | 47 | 121 | 27 | 32 | 60 | 36 | 48 |
| 15 | 36 | 30 | 31 | 28 | 18 | 42 | 75 | 30 | 30 | 56 | 34 | 36 |
| 16 | 30 | 26 | 30 | 27 | 18 | 40 | 58 | 27 | 29 | 34 | 33 | 32 |
| 17 | 28 | 90 | 29 | 26 | 18 | 39 | 51 | 26 | 30 | 28 | 31 | 31 |
| 18 | 26 | 74 | 28 | 26 | 18 | 38 | 45 | 26 | 30 | 26 | 31 | 31 |
| 19 | 26 | 47 | 28 | 26 | 18 | 38 | 42 | 26 | 41 | 27 | 42 | 28 |
| 20 | 25 | 39 | 33 | 28 | 18 | 37 | 40 | 27 | 35 | 29 | 219 | 21 |
| 21 | 24 | 35 | 45 | 56 | 30 | 36 | 39 | 25 | 47 | 31 | 679 | 22 |
| 22 | 23 | 32 | 35 | 35 | 71 | 35 | 38 | 25 | 32 | 35 | 149 | 22 |
| 23 | 23 | 33 | 32 | 31 | 636 | 36 | 36 | 25 | 29 | 38 | 96 | 20 |
| 24 | 23 | 31 | 31 | 29 | 484 | 36 | 35 | 25 | 28 | 55 | 70 | 19 |
| 25 | 23 | 29 | 30 | 28 | 127 | 33 | 35 | 28 | 26 | 104 | 54 | 18 |
| 26 | 25 | 28 | 28 | 27 | 86 | 31 | 35 | 27 | 26 | 366 | 60 | 18 |
| 27 | 24 | 29 | 27 | 27 | 70 | 31 | 34 | 38 | 25 | 88 | 55 | 18 |
| 28 | 23 | 28 | 26 | 27 | 57 | 31 | 36 | 32 | 25 | 206 | 56 | 18 |
| 29 | 22 | 27 | 25 | 25 | --- | 32 | 33 | 28 | 28 | 450 | 65 | 18 |
| 30 | 22 | 26 | 28 | 25 | --- | 32 | 32 | 27 | 47 | 111 | 51 | 18 |
| 31 | 22 | --- | 107 | 25 | --- | 37 | --- | 27 | --- | 91 | 45 | --- |
| TOTAL | 752 | 913 | 1324 | 1422 | 1948 | 2392 | 1508 | 884 | 1223 | 2196 | 3351 | 871 |
| MEAN | 24.3 | 30.4 | 42.7 | 45.9 | 69.6 | 77.2 | 50.3 | 28.5 | 40.8 | 70.8 | 108 | 29.0 |
| MAX | 65 | 90 | 107 | 313 | 636 | 438 | 150 | 38 | 203 | 450 | 679 | 48 |
| MIN | 17 | 20 | 25 | 25 | 18 | 31 | 32 | 25 | 25 | 23 | 31 | 18 |
| CFSM | .69 | .86 | 1.20 | 1.29 | 1.96 | 2.18 | 1.42 | .80 | 1.15 | 1.99 | 3.04 | .82 |
| IN. | .79 | .96 | 1.39 | 1.49 | 2.04 | 2.51 | 1.58 | .93 | 1.28 | 2.30 | 3.51 | .91 |
| CAL YR 1978 | TOTAL | 16111 | MEAN 44.1 | MAX 585 | MIN 15 | CFSM 1.24 | IN 16.88 | | | | | |
| WTR YR 1979 | TOTAL | 18784 | MEAN 51.5 | MAX 679 | MIN 17 | CFSM 1.45 | IN 19.68 | | | | | |

03347500 BUCK CREEK NEAR MUNCIE, IN

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: June to September 1979.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATION: Maximum daily, 689 mg/L Aug. 20, 1979; minimum daily, 43 mg/L July 12, Sept. 9, 1979.
 SEDIMENT DISCHARGE: Maximum daily, 1,190 tons (1,080 tonnes) Aug. 21, 1979; minimum daily, 2.7 tons (2.4 tonnes) July 12, Sept. 27, 1979.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily, 689 mg/L Aug. 20; minimum, 43 mg/L July 12, Sept. 9.
 SEDIMENT DISCHARGE: Maximum daily, 1,190 tons (1,080 tonnes) Aug. 21; minimum daily, 2.7 tons (2.4 tonnes) July 12, Sept. 27.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | | | 104 | 7.6 | 122 | 10 | --- | --- | 83 | 9.2 |
| 2 | | | | | 94 | 6.9 | 133 | 9.7 | --- | --- | 78 | 8.2 |
| 3 | | | | | 95 | 6.9 | 149 | 10 | 225 | 75 | 104 | 12 |
| 4 | | | | | 103 | 7.2 | 212 | 20 | 206 | 47 | 92 | 9.9 |
| 5 | | | | | 117 | 15 | 106 | 8.0 | 153 | 26 | 69 | 6.9 |
| 6 | | | | | 498 | 285 | 85 | 5.7 | 86 | 13 | 53 | 5.0 |
| 7 | | | | | 185 | 37 | 65 | 4.2 | 110 | 15 | 47 | 4.3 |
| 8 | | | | | 155 | 24 | 52 | 3.4 | 101 | 12 | 46 | 4.0 |
| 9 | | | | | 194 | 27 | 179 | 14 | 102 | 11 | 43 | 3.7 |
| 10 | | | | | 142 | 16 | 88 | 5.9 | 88 | 9.4 | 45 | 3.8 |
| 11 | | | | | 172 | 18 | 54 | 3.4 | 215 | 51 | 47 | 3.8 |
| 12 | | | | | 184 | 17 | 43 | 2.7 | 140 | 18 | 44 | 3.6 |
| 13 | | | | | 177 | 16 | 273 | 39 | 143 | 16 | 54 | 4.5 |
| 14 | | | | | 170 | 15 | 379 | 76 | 108 | 10 | 120 | 16 |
| 15 | | | | | 178 | 14 | 440 | 81 | 93 | 8.5 | 74 | 7.2 |
| 16 | | | | | 183 | 14 | 133 | 12 | 74 | 6.6 | 57 | 4.9 |
| 17 | | | | | 187 | 15 | 72 | 5.4 | 62 | 5.2 | 69 | 5.8 |
| 18 | | | | | 264 | 23 | 58 | 4.1 | 69 | 5.8 | 61 | 5.1 |
| 19 | | | | | 488 | 59 | 80 | 5.8 | 105 | 12 | 58 | 4.4 |
| 20 | | | | | 263 | 27 | 103 | 8.1 | --- | --- | 61 | 3.5 |
| 21 | | | | | 483 | 67 | 111 | 9.3 | --- | --- | 64 | 3.8 |
| 22 | | | | | 194 | 17 | 113 | 11 | 178 | 72 | 73 | 4.3 |
| 23 | | | | | 140 | 11 | 99 | 10 | 221 | 57 | 70 | 3.8 |
| 24 | | | | | 115 | 8.7 | 211 | 35 | 87 | 16 | 63 | 3.2 |
| 25 | | | | | 98 | 6.9 | --- | --- | 68 | 9.9 | 57 | 2.8 |
| 26 | | | | | 88 | 6.2 | --- | --- | 95 | 15 | 59 | 2.9 |
| 27 | | | | | 99 | 6.7 | 150 | 36 | 93 | 15 | 55 | 2.7 |
| 28 | | | | | 93 | 6.3 | --- | --- | 92 | 15 | 58 | 2.8 |
| 29 | | | | | 142 | 12 | --- | --- | 172 | 31 | 61 | 3.0 |
| 30 | | | | | 225 | 30 | 240 | 72 | 106 | 15 | 58 | 2.8 |
| 31 | | | | | --- | --- | --- | --- | 93 | 11 | --- | --- |
| TOTAL | | | | | --- | 822.4 | | | | | --- | 157.9 |

WABASH RIVER BASIN

03347500 BUCK CREEK NEAR MUNCIE, IN

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| MAR | | | | | | | | | | |
| 14... | 1640 | 6.0 | 47 | 242 | 31 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 01... | 1215 | -- | 26 | 105 | 7.4 | 80 | -- | -- | -- | -- |
| 02... | 1130 | -- | 25 | 93 | 6.3 | 85 | -- | -- | -- | -- |
| 03... | 1230 | -- | 25 | 94 | 6.3 | 83 | -- | -- | -- | -- |
| 04... | 1140 | -- | 25 | 103 | 7.0 | 78 | -- | -- | -- | -- |
| 05... | 1305 | -- | 25 | 107 | 7.2 | 70 | -- | -- | -- | -- |
| 06... | 1300 | -- | 149 | 488 | 196 | 99 | 99 | 100 | -- | -- |
| 06... | 1505 | 1.9 | 122 | 332 | 109 | -- | -- | -- | -- | -- |
| 07... | 1245 | -- | 63 | 179 | 30 | 84 | -- | -- | -- | -- |
| 08... | 1230 | -- | 51 | 154 | 21 | 84 | -- | -- | -- | -- |
| 09... | 1245 | -- | 51 | 190 | 26 | 80 | -- | -- | -- | -- |
| 10... | 1245 | -- | 42 | 141 | 16 | 77 | -- | -- | -- | -- |
| 11... | 1315 | -- | 38 | 175 | 18 | 80 | 93 | 99 | 100 | -- |
| 12... | 1300 | -- | 35 | 185 | 17 | 78 | 91 | 94 | 99 | 100 |
| 13... | 1300 | -- | 35 | 176 | 17 | 77 | 92 | 98 | 100 | -- |
| 14... | 1250 | -- | 32 | 130 | 11 | 81 | 93 | 96 | 100 | -- |
| 15... | 1140 | -- | 30 | 177 | 14 | 82 | 97 | 100 | -- | -- |
| 16... | 1325 | -- | 30 | 209 | 17 | 78 | 95 | 98 | 100 | -- |
| 17... | 1215 | -- | 29 | 179 | 14 | 81 | 92 | 98 | 100 | -- |
| 18... | 1325 | -- | 29 | 222 | 17 | 82 | 94 | 98 | 100 | -- |
| 19... | 1200 | -- | 45 | 768 | 93 | 93 | 97 | 99 | 100 | -- |
| 20... | 1150 | -- | 34 | 340 | 31 | 79 | 94 | 100 | -- | -- |
| 20... | 1750 | -- | 33 | 161 | 14 | 76 | -- | -- | -- | -- |
| 21... | 1225 | -- | 45 | 440 | 53 | 95 | -- | -- | -- | -- |
| 22... | 1215 | -- | 28 | 187 | 14 | 76 | -- | -- | -- | -- |
| 23... | 1355 | -- | 29 | 196 | 15 | 79 | -- | -- | -- | -- |
| 24... | 1230 | -- | 28 | 114 | 8.6 | 82 | -- | -- | -- | -- |
| 25... | 1225 | -- | 26 | 133 | 9.3 | 67 | -- | -- | -- | -- |
| 26... | 1220 | -- | 26 | 86 | 6.0 | 77 | -- | -- | -- | -- |
| 27... | 1500 | -- | 26 | 101 | 7.1 | 85 | -- | -- | -- | -- |
| 28... | 1240 | -- | 25 | 93 | 6.3 | 85 | -- | -- | -- | -- |
| 29... | 1210 | -- | 26 | 146 | 10 | 83 | -- | -- | -- | -- |
| JUL | | | | | | | | | | |
| 17... | 1230 | -- | 34 | 140 | 13 | 63 | 82 | 91 | 100 | -- |
| 18... | 0910 | -- | 26 | 151 | 10 | 58 | 86 | 95 | 100 | -- |
| 26... | 1100 | -- | 383 | 593 | 613 | 96 | 97 | 98 | 99 | 100 |
| 26... | 1420 | -- | 231 | 631 | 394 | 97 | 98 | 99 | 99 | 100 |
| AUG | | | | | | | | | | |
| 01... | 1930 | -- | 743 | 571 | 1150 | 98 | 100 | -- | -- | -- |
| 02... | 1600 | -- | 251 | 146 | 99 | 84 | 88 | 91 | 97 | 100 |
| 14... | 1200 | -- | 37 | 70 | 7.0 | 73 | 96 | 100 | -- | -- |
| 16... | 1030 | -- | 33 | 74 | 6.6 | 81 | 98 | 100 | -- | -- |
| 17... | 1200 | -- | 32 | 37 | 3.2 | 96 | 100 | -- | -- | -- |
| 18... | 1100 | -- | 31 | 69 | 5.8 | 83 | 98 | 100 | -- | -- |
| 20... | 1130 | -- | 144 | 894 | 348 | 93 | 98 | 100 | -- | -- |
| 20... | 1930 | -- | 240 | 490 | 318 | 91 | 95 | 99 | 100 | -- |
| 21... | 1130 | -- | 862 | 944 | 2200 | 92 | 98 | 100 | -- | -- |
| 21... | 1325 | -- | 829 | 218 | 488 | 88 | -- | -- | -- | -- |
| 21... | 1720 | -- | 520 | 218 | 306 | 87 | 91 | 95 | 99 | 100 |
| 21... | 1930 | -- | 322 | 128 | 111 | 92 | 93 | 95 | 98 | 100 |
| 22... | 1620 | -- | 142 | 166 | 64 | 82 | -- | -- | -- | -- |

03348000 WHITE RIVER AT ANDERSON, IN

LOCATION.--Lat 40°06'20", long 85°40'16", in NW¼NW¼ sec.18, T.19 N., R.8 E., Madison County, Hydrologic Unit 05120201, on downstream side of Twelfth Street bridge, 250 ft (76 m) upstream from municipal water-supply plant in Anderson, 1 mile (2 km) upstream from Killbuck Creek, and at mile 293.3 (471.9 km).

DRAINAGE AREA.--406 mi² (1,052 km²).

PERIOD OF RECORD.--July 1925 to September 1926, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 950 ft (290 m) downstream December 1910 to February 1918, 250 ft (76 m) downstream from February 1918 to Sept. 14, 1973, and at present site since Sept. 15, 1973, are contained in reports of National Weather Service. Prior to October 1948, published as West Fork White River at Anderson.

REVISED RECORDS.--WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WSP 2109: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 825.02 ft (251.466 m) National Geodetic Vertical Datum of 1929.

Prior to May 12, 1934, nonrecording gage at present site and datum. May 12, 1934, to Sept. 14, 1973, nonrecording gage at site 250 ft (76 m) downstream at same datum. Sept. 15, 1973, to Sept. 23, 1976, nonrecording gage at present site and datum.

REMARKS.--Records good, except those for winter periods and period of no gage-height record, which are fair. Prior to Sept. 15, 1973, the City of Anderson diverted water for its municipal supply above the gage then in use.

AVERAGE DISCHARGE.--49 years, 377 ft³/s (10.68 m³/s), 12.61 in/yr (320 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/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 ft³/s (0.26 m³/s) Sept. 24, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 23.6 (7.19 m) Mar. 25, 1913 at site 250 ft (76 m) downstream and at present datum, based on determination of National Weather Service at site then in use, discharge, 28,000 ft³/s (793 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,700 ft³/s (76.5 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 2 | 0400 | 3570 101 | 9.83 2.996 | July 29 | 2200 | 5080 144 | 10.53 3.210 |
| Feb. 24 | 2000 | *8630 244 | *12.42 3.786 | Aug. 2 | 2400 | 6570 186 | 11.42 3.481 |
| Mar. 5 | 0800 | 6970 197 | 11.64 3.548 | Aug. 22 | 2300 | 7080 200 | 11.70 3.566 |
| July 27 | 1600 | 4040 114 | 9.83 2.996 | | | | |

Minimum daily discharge, 95 ft³/s (2.69 m³/s) Oct. 9, 10.

NOTE.--No gage-height record Mar. 21 to Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| 1 | 97 | 129 | 149 | 2600 | 183 | 980 | 400 | 302 | 235 | 282 | 2690 | 533 |
| 2 | 107 | 128 | 146 | 3300 | 178 | 1880 | 455 | 285 | 220 | 211 | 5380 | 437 |
| 3 | 105 | 125 | 400 | 1880 | 172 | 2920 | 480 | 330 | 207 | 177 | 5640 | 397 |
| 4 | 103 | 127 | 1260 | 1150 | 170 | 5040 | 435 | 314 | 195 | 212 | 2750 | 542 |
| 5 | 101 | 128 | 1120 | 830 | 164 | 6490 | 425 | 300 | 222 | 202 | 1250 | 449 |
| 6 | 113 | 130 | 649 | 575 | 162 | 3620 | 410 | 286 | 1830 | 175 | 903 | 386 |
| 7 | 101 | 141 | 458 | 425 | 159 | 1840 | 395 | 276 | 1740 | 156 | 758 | 298 |
| 8 | 98 | 139 | 585 | 335 | 157 | 1400 | 510 | 270 | 1290 | 148 | 600 | 261 |
| 9 | 95 | 137 | 1270 | 300 | 154 | 1140 | 560 | 258 | 806 | 183 | 495 | 245 |
| 10 | 95 | 129 | 862 | 285 | 150 | 998 | 540 | 249 | 757 | 274 | 437 | 239 |
| 11 | 107 | 129 | 507 | 280 | 150 | 843 | 800 | 252 | 526 | 191 | 551 | 223 |
| 12 | 143 | 125 | 375 | 280 | 150 | 647 | 2200 | 262 | 428 | 183 | 546 | 214 |
| 13 | 251 | 125 | 319 | 305 | 152 | 550 | 2100 | 293 | 360 | 463 | 386 | 214 |
| 14 | 360 | 195 | 280 | 340 | 154 | 543 | 2500 | 265 | 313 | 1170 | 323 | 268 |
| 15 | 261 | 182 | 253 | 295 | 168 | 530 | 1500 | 261 | 270 | 1890 | 281 | 348 |
| 16 | 235 | 165 | 235 | 268 | 160 | 465 | 1000 | 240 | 245 | 1500 | 265 | 291 |
| 17 | 189 | 324 | 221 | 260 | 153 | 420 | 760 | 222 | 225 | 482 | 252 | 258 |
| 18 | 159 | 763 | 208 | 255 | 150 | 396 | 620 | 207 | 213 | 321 | 252 | 227 |
| 19 | 150 | 548 | 201 | 253 | 148 | 385 | 520 | 204 | 249 | 252 | 348 | 217 |
| 20 | 135 | 353 | 201 | 280 | 150 | 378 | 450 | 216 | 283 | 214 | 868 | 217 |
| 21 | 126 | 263 | 324 | 350 | 160 | 355 | 395 | 201 | 281 | 191 | 3550 | 217 |
| 22 | 117 | 217 | 374 | 500 | 567 | 330 | 360 | 188 | 261 | 177 | 5870 | 208 |
| 23 | 109 | 211 | 290 | 400 | 3230 | 335 | 335 | 184 | 209 | 165 | 4530 | 200 |
| 24 | 108 | 199 | 254 | 325 | 7570 | 343 | 325 | 199 | 185 | 230 | 1670 | 188 |
| 25 | 114 | 182 | 241 | 275 | 5570 | 324 | 315 | 244 | 170 | 551 | 1030 | 177 |
| 26 | 168 | 168 | 218 | 245 | 2020 | 297 | 305 | 294 | 161 | 2970 | 742 | 174 |
| 27 | 151 | 170 | 189 | 225 | 1320 | 272 | 318 | 404 | 154 | 3870 | 829 | 168 |
| 28 | 149 | 168 | 184 | 215 | 1140 | 257 | 347 | 438 | 151 | 2910 | 1070 | 163 |
| 29 | 141 | 159 | 183 | 205 | --- | 273 | 329 | 349 | 158 | 4310 | 1650 | 160 |
| 30 | 136 | 154 | 188 | 194 | --- | 295 | 324 | 275 | 217 | 4950 | 1300 | 160 |
| 31 | 132 | --- | 361 | 188 | --- | 348 | --- | 245 | --- | 2810 | 747 | --- |
| TOTAL | 4456 | 6113 | 12505 | 17618 | 24761 | 34894 | 20413 | 8313 | 12561 | 31820 | 47963 | 8079 |
| MEAN | 144 | 204 | 403 | 568 | 884 | 1126 | 680 | 268 | 419 | 1026 | 1547 | 269 |
| MAX | 360 | 763 | 1270 | 3300 | 7570 | 6490 | 2500 | 438 | 1830 | 4950 | 5870 | 542 |
| MIN | 95 | 125 | 146 | 188 | 148 | 257 | 305 | 184 | 151 | 148 | 252 | 160 |
| CFSM | .36 | .50 | .99 | 1.40 | 2.18 | 2.77 | 1.68 | .66 | 1.03 | 2.53 | 3.81 | .66 |
| IN. | .41 | .56 | 1.15 | 1.61 | 2.27 | 3.20 | 1.87 | .76 | 1.15 | 2.92 | 4.39 | .74 |

CAL YR 1978 TOTAL 159835 MEAN 438 MAX 5910 MIN 65 CFSM 1.08 IN 14.64
WTR YR 1979 TOTAL 229496 MEAN 629 MAX 7570 MIN 95 CFSM 1.55 IN 21.03

WABASH RIVER BASIN

03348020 KILLBUCK CREEK NEAR GASTON, IN

LOCATION.--Lat 40°15'45", long 85°30'53", in SE¼SW¼ sec.16, T.21 N., R.9 E., Delaware County, Hydrologic Unit 05120201, on right bank 30 ft (9 m) upstream from bridge on County Road 500 North, 15 ft (5 m) east of County Road 675 West, 3.6 miles (5.8 km) southwest of Gaston, and at mile 15.6 (25.1 km).

DRAINAGE AREA.--25.5 mi² (66.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 873.00 ft (266.090 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 24.2 ft³/s (0.685 m³/s), 12.89 in/yr (327 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 412 ft³/s (11.7 m³/s) Mar. 16, 1978, gage height, 11.07 ft (3.374 m); maximum gage height, 11.14 ft (3.395 m) Apr. 20, 1972; minimum daily discharge, 0.76 ft³/s (0.022 m³/s) Jan. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft³/s (7.08 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 1600 | *387 11.0 | *11.02 3.359 | Aug. 20 | 2400 | 268 7.59 | 9.16 2.792 |
| Mar. 4 | 2000 | 315 8.92 | 10.29 3.136 | | | | |

Minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|------|------|------|-------|-------|------|-------|
| 1 | 2.9 | 4.7 | 5.6 | 171 | 6.8 | 54 | 19 | 17 | 15 | 9.3 | 35 | 20 |
| 2 | 2.9 | 4.9 | 5.5 | 157 | 6.7 | 117 | 20 | 16 | 13 | 8.3 | 175 | 18 |
| 3 | 2.8 | 5.1 | 46 | 69 | 6.4 | 194 | 19 | 19 | 13 | 7.8 | 87 | 16 |
| 4 | 2.8 | 4.9 | 98 | 39 | 6.2 | 299 | 18 | 20 | 12 | 8.2 | 56 | 19 |
| 5 | 2.9 | 4.9 | 49 | 20 | 6.0 | 275 | 19 | 18 | 14 | 8.0 | 35 | 16 |
| 6 | 2.9 | 5.1 | 33 | 17 | 5.9 | 130 | 18 | 17 | 65 | 7.4 | 28 | 14 |
| 7 | 3.2 | 5.1 | 28 | 15 | 5.8 | 91 | 16 | 16 | 82 | 7.1 | 23 | 13 |
| 8 | 2.9 | 5.4 | 48 | 14 | 5.6 | 76 | 16 | 15 | 147 | 7.0 | 19 | 12 |
| 9 | 2.7 | 5.2 | 56 | 13 | 5.4 | 65 | 39 | 15 | 85 | 22 | 16 | 11 |
| 10 | 2.6 | 5.0 | 33 | 13 | 5.3 | 65 | 40 | 14 | 55 | 37 | 15 | 9.9 |
| 11 | 2.7 | 5.0 | 23 | 12 | 5.2 | 48 | 50 | 14 | 42 | 20 | 18 | 9.0 |
| 12 | 3.1 | 4.8 | 19 | 12 | 5.0 | 37 | 129 | 15 | 32 | 15 | 17 | 8.4 |
| 13 | 4.1 | 4.8 | 16 | 12 | 4.9 | 37 | 88 | 16 | 27 | 39 | 14 | 7.9 |
| 14 | 5.8 | 7.2 | 14 | 12 | 4.8 | 41 | 109 | 14 | 25 | 34 | 12 | 8.3 |
| 15 | 4.5 | 8.9 | 13 | 11 | 4.7 | 36 | 71 | 14 | 22 | 22 | 12 | 8.0 |
| 16 | 4.6 | 6.6 | 12 | 11 | 4.7 | 32 | 51 | 14 | 20 | 17 | 11 | 7.0 |
| 17 | 4.2 | 20 | 11 | 10 | 4.7 | 31 | 40 | 13 | 18 | 14 | 10 | 6.6 |
| 18 | 4.1 | 46 | 10 | 9.6 | 4.7 | 30 | 34 | 13 | 16 | 12 | 10 | 6.2 |
| 19 | 4.3 | 20 | 9.2 | 9.6 | 4.8 | 29 | 30 | 12 | 15 | 11 | 12 | 5.9 |
| 20 | 4.5 | 12 | 10 | 10 | 4.9 | 27 | 26 | 12 | 15 | 9.5 | 80 | 5.7 |
| 21 | 4.4 | 9.2 | 11 | 14 | 6.2 | 25 | 24 | 11 | 14 | 8.6 | 209 | 5.3 |
| 22 | 4.3 | 7.7 | 11 | 11 | 29 | 23 | 22 | 11 | 13 | 8.2 | 107 | 5.2 |
| 23 | 4.6 | 7.5 | 9.8 | 10 | 224 | 24 | 21 | 11 | 12 | 7.5 | 60 | 5.1 |
| 24 | 4.8 | 8.8 | 9.4 | 9.6 | 359 | 24 | 20 | 11 | 11 | 7.8 | 44 | 4.8 |
| 25 | 5.3 | 7.5 | 8.6 | 9.0 | 227 | 21 | 20 | 15 | 10 | 12 | 32 | 4.6 |
| 26 | 6.6 | 6.7 | 8.0 | 8.6 | 104 | 18 | 19 | 25 | 9.7 | 23 | 26 | 4.2 |
| 27 | 8.8 | 6.5 | 7.5 | 8.5 | 68 | 16 | 18 | 25 | 9.3 | 25 | 25 | 4.1 |
| 28 | 6.7 | 6.5 | 6.9 | 8.2 | 49 | 15 | 20 | 26 | 9.0 | 30 | 24 | 4.1 |
| 29 | 5.9 | 6.1 | 6.8 | 7.8 | --- | 16 | 19 | 20 | 8.9 | 41 | 39 | 4.1 |
| 30 | 5.3 | 6.0 | 8.4 | 7.4 | --- | 16 | 18 | 17 | 9.8 | 25 | 29 | 4.3 |
| 31 | 5.0 | --- | 25 | 7.2 | --- | 17 | --- | 15 | --- | 19 | 23 | --- |
| TOTAL | 132.2 | 258.1 | 651.7 | 738.5 | 1174.7 | 1929 | 1053 | 491 | 839.7 | 522.7 | 1303 | 267.7 |
| MEAN | 4.26 | 8.60 | 21.0 | 23.8 | 42.0 | 62.2 | 35.1 | 15.8 | 28.0 | 16.9 | 42.0 | 8.92 |
| MAX | 8.8 | 46 | 98 | 171 | 359 | 299 | 129 | 26 | 147 | 41 | 209 | 20 |
| MIN | 2.6 | 4.7 | 5.5 | 7.2 | 4.7 | 15 | 16 | 11 | 8.9 | 7.0 | 10 | 4.1 |
| CFSM | .17 | .34 | .82 | .93 | 1.65 | 2.44 | 1.38 | .62 | 1.10 | .66 | 1.65 | .35 |
| IN. | .19 | .38 | .95 | 1.08 | 1.71 | 2.81 | 1.54 | .72 | 1.22 | .76 | 1.90 | .39 |
| CAL YR 1978 | TOTAL | 9533.9 | MEAN | 26.1 | MAX | 377 | MIN | 2.6 | CFSM | 1.02 | IN | 13.91 |
| WTR YR 1979 | TOTAL | 9361.3 | MEAN | 25.6 | MAX | 359 | MIN | 2.6 | CFSM | 1.00 | IN | 13.66 |

03348020 KILLBUCK CREEK NEAR GASTON, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 11... | 1305 | 14.0 | 2.6 | 28 | .20 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 15... | 1445 | 8.0 | 8.8 | 49 | 1.1 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 20... | 1205 | 4.5 | 9.9 | 42 | 1.1 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | 1150 | .5 | 6.7 | 60 | 1.0 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 22... | 1150 | 12.0 | 22 | 44 | 2.6 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 24... | 1430 | 16.0 | 20 | 55 | 2.9 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 07... | 1145 | 18.0 | 45 | 89 | 11 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 26... | 1300 | -- | 24 | 186 | 12 | 94 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 02... | 1445 | -- | 171 | 98 | 45 | 95 | 97 | 98 | 99 | 99 | 100 |
| 28... | 1520 | 18.0 | 23 | 22 | 1.4 | -- | -- | -- | -- | -- | -- |

03348350 PIPE CREEK AT FRANKTON, IN

LOCATION.--Lat 40°13'38", long 85°45'58", in SE¼NE¼ sec.31, T.21 N., R.7 E., Madison County, Hydrologic Unit 05120201, on right bank 20 ft (6 m) downstream from bridge on County Road 500 West, at northeast edge of Frankton.

DRAINAGE AREA.--113 mi² (293 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft (246.888 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 105 ft³/s (2.974 m³/s), 12.62 in/yr (320 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,370 ft³/s (67.1 m³/s) July 12, 1976, gage height, 11.30 ft (3.444 m); minimum daily, 4.2 ft³/s (0.119 m³/s) Oct. 6, 7, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 10, 1958, reached a stage of 15.5 ft (4.72 m), from floodmark determined by State of Indiana, Department of Natural Resources.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 24 | ---- | 1700 | 48.1 | a*11.65 | 3.551 | Apr. 14 | 1200 | 750 | 21.2 | 7.91 | 2.411 |
| Mar. 4 | 1400 | *2020 | 57.2 | 10.61 | 3.234 | Aug. 21 | 1700 | 1600 | 45.3 | 9.96 | 3.036 |
| Apr. 12 | 1900 | 752 | 21.3 | 7.92 | 2.414 | | | | | | |

Minimum daily discharge, 7.3 ft³/s (0.21 m³/s) Oct. 10.

^aIce jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|----------|----------|------|------|------|------|------|
| 1 | 11 | 11 | 23 | 489 | 23 | 280 | 85 | 48 | 27 | 35 | 187 | 54 |
| 2 | 11 | 11 | 23 | 525 | 22 | 500 | 90 | 46 | 25 | 25 | 536 | 46 |
| 3 | 11 | 11 | 153 | 279 | 22 | 808 | 82 | 52 | 24 | 21 | 300 | 42 |
| 4 | 11 | 11 | 310 | 150 | 21 | 1820 | 77 | 50 | 23 | 39 | 162 | 88 |
| 5 | 9.8 | 11 | 168 | 80 | 20 | 1380 | 85 | 46 | 48 | 29 | 108 | 52 |
| 6 | 11 | 11 | 96 | 67 | 20 | 697 | 80 | 45 | 503 | 23 | 75 | 41 |
| 7 | 9.1 | 12 | 81 | 62 | 20 | 499 | 67 | 43 | 347 | 20 | 59 | 35 |
| 8 | 8.4 | 12 | 165 | 60 | 19 | 403 | 67 | 42 | 464 | 19 | 47 | 31 |
| 9 | 7.9 | 12 | 211 | 56 | 19 | 349 | 126 | 40 | 294 | 19 | 39 | 29 |
| 10 | 7.3 | 12 | 119 | 54 | 19 | 358 | 134 | 38 | 178 | 26 | 36 | 27 |
| 11 | 7.7 | 11 | 78 | 54 | 19 | 262 | 179 | 40 | 107 | 24 | 92 | 26 |
| 12 | 9.4 | 11 | 64 | 54 | 19 | 175 | 611 | 44 | 74 | 20 | 57 | 25 |
| 13 | 16 | 11 | 58 | 55 | 19 | 157 | 556 | 47 | 61 | 151 | 41 | 24 |
| 14 | 12 | 43 | 50 | 56 | 18 | 184 | 658 | 40 | 55 | 252 | 35 | 26 |
| 15 | 11 | 38 | 44 | 52 | 18 | 162 | 471 | 41 | 45 | 108 | 31 | 24 |
| 16 | 9.9 | 28 | 41 | 51 | 18 | 132 | 295 | 36 | 39 | 67 | 28 | 22 |
| 17 | 9.8 | 75 | 38 | 50 | 18 | 119 | 204 | 32 | 35 | 47 | 27 | 21 |
| 18 | 9.9 | 123 | 35 | 49 | 18 | 116 | 151 | 30 | 31 | 36 | 28 | 21 |
| 19 | 10 | 72 | 34 | 50 | 18 | 114 | 120 | 29 | 32 | 30 | 276 | 20 |
| 20 | 9.6 | 49 | 35 | 53 | 20 | 107 | 102 | 30 | 30 | 27 | 440 | 20 |
| 21 | 9.1 | 38 | 38 | 60 | 26 | 99 | 89 | 28 | 30 | 24 | 1360 | 20 |
| 22 | 8.6 | 33 | 34 | 53 | 80 | 89 | 78 | 26 | 26 | 23 | 783 | 20 |
| 23 | 8.8 | 33 | 31 | 47 | 500 | 93 | 70 | 25 | 24 | 22 | 325 | 19 |
| 24 | 9.1 | 34 | 30 | 43 | 1500 | 99 | 67 | 28 | 22 | 38 | 290 | 19 |
| 25 | 9.8 | 30 | 28 | 40 | 1000 | 84 | 66 | 31 | 20 | 154 | 202 | 19 |
| 26 | 14 | 28 | 26 | 37 | 600 | 68 | 64 | 32 | 19 | 196 | 131 | 19 |
| 27 | 13 | 28 | 25 | 34 | 370 | 60 | 59 | 42 | 19 | 103 | 108 | 18 |
| 28 | 12 | 28 | 24 | 32 | 250 | 57 | 60 | 37 | 19 | 86 | 93 | 19 |
| 29 | 12 | 26 | 23 | 29 | --- | 67 | 55 | 31 | 21 | 103 | 100 | 19 |
| 30 | 11 | 25 | 22 | 27 | --- | 73 | 52 | 28 | 65 | 69 | 87 | 18 |
| 31 | 11 | --- | 74 | 25 | --- | 82 | --- | 28 | --- | 59 | 66 | --- |
| TOTAL | 321.2 | 878 | 2181 | 2773 | 4716 | 9493 | 4900 | 1155 | 2707 | 1895 | 6149 | 864 |
| MEAN | 10.4 | 29.3 | 70.4 | 89.5 | 168 | 306 | 163 | 37.3 | 90.2 | 61.1 | 198 | 28.8 |
| MAX | 16 | 123 | 310 | 525 | 1500 | 1820 | 658 | 52 | 503 | 252 | 1360 | 88 |
| MIN | 7.3 | 11 | 22 | 25 | 18 | 57 | 52 | 25 | 19 | 19 | 27 | 18 |
| CFSM | .09 | .26 | .62 | .79 | 1.49 | 2.71 | 1.44 | .33 | .80 | .54 | 1.75 | .26 |
| IN. | .11 | .29 | .72 | .91 | 1.55 | 3.13 | 1.61 | .38 | .89 | .62 | 2.02 | .28 |
| CAL YR 1978 | TOTAL | 36650.2 | MEAN 100 | MAX 1740 | MIN 7.3 | CFSM .89 | IN 12.07 | | | | | |
| WTR YR 1979 | TOTAL | 38032.2 | MEAN 104 | MAX 1820 | MIN 7.3 | CFSM .92 | IN 12.52 | | | | | |

03349000 WHITE RIVER AT NOBLESVILLE, IN

LOCATION.--Lat 40°02'50", long 86°01'00", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.19 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, on right bank at downstream side of Logan Street bridge in Noblesville, 1.5 miles (2.4 km) upstream from Cicero Creek, 5.1 miles (8.2 km) downstream from dam at Clare, and at mile 263.5 (424.0 km).

DRAINAGE AREA.--858 mi² (2,222 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and after June 1951, and at site 400 ft (122 m) downstream January 1936 to May 1951, are contained in reports of National Weather Service. Prior to October 1948, published as West Fork White River at Noblesville.

REVISED RECORDS.--WSP 1335: 1949. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 738.16 ft (224.991 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--33 years, 832 ft³/s (23.56 m³/s), 13.17 in/yr (334 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft³/s (759 m³/s) Apr. 22, 1964, gage height, 21.31 ft (6.495 m); minimum daily, 44 ft³/s (1.25 m³/s) Sept. 28, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6,000 ft³/s (170 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Feb. 24 | 2200 | *9800 278 | *15.44 4.706 | Aug. 3 | 1600 | 6780 192 | 12.82 3.908 |
| Mar. 5 | 1000 | 9750 276 | 15.40 4.694 | | | | |

Minimum daily discharge, 167 ft³/s (4.73 m³/s) Oct. 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: November 1952 to September 1976.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 171 | 206 | 289 | 3080 | 320 | 1800 | 985 | 595 | 370 | 425 | 3530 | 1130 |
| 2 | 189 | 201 | 275 | 5130 | 281 | 3160 | 1020 | 540 | 340 | 407 | 5820 | 957 |
| 3 | 207 | 198 | 564 | 4020 | 280 | 5040 | 1040 | 580 | 330 | 320 | 6690 | 859 |
| 4 | 205 | 198 | 2150 | 2080 | 280 | 8070 | 996 | 620 | 310 | 416 | 5560 | 953 |
| 5 | 200 | 195 | 2400 | 1380 | 250 | 9610 | 990 | 570 | 290 | 497 | 2640 | 844 |
| 6 | 200 | 193 | 1410 | 1040 | 240 | 8160 | 970 | 525 | 1400 | 363 | 1850 | 675 |
| 7 | 192 | 198 | 921 | 840 | 250 | 4830 | 917 | 500 | 2940 | 296 | 1530 | 590 |
| 8 | 175 | 209 | 1120 | 620 | 245 | 3420 | 879 | 480 | 2950 | 263 | 1300 | 484 |
| 9 | 167 | 203 | 1940 | 520 | 235 | 2830 | 1450 | 470 | 2370 | 267 | 1100 | 434 |
| 10 | 168 | 198 | 1870 | 485 | 230 | 2620 | 1690 | 445 | 1650 | 474 | 964 | 409 |
| 11 | 183 | 195 | 1090 | 495 | 225 | 2210 | 1680 | 425 | 1230 | 432 | 968 | 395 |
| 12 | 213 | 190 | 762 | 520 | 220 | 1680 | 4000 | 470 | 927 | 337 | 1160 | 374 |
| 13 | 295 | 188 | 631 | 543 | 215 | 1410 | 4930 | 520 | 752 | 1640 | 923 | 359 |
| 14 | 433 | 366 | 549 | 629 | 215 | 1410 | 4310 | 485 | 667 | 3110 | 778 | 362 |
| 15 | 470 | 499 | 495 | 525 | 235 | 1390 | 4250 | 510 | 585 | 2920 | 683 | 435 |
| 16 | 364 | 380 | 448 | 429 | 230 | 1210 | 2910 | 470 | 511 | 2630 | 619 | 470 |
| 17 | 343 | 574 | 414 | 492 | 210 | 1110 | 2010 | 410 | 457 | 1280 | 581 | 399 |
| 18 | 284 | 1330 | 380 | 456 | 190 | 1050 | 1560 | 380 | 427 | 733 | 570 | 369 |
| 19 | 257 | 1280 | 369 | 440 | 200 | 1030 | 1290 | 370 | 401 | 542 | 792 | 341 |
| 20 | 241 | 790 | 366 | 434 | 220 | 1010 | 1110 | 385 | 497 | 438 | 1720 | 323 |
| 21 | 225 | 574 | 395 | 512 | 319 | 955 | 985 | 390 | 499 | 380 | 3650 | 310 |
| 22 | 210 | 466 | 504 | 793 | 555 | 897 | 882 | 350 | 477 | 343 | 5510 | 303 |
| 23 | 193 | 429 | 471 | 773 | 3150 | 973 | 803 | 330 | 406 | 311 | 5900 | 293 |
| 24 | 183 | 429 | 410 | 633 | 8180 | 1110 | 758 | 340 | 347 | 348 | 3440 | 283 |
| 25 | 185 | 388 | 388 | 546 | 9340 | 995 | 730 | 350 | 311 | 1230 | 2090 | 280 |
| 26 | 223 | 355 | 358 | 439 | 5990 | 844 | 715 | 370 | 293 | 4480 | 1570 | 276 |
| 27 | 264 | 337 | 326 | 415 | 2750 | 738 | 687 | 470 | 276 | 4540 | 1380 | 268 |
| 28 | 244 | 337 | 279 | 390 | 2150 | 697 | 693 | 560 | 265 | 4500 | 1550 | 265 |
| 29 | 231 | 319 | 282 | 370 | --- | 762 | 671 | 540 | 268 | 5110 | 1710 | 264 |
| 30 | 217 | 302 | 299 | 350 | --- | 811 | 636 | 450 | 324 | 5200 | 2150 | 259 |
| 31 | 211 | --- | 448 | 330 | --- | 910 | --- | 400 | --- | 4550 | 1470 | --- |
| TOTAL | 7343 | 11727 | 22603 | 29709 | 37205 | 72742 | 46547 | 14300 | 22870 | 48782 | 70198 | 13963 |
| MEAN | 237 | 391 | 729 | 958 | 1329 | 2347 | 1552 | 461 | 762 | 1574 | 2264 | 465 |
| MAX | 470 | 1330 | 2400 | 5130 | 9340 | 9610 | 4930 | 620 | 2950 | 5200 | 6690 | 1130 |
| MIN | 167 | 188 | 275 | 330 | 190 | 697 | 636 | 330 | 265 | 263 | 570 | 259 |
| CFSM | .28 | .46 | .85 | 1.12 | 1.55 | 2.74 | 1.81 | .54 | .89 | 1.83 | 2.64 | .54 |
| IN. | .32 | .51 | .98 | 1.29 | 1.61 | 3.15 | 2.02 | .62 | .99 | 2.12 | 3.04 | .61 |

| | | | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1978 | TOTAL | 334953 | MEAN | 918 | MAX | 10300 | MIN | 167 | CFSM | 1.07 | IN | 14.52 |
| WTR YR 1979 | TOTAL | 397989 | MEAN | 1090 | MAX | 9610 | MIN | 167 | CFSM | 1.27 | IN | 17.26 |

03350300 MORSE RESERVOIR NEAR NOBLESVILLE, IN

LOCATION.--Lat 40°04'21", long 86°02'47", in SE4SW4 sec.23, T.19 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, in intake structure of reservoir on Cicero Creek, 2.5 miles (4.0 km) northwest of courthouse in Noblesville, and 4.8 miles (7.7 km) above mouth.

DRAINAGE AREA.--214 mi² (554 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 760.00 ft (231.648 m) National Geodetic Vertical Datum of 1929.

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 hm³). Reservoir is used for water supply for Indianapolis and recreation. Reservoir put in operation on Dec. 9, 1955, and was filled for the first time on Feb. 3, 1957.

COOPERATION.--Records furnished by Indianapolis Water Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 25,310 acre-ft (31.2 hm³) June 28, 1957, elevation, 812.95 ft (247.787 m); minimum, 14,120 acre-ft (17.4 hm³) Jan. 5, 1964, elevation, 804.26 ft (245.138 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,110 acre-ft (28.5 hm³) Mar. 4, elevation, 811.40 ft (247.315 m); minimum, 21,050 acre-ft (26.0 hm³) Oct. 10, elevation, 809.90 ft (246.858 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 809.90 | 21,050 | |
| Oct. 31..... | 810.00 | 21,180 | +130 |
| Nov. 30..... | 810.13 | 21,350 | +170 |
| Dec. 31..... | 810.13 | 21,350 | 0 |
| CAL YR 1978..... | | | -70 |
| Jan. 31..... | 810.09 | 21,300 | -50 |
| Feb. 28..... | 810.44 | 21,790 | +490 |
| Mar. 31..... | 810.38 | 21,700 | -90 |
| Apr. 30..... | 810.16 | 21,390 | -310 |
| May 31..... | 810.10 | 21,310 | -80 |
| June 30..... | 810.05 | 21,240 | -70 |
| July 31..... | 810.40 | 21,730 | +490 |
| Aug. 31..... | 810.11 | 21,320 | -410 |
| Sept. 30..... | 809.91 | 21,060 | -260 |
| WTR YR 1979..... | | | +10 |

03350500 CICERO CREEK AT NOBLESVILLE, IN

LOCATION.--Lat 40°03'20", long 86°02'30", in NW¼NE¼ sec.35, T.19 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, on right bank 150 ft (46 m) downstream from bridge on State Highway 38, 1.0 mile (1.6 m) northwest of Noblesville, 1.9 miles (3.1 km) downstream from Hinkle Creek, and 3.2 miles (5.1 km) upstream from mouth.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 750.00 ft (228.600 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records good. Flow regulated by Morse Reservoir (See sta 03350300).

AVERAGE DISCHARGE.--29 years, 194 ft³/s (5.494 m³/s), 12.20 in/yr (310 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,800 ft³/s (278 m³/s) June 28, 1957, gage height, 15.26 ft (4.651 m); minimum daily, 0.25 ft³/s (0.007 m³/s) Oct. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,750 ft³/s (106 m³/s) Mar. 4, gage height, 12.88 ft (3.926 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|-----------|----------|------|-------|---------|------|-------|
| 1 | 4.0 | 13 | 82 | 899 | 42 | 443 | 357 | 87 | 25 | 26 | 532 | 61 |
| 2 | 1.7 | 6.0 | 150 | 839 | 45 | 1040 | 344 | 83 | 26 | 10 | 1310 | 47 |
| 3 | 1.6 | 8.5 | 290 | 415 | 38 | 1680 | 323 | 123 | 31 | 7.6 | 858 | 51 |
| 4 | 2.0 | 13 | 600 | 288 | 35 | 3510 | 291 | 106 | 19 | 134 | 515 | 36 |
| 5 | 4.8 | 11 | 680 | 228 | 45 | 3160 | 297 | 79 | 17 | 316 | 340 | 36 |
| 6 | 6.3 | 40 | 500 | 184 | 35 | 1670 | 305 | 80 | 34 | 223 | 240 | 34 |
| 7 | 7.8 | 22 | 290 | 166 | 31 | 1070 | 241 | 71 | 67 | 133 | 184 | 36 |
| 8 | 4.2 | 2.0 | 430 | 144 | 39 | 849 | 240 | 77 | 84 | 84 | 156 | 29 |
| 9 | 1.8 | 1.5 | 540 | 128 | 34 | 720 | 519 | 78 | 92 | 69 | 118 | 14 |
| 10 | 1.4 | 2.0 | 470 | 115 | 31 | 765 | 517 | 76 | 79 | 62 | 103 | 6.4 |
| 11 | 2.0 | 3.8 | 300 | 99 | 30 | 599 | 532 | 80 | 55 | 49 | 105 | 9.8 |
| 12 | 6.0 | 12 | 212 | 77 | 32 | 429 | 1250 | 105 | 28 | 40 | 70 | 12 |
| 13 | 28 | 4.2 | 194 | 82 | 35 | 354 | 1140 | 91 | 24 | 1480 | 44 | 18 |
| 14 | 38 | 156 | 136 | 96 | 29 | 392 | 744 | 72 | 24 | 2810 | 49 | 44 |
| 15 | 16 | 256 | 128 | 106 | 31 | 373 | 551 | 91 | 22 | 1640 | 42 | 12 |
| 16 | 30 | 175 | 129 | 58 | 31 | 301 | 407 | 67 | 24 | 817 | 27 | 14 |
| 17 | 7.8 | 276 | 108 | 57 | 34 | 257 | 312 | 57 | 29 | 490 | 24 | 4.2 |
| 18 | 4.9 | 608 | 89 | 59 | 31 | 241 | 248 | 54 | 14 | 318 | 42 | 7.6 |
| 19 | 13 | 416 | 92 | 59 | 31 | 251 | 209 | 58 | 8.9 | 225 | 77 | 8.9 |
| 20 | 5.7 | 268 | 102 | 58 | 28 | 253 | 186 | 73 | 7.6 | 168 | 263 | 4.0 |
| 21 | 11 | 189 | 102 | 83 | 41 | 234 | 175 | 64 | 15 | 131 | 364 | 9.4 |
| 22 | 11 | 148 | 93 | 70 | 113 | 250 | 153 | 38 | 17 | 107 | 247 | 21 |
| 23 | 28 | 147 | 92 | 62 | 938 | 270 | 135 | 41 | 21 | 77 | 170 | 8.4 |
| 24 | 3.5 | 140 | 92 | 104 | 2540 | 310 | 129 | 62 | 16 | 109 | 140 | 3.2 |
| 25 | 3.3 | 114 | 86 | 76 | 2040 | 300 | 133 | 46 | 4.0 | 622 | 132 | 2.8 |
| 26 | 23 | 106 | 79 | 58 | 1010 | 290 | 143 | 23 | 4.0 | 2150 | 115 | 3.0 |
| 27 | 6.6 | 108 | 57 | 58 | 600 | 275 | 116 | 49 | 3.5 | 794 | 94 | 3.0 |
| 28 | 19 | 94 | 51 | 66 | 468 | 245 | 133 | 57 | 3.0 | 770 | 91 | 3.2 |
| 29 | 9.2 | 90 | 54 | 51 | --- | 284 | 108 | 27 | 2.6 | 1190 | 96 | 6.1 |
| 30 | 4.1 | 86 | 63 | 45 | --- | 346 | 113 | 23 | 28 | 616 | 89 | 9.4 |
| 31 | 6.8 | --- | 154 | 45 | --- | 390 | --- | 22 | --- | 381 | 70 | --- |
| TOTAL | 312.5 | 3516.0 | 6445 | 4875 | 8437 | 21551 | 10351 | 2060 | 824.6 | 16048.6 | 6707 | 554.4 |
| MEAN | 10.1 | 117 | 208 | 157 | 301 | 695 | 345 | 66.5 | 27.5 | 518 | 216 | 18.5 |
| MAX | 38 | 608 | 680 | 899 | 2540 | 3510 | 1250 | 123 | 92 | 2810 | 1310 | 61 |
| MIN | 1.4 | 1.5 | 51 | 45 | 28 | 234 | 108 | 22 | 2.6 | 7.6 | 24 | 2.8 |
| CFSM | .05 | .54 | .96 | .73 | 1.39 | 3.22 | 1.60 | .31 | .13 | 2.40 | 1.00 | .09 |
| IN. | .05 | .61 | 1.11 | .84 | 1.45 | 3.71 | 1.78 | .35 | .14 | 2.76 | 1.16 | .10 |
| CAL YR 1978 | TOTAL | 83156.8 | MEAN 228 | MAX 3280 | MIN 1.4 | CFSM 1.06 | IN 14.32 | | | | | |
| WTR YR 1979 | TOTAL | 81682.1 | MEAN 224 | MAX 3510 | MIN 1.4 | CFSM 1.04 | IN 14.07 | | | | | |

03350700 STONY CREEK NEAR NOBLESVILLE, IN

LOCATION.--Lat 40°01'44", long 85°59'42", in NE¼NE¼ sec.7, T.18 N., R.5 E., Hamilton County, Hydrologic Unit 05120201, 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 mi² (131.6 km²).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 749.00 ft (228.295 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 48.0 ft³/s (1.359 m³/s), 12.83 in/yr (326 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Feb. 23, 1979, gage height, 7.47 ft (2.277 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Aug. 4, 5, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.496 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0915 | 338 9.57 | 4.18 1.274 | July 13 | 1630 | 388 11.0 | 4.37 1.332 |
| Feb. 23 | 1730 | *1640 46.4 | *7.47 2.277 | July 26 | 1530 | 649 18.4 | 5.27 1.606 |
| Mar. 4 | 1300 | 816 23.1 | 5.79 1.765 | July 29 | 0500 | 1000 28.3 | 6.27 1.911 |
| Apr. 12 | 1130 | 472 13.4 | 4.67 1.423 | Aug. 2 | 1045 | 383 10.8 | 4.35 1.326 |

Minimum daily discharge, 9.7 ft³/s (0.275 m³/s) Nov. 6, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 13 | 11 | 26 | 321 | 19 | 112 | 76 | 32 | 19 | 15 | 254 | 36 |
| 2 | 11 | 11 | 26 | 224 | 20 | 239 | 78 | 32 | 18 | 14 | 345 | 32 |
| 3 | 11 | 11 | 97 | 106 | 18 | 383 | 66 | 35 | 17 | 14 | 214 | 30 |
| 4 | 12 | 11 | 154 | 70 | 19 | 746 | 62 | 33 | 16 | 58 | 138 | 26 |
| 5 | 11 | 10 | 98 | 51 | 18 | 441 | 59 | 32 | 16 | 39 | 102 | 24 |
| 6 | 11 | 9.7 | 69 | 43 | 17 | 219 | 62 | 29 | 20 | 23 | 87 | 24 |
| 7 | 11 | 10 | 60 | 35 | 17 | 175 | 54 | 28 | 44 | 19 | 71 | 21 |
| 8 | 11 | 10 | 107 | 29 | 17 | 149 | 56 | 28 | 108 | 17 | 58 | 19 |
| 9 | 11 | 10 | 128 | 26 | 17 | 128 | 119 | 27 | 73 | 18 | 48 | 18 |
| 10 | 10 | 11 | 83 | 24 | 16 | 123 | 98 | 26 | 56 | 34 | 42 | 18 |
| 11 | 12 | 11 | 60 | 23 | 16 | 99 | 186 | 26 | 41 | 21 | 38 | 18 |
| 12 | 14 | 11 | 50 | 24 | 16 | 82 | 422 | 30 | 33 | 17 | 34 | 17 |
| 13 | 31 | 11 | 46 | 25 | 15 | 80 | 242 | 33 | 28 | 263 | 30 | 17 |
| 14 | 33 | 35 | 40 | 28 | 15 | 83 | 265 | 28 | 26 | 207 | 29 | 17 |
| 15 | 29 | 43 | 37 | 26 | 14 | 73 | 171 | 30 | 23 | 100 | 26 | 16 |
| 16 | 26 | 28 | 34 | 24 | 15 | 64 | 122 | 26 | 21 | 66 | 24 | 15 |
| 17 | 20 | 107 | 31 | 22 | 14 | 59 | 100 | 24 | 20 | 42 | 24 | 15 |
| 18 | 16 | 147 | 28 | 24 | 14 | 56 | 84 | 22 | 20 | 31 | 24 | 14 |
| 19 | 15 | 92 | 29 | 22 | 14 | 56 | 84 | 22 | 19 | 26 | 32 | 13 |
| 20 | 15 | 65 | 30 | 22 | 15 | 52 | 71 | 23 | 21 | 22 | 89 | 13 |
| 21 | 14 | 52 | 38 | 45 | 28 | 49 | 60 | 21 | 21 | 20 | 177 | 12 |
| 22 | 13 | 44 | 33 | 40 | 99 | 46 | 52 | 19 | 18 | 19 | 94 | 12 |
| 23 | 12 | 42 | 30 | 30 | 1080 | 63 | 48 | 19 | 17 | 18 | 76 | 12 |
| 24 | 11 | 42 | 29 | 47 | 789 | 74 | 47 | 20 | 16 | 27 | 72 | 12 |
| 25 | 12 | 37 | 29 | 36 | 229 | 58 | 46 | 20 | 15 | 207 | 56 | 12 |
| 26 | 15 | 35 | 26 | 29 | 158 | 46 | 46 | 19 | 14 | 584 | 46 | 11 |
| 27 | 17 | 35 | 24 | 25 | 107 | 42 | 42 | 27 | 14 | 297 | 49 | 10 |
| 28 | 15 | 32 | 22 | 22 | 82 | 42 | 42 | 29 | 14 | 393 | 46 | 10 |
| 29 | 14 | 29 | 22 | 21 | --- | 54 | 37 | 22 | 14 | 834 | 71 | 10 |
| 30 | 13 | 29 | 23 | 20 | --- | 56 | 34 | 20 | 17 | 334 | 55 | 9.7 |
| 31 | 13 | --- | 86 | 20 | --- | 75 | --- | 18 | --- | 189 | 43 | --- |
| TOTAL | 472 | 1031.7 | 1595 | 1504 | 2898 | 4024 | 2931 | 800 | 799 | 3968 | 2494 | 513.7 |
| MEAN | 15.2 | 34.4 | 51.5 | 48.5 | 104 | 130 | 97.7 | 25.8 | 26.6 | 128 | 80.5 | 17.1 |
| MAX | 33 | 147 | 154 | 321 | 1080 | 746 | 422 | 35 | 108 | 834 | 345 | 36 |
| MIN | 10 | 9.7 | 22 | 20 | 14 | 42 | 34 | 18 | 14 | 14 | 24 | 9.7 |
| CFSM | .30 | .68 | 1.01 | .96 | 2.05 | 2.56 | 1.92 | .51 | .52 | 2.52 | 1.59 | .34 |
| IN. | .35 | .76 | 1.17 | 1.10 | 2.12 | 2.95 | 2.15 | .59 | .59 | 2.91 | 1.83 | .38 |
| CAL YR 1978 | TOTAL | 19695.6 | MEAN | 54.0 | MAX | 794 | MIN | 6.8 | CFSM | 1.06 | IN | 14.42 |
| WTR YR 1979 | TOTAL | 23030.4 | MEAN | 63.1 | MAX | 1080 | MIN | 9.7 | CFSM | 1.24 | IN | 16.86 |

03350700 STONY CREEK NEAR NOBLESVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|-------|------|-----------------------------|---|--|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 23... | 0930 | 13.0 | 55 | 35 | 5.2 | -- | -- | -- | -- | -- | -- |
| 30... | 0810 | -- | 55 | 38 | 5.7 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 01... | 1515 | -- | 74 | 39 | 7.8 | -- | -- | -- | -- | -- | -- |
| 06... | 0850 | -- | 65 | 30 | 5.3 | -- | -- | -- | -- | -- | -- |
| 12... | 0845 | -- | 455 | 544 | 668 | -- | -- | -- | -- | -- | -- |
| 18... | 0655 | 10.0 | 87 | 80 | 18 | -- | -- | -- | -- | -- | -- |
| 27... | 0945 | 11.0 | 41 | 20 | 2.2 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 03... | 1345 | 15.0 | 37 | 50 | 5.0 | -- | -- | -- | -- | -- | -- |
| 15... | 0755 | 15.5 | 30 | 34 | 2.7 | -- | -- | -- | -- | -- | -- |
| 18... | 0855 | 16.0 | 22 | 37 | 2.2 | -- | -- | -- | -- | -- | -- |
| 25... | 0830 | 11.0 | 20 | 36 | 1.9 | -- | -- | -- | -- | -- | -- |
| 31... | 0940 | 19.5 | 18 | 62 | 3.0 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 06... | 0805 | 24.5 | 17 | 40 | 1.8 | -- | -- | -- | -- | -- | -- |
| 15... | 0805 | 19.0 | 23 | 40 | 2.5 | -- | -- | -- | -- | -- | -- |
| 22... | 1000 | 22.0 | 17 | 48 | 2.2 | -- | -- | -- | -- | -- | -- |
| 29... | 1005 | 21.0 | 14 | 44 | 1.6 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 06... | 0800 | 19.5 | 23 | 56 | 3.5 | -- | -- | -- | -- | -- | -- |
| 13... | 0835 | -- | 242 | 448 | 293 | 97 | 99 | 99 | 100 | -- | -- |
| 26... | 1305 | -- | 643 | 222 | 385 | 98 | 99 | 99 | 100 | -- | -- |
| 27... | 1030 | -- | 283 | 82 | 63 | 97 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 02... | 1240 | -- | 375 | 99 | 100 | 65 | 68 | 71 | 79 | 94 | 100 |
| 10... | 1200 | -- | 41 | 86 | 9.5 | 87 | -- | -- | -- | -- | -- |
| 17... | 1005 | -- | 24 | 85 | 5.5 | 80 | -- | -- | -- | -- | -- |
| 24... | 0820 | -- | 73 | 101 | 20 | 83 | 98 | 100 | -- | -- | -- |
| 31... | 0925 | -- | 43 | 80 | 9.3 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 07... | 0810 | -- | 21 | 54 | 3.1 | -- | -- | -- | -- | -- | -- |
| 14... | 0825 | -- | 17 | 43 | 2.0 | -- | -- | -- | -- | -- | -- |
| 22... | 0825 | -- | 12 | 26 | .84 | -- | -- | -- | -- | -- | -- |
| 28... | 0910 | -- | 9.7 | 26 | .68 | -- | -- | -- | -- | -- | -- |

03351000 WHITE RIVER NEAR NORA, IN

LOCATION.--Lat 39°54'35", long 86°06'20", in NW¼NW¼ sec.20, T.17 N., R.4 E., Marion County, Hydrologic Unit 05120201, on downstream side of center pier of bridge on 82nd Street, 2 miles (3 km) east of Nora, 14 miles (23 km) upstream from Fall Creek, and at mile 247.9 (398.9 km).

DRAINAGE AREA.--1,219 mi² (3,157 km²).

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.

REVISED RECORDS.--WSP 1335: 1930-31, 1934(m), 1936, 1941, 1943, 1945, 1947-48. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 710.94 ft (216.695 m) National Geodetic Vertical Datum of 1929 (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.

REMARKS.--Records good except those for winter periods and period of no gage-height record, Jan. 24 to Feb. 24, which are poor. Flow slightly regulated by Morse Reservoir (See sta 03350300).

AVERAGE DISCHARGE.--50 years, 1,091 ft³/s (30.90 m³/s), 12.15 in/yr (309 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s (918 m³/s) May 19, 1943; maximum gage height, 18.65 ft (5.685 m) Apr. 23, 1964; minimum daily discharge, 49 ft³/s (1.39 m³/s) Sept. 17, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 ft³/s (1,660 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,000 ft³/s (198 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 25 | 1200 | 12500 354 | 12.84 3.914 | July 28 | 2300 | 8300 235 | 10.37 3.161 |
| Mar. 5 | 1700 | *14400 408 | *13.85 4.221 | Aug. 3 | 1600 | 7870 223 | 10.07 3.069 |

Minimum daily discharge, 199 ft³/s (5.64 m³/s) Oct. 10.

NOTE.--No gage-height record Jan. 24 to Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1 | 212 | 257 | 459 | 3370 | 450 | 2680 | 1560 | 831 | 524 | 459 | 4310 | 1260 |
| 2 | 212 | 253 | 441 | 5810 | 430 | 4300 | 1570 | 777 | 491 | 507 | 6750 | 998 |
| 3 | 229 | 250 | 825 | 5050 | 395 | 6770 | 1550 | 831 | 464 | 414 | 7790 | 875 |
| 4 | 243 | 246 | 2760 | 3210 | 380 | 11300 | 1440 | 862 | 445 | 707 | 7210 | 837 |
| 5 | 239 | 250 | 3110 | 2210 | 360 | 14100 | 1400 | 789 | 414 | 932 | 3850 | 932 |
| 6 | 239 | 246 | 2230 | 1750 | 340 | 13000 | 1490 | 747 | 667 | 783 | 2420 | 813 |
| 7 | 236 | 282 | 1630 | 1370 | 350 | 7860 | 1270 | 713 | 2940 | 569 | 1980 | 730 |
| 8 | 219 | 261 | 1790 | 1150 | 340 | 4730 | 1190 | 690 | 3010 | 459 | 1690 | 640 |
| 9 | 209 | 253 | 2560 | 1020 | 330 | 3860 | 1980 | 662 | 2700 | 414 | 1360 | 558 |
| 10 | 199 | 246 | 2650 | 860 | 320 | 3560 | 2430 | 634 | 2000 | 529 | 1110 | 513 |
| 11 | 222 | 243 | 1850 | 810 | 310 | 3170 | 2530 | 605 | 1600 | 611 | 1020 | 480 |
| 12 | 268 | 239 | 1340 | 800 | 300 | 2470 | 4890 | 667 | 1300 | 475 | 1170 | 464 |
| 13 | 436 | 243 | 1070 | 840 | 295 | 2060 | 6410 | 713 | 1100 | 2670 | 1030 | 445 |
| 14 | 491 | 485 | 926 | 900 | 290 | 2020 | 5570 | 684 | 920 | 4990 | 831 | 469 |
| 15 | 593 | 958 | 807 | 700 | 315 | 2000 | 5180 | 701 | 780 | 4450 | 730 | 480 |
| 16 | 464 | 765 | 759 | 620 | 295 | 1790 | 3880 | 645 | 660 | 3510 | 645 | 541 |
| 17 | 423 | 1050 | 701 | 690 | 275 | 1580 | 2710 | 575 | 600 | 2370 | 593 | 491 |
| 18 | 364 | 2170 | 629 | 640 | 260 | 1440 | 2160 | 535 | 560 | 1440 | 581 | 441 |
| 19 | 320 | 2140 | 587 | 610 | 280 | 1400 | 1840 | 524 | 540 | 998 | 713 | 414 |
| 20 | 308 | 1510 | 593 | 600 | 320 | 1370 | 1650 | 546 | 581 | 795 | 1530 | 393 |
| 21 | 286 | 1050 | 656 | 700 | 450 | 1280 | 1450 | 541 | 617 | 667 | 3480 | 376 |
| 22 | 271 | 831 | 690 | 831 | 1000 | 1180 | 1280 | 485 | 569 | 587 | 5510 | 376 |
| 23 | 257 | 741 | 730 | 932 | 5000 | 1360 | 1140 | 459 | 529 | 524 | 6350 | 364 |
| 24 | 253 | 747 | 645 | 850 | 10100 | 1890 | 1050 | 470 | 454 | 575 | 4700 | 352 |
| 25 | 236 | 662 | 611 | 770 | 12100 | 1810 | 1020 | 491 | 406 | 1850 | 2520 | 339 |
| 26 | 257 | 605 | 558 | 690 | 8960 | 1420 | 1010 | 524 | 372 | 6070 | 1920 | 336 |
| 27 | 316 | 587 | 496 | 630 | 4370 | 1130 | 978 | 667 | 360 | 5940 | 1630 | 328 |
| 28 | 301 | 575 | 428 | 590 | 3270 | 1000 | 971 | 783 | 344 | 6140 | 1660 | 320 |
| 29 | 289 | 518 | 410 | 550 | --- | 1140 | 939 | 759 | 340 | 7500 | 1830 | 320 |
| 30 | 271 | 496 | 432 | 500 | --- | 1280 | 887 | 640 | 384 | 6430 | 2290 | 316 |
| 31 | 257 | --- | 771 | 470 | --- | 1490 | --- | 558 | --- | 5710 | 1780 | --- |
| TOTAL | 9120 | 19159 | 34144 | 40523 | 51885 | 106440 | 63425 | 20108 | 26671 | 70075 | 80983 | 16201 |
| MEAN | 294 | 639 | 1101 | 1307 | 1853 | 3434 | 2114 | 649 | 889 | 2260 | 2612 | 540 |
| MAX | 593 | 2170 | 3110 | 5810 | 12100 | 14100 | 6410 | 862 | 3010 | 7500 | 7790 | 1260 |
| MIN | 199 | 239 | 410 | 470 | 260 | 1000 | 887 | 459 | 340 | 414 | 581 | 316 |
| CFSM | .24 | .52 | .90 | 1.07 | 1.52 | 2.82 | 1.73 | .53 | .73 | 1.85 | 2.14 | .44 |
| IN. | .28 | .58 | 1.04 | 1.24 | 1.58 | 3.25 | 1.94 | .61 | .81 | 2.14 | 2.47 | .49 |

| CAL YR 1978 | TOTAL | 477170 | MEAN | 1307 | MAX | 14400 | MIN 199 | CFSM 1.07 | IN 14.56 |
|-------------|-------|--------|------|------|-----|-------|---------|-----------|----------|
| WTR YR 1979 | TOTAL | 538734 | MEAN | 1476 | MAX | 14100 | MIN 199 | CFSM 1.21 | IN 16.44 |

03351310 CROOKED CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°49'47", long 86°12'22", in NW¼SE¼ sec.16, T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, on left bank 150 ft (46 m) downstream from 42nd Street bridge in Indianapolis, and at mile 1.6 (2.6 km).

DRAINAGE AREA.--17.9 mi² (46.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 711.00 ft (216.713 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

REMARKS.--Records good except those for winter periods and those below 30 ft³/s (0.85 m³/s), which are poor.

AVERAGE DISCHARGE.--10 years, 19.5 ft³/s (0.552 m³/s), 14.79 in/yr (376 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,500 ft³/s (156 m³/s) June 26, 1978, gage height, 13.31 ft (4.057 m); minimum daily, 0.47 ft³/s (0.013 m³/s) Dec. 2, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 2000 | 608 17.2 | 6.40 1.951 | July 28 | 1930 | 1210 34.3 | 8.64 2.633 |
| Mar. 4 | 0900 | 537 15.2 | 5.95 1.814 | Aug. 1 | 2000 | 544 15.4 | 6.15 1.875 |
| July 13 | 1230 | *1210 34.3 | *8.65 2.637 | | | | |

Minimum daily discharge, 2.9 ft³/s (0.082 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| 1 | 4.1 | 3.6 | 7.0 | 163 | 5.8 | 39 | 34 | 7.0 | 4.6 | 3.5 | 167 | 8.4 |
| 2 | 3.6 | 3.6 | 6.6 | 50 | 5.8 | 77 | 37 | 5.0 | 4.3 | 3.2 | 92 | 7.6 |
| 3 | 4.8 | 3.6 | 66 | 22 | 5.4 | 213 | 24 | 13 | 4.0 | 4.0 | 34 | 7.0 |
| 4 | 3.5 | 3.7 | 48 | 8.4 | 5.4 | 395 | 23 | 5.0 | 3.8 | 19 | 24 | 6.7 |
| 5 | 4.4 | 3.9 | 21 | 7.6 | 5.3 | 95 | 23 | 4.4 | 3.5 | 7.0 | 18 | 6.3 |
| 6 | 3.8 | 6.2 | 15 | 7.2 | 5.2 | 58 | 26 | 4.1 | 5.0 | 4.3 | 15 | 5.9 |
| 7 | 3.3 | 8.5 | 18 | 6.9 | 5.2 | 52 | 16 | 4.0 | 38 | 4.0 | 13 | 5.5 |
| 8 | 3.1 | 6.0 | 53 | 6.7 | 5.0 | 43 | 26 | 3.9 | 14 | 4.0 | 11 | 5.1 |
| 9 | 3.0 | 5.0 | 35 | 6.5 | 4.8 | 36 | 80 | 3.8 | 20 | 4.3 | 10 | 4.8 |
| 10 | 2.9 | 4.3 | 16 | 6.4 | 4.6 | 33 | 36 | 3.7 | 10 | 4.0 | 9.4 | 4.5 |
| 11 | 12 | 4.0 | 11 | 6.3 | 4.5 | 21 | 124 | 4.6 | 9.7 | 3.8 | 12 | 4.3 |
| 12 | 20 | 3.8 | 9.4 | 6.2 | 4.4 | 16 | 219 | 8.0 | 9.2 | 4.3 | 10 | 4.1 |
| 13 | 60 | 5.4 | 8.3 | 6.6 | 4.8 | 17 | 65 | 5.0 | 7.5 | 523 | 9.2 | 3.9 |
| 14 | 18 | 41 | 7.0 | 7.4 | 4.6 | 23 | 51 | 6.2 | 6.6 | 67 | 8.4 | 6.5 |
| 15 | 12 | 13 | 6.4 | 6.6 | 5.0 | 16 | 30 | 6.2 | 6.2 | 32 | 7.8 | 5.0 |
| 16 | 8.0 | 6.4 | 6.0 | 6.3 | 4.7 | 11 | 22 | 5.0 | 5.4 | 21 | 7.3 | 4.2 |
| 17 | 6.2 | 77 | 5.6 | 6.0 | 4.4 | 9.0 | 17 | 4.6 | 4.6 | 15 | 6.9 | 3.7 |
| 18 | 5.4 | 32 | 5.4 | 7.5 | 4.1 | 8.6 | 13 | 4.1 | 4.6 | 11 | 13 | 3.4 |
| 19 | 4.9 | 19 | 6.2 | 9.2 | 3.8 | 11 | 11 | 3.8 | 4.3 | 9.2 | 47 | 3.2 |
| 20 | 4.4 | 13 | 15 | 7.4 | 3.7 | 9.2 | 10 | 4.2 | 5.7 | 8.1 | 37 | 3.1 |
| 21 | 4.1 | 9.6 | 19 | 13 | 11 | 8.4 | 9.0 | 3.6 | 8.0 | 7.3 | 41 | 8.1 |
| 22 | 3.9 | 8.5 | 11 | 10 | 24 | 8.0 | 8.0 | 3.2 | 4.6 | 6.4 | 19 | 5.0 |
| 23 | 3.9 | 12 | 9.5 | 9.0 | 354 | 57 | 7.6 | 3.4 | 4.0 | 11 | 18 | 4.1 |
| 24 | 4.2 | 9.0 | 9.1 | 21 | 178 | 47 | 7.2 | 3.8 | 4.3 | 39 | 16 | 3.6 |
| 25 | 5.0 | 8.0 | 8.7 | 16 | 50 | 33 | 7.5 | 4.3 | 3.8 | 72 | 14 | 3.9 |
| 26 | 7.5 | 8.6 | 8.2 | 9.7 | 30 | 18 | 6.8 | 4.0 | 3.5 | 100 | 23 | 4.0 |
| 27 | 5.8 | 9.6 | 7.6 | 8.4 | 23 | 13 | 9.7 | 8.6 | 3.2 | 84 | 19 | 4.2 |
| 28 | 4.7 | 8.7 | 6.8 | 7.6 | 19 | 18 | 8.0 | 5.0 | 3.0 | 465 | 15 | 3.9 |
| 29 | 4.0 | 8.0 | 7.0 | 7.0 | --- | 26 | 6.6 | 4.6 | 3.2 | 174 | 27 | 3.7 |
| 30 | 3.8 | 7.4 | 15 | 6.6 | --- | 26 | 5.7 | 4.3 | 6.6 | 45 | 12 | 3.4 |
| 31 | 3.7 | --- | 74 | 6.2 | --- | 47 | --- | 4.3 | --- | 32 | 10 | --- |
| TOTAL | 238.0 | 352.4 | 541.8 | 468.7 | 785.5 | 1484.2 | 963.1 | 154.7 | 215.2 | 1787.4 | 766.0 | 147.1 |
| MEAN | 7.68 | 11.7 | 17.5 | 15.1 | 28.1 | 47.9 | 32.1 | 4.99 | 7.17 | 57.7 | 24.7 | 4.90 |
| MAX | 60 | 77 | 74 | 163 | 354 | 395 | 219 | 13 | 38 | 523 | 167 | 8.4 |
| MIN | 2.9 | 3.6 | 5.4 | 6.0 | 3.7 | 8.0 | 5.7 | 3.2 | 3.0 | 3.2 | 6.9 | 3.1 |
| CFSM | .43 | .65 | .98 | .84 | 1.57 | 2.68 | 1.79 | .28 | .40 | 3.22 | 1.38 | .27 |
| IN. | .49 | .73 | 1.13 | .97 | 1.63 | 3.08 | 2.00 | .32 | .45 | 3.71 | 1.59 | .31 |

CAL YR 1978 TOTAL 9040.8 MEAN 24.8 MAX 1570 MIN 2.9 CFSM 1.39 IN 18.79
WTR YR 1979 TOTAL 7904.1 MEAN 21.7 MAX 523 MIN 2.9 CFSM 1.21 IN 16.43

WABASH RIVER BASIN

03351400 SUGAR CREEK NEAR MIDDLETOWN, IN

LOCATION.--Lat 40°02'27", long 85°31'30", in NW¼SE¼ sec.5, T.18 N., R.9 E., Henry County, Hydrologic Unit 05120201, 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 mi² (15.02 km²).

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

REVISED RECORDS.--WDR IN-75-1: 1969-74.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft (289.560 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 6.23 ft³/s (0.176 m³/s), 14.59 in/yr (371 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) April 28, 1975, gage height, 7.72 ft (2.353 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 30 to Sept. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft³/s (3.40 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 1130 | 326 9.23 | 6.20 1.890 | July 28 | 1745 | *607 17.2 | *7.05 2.149 |
| June 5 | 2345 | 185 5.24 | 5.55 1.692 | Aug. 1 | 1845 | 465 13.2 | 6.66 2.030 |
| July 25 | 1830 | 198 5.61 | 5.61 1.710 | | | | |

Minimum daily discharge 0.30 ft³/s (0.008 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|-------|--------|-------|-------|------|--------|-------|-------|-------|
| 1 | .45 | 1.5 | 2.3 | 75 | 1.2 | 15 | 6.5 | 2.3 | 1.1 | 2.7 | 173 | 2.9 |
| 2 | .43 | 1.5 | 2.2 | 26 | 1.1 | 30 | 8.0 | 2.4 | .97 | 1.7 | 60 | 2.6 |
| 3 | .46 | 1.5 | 22 | 6.8 | 1.1 | 50 | 5.4 | 3.0 | .93 | 1.4 | 21 | 2.7 |
| 4 | .52 | 1.5 | 20 | 3.3 | 1.1 | 75 | 5.6 | 2.5 | .85 | 8.5 | 14 | 2.3 |
| 5 | .47 | 1.5 | 10 | 1.6 | 1.1 | 30 | 6.1 | 2.3 | 16 | 4.0 | 10 | 2.1 |
| 6 | .45 | 1.4 | 6.5 | 1.6 | 1.0 | 21 | 10 | 2.2 | 54 | 2.1 | 7.3 | 2.0 |
| 7 | .43 | 1.5 | 7.3 | 1.4 | .98 | 16 | 6.2 | 2.1 | 13 | 1.6 | 5.3 | 1.8 |
| 8 | .37 | 1.4 | 24 | 1.4 | .96 | 13 | 6.0 | 1.9 | 7.5 | 1.4 | 4.1 | 1.6 |
| 9 | .32 | 1.4 | 17 | 1.4 | .95 | 10 | 14 | 1.8 | 4.9 | 5.6 | 3.4 | 1.5 |
| 10 | .30 | 1.3 | 8.5 | 1.2 | .94 | 9.3 | 8.6 | 1.8 | 3.4 | 10 | 4.6 | 1.4 |
| 11 | .57 | 1.3 | 5.8 | 1.2 | .93 | 6.9 | 27 | 1.8 | 2.4 | 2.9 | 15 | 1.3 |
| 12 | .67 | 1.2 | 4.8 | 1.1 | .92 | 4.9 | 38 | 2.2 | 2.0 | 1.9 | 6.0 | 1.3 |
| 13 | 36 | 1.3 | 4.3 | 1.1 | .91 | 5.0 | 22 | 2.1 | 1.7 | 26 | 4.0 | 1.8 |
| 14 | 16 | 5.1 | 3.6 | 1.3 | .91 | 5.5 | 23 | 1.9 | 1.5 | 16 | 3.3 | 3.4 |
| 15 | 11 | 3.9 | 3.4 | 1.1 | .89 | 4.3 | 15 | 2.3 | 1.3 | 6.6 | 2.8 | 2.0 |
| 16 | 6.9 | 2.7 | 3.0 | 1.0 | .82 | 3.8 | 10 | 1.8 | 1.2 | 3.6 | 2.4 | 1.6 |
| 17 | 4.9 | 31 | 2.6 | 1.0 | .75 | 3.6 | 7.1 | 1.7 | 1.9 | 2.5 | 2.2 | 1.4 |
| 18 | 4.2 | 20 | 2.6 | 1.1 | .75 | 3.6 | 5.6 | 1.7 | 4.1 | 2.0 | 2.3 | 1.4 |
| 19 | 3.6 | 11 | 2.6 | 1.2 | .75 | 3.5 | 4.8 | 1.7 | 12 | 1.7 | 9.4 | 1.2 |
| 20 | 3.1 | 7.0 | 5.6 | 1.5 | .90 | 3.3 | 4.3 | 1.6 | 10 | 1.4 | 43 | 1.2 |
| 21 | 2.6 | 5.3 | 4.3 | 2.0 | 6.1 | 3.1 | 3.9 | 1.5 | 10 | 1.3 | 28 | 1.3 |
| 22 | 2.3 | 4.4 | 2.7 | 1.9 | 15 | 3.0 | 3.4 | 1.4 | 3.5 | 1.2 | 14 | 1.2 |
| 23 | 2.1 | 4.5 | 1.9 | 1.8 | 179 | 3.6 | 3.2 | 1.4 | 2.2 | 1.1 | 10 | 1.0 |
| 24 | 1.9 | 3.6 | 1.9 | 1.7 | 36 | 3.4 | 3.2 | 1.5 | 1.7 | 8.3 | 6.7 | 1.0 |
| 25 | 2.1 | 3.1 | 1.4 | 1.6 | 20 | 2.7 | 3.2 | 1.8 | 1.3 | 59 | 4.6 | .92 |
| 26 | 2.2 | 3.0 | 1.1 | 1.5 | 14 | 2.3 | 3.1 | 1.7 | 1.2 | 51 | 4.9 | .85 |
| 27 | 2.0 | 3.2 | 1.0 | 1.4 | 8.4 | 2.1 | 2.9 | 3.0 | 1.1 | 27 | 5.5 | .85 |
| 28 | 1.8 | 2.7 | .81 | 1.4 | 5.6 | 2.3 | 3.2 | 1.9 | 1.0 | 160 | 4.9 | .92 |
| 29 | 1.6 | 2.6 | .72 | 1.3 | --- | 2.5 | 2.7 | 1.4 | 2.8 | 60 | 5.6 | .85 |
| 30 | 1.6 | 2.4 | 1.0 | 1.3 | --- | 2.6 | 2.6 | 1.2 | 7.8 | 46 | 3.9 | .72 |
| 31 | 1.6 | --- | 35 | 1.2 | --- | 7.0 | --- | 1.1 | --- | 28 | 3.2 | --- |
| TOTAL | 112.94 | 133.8 | 209.93 | 148.4 | 303.06 | 348.3 | 264.6 | 59.0 | 173.35 | 546.5 | 484.4 | 47.11 |
| MEAN | 3.64 | 4.46 | 6.77 | 4.79 | 10.8 | 11.2 | 8.82 | 1.90 | 5.78 | 17.6 | 15.6 | 1.57 |
| MAX | 36 | 31 | 35 | 75 | 179 | 75 | 38 | 3.0 | 54 | 160 | 173 | 3.4 |
| MIN | .30 | 1.2 | .72 | 1.0 | .75 | 2.1 | 2.6 | 1.1 | .85 | 1.1 | 2.2 | .72 |
| CFSM | .63 | .77 | 1.17 | .83 | 1.86 | 1.93 | 1.52 | .33 | 1.00 | 3.03 | 2.69 | .27 |
| IN. | .72 | .86 | 1.35 | .95 | 1.94 | 2.23 | 1.70 | .38 | 1.11 | 3.50 | 3.11 | .30 |
| CAL YR 1978 | TOTAL | 2305.30 | MEAN | 6.32 | MAX | 303 | MIN | .30 | CFSM | 1.09 | IN | 14.78 |
| WTR YR 1979 | TOTAL | 2831.39 | MEAN | 7.76 | MAX | 179 | MIN | .30 | CFSM | 1.34 | IN | 18.16 |

03351500 FALL CREEK NEAR FORTVILLE, IN

LOCATION.--Lat 39°57'15", long 85°52'05", in NW¼NE¼ sec.5, T.17 N., R.6 E., Hamilton County, Hydrologic Unit 05120201, on right bank 100 ft (30 m) downstream from bridge on State Highway 238, 0.2 mile (0.3 km) downstream from Lick Creek, 2 miles (3 km) northwest of Fortville, and at mile 26.1 (42.0 km).

DRAINAGE AREA.--169 mi² (437 km²).

PERIOD OF RECORD.--July 1941 to current year.

REVISED RECORDS.--WSP 1435: 1949(P). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 787.43 ft (240.009 m) National Geodetic Vertical Datum of 1929 (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--38 years, 166 ft³/s (4.701 m³/s), 13.35 in/yr (339 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,750 ft³/s (248 m³/s) Apr. 21, 1964, gage height, 9.88 ft (3.011 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Sept. 23, 24, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 12 ft (3.7 m) March 1913 (information by local resident).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 2 | 0300 | 1460 41.3 | 6.22 1.896 | July 30 | 0600 | 2750 77.9 | 7.65 2.332 |
| Feb. 24 | 0600 | *3410 96.6 | *8.14 2.481 | Aug. 3 | 0500 | 3310 93.7 | 8.09 2.466 |
| Mar. 5 | 0300 | 2380 67.4 | 7.27 2.216 | Aug. 21 | 1100 | 1470 41.6 | 6.03 1.838 |

Minimum daily discharge, 49 ft³/s (1.39 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|-----------|----------|------|------|-------|-------|------|
| 1 | 53 | 71 | 99 | 1160 | 84 | 330 | 257 | 156 | 91 | 106 | 940 | 191 |
| 2 | 53 | 69 | 96 | 1260 | 84 | 715 | 262 | 149 | 86 | 89 | 2020 | 173 |
| 3 | 52 | 68 | 196 | 545 | 84 | 1170 | 229 | 163 | 80 | 78 | 2530 | 163 |
| 4 | 57 | 67 | 508 | 363 | 84 | 2010 | 202 | 158 | 76 | 140 | 664 | 150 |
| 5 | 56 | 66 | 332 | 260 | 80 | 2060 | 203 | 141 | 73 | 194 | 409 | 140 |
| 6 | 56 | 65 | 235 | 200 | 75 | 959 | 234 | 131 | 393 | 124 | 304 | 131 |
| 7 | 54 | 66 | 202 | 160 | 78 | 623 | 211 | 124 | 330 | 99 | 265 | 122 |
| 8 | 52 | 66 | 350 | 140 | 74 | 479 | 198 | 116 | 307 | 89 | 228 | 114 |
| 9 | 50 | 64 | 539 | 120 | 74 | 398 | 346 | 108 | 260 | 96 | 204 | 106 |
| 10 | 49 | 63 | 324 | 105 | 70 | 355 | 326 | 106 | 208 | 177 | 185 | 103 |
| 11 | 53 | 62 | 233 | 110 | 70 | 295 | 398 | 108 | 167 | 133 | 230 | 100 |
| 12 | 65 | 61 | 191 | 110 | 68 | 254 | 1210 | 121 | 140 | 102 | 211 | 97 |
| 13 | 238 | 60 | 175 | 114 | 66 | 236 | 936 | 128 | 124 | 296 | 175 | 94 |
| 14 | 337 | 83 | 152 | 126 | 64 | 241 | 952 | 112 | 116 | 363 | 156 | 103 |
| 15 | 236 | 128 | 138 | 110 | 66 | 214 | 622 | 126 | 106 | 226 | 143 | 108 |
| 16 | 184 | 104 | 131 | 100 | 64 | 191 | 443 | 113 | 100 | 158 | 134 | 97 |
| 17 | 147 | 235 | 119 | 105 | 60 | 180 | 355 | 103 | 96 | 128 | 133 | 92 |
| 18 | 126 | 592 | 112 | 100 | 60 | 174 | 304 | 100 | 145 | 109 | 129 | 89 |
| 19 | 116 | 334 | 112 | 96 | 60 | 171 | 270 | 97 | 138 | 97 | 204 | 86 |
| 20 | 108 | 242 | 117 | 102 | 70 | 168 | 246 | 97 | 163 | 90 | 470 | 83 |
| 21 | 99 | 194 | 206 | 219 | 96 | 160 | 226 | 94 | 171 | 85 | 1310 | 83 |
| 22 | 92 | 167 | 194 | 206 | 287 | 153 | 204 | 89 | 136 | 82 | 758 | 85 |
| 23 | 86 | 154 | 154 | 136 | 1900 | 165 | 194 | 86 | 106 | 78 | 467 | 82 |
| 24 | 81 | 149 | 143 | 150 | 3170 | 184 | 189 | 90 | 94 | 111 | 353 | 79 |
| 25 | 82 | 129 | 134 | 128 | 1300 | 158 | 189 | 100 | 87 | 398 | 274 | 78 |
| 26 | 86 | 122 | 117 | 110 | 511 | 141 | 187 | 99 | 80 | 1130 | 233 | 76 |
| 27 | 86 | 119 | 106 | 98 | 420 | 131 | 177 | 119 | 78 | 845 | 258 | 74 |
| 28 | 81 | 117 | 97 | 94 | 350 | 127 | 185 | 136 | 75 | 924 | 246 | 75 |
| 29 | 76 | 108 | 97 | 90 | --- | 137 | 173 | 109 | 75 | 2030 | 355 | 74 |
| 30 | 74 | 106 | 99 | 88 | --- | 142 | 167 | 96 | 103 | 2220 | 279 | 74 |
| 31 | 72 | --- | 263 | 86 | --- | 228 | --- | 92 | --- | 876 | 222 | --- |
| TOTAL | 3057 | 3931 | 5971 | 6791 | 9469 | 12949 | 10095 | 3567 | 4204 | 11673 | 14489 | 3122 |
| MEAN | 98.6 | 131 | 193 | 219 | 338 | 418 | 337 | 115 | 140 | 377 | 467 | 104 |
| MAX | 337 | 592 | 539 | 1260 | 3170 | 2060 | 1210 | 163 | 393 | 2220 | 2530 | 191 |
| MIN | 49 | 60 | 96 | 86 | 60 | 127 | 167 | 86 | 73 | 78 | 129 | 74 |
| CFSM | .58 | .78 | 1.14 | 1.30 | 2.00 | 2.47 | 1.99 | .68 | .83 | 2.23 | 2.76 | .62 |
| IN. | .67 | .87 | 1.31 | 1.49 | 2.08 | 2.85 | 2.22 | .79 | .93 | 2.57 | 3.19 | .69 |
| CAL YR 1978 | TOTAL | 72095 | MEAN 198 | MAX 3010 | MIN 44 | CFSM 1.17 | IN 15.87 | | | | | |
| WTR YR 1979 | TOTAL | 89318 | MEAN 245 | MAX 3170 | MIN 49 | CFSM 1.45 | IN 19.66 | | | | | |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. * FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. * FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. * FINER THAN 1.00 MM |
|--------------|------|---|---|--|---|---|---|---|---|
| AUG 02... | 1125 | 1740 | 100 | 470 | 92 | 95 | 97 | 99 | 100 |

03351700 GEIST RESERVOIR NEAR OAKLANDON, IN

LOCATION.--Lat 39°54'26", long 85°59'07", in SW¼NE¼ sec.20, T.17 N., R.5 E., Marion County, Hydrologic Unit 05120201, in intake structure of reservoir on Fall Creek, 2.6 miles (4.2 km) northwest of Oaklandon, 17.6 miles (28.3 km) above mouth.

DRAINAGE AREA.--215 mi² (556 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 755.00 ft (230.124 m) National Geodetic Vertical Datum of 1929.

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 hm³). Reservoir is used for water supply for Indianapolis and recreation. Reservoir filled for first time on Mar. 17, 1943.

COOPERATION.--Records furnished by Indianapolis Water Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,360 acre-ft (33.7 hm³) May 18, 1943, elevation, 788.02 ft (240.188 m); minimum, 11,230 acre-ft (13.8 hm³) Jan. 5, 1964, elevation, 778.42 ft (237.262 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,720 acre-ft (30.5 hm³) Feb. 24, elevation, 786.76 ft (239.804 m); minimum, 21,380 acre-ft (26.4 hm³) Oct. 10, elevation, 785.11 ft (239.302 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 785.15 | 21,460 | |
| Oct. 31..... | 785.24 | 21,630 | +170 |
| Nov. 30..... | 785.28 | 21,710 | +80 |
| Dec. 31..... | 785.32 | 21,780 | +70 |
| CAL YR 1978..... | | | +50 |
| Jan. 31..... | 785.30 | 21,740 | -40 |
| Feb. 28..... | 785.60 | 22,330 | +590 |
| Mar. 31..... | 785.32 | 21,780 | -550 |
| Apr. 30..... | 785.39 | 21,920 | +140 |
| May 31..... | 785.28 | 21,710 | -210 |
| June 30..... | 785.23 | 21,610 | -100 |
| July 31..... | 786.12 | 23,390 | +1,780 |
| Aug. 31..... | 785.49 | 22,110 | -1,280 |
| Sept. 30..... | 785.19 | 21,540 | -570 |
| WTR YR 1979..... | | | +80 |

Diversion for municipal supply for city of Indianapolis

Water supply for the city of Indianapolis is from White River, Fall Creek, and Eagle 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. Water from Eagle Creek is taken from Eagle Creek Reservoir (see sta 03353450). 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 ft³/s

| Oct. | Nov. | Dec. | 1978 Cal. year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | 1979 Water year |
|------|------|------|-------------------|------|------|------|------|-----|------|------|------|-------|--------------------|
| 167 | 151 | 161 | 170 | 144 | 134 | 157 | 161 | 172 | 180 | 163 | 167 | 174 | 161 |

03352500 FALL CREEK AT MILLERSVILLE, IN

LOCATION.--Lat 39°51'07", long 86°05'15", in NE¼NE¼ sec.9, T.16 N., R.4 E., Marion County, Hydrologic Unit 05120201, on right bank at downstream side of Emerson Way bridge at Millersville, and 9.2 miles (14.8 km) upstream from mouth.

DRAINAGE AREA.--298 mi² (772 km²).

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 from July 1925 to September 1926 are available in the district office.

REVISED RECORDS.--WSP 1335: 1930-31, 1933, 1936-38, 1942-43. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 722.16 ft (220.114 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft (152 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Geist Reservoir (See sta 03351700).

AVERAGE DISCHARGE.--50 years, 282 ft³/s (7.986 m³/s), 12.85 in/yr (326 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) May 28, 1956, gage height, 13.53 ft (4.124 m); minimum daily, 7.8 ft³/s (0.22 m³/s) Sept. 28, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 16.3 ft (4.97 m) Mar. 26, 1913, from floodmarks, discharge, 22,000 ft³/s (623 m³/s) by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,020 ft³/s (142 m³/s) Feb. 24, gage height, 10.53 ft (3.210 m); minimum daily, 73 ft³/s (2.07 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 1 | 80 | 96 | 172 | 1710 | 149 | 646 | 614 | 227 | 146 | 127 | 1890 | 323 |
| 2 | 81 | 91 | 176 | 1960 | 152 | 1020 | 586 | 206 | 139 | 115 | 3190 | 282 |
| 3 | 83 | 90 | 374 | 1290 | 147 | 1720 | 539 | 252 | 124 | 103 | 2890 | 252 |
| 4 | 90 | 88 | 726 | 798 | 147 | 3410 | 465 | 267 | 112 | 352 | 2110 | 232 |
| 5 | 85 | 88 | 699 | 596 | 135 | 3860 | 413 | 219 | 101 | 426 | 963 | 210 |
| 6 | 81 | 98 | 516 | 501 | 130 | 2310 | 422 | 202 | 159 | 295 | 680 | 182 |
| 7 | 80 | 114 | 427 | 400 | 138 | 1330 | 435 | 192 | 520 | 198 | 526 | 172 |
| 8 | 73 | 83 | 699 | 310 | 130 | 1010 | 409 | 192 | 620 | 154 | 438 | 163 |
| 9 | 199 | 81 | 903 | 230 | 125 | 846 | 685 | 186 | 540 | 170 | 363 | 135 |
| 10 | 75 | 84 | 720 | 205 | 120 | 747 | 692 | 182 | 441 | 355 | 309 | 127 |
| 11 | 88 | 89 | 506 | 200 | 115 | 637 | 882 | 170 | 349 | 272 | 343 | 122 |
| 12 | 116 | 98 | 399 | 205 | 110 | 543 | 1880 | 219 | 267 | 212 | 315 | 124 |
| 13 | 495 | 85 | 332 | 215 | 105 | 484 | 1810 | 236 | 214 | 1430 | 269 | 129 |
| 14 | 595 | 168 | 298 | 240 | 107 | 480 | 1690 | 202 | 182 | 1390 | 241 | 135 |
| 15 | 532 | 218 | 266 | 220 | 110 | 454 | 1290 | 236 | 167 | 827 | 223 | 118 |
| 16 | 426 | 205 | 256 | 195 | 109 | 398 | 917 | 212 | 154 | 544 | 192 | 119 |
| 17 | 320 | 532 | 223 | 208 | 103 | 363 | 717 | 182 | 137 | 369 | 174 | 113 |
| 18 | 240 | 860 | 210 | 195 | 96 | 345 | 585 | 163 | 146 | 259 | 176 | 109 |
| 19 | 211 | 746 | 208 | 180 | 100 | 340 | 492 | 154 | 174 | 200 | 277 | 105 |
| 20 | 197 | 530 | 222 | 182 | 115 | 334 | 433 | 163 | 186 | 167 | 460 | 95 |
| 21 | 173 | 404 | 329 | 309 | 121 | 319 | 389 | 152 | 225 | 147 | 1020 | 103 |
| 22 | 154 | 326 | 348 | 408 | 297 | 295 | 347 | 139 | 225 | 124 | 1210 | 119 |
| 23 | 151 | 291 | 307 | 312 | 1810 | 386 | 309 | 132 | 184 | 122 | 816 | 95 |
| 24 | 122 | 265 | 265 | 362 | 4750 | 426 | 294 | 142 | 154 | 227 | 602 | 85 |
| 25 | 114 | 237 | 238 | 304 | 3670 | 373 | 290 | 149 | 109 | 623 | 464 | 82 |
| 26 | 133 | 223 | 215 | 238 | 1480 | 311 | 287 | 122 | 98 | 1440 | 423 | 84 |
| 27 | 132 | 219 | 194 | 210 | 899 | 280 | 274 | 178 | 88 | 2380 | 414 | 88 |
| 28 | 126 | 200 | 173 | 190 | 691 | 261 | 271 | 182 | 86 | 2160 | 445 | 86 |
| 29 | 113 | 197 | 168 | 175 | --- | 296 | 255 | 176 | 87 | 4140 | 582 | 85 |
| 30 | 99 | 185 | 175 | 164 | --- | 331 | 231 | 151 | 135 | 3220 | 516 | 82 |
| 31 | 94 | --- | 487 | 155 | --- | 598 | --- | 156 | --- | 2120 | 399 | --- |
| TOTAL | 5558 | 6991 | 11231 | 12867 | 16161 | 25153 | 18903 | 5741 | 6269 | 24668 | 22920 | 4156 |
| MEAN | 179 | 233 | 362 | 415 | 577 | 811 | 630 | 185 | 209 | 796 | 739 | 139 |
| MAX | 595 | 860 | 903 | 1960 | 4750 | 3860 | 1880 | 267 | 620 | 4140 | 3190 | 323 |
| MIN | 73 | 81 | 168 | 155 | 96 | 261 | 231 | 122 | 86 | 103 | 174 | 82 |
| CFSM | .60 | .78 | 1.22 | 1.39 | 1.94 | 2.72 | 2.11 | .62 | .70 | 2.67 | 2.48 | .47 |
| IN. | .69 | .87 | 1.40 | 1.61 | 2.02 | 3.14 | 2.36 | .72 | .78 | 3.08 | 2.86 | .52 |
| CAL YR 1978 | TOTAL | 134678 | MEAN | 369 | MAX | 4600 | MIN | 72 | CFSM | 1.24 | IN | 16.81 |
| WTR YR 1979 | TOTAL | 160618 | MEAN | 440 | MAX | 4750 | MIN | 73 | CFSM | 1.48 | IN | 20.05 |

03353000 WHITE RIVER AT INDIANAPOLIS, IN

LOCATION.--Lat 39°45'05", long 86°10'30", in NW¼NW¼ sec.14, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, on downstream side of second pier from right bank of Morris Street bridge in Indianapolis, 2.6 miles (4.2 km) downstream from Fall Creek, and at mile 230.3 (370.6 km).

DRAINAGE AREA.--1,635 mi² (4,235 km²).

PERIOD OF RECORD.--March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of National Weather Service for site 1.1 miles (1.8 km) upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 miles (3.7 km) upstream since Oct. 16, 1913. Prior to October 1948, published as West Fork White River at Indianapolis.

REVISED RECORDS.--WSP 1335: 1932-33, 1937, 1939-41. WSP 1505: 1938. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 662.26 ft (201.857 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records good except those for winter periods, which are 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 (See sta 03351700) by the Indianapolis Water Co.

AVERAGE DISCHARGE.--50 years (1904-5, 1930 to current year), 1,388 ft³/s (39.31 m³/s), 11.53 in/yr (293 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,200 ft³/s (1,050 m³/s) May 18, 1943; maximum gage height, 21.57 ft (6.575 m) Jan. 16, 1937; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Sept. 29, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 ft³/s (1,980 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,500 ft³/s (241 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 2300 | 17500 496 | 14.06 4.285 | July 28 | 2300 | 18900 535 | *14.97 4.563 |
| Mar. 4 | 2300 | *19500 552 | 14.75 4.496 | Aug. 1 | 2000 | 11600 329 | 11.58 3.530 |
| Apr. 13 | 2000 | 8630 244 | 10.12 3.085 | | | | |

Minimum daily discharge, 176 ft³/s (4.98 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|
| 1 | 176 | 256 | 592 | 5890 | 450 | 3460 | 2040 | 1000 | 755 | 490 | 8090 | 1590 |
| 2 | 176 | 258 | 545 | 8000 | 430 | 4930 | 2060 | 949 | 621 | 527 | 10400 | 1290 |
| 3 | 194 | 251 | 1390 | 7180 | 435 | 8450 | 1940 | 1130 | 587 | 544 | 10400 | 1110 |
| 4 | 231 | 242 | 2970 | 4130 | 390 | 17200 | 1800 | 1050 | 550 | 1140 | 9560 | 987 |
| 5 | 223 | 251 | 3640 | 2530 | 370 | 18600 | 1720 | 972 | 511 | 1330 | 5540 | 1090 |
| 6 | 216 | 245 | 2800 | 1990 | 380 | 16100 | 1740 | 926 | 508 | 1130 | 3190 | 967 |
| 7 | 202 | 284 | 2120 | 1600 | 390 | 10400 | 1590 | 835 | 3170 | 802 | 2470 | 841 |
| 8 | 190 | 281 | 2560 | 1400 | 380 | 6070 | 1710 | 815 | 3850 | 629 | 2030 | 738 |
| 9 | 208 | 244 | 3280 | 1200 | 370 | 4830 | 3200 | 759 | 3690 | 799 | 1700 | 649 |
| 10 | 231 | 227 | 3210 | 1070 | 360 | 4240 | 3450 | 722 | 2700 | 870 | 1420 | 585 |
| 11 | 359 | 230 | 2410 | 1010 | 360 | 3750 | 3940 | 747 | 2060 | 860 | 1340 | 539 |
| 12 | 421 | 227 | 1720 | 1010 | 350 | 2910 | 7690 | 978 | 1620 | 745 | 1290 | 528 |
| 13 | 1610 | 249 | 1430 | 1040 | 330 | 2390 | 8540 | 956 | 1260 | 5820 | 1260 | 541 |
| 14 | 931 | 600 | 1220 | 1140 | 340 | 2260 | 7600 | 894 | 1040 | 5940 | 995 | 555 |
| 15 | 986 | 916 | 997 | 858 | 340 | 2220 | 6630 | 1020 | 906 | 5600 | 864 | 518 |
| 16 | 810 | 996 | 965 | 746 | 330 | 1960 | 5140 | 827 | 792 | 4070 | 761 | 557 |
| 17 | 643 | 1970 | 850 | 881 | 330 | 1720 | 3660 | 714 | 775 | 3000 | 680 | 553 |
| 18 | 532 | 2780 | 751 | 928 | 320 | 1570 | 2860 | 671 | 721 | 1810 | 703 | 500 |
| 19 | 451 | 2840 | 719 | 791 | 330 | 1500 | 2380 | 613 | 639 | 1280 | 1610 | 461 |
| 20 | 412 | 2060 | 881 | 787 | 410 | 1510 | 2060 | 619 | 671 | 1010 | 2090 | 429 |
| 21 | 379 | 1510 | 987 | 1150 | 595 | 1390 | 1830 | 620 | 874 | 795 | 3950 | 433 |
| 22 | 344 | 1160 | 948 | 1270 | 1370 | 1280 | 1640 | 579 | 741 | 721 | 5940 | 418 |
| 23 | 330 | 1020 | 971 | 1340 | 6730 | 1710 | 1480 | 538 | 678 | 642 | 6620 | 412 |
| 24 | 307 | 944 | 867 | 1670 | 15000 | 2220 | 1370 | 548 | 595 | 1240 | 5680 | 379 |
| 25 | 274 | 858 | 790 | 1270 | 15700 | 2050 | 1360 | 620 | 507 | 2270 | 3030 | 351 |
| 26 | 313 | 769 | 688 | 1020 | 11600 | 1640 | 1320 | 604 | 397 | 6070 | 2430 | 351 |
| 27 | 323 | 760 | 646 | 800 | 5790 | 1280 | 1270 | 962 | 365 | 7130 | 2020 | 340 |
| 28 | 343 | 693 | 529 | 700 | 4070 | 1200 | 1270 | 962 | 341 | 10000 | 2240 | 333 |
| 29 | 324 | 656 | 533 | 600 | --- | 1350 | 1190 | 935 | 618 | 12600 | 2380 | 320 |
| 30 | 300 | 601 | 549 | 540 | --- | 1560 | 1110 | 819 | 540 | 7100 | 2510 | 313 |
| 31 | 271 | --- | 1930 | 475 | --- | 2010 | --- | 778 | --- | 6170 | 2190 | --- |
| TOTAL | 12710 | 24378 | 44488 | 55016 | 68250 | 133760 | 85590 | 25162 | 33082 | 93134 | 105383 | 18678 |
| MEAN | 410 | 813 | 1435 | 1775 | 2438 | 4315 | 2853 | 812 | 1103 | 3004 | 3399 | 623 |
| MAX | 1610 | 2840 | 3640 | 8000 | 15700 | 18600 | 8540 | 1130 | 3850 | 12600 | 10400 | 1590 |
| MIN | 176 | 227 | 529 | 475 | 320 | 1200 | 1110 | 538 | 341 | 490 | 680 | 313 |
| CFSM | .25 | .50 | .88 | 1.09 | 1.49 | 2.64 | 1.75 | .50 | .68 | 1.84 | 2.08 | .38 |
| IN. | .29 | .55 | 1.01 | 1.25 | 1.55 | 3.04 | 1.95 | .57 | .75 | 2.12 | 2.40 | .42 |
| CAL YR 1978 | TOTAL | 615122 | MEAN | 1685 | MAX | 18500 | MIN | 173 | CFSM | 1.03 | IN | 14.00 |
| WTR YR 1979 | TOTAL | 699631 | MEAN | 1917 | MAX | 18600 | MIN | 176 | CFSM | 1.17 | IN | 15.92 |

03353120 PLEASANT RUN AT ARLINGTON AVENUE AT INDIANAPOLIS, IN

LOCATION.--Lat 39°46'33", long 86°03'50", in SW¼NW¼ sec.2, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on right bank 46 ft (14 m) upstream from Arlington Avenue bridge in Indianapolis, 0.5 mile (0.8 km) downstream from small left-bank tributary, and at mile 7.9 (12.7 km).

DRAINAGE AREA.--7.58 mi² (19.63 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

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

AVERAGE DISCHARGE.--19 years (1960 to current year), 7.72 ft³/s (0.219 m³/s), 13.83 in/yr (351 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s (73.6 m³/s) June 25, 1978, gage height, 13.86 ft (4.225 m); no flow at times in 1960-62.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1956 reached a stage of 16.0 ft (4.88 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 450 ft³/s (12.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 0400 | 694 19.6 | 7.00 2.134 | July 28 | 1545 | 1410 39.9 | 9.73 2.966 |
| Mar. 4 | 0700 | 618 17.5 | 6.67 2.033 | Aug. 1 | 1715 | 1590 45.0 | 10.34 3.161 |
| July 13 | 1030 | 897 25.4 | 7.83 2.386 | | | | |

Minimum daily discharge, 0.38 ft³/s (0.011 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|--------|--------|--------|-------|-------|--------|--------|---------|-------|-------|
| 1 | .55 | 1.1 | .88 | 52 | 1.0 | 30 | 17 | 1.2 | 1.5 | 1.6 | 290 | 3.1 |
| 2 | .55 | 1.0 | 2.6 | 11 | 1.0 | 37 | 11 | 3.5 | .92 | .91 | 31 | 2.4 |
| 3 | .55 | .81 | 48 | 2.8 | 1.1 | 79 | 7.7 | 9.6 | .78 | 7.2 | 9.5 | 2.2 |
| 4 | .43 | .80 | 8.3 | 1.7 | 1.0 | 170 | 9.2 | 2.4 | .78 | 40 | 5.7 | 2.2 |
| 5 | 1.9 | .73 | 3.6 | 1.3 | .96 | 16 | 7.4 | 1.5 | 1.0 | 3.6 | 3.8 | 2.1 |
| 6 | 1.9 | .87 | 2.3 | 1.1 | 1.0 | 9.7 | 5.6 | 1.2 | .93 | 1.4 | 2.8 | 1.9 |
| 7 | .42 | 3.9 | 15 | 1.0 | .95 | 7.4 | 4.2 | 1.1 | 37 | .88 | 2.4 | 1.6 |
| 8 | .38 | 1.1 | 45 | .95 | .94 | 5.8 | 17 | 1.5 | 15 | .69 | 2.0 | 1.7 |
| 9 | .56 | .88 | 9.0 | .90 | .92 | 5.4 | 21 | 1.5 | 8.6 | 58 | 2.0 | 1.4 |
| 10 | .45 | .89 | 3.8 | .86 | .91 | 5.4 | 8.4 | 1.9 | 9.8 | 13 | 13 | 1.3 |
| 11 | 15 | .87 | 2.7 | .84 | .94 | 3.0 | 50 | 2.1 | 2.9 | 3.5 | 6.9 | 1.2 |
| 12 | 26 | .81 | 2.4 | .80 | .99 | 2.3 | 77 | 20 | 5.8 | 11 | 1.9 | 1.2 |
| 13 | 83 | .84 | 2.1 | 2.5 | .90 | 2.5 | 36 | 3.1 | 2.6 | 268 | 1.6 | 1.2 |
| 14 | 10 | 23 | 1.6 | 7.0 | .84 | 5.0 | 21 | 10 | 1.8 | 17 | 1.6 | 1.9 |
| 15 | 5.0 | 3.1 | 1.6 | 1.4 | 7.0 | 2.3 | 11 | 8.8 | .94 | 7.9 | 1.3 | 1.1 |
| 16 | 2.8 | 1.6 | 1.3 | 1.7 | 3.0 | 1.9 | 6.2 | 1.9 | .88 | 4.4 | 1.3 | 1.1 |
| 17 | 1.4 | 75 | .99 | 8.0 | 1.3 | 1.7 | 4.2 | 1.2 | 3.0 | 2.6 | 1.3 | 1.0 |
| 18 | 1.5 | 5.6 | 1.2 | 5.5 | 1.0 | 1.7 | 3.2 | 1.1 | 1.3 | 1.9 | 5.0 | 1.0 |
| 19 | .95 | 2.6 | 1.1 | 2.3 | .90 | 2.5 | 2.6 | 1.7 | .82 | 1.4 | 37 | 1.0 |
| 20 | 1.2 | 1.7 | 22 | 7.4 | .82 | 2.1 | 2.3 | 1.9 | 1.4 | 1.4 | 76 | 1.0 |
| 21 | .97 | 1.2 | 5.0 | 84 | 7.0 | 1.7 | 1.9 | .82 | 1.4 | 1.1 | 21 | 2.5 |
| 22 | .72 | 1.0 | 2.1 | 5.4 | 35 | 1.5 | 1.6 | .83 | .79 | .96 | 8.3 | 1.1 |
| 23 | 1.4 | 2.8 | 1.5 | 6.2 | 220 | 25 | 1.6 | .99 | .76 | 27 | 4.4 | .92 |
| 24 | 1.3 | 1.1 | 1.9 | 95 | 26 | 8.2 | 1.7 | 1.2 | 1.5 | 32 | 3.0 | .97 |
| 25 | 2.1 | .81 | 1.5 | 13 | 8.3 | 4.0 | 3.0 | 2.9 | .74 | 30 | 2.4 | 1.0 |
| 26 | 6.0 | 1.3 | 1.0 | 1.9 | 6.2 | 2.5 | 2.2 | 3.8 | .71 | 33 | 21 | .97 |
| 27 | 1.3 | 2.1 | .87 | 1.4 | 5.0 | 1.7 | 5.4 | 17 | .77 | 56 | 6.5 | 1.0 |
| 28 | .98 | 1.2 | .80 | 1.3 | 4.5 | 8.2 | 4.3 | 2.1 | .92 | 371 | 68 | 1.1 |
| 29 | .68 | .92 | .80 | 1.2 | --- | 8.7 | 1.8 | 1.2 | 37 | 35 | 18 | 1.0 |
| 30 | 1.0 | .88 | 4.7 | 1.1 | --- | 15 | 2.9 | 1.4 | 8.0 | 11 | 6.7 | 1.1 |
| 31 | 1.4 | --- | 135 | 1.0 | --- | 24 | --- | 6.8 | --- | 5.1 | 4.0 | --- |
| TOTAL | 172.39 | 140.51 | 330.64 | 322.55 | 339.47 | 491.2 | 348.4 | 116.24 | 150.34 | 1048.54 | 659.4 | 43.26 |
| MEAN | 5.56 | 4.68 | 10.7 | 10.4 | 12.1 | 15.8 | 11.6 | 3.75 | 5.01 | 33.8 | 21.3 | 1.44 |
| MAX | 83 | 75 | 135 | 95 | 220 | 170 | 77 | 20 | 37 | 371 | 290 | 3.1 |
| MIN | .38 | .73 | .80 | .80 | .82 | 1.5 | 1.6 | .82 | .71 | .69 | 1.3 | .92 |
| CFSM | .73 | .62 | 1.41 | 1.37 | 1.60 | 2.08 | 1.53 | .50 | .66 | 4.46 | 2.81 | .19 |
| IN. | .85 | .69 | 1.62 | 1.58 | 1.67 | 2.41 | 1.71 | .57 | .74 | 5.15 | 3.24 | .21 |

CAL YR 1978 TOTAL 3954.00 MEAN 10.8 MAX 383 MIN .38 CFSM 1.43 IN 19.40
WTR YR 1979 TOTAL 4162.94 MEAN 11.4 MAX 371 MIN .38 CFSM 1.50 IN 20.43

03353160 PLEASANT RUN AT BROOKVILLE ROAD AT INDIANAPOLIS, IN

LOCATION.--Lat 39°45'52", long 86°05'43", in NE¼NW¼ sec.9, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on right bank at downstream side of Brookville Road bridge in Indianapolis, 2.2 miles (3.5 km) downstream from Arlington Avenue, and at mile 5.7 (9.2 km).

DRAINAGE AREA.--10.1 mi² (26.2 km²).

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

REVISED RECORDS.--WSP 1909: 1960. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 752.00 ft (229.210 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

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

AVERAGE DISCHARGE.--19 years (1960 to current year), 10.18 ft³/s (0.288 m³/s), 13.69 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 25, 1978, gage height, 11.28 ft (3.438 m); no flow at times in 1960-68.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 520 ft³/s (14.73 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 23 | 0800 | 632 | 17.9 | 5.37 | 1.637 | July 28 | 1515 | 1710 | 48.4 | 8.75 | 2.667 |
| Mar. 4 | 0800 | 683 | 19.3 | 5.55 | 1.692 | Aug. 1 | 1715 | *1750 | 49.6 | *9.09 | 2.771 |
| July 9 | 1900 | 632 | 17.9 | 5.37 | 1.637 | Aug. 20 | 1815 | 554 | 15.7 | 5.05 | 1.539 |
| July 13 | 0800 | 1290 | 36.5 | 7.71 | 2.350 | | | | | | |

Minimum daily discharge, 0.55 ft³/s (0.016 m³/s) Oct. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|
| 1 | 1.8 | 1.5 | 1.3 | 61 | 1.4 | 34 | 18 | 2.1 | 2.1 | 3.0 | 360 | 3.8 |
| 2 | 1.3 | 1.6 | 2.6 | 19 | 1.5 | 40 | 14 | 2.8 | 1.3 | 2.0 | 36 | 3.3 |
| 3 | 1.0 | 1.2 | 54 | 7.4 | 1.5 | 84 | 8.3 | 9.9 | 1.0 | 8.3 | 11 | 2.8 |
| 4 | 1.5 | 1.0 | 12 | 3.0 | 1.4 | 161 | 9.9 | 3.6 | .92 | 42 | 6.6 | 2.8 |
| 5 | 2.1 | .86 | 5.2 | 2.1 | 1.3 | 26 | 7.9 | 2.6 | 1.0 | 4.8 | 4.9 | 2.8 |
| 6 | 2.6 | .95 | 3.3 | 1.7 | 1.4 | 12 | 6.2 | 2.1 | 1.0 | 2.3 | 3.8 | 2.1 |
| 7 | .92 | 5.5 | 20 | 1.5 | 1.4 | 11 | 5.1 | 1.8 | 41 | 1.8 | 3.6 | 1.8 |
| 8 | .55 | 1.7 | 49 | 1.4 | 1.4 | 7.9 | 18 | 2.3 | 16 | 1.5 | 3.0 | 1.8 |
| 9 | 1.0 | 1.2 | 12 | 1.3 | 1.3 | 7.0 | 33 | 2.1 | 9.9 | 68 | 3.0 | 1.6 |
| 10 | .55 | 1.2 | 5.3 | 1.2 | 1.2 | 7.9 | 9.9 | 2.6 | 12 | 15 | 16 | 1.6 |
| 11 | 23 | 1.1 | 3.6 | 1.1 | 1.3 | 4.1 | 65 | 2.8 | 4.1 | 4.8 | 8.3 | 1.5 |
| 12 | 32 | 1.0 | 3.3 | 1.1 | 1.4 | 3.6 | 87 | 22 | 7.0 | 11 | 2.8 | 1.5 |
| 13 | 108 | 1.1 | 2.6 | 1.6 | 1.3 | 3.3 | 35 | 5.5 | 4.1 | 382 | 2.6 | 1.6 |
| 14 | 15 | 31 | 2.1 | 8.4 | 1.1 | 6.2 | 23 | 9.5 | 2.6 | 20 | 2.3 | 2.1 |
| 15 | 8.8 | 5.5 | 2.0 | 1.8 | 9.0 | 3.6 | 13 | 11 | 1.8 | 11 | 2.3 | 1.5 |
| 16 | 2.4 | 2.3 | 2.0 | 2.4 | 3.2 | 2.6 | 9.3 | 3.8 | 1.5 | 7.2 | 2.1 | 1.3 |
| 17 | 1.8 | 87 | 1.5 | 10 | 2.2 | 2.6 | 7.4 | 2.6 | 7.0 | 4.4 | 2.1 | 1.3 |
| 18 | 1.5 | 8.3 | 1.5 | 4.8 | 1.6 | 2.3 | 6.2 | 1.6 | 2.6 | 3.5 | 6.6 | 1.5 |
| 19 | 1.6 | 4.1 | 1.6 | 2.4 | 1.3 | 3.3 | 5.5 | 1.6 | 1.6 | 3.4 | 44 | 1.5 |
| 20 | 1.2 | 2.6 | 26 | 5.8 | 1.2 | 2.6 | 3.8 | 2.8 | 1.8 | 2.8 | 99 | 1.5 |
| 21 | 1.3 | 2.0 | 7.4 | 97 | 8.0 | 2.6 | 2.8 | 1.3 | 2.6 | 2.3 | 23 | 2.8 |
| 22 | 1.2 | 1.8 | 3.3 | 30 | 42 | 2.3 | 2.6 | 1.2 | 1.5 | 2.0 | 8.2 | 1.6 |
| 23 | .84 | 3.8 | 2.6 | 8.8 | 281 | 32 | 2.6 | 1.3 | 1.3 | 23 | 4.7 | 1.0 |
| 24 | 1.8 | 2.0 | 2.8 | 119 | 65 | 11 | 2.6 | 1.8 | 2.0 | 33 | 3.6 | 1.2 |
| 25 | 1.4 | 1.3 | 2.6 | 23 | 12 | 7.0 | 3.8 | 2.6 | 1.3 | 30 | 3.0 | 1.2 |
| 26 | 10 | 2.0 | 1.5 | 3.5 | 8.4 | 4.8 | 3.0 | 2.1 | 1.0 | 27 | 21 | 1.2 |
| 27 | 1.5 | 3.3 | 1.3 | 2.4 | 6.0 | 4.1 | 4.8 | 14 | 1.2 | 47 | 7.5 | 1.3 |
| 28 | 1.6 | 2.3 | 1.2 | 2.0 | 9.3 | 9.9 | 5.5 | 2.8 | 1.3 | 479 | 74 | 1.5 |
| 29 | .83 | 1.5 | 1.3 | 1.7 | --- | 11 | 2.6 | 1.6 | 43 | 32 | 20 | 1.5 |
| 30 | .85 | 1.5 | 5.1 | 1.6 | --- | 20 | 3.8 | 1.6 | 8.8 | 9.9 | 7.4 | 1.5 |
| 31 | 1.8 | --- | 148 | 1.5 | --- | 34 | --- | 5.8 | --- | 5.4 | 5.1 | --- |
| TOTAL | 231.74 | 182.21 | 388.0 | 429.5 | 469.1 | 563.7 | 419.6 | 131.2 | 184.32 | 1289.4 | 797.5 | 54.5 |
| MEAN | 7.48 | 6.07 | 12.5 | 13.9 | 16.8 | 18.2 | 14.0 | 4.23 | 6.14 | 41.6 | 25.7 | 1.82 |
| MAX | 108 | 87 | 148 | 119 | 281 | 161 | 87 | 22 | 43 | 479 | 360 | 3.8 |
| MIN | .55 | .86 | 1.2 | 1.1 | 1.1 | 2.3 | 2.6 | 1.2 | .92 | 1.5 | 2.1 | 1.0 |
| CFSM | .74 | .60 | 1.24 | 1.38 | 1.66 | 1.80 | 1.39 | .42 | .61 | 4.12 | 2.55 | .18 |
| IN. | .85 | .67 | 1.43 | 1.58 | 1.73 | 2.08 | 1.55 | .48 | .68 | 4.75 | 2.94 | .20 |

CAL YR 1978 TOTAL 5240.55 MEAN 14.4 MAX 423 MIN .55 CFSM 1.43 IN 19.30
WTR YR 1979 TOTAL 5140.77 MEAN 14.1 MAX 479 MIN .55 CFSM 1.40 IN 18.93

WABASH RIVER BASIN

03353180 BEAN CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°43'45", long 86°07'14", in NW¼SW¼ sec.20, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on left bank 80 ft (24 m) upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis, and at mile 1.8 (2.9 km).

DRAINAGE AREA.--4.40 mi² (11.40 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 735.00 ft (224.028 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 5.53 ft³/s (0.157 m³/s), 17.07 in/yr (434 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 770 ft³/s (21.8 m³/s) June 25, 1978, gage height, 7.77 ft (2.368 m); minimum daily, 0.54 ft³/s (0.015 m³/s) Jan. 18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft³/s (2.26 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|---------|---|-------------------------|
| Oct. 13 | 0215 | 93 2.63 | 3.22 .981 | Apr. 12 | 0130 | 107 3.03 | 3.57 1.088 |
| Nov. 17 | 0700 | 89 2.52 | 3.27 .997 | July 13 | 0915 | 550 15.6 | 7.01 2.137 |
| Dec. 31 | 1800 | 135 3.82 | 3.63 1.106 | July 28 | 1445 | 448 12.7 | 6.45 1.966 |
| Feb. 22 | 1830 | 85 2.41 | 3.15 .960 | Aug. 1 | *1700 | 600 17.0 | *7.24 2.207 |
| Feb. 23 | 0900 | 180 5.10 | 4.24 1.292 | Aug. 28 | unknown | 123 3.48 | 3.73 1.137 |
| Apr. 11 | 1045 | 89 2.52 | 3.39 1.033 | | | | |

Minimum daily discharge, 0.85 ft³/s (0.024 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|------|-------|--------|-------|------|
| 1 | 1.4 | 1.5 | 1.7 | 44 | 2.5 | 12 | 7.3 | 1.9 | 2.0 | 1.1 | 133 | 3.1 |
| 2 | 1.4 | 1.6 | 2.0 | 17 | 2.6 | 22 | 6.4 | 2.5 | 1.8 | .93 | 22 | 2.7 |
| 3 | 1.9 | 1.7 | 18 | 5.8 | 2.7 | 36 | 5.9 | 4.5 | 1.9 | 2.0 | 11 | 2.7 |
| 4 | 1.6 | 1.6 | 4.5 | 4.0 | 2.6 | 46 | 6.1 | 2.7 | 1.9 | 9.6 | 7.1 | 2.4 |
| 5 | 2.0 | 1.3 | 2.9 | 3.3 | 2.4 | 12 | 5.4 | 2.2 | 1.9 | 1.5 | 4.8 | 2.5 |
| 6 | 1.5 | 1.7 | 2.4 | 3.0 | 2.5 | 8.8 | 4.9 | 2.0 | 1.8 | 1.2 | 4.7 | 2.8 |
| 7 | 1.0 | 3.0 | 5.8 | 2.8 | 2.4 | 6.7 | 4.4 | 1.9 | 13 | 1.1 | 3.9 | 2.4 |
| 8 | .85 | 2.4 | 17 | 2.6 | 2.4 | 5.6 | 8.5 | 1.9 | 6.9 | 1.1 | 3.5 | 2.2 |
| 9 | 1.2 | 2.6 | 4.8 | 2.5 | 2.4 | 5.4 | 9.8 | 2.0 | 3.1 | 7.5 | 3.4 | 1.9 |
| 10 | 1.6 | 2.4 | 2.7 | 2.4 | 2.4 | 5.2 | 4.6 | 2.0 | 1.9 | 3.0 | 3.1 | 1.9 |
| 11 | 6.4 | 2.4 | 2.3 | 2.3 | 2.3 | 4.4 | 23 | 2.0 | 1.6 | 1.4 | 3.3 | 2.1 |
| 12 | 7.3 | 2.1 | 2.3 | 2.3 | 2.2 | 4.0 | 30 | 7.7 | 2.9 | 3.3 | 2.9 | 2.0 |
| 13 | 33 | 2.3 | 2.6 | 2.7 | 2.3 | 4.2 | 19 | 2.4 | 2.1 | 136 | 2.7 | 2.0 |
| 14 | 3.4 | 9.4 | 2.5 | 3.8 | 2.2 | 7.0 | 10 | 2.7 | 1.5 | 14 | 2.7 | 2.2 |
| 15 | 2.7 | 2.4 | 2.7 | 2.6 | 2.4 | 4.0 | 6.7 | 3.8 | .94 | 8.5 | 2.7 | 1.6 |
| 16 | 2.4 | 1.9 | 2.5 | 2.8 | 2.3 | 3.4 | 5.7 | 2.2 | .92 | 3.6 | 2.7 | 1.3 |
| 17 | 2.1 | 29 | 2.3 | 4.2 | 2.2 | 3.0 | 5.3 | 2.1 | 6.4 | 2.7 | 2.9 | 1.4 |
| 18 | 2.0 | 4.7 | 2.6 | 2.7 | 2.1 | 2.9 | 4.9 | 2.0 | 3.0 | 2.3 | 4.2 | 1.7 |
| 19 | 1.7 | 3.5 | 2.9 | 2.5 | 2.1 | 4.0 | 4.7 | 2.4 | 2.1 | 2.1 | 23 | 1.7 |
| 20 | 1.6 | 3.4 | 14 | 6.4 | 2.1 | 3.4 | 4.0 | 2.5 | 1.9 | 1.9 | 30 | 1.4 |
| 21 | 1.4 | 2.9 | 6.1 | 19 | 6.1 | 2.8 | 3.7 | 1.6 | 1.8 | 1.7 | 10 | 2.5 |
| 22 | 1.3 | 2.5 | 3.9 | 6.1 | 30 | 2.6 | 3.3 | 1.7 | 1.6 | 1.6 | 6.0 | 1.5 |
| 23 | 1.5 | 2.5 | 2.9 | 7.7 | 115 | 11 | 3.2 | 1.8 | 1.3 | 4.4 | 4.5 | 1.2 |
| 24 | 1.7 | 2.1 | 2.9 | 19 | 15 | 6.4 | 2.9 | 1.9 | 1.6 | 14 | 3.8 | 1.3 |
| 25 | 1.8 | 2.0 | 2.4 | 7.3 | 6.4 | 4.6 | 3.0 | 2.3 | 1.5 | 6.9 | 3.5 | 1.3 |
| 26 | 2.4 | 2.0 | 2.2 | 4.5 | 4.6 | 4.0 | 2.7 | 2.7 | 1.7 | 5.1 | 9.0 | 1.4 |
| 27 | 1.4 | 2.1 | 2.1 | 3.3 | 4.6 | 3.8 | 3.1 | 5.9 | 1.6 | 3.9 | 5.4 | 1.6 |
| 28 | 1.3 | 2.0 | 1.9 | 2.9 | 4.4 | 6.4 | 2.7 | 1.7 | 1.5 | 143 | 25 | 1.5 |
| 29 | 1.2 | 1.8 | 2.0 | 2.8 | --- | 5.6 | 1.9 | 1.7 | 6.3 | 21 | 10 | 1.4 |
| 30 | 1.3 | 1.7 | 7.7 | 2.7 | --- | 8.2 | 1.9 | 1.8 | 2.2 | 11 | 5.1 | 1.3 |
| 31 | 1.6 | --- | 57 | 2.6 | --- | 9.5 | --- | 3.3 | --- | 7.2 | 3.8 | --- |
| TOTAL | 93.95 | 102.5 | 189.6 | 197.6 | 233.2 | 264.9 | 205.0 | 79.8 | 80.66 | 424.63 | 359.7 | 57.0 |
| MEAN | 3.03 | 3.42 | 6.12 | 6.37 | 8.33 | 8.55 | 6.83 | 2.57 | 2.69 | 13.7 | 11.6 | 1.90 |
| MAX | 33 | 29 | 57 | 44 | 115 | 46 | 30 | 7.7 | 13 | 143 | 133 | 3.1 |
| MIN | .85 | 1.3 | 1.7 | 2.3 | 2.1 | 2.6 | 1.9 | 1.6 | .92 | .93 | 2.7 | 1.2 |
| CFSM | .69 | .78 | 1.39 | 1.45 | 1.89 | 1.94 | 1.55 | .58 | .61 | 3.11 | 2.64 | .43 |
| IN. | .79 | .87 | 1.60 | 1.67 | 1.97 | 2.24 | 1.73 | .67 | .68 | 3.59 | 3.04 | .48 |
| CAL YR 1978 | TOTAL | 2055.25 | MEAN 5.63 | MAX 156 | MIN .85 | CFSM 1.28 | IN 17.37 | | | | | |
| WTR YR 1979 | TOTAL | 2288.54 | MEAN 6.27 | MAX 143 | MIN .85 | CFSM 1.43 | IN 19.34 | | | | | |

03353180 BEAN CREEK AT INDIANAPOLIS, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN 2.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 13... | 1530 | 13.0 | 5.5 | 30 | .45 | -- | -- | -- | -- | -- | -- |
| 22... | 1700 | 16.0 | 1.2 | 24 | .08 | -- | -- | -- | -- | -- | -- |
| 27... | 1015 | 9.0 | 1.3 | 38 | .13 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 03... | 0845 | 12.0 | 1.7 | 17 | .08 | -- | -- | -- | -- | -- | -- |
| 09... | 1130 | 9.0 | 2.5 | 5 | .03 | -- | -- | -- | -- | -- | -- |
| 17... | 1500 | -- | 21 | 73 | 4.1 | -- | -- | -- | -- | -- | -- |
| 24... | 1530 | 5.0 | 1.9 | 48 | .25 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 01... | 1610 | 7.5 | 2.0 | 26 | .14 | -- | -- | -- | -- | -- | -- |
| 08... | 1200 | -- | 35 | 172 | 16 | -- | -- | -- | -- | -- | -- |
| 14... | 1100 | -- | 2.4 | 45 | .29 | -- | -- | -- | -- | -- | -- |
| 29... | 1215 | 2.0 | 2.1 | 8 | .05 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 05... | 1210 | .5 | 3.3 | 17 | .15 | -- | -- | -- | -- | -- | -- |
| 12... | 1500 | .5 | 2.4 | 50 | .32 | -- | -- | -- | -- | -- | -- |
| 18... | 1450 | .5 | 2.7 | 30 | .22 | -- | -- | -- | -- | -- | -- |
| 31... | 1215 | 1.5 | 2.6 | 46 | .32 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 09... | 1400 | .5 | 2.4 | 21 | .14 | -- | -- | -- | -- | -- | -- |
| 23... | 1020 | 1.0 | 157 | 320 | 136 | 84 | 93 | 100 | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 03... | 0830 | -- | 9.4 | 12 | .30 | -- | -- | -- | -- | -- | -- |
| 21... | 1400 | -- | 2.8 | 22 | .17 | -- | -- | -- | -- | -- | -- |
| 23... | 1540 | 13.5 | 15 | 99 | 4.0 | 91 | 100 | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 06... | 1130 | -- | 4.6 | 20 | .25 | -- | -- | -- | -- | -- | -- |
| 13... | 1030 | 13.0 | 8.1 | 38 | .83 | -- | -- | -- | -- | -- | -- |
| 20... | 1025 | -- | 3.8 | 26 | .27 | -- | -- | -- | -- | -- | -- |
| 27... | 0930 | 10.5 | 2.2 | 34 | .20 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 18... | 1030 | 17.0 | 2.0 | 66 | .36 | -- | -- | -- | -- | -- | -- |
| 25... | 1220 | -- | 2.5 | 26 | .18 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 01... | 1110 | 19.0 | 1.9 | 44 | .23 | -- | -- | -- | -- | -- | -- |
| 07... | 1545 | 22.0 | 54 | 951 | 139 | -- | -- | -- | -- | -- | -- |
| 08... | 0900 | 19.0 | 2.7 | 49 | .36 | -- | -- | -- | -- | -- | -- |
| 15... | 1030 | 20.0 | 1.0 | 30 | .08 | -- | -- | -- | -- | -- | -- |
| 29... | 0920 | 20.5 | 3.4 | 36 | .33 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 06... | 1025 | 19.0 | 1.2 | 9 | .03 | -- | -- | -- | -- | -- | -- |
| 13... | 1230 | -- | 355 | 395 | 379 | 87 | -- | -- | -- | -- | -- |
| 20... | 1145 | 20.5 | 1.9 | 35 | .18 | 85 | 88 | 91 | 94 | 100 | -- |
| 28... | 1035 | -- | 67 | 845 | 153 | 91 | 96 | 98 | 99 | 99 | 100 |
| AUG | | | | | | | | | | | |
| 03... | 1325 | 20.0 | 8.1 | 60 | 1.3 | 85 | 91 | 96 | 100 | -- | -- |
| 10... | 0920 | 23.0 | 3.0 | 91 | .74 | -- | -- | -- | -- | -- | -- |
| 10... | 1030 | -- | 3.0 | 91 | .74 | -- | -- | -- | -- | -- | -- |
| 17... | 1140 | -- | 3.0 | 97 | .79 | 76 | -- | -- | -- | -- | -- |
| 29... | 0930 | 21.0 | 11 | 89 | 2.6 | 63 | 87 | 100 | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 07... | 1450 | 21.5 | 2.2 | 148 | .88 | 88 | -- | -- | -- | -- | -- |
| 14... | 1115 | 18.0 | 1.9 | 31 | .16 | -- | -- | -- | -- | -- | -- |
| 21... | 1500 | 18.0 | 3.7 | 6 | .06 | -- | -- | -- | -- | -- | -- |
| 28... | 0920 | 18.0 | 1.5 | 34 | .14 | -- | -- | -- | -- | -- | -- |

03353200 EAGLE CREEK AT ZIONSVILLE, IN

LOCATION.--Lat 39°56'56", long 86°15'22", in SW¼NW¼ sec.1, T.17 N., R.2 E., Boone County, Hydrologic Unit 05120201, on downstream side of second pier from right bank of bridge on State Highway 334 at Zionsville, 200 ft (61 m) upstream from Long Branch, and at mile 24.7 (39.7 km).

DRAINAGE AREA.--103 mi² (267 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 816.85 ft (248.976 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, Jan. 2 to Feb. 24, which are fair.

AVERAGE DISCHARGE.--22 years, 98.5 ft³/s (2.789 m³/s), 12.99 in/yr (330 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft³/s (351 m³/s) Apr. 20, 1964, gage height, 14.64 ft (4.462 m); no flow at times during 1959, 1963-68, 1970, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.20 ft (5.852 m), from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | unknown | unknown | unknown | July 13 | 1500 | 4120 117 | 10.54 3.213 |
| Mar. 4 | 0400 | 4210 119 | 10.26 3.127 | July 26 | 1100 | 4790 136 | 11.03 3.362 |
| Apr. 12 | 0700 | 1610 45.6 | 7.01 2.137 | July 29 | 0100 | *5010 142 | *11.18 3.408 |

Minimum daily discharge, 2.9 ft³/s (0.08 m³/s) Oct. 10.

NOTE.--No gage-height record Jan. 2 to Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|-------|------|------|-------|---------|------|-------|
| 1 | 4.3 | 4.1 | 59 | 734 | 24 | 110 | 166 | 58 | 25 | 6.4 | 550 | 30 |
| 2 | 4.2 | 4.1 | 55 | 400 | 23 | 500 | 196 | 55 | 25 | 5.7 | 597 | 26 |
| 3 | 4.2 | 4.1 | 302 | 200 | 23 | 1500 | 159 | 64 | 21 | 5.1 | 289 | 23 |
| 4 | 4.3 | 4.1 | 371 | 100 | 22 | 3350 | 152 | 56 | 21 | 152 | 208 | 21 |
| 5 | 3.9 | 4.5 | 188 | 74 | 21 | 922 | 178 | 52 | 21 | 145 | 157 | 19 |
| 6 | 3.8 | 8.0 | 135 | 58 | 21 | 483 | 219 | 50 | 22 | 61 | 128 | 18 |
| 7 | 3.6 | 10 | 126 | 46 | 20 | 425 | 154 | 47 | 29 | 29 | 104 | 18 |
| 8 | 3.2 | 5.0 | 265 | 42 | 19 | 364 | 168 | 44 | 32 | 19 | 80 | 15 |
| 9 | 3.1 | 4.6 | 247 | 38 | 19 | 312 | 627 | 41 | 37 | 16 | 64 | 14 |
| 10 | 2.9 | 4.3 | 164 | 34 | 18 | 325 | 302 | 38 | 27 | 13 | 55 | 13 |
| 11 | 4.0 | 4.2 | 120 | 31 | 18 | 227 | 417 | 37 | 21 | 11 | 48 | 13 |
| 12 | 5.4 | 5.0 | 84 | 29 | 18 | 180 | 1050 | 44 | 18 | 9.1 | 41 | 14 |
| 13 | 26 | 22 | 78 | 29 | 17 | 152 | 425 | 44 | 18 | 2480 | 34 | 11 |
| 14 | 23 | 206 | 64 | 30 | 19 | 188 | 315 | 38 | 15 | 969 | 29 | 11 |
| 15 | 19 | 173 | 64 | 30 | 20 | 154 | 236 | 48 | 14 | 425 | 28 | 12 |
| 16 | 14 | 107 | 59 | 29 | 19 | 133 | 183 | 35 | 13 | 259 | 27 | 10 |
| 17 | 10 | 466 | 55 | 31 | 14 | 124 | 150 | 32 | 11 | 171 | 22 | 9.6 |
| 18 | 7.0 | 390 | 45 | 30 | 17 | 122 | 128 | 29 | 11 | 119 | 23 | 8.3 |
| 19 | 5.6 | 201 | 47 | 29 | 17 | 128 | 115 | 28 | 9.6 | 82 | 35 | 7.9 |
| 20 | 5.0 | 141 | 52 | 30 | 19 | 128 | 104 | 30 | 11 | 58 | 64 | 7.5 |
| 21 | 4.4 | 111 | 66 | 34 | 21 | 120 | 96 | 28 | 18 | 44 | 173 | 9.3 |
| 22 | 4.2 | 89 | 56 | 36 | 130 | 115 | 85 | 25 | 14 | 34 | 102 | 7.5 |
| 23 | 4.2 | 96 | 48 | 33 | 2500 | 262 | 82 | 24 | 9.1 | 28 | 67 | 8.3 |
| 24 | 4.3 | 100 | 44 | 40 | 1300 | 322 | 80 | 25 | 7.9 | 50 | 47 | 7.4 |
| 25 | 5.0 | 82 | 40 | 38 | 600 | 203 | 80 | 27 | 8.3 | 1050 | 34 | 7.1 |
| 26 | 8.0 | 74 | 36 | 35 | 200 | 148 | 80 | 24 | 6.1 | 3090 | 38 | 6.8 |
| 27 | 7.0 | 84 | 33 | 32 | 160 | 126 | 72 | 53 | 5.1 | 1600 | 44 | 7.7 |
| 28 | 4.6 | 82 | 30 | 30 | 120 | 131 | 74 | 45 | 4.8 | 2130 | 45 | 6.7 |
| 29 | 4.3 | 72 | 26 | 28 | --- | 198 | 66 | 32 | 4.6 | 2250 | 100 | 6.4 |
| 30 | 4.1 | 67 | 33 | 27 | --- | 198 | 64 | 25 | 5.7 | 500 | 64 | 6.4 |
| 31 | 4.1 | --- | 214 | 25 | --- | 183 | --- | 25 | --- | 305 | 44 | --- |
| TOTAL | 210.7 | 2625.0 | 3206 | 2382 | 5419 | 11833 | 6223 | 1203 | 485.2 | 16116.3 | 3341 | 374.9 |
| MEAN | 6.80 | 87.5 | 103 | 76.8 | 194 | 382 | 207 | 38.8 | 16.2 | 520 | 108 | 12.5 |
| MAX | 26 | 466 | 371 | 734 | 2500 | 3350 | 1050 | 64 | 37 | 3090 | 597 | 30 |
| MIN | 2.9 | 4.1 | 26 | 25 | 14 | 110 | 64 | 24 | 4.6 | 5.1 | 22 | 6.4 |
| CFSM | .07 | .85 | 1.00 | .75 | 1.88 | 3.71 | 2.01 | .38 | .16 | 5.05 | 1.05 | .12 |
| IN. | .08 | .95 | 1.16 | .86 | 1.96 | 4.27 | 2.25 | .43 | .18 | 5.82 | 1.21 | .14 |
| CAL YR 1978 | TOTAL | 37421.0 | MEAN | 103 | MAX | 2980 | MIN | 2.9 | CFSM | 1.00 | IN | 13.52 |
| WTR YR 1979 | TOTAL | 53419.1 | MEAN | 146 | MAX | 3350 | MIN | 2.9 | CFSM | 1.42 | IN | 19.29 |

03353200 EAGLE CREEK AT ZIONSVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| OCT 16... | 1100 | -- | 14 | 25 | 1.0 | -- | -- | -- | -- | -- |
| DEC 18... | 0940 | 2.0 | 44 | 14 | 1.6 | -- | -- | -- | -- | -- |
| JUL 13... | 1130 | -- | 2960 | 503 | 4020 | 97 | 98 | 99 | 100 | -- |
| 13... | 1715 | -- | 3980 | 207 | 2220 | 97 | 98 | 99 | 100 | -- |
| 26... | 1555 | -- | 3330 | 410 | 3690 | 99 | 100 | -- | -- | -- |
| AUG 02... | 1420 | -- | 500 | 67 | 90 | 94 | 97 | 98 | 99 | 100 |

03353450 EAGLE CREEK RESERVOIR NEAR INDIANAPOLIS, IN

LOCATION.--Lat 39°49'20", long 86°18'11", in NW¼NW¼ sec. 22, T.16 N., R.2 E., Marion County, Hydrologic Unit 05120201, 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 mi² (419 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) National Geodetic Vertical Datum of 1929.

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 hm³), elevation, 790.00 ft (240.792 m). Reservoir is used for flood control, low-flow maintenance, water supply, and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.--Water-stage recorder graph and capacity tables furnished by Indianapolis Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,350 acre-ft (33.7 hm³) June 26, 1978, elevation, 792.39 ft (241.520 m); minimum, 13,750 acre-ft (17.0 hm³) Nov. 28, 1971, elevation, 781.25 ft (238.125 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,910 acre-ft (30.7 hm³) July 25, elevation, 790.65 ft (240.990 m); minimum, 23,020 acre-ft (28.4 hm³) Nov. 13, elevation, 789.25 ft (240.563 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 789.62 | 23,510 | |
| Oct. 31..... | 789.49 | 23,340 | -170 |
| Nov. 30..... | 790.07 | 24,100 | +760 |
| Dec. 31..... | 790.10 | 24,140 | +40 |
| CAL YR 1978..... | | | +40 |
| Jan. 31..... | 790.00 | 24,000 | -140 |
| Feb. 28..... | 790.00 | 24,000 | 0 |
| Mar. 31..... | 789.98 | 23,970 | -30 |
| Apr. 30..... | 789.99 | 23,990 | +20 |
| May 31..... | 789.99 | 23,990 | 0 |
| June 30..... | 789.69 | 23,600 | -390 |
| July 31..... | 790.05 | 24,070 | +470 |
| Aug. 31..... | 790.06 | 24,080 | +10 |
| Sept. 30..... | 789.42 | 23,250 | -830 |
| WTR YR 1979..... | | | -260 |

03353500 EAGLE CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°46'33", long 86°15'01", in NW¼NW¼ sec.6, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank at downstream side of bridge on Lynhurst Drive, approximately 600 ft (183 m) south of intersection of West 10th Street and Lynhurst Drive, 0.5 mile (0.8 km) downstream from West 10th Street bridge, 1.0 mile (1.6 km) upstream from Vermont Street bridge, 3.0 miles (4.8 km) upstream from Little Eagle Creek, and 7.1 miles (11.4 km) from mouth.

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--November 1938 to current year.

REVISED RECORDS.--WSP 953: 1939. WSP 1625: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 699.00 ft (213.055 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records poor. Flow regulated since November 1969 by Eagle Creek Reservoir, 4.7 miles (7.6 km) upstream (See sta 03353450).

AVERAGE DISCHARGE.--40 years (1939 to current year), 156 ft³/s (4.418 m³/s), 12.18 in/yr (309 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s (816 m³/s) June 28, 1957, gage height, 23.59 ft (7.190 m), from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of a combined current-meter measurement and slope-area measurement; no flow for several days in August 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 23.2 ft (7.07 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,800 ft³/s (193 m³/s) July 29, gage height, 9.43 ft (2.874 m); minimum daily, 12 ft³/s (0.34 m³/s) Oct. 25-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|------|------|-------|------|------|
| 1 | 15 | 15 | 80 | 1200 | 48 | 366 | 376 | 63 | 35 | 15 | 900 | 27 |
| 2 | 16 | 14 | 108 | 719 | 55 | 767 | 408 | 174 | 17 | 15 | 1100 | 26 |
| 3 | 16 | 15 | 633 | 595 | 25 | 1490 | 303 | 238 | 16 | 15 | 478 | 26 |
| 4 | 15 | 16 | 891 | 342 | 112 | 4290 | 360 | 72 | 16 | 38 | 350 | 23 |
| 5 | 16 | 17 | 537 | 260 | 56 | 1450 | 407 | 65 | 16 | 17 | 290 | 23 |
| 6 | 16 | 17 | 434 | 154 | 23 | 931 | 399 | 188 | 15 | 14 | 200 | 22 |
| 7 | 15 | 19 | 298 | 168 | 21 | 932 | 333 | 60 | 80 | 14 | 165 | 20 |
| 8 | 16 | 19 | 604 | 162 | 20 | 824 | 383 | 170 | 200 | 29 | 71 | 21 |
| 9 | 16 | 18 | 709 | 216 | 144 | 766 | 946 | 63 | 150 | 50 | 62 | 21 |
| 10 | 14 | 18 | 448 | 92 | 41 | 816 | 649 | 60 | 30 | 19 | 73 | 21 |
| 11 | 37 | 18 | 191 | 179 | 17 | 491 | 746 | 100 | 19 | 19 | 42 | 20 |
| 12 | 41 | 18 | 193 | 43 | 14 | 432 | 1380 | 40 | 18 | 19 | 30 | 19 |
| 13 | 80 | 18 | 152 | 147 | 16 | 448 | 945 | 150 | 18 | 2790 | 28 | 21 |
| 14 | 30 | 28 | 190 | 35 | 105 | 556 | 688 | 120 | 18 | 2220 | 27 | 25 |
| 15 | 24 | 77 | 52 | 212 | 15 | 446 | 620 | 50 | 16 | 587 | 26 | 20 |
| 16 | 20 | 150 | 188 | 71 | 23 | 305 | 401 | 20 | 16 | 300 | 25 | 19 |
| 17 | 18 | 836 | 125 | 28 | 31 | 345 | 427 | 18 | 15 | 140 | 25 | 19 |
| 18 | 17 | 688 | 26 | 111 | 80 | 266 | 257 | 150 | 15 | 46 | 34 | 19 |
| 19 | 16 | 381 | 134 | 99 | 133 | 399 | 252 | 40 | 15 | 45 | 213 | 18 |
| 20 | 16 | 246 | 184 | 152 | 26 | 335 | 206 | 45 | 20 | 23 | 264 | 18 |
| 21 | 19 | 174 | 103 | 122 | 28 | 242 | 246 | 20 | 17 | 13 | 555 | 20 |
| 22 | 16 | 218 | 117 | 48 | 315 | 253 | 239 | 17 | 15 | 21 | 186 | 18 |
| 23 | 16 | 85 | 140 | 135 | 1650 | 642 | 161 | 16 | 15 | 13 | 139 | 18 |
| 24 | 13 | 220 | 137 | 166 | 2180 | 715 | 229 | 16 | 15 | 80 | 88 | 18 |
| 25 | 12 | 56 | 93 | 99 | 1050 | 514 | 205 | 18 | 14 | 1500 | 73 | 18 |
| 26 | 12 | 128 | 73 | 143 | 557 | 269 | 291 | 16 | 14 | 5000 | 107 | 18 |
| 27 | 12 | 148 | 69 | 143 | 496 | 339 | 88 | 25 | 14 | 2900 | 104 | 18 |
| 28 | 12 | 99 | 42 | 56 | 343 | 298 | 151 | 150 | 14 | 3300 | 128 | 18 |
| 29 | 12 | 152 | 122 | 65 | --- | 364 | 128 | 40 | 22 | 4230 | 142 | 18 |
| 30 | 13 | 94 | 27 | 34 | --- | 411 | 157 | 20 | 17 | 840 | 91 | 18 |
| 31 | 14 | --- | 613 | 107 | --- | 341 | --- | 100 | --- | 500 | 37 | --- |
| TOTAL | 605 | 4002 | 7713 | 6103 | 7624 | 21043 | 12381 | 2324 | 902 | 24812 | 6053 | 610 |
| MEAN | 19.5 | 133 | 249 | 197 | 272 | 679 | 413 | 75.0 | 30.1 | 800 | 195 | 20.3 |
| MAX | 80 | 836 | 891 | 1200 | 2180 | 4290 | 1380 | 238 | 200 | 5000 | 1100 | 27 |
| MIN | 12 | 14 | 26 | 28 | 14 | 242 | 88 | 16 | 14 | 13 | 25 | 18 |
| CFSM | .11 | .76 | 1.43 | 1.13 | 1.56 | 3.90 | 2.37 | .43 | .17 | 4.60 | 1.12 | .12 |
| IN. | .13 | .86 | 1.65 | 1.30 | 1.63 | 4.50 | 2.65 | .50 | .19 | 5.30 | 1.29 | .13 |

CAL YR 1978 TOTAL 86070 MEAN 236 MAX 7360 MIN 12 CFSM 1.36 IN 18.40
WTR YR 1979 TOTAL 94172 MEAN 258 MAX 5000 MIN 12 CFSM 1.48 IN 20.13

03353600 LITTLE EAGLE CREEK AT SPEEDWAY, IN

LOCATION.--Lat 39°47'15", long 86°13'41", in NE¼SW¼ sec.32, T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank at downstream side of 16th Street bridge in Speedway, 0.6 mile (1.0 km) upstream from Dry Run, and 2.3 miles (3.7 km) upstream from mouth.

DRAINAGE AREA.--23.9 mi² (61.9 km²) including 5.57 mi² (14.43 km²) from Dry Run basin. Since June 1964 part of the flow from the 5.57 mi² (14.43 km²) of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.--October 1959 to current year. Figures of runoff for June 1964 to September 1966 have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 707.82 ft (215.744 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to June 13, 1975, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records poor. High-water flow is diverted from Dry Run basin into Little Eagle Creek above gage.

AVERAGE DISCHARGE.--15 years (water years 1965 to current year) 20.5 ft³/s (0.581 m³/s), 11.65 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,330 ft³/s (94.3 m³/s) June 28, 1979, gage height, 12.13 ft (3.697 m); no flow at times in 1960-64, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 450 ft³/s (12.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 31 | 2230 | 590 16.7 | 5.78 1.762 | July 26 | 2145 | 1210 34.3 | 7.55 2.301 |
| Feb. 23 | unknown | 1000 28.3 | unknown | July 28 | 1715 | *3330 94.3 | *12.13 3.697 |
| Mar. 4 | unknown | 886 25.1 | unknown | Aug. 1 | 2015 | 1670 47.3 | 8.80 2.682 |
| Apr. 12 | unknown | 729 20.6 | unknown | Aug. 20 | 2015 | 623 17.6 | 5.71 1.740 |
| July 13 | 0945 | 1700 48.1 | 8.81 2.685 | | | | |

Minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|--------|--------|-------|-------|--------|--------|-------|
| 1 | 4.6 | 1.5 | 4.2 | 300 | 6.6 | 60 | 54 | 2.9 | 10 | 4.6 | 315 | 8.6 |
| 2 | 3.5 | 1.5 | 5.4 | 35 | 6.4 | 120 | 58 | 4.4 | 3.7 | 3.0 | 250 | 6.9 |
| 3 | 4.0 | 1.4 | 123 | 18 | 9.0 | 350 | 40 | 18 | 2.7 | 7.2 | 32 | 6.0 |
| 4 | 3.5 | 1.3 | 45 | 12 | 7.5 | 650 | 32 | 7.0 | 2.3 | 50 | 22 | 5.4 |
| 5 | 4.3 | 1.3 | 16 | 9.0 | 6.0 | 140 | 30 | 10 | 1.9 | 9.3 | 18 | 4.9 |
| 6 | 2.6 | 2.5 | 13 | 8.4 | 8.0 | 91 | 33 | 4.1 | 1.9 | 5.8 | 15 | 4.4 |
| 7 | 1.7 | 3.9 | 20 | 7.9 | 6.5 | 72 | 20 | 3.5 | 50 | 4.4 | 13 | 3.8 |
| 8 | 1.3 | 3.1 | 93 | 7.6 | 6.2 | 61 | 49 | 2.9 | 24 | 3.6 | 12 | 3.6 |
| 9 | 1.0 | 2.4 | 40 | 7.2 | 6.0 | 50 | 140 | 2.4 | 15 | 8.3 | 11 | 3.6 |
| 10 | 1.0 | 2.1 | 19 | 6.9 | 5.9 | 47 | 69 | 2.3 | 11 | 4.2 | 12 | 3.4 |
| 11 | 19 | 1.9 | 15 | 6.6 | 5.8 | 23 | 155 | 2.4 | 4.9 | 3.5 | 13 | 3.4 |
| 12 | 27 | 1.8 | 13 | 6.4 | 5.9 | 17 | 315 | 17 | 9.6 | 9.4 | 11 | 3.4 |
| 13 | 153 | 1.7 | 12 | 8.0 | 6.0 | 18 | 58 | 7.4 | 7.0 | 903 | 10 | 4.2 |
| 14 | 20 | 80 | 11 | 17 | 6.4 | 26 | 46 | 13 | 1.6 | 106 | 9.3 | 6.6 |
| 15 | 11 | 17 | 9.6 | 11 | 11 | 13 | 28 | 10 | 2.5 | 43 | 8.4 | 4.0 |
| 16 | 7.1 | 8.9 | 8.5 | 10 | 7.0 | 11 | 17 | 6.9 | 2.7 | 24 | 7.8 | 3.4 |
| 17 | 3.3 | 140 | 7.5 | 23 | 5.8 | 10 | 13 | 5.5 | 14 | 11 | 7.5 | 3.4 |
| 18 | 2.5 | 50 | 6.3 | 13 | 5.4 | 9.6 | 9.8 | 4.3 | 5.9 | 7.8 | 7.9 | 3.2 |
| 19 | 2.1 | 26 | 8.9 | 11 | 5.2 | 14 | 7.8 | 3.6 | 3.8 | 6.4 | 62 | 3.2 |
| 20 | 1.8 | 16 | 24 | 14 | 4.8 | 11 | 7.0 | 4.0 | 5.5 | 5.4 | 207 | 3.4 |
| 21 | 1.6 | 9.7 | 25 | 18 | 21 | 9.6 | 5.7 | 3.2 | 9.0 | 4.6 | 122 | 3.8 |
| 22 | 1.5 | 7.8 | 13 | 11 | 100 | 8.8 | 4.4 | 2.8 | 6.0 | 4.1 | 32 | 3.2 |
| 23 | 1.7 | 11 | 9.6 | 10 | 500 | 82 | 3.7 | 4.7 | 4.4 | 8.8 | 24 | 3.0 |
| 24 | 1.4 | 8.5 | 9.4 | 30 | 110 | 56 | 5.0 | 12 | 6.8 | 71 | 22 | 3.0 |
| 25 | 3.1 | 6.1 | 8.4 | 18 | 50 | 33 | 5.7 | 7.0 | 4.8 | 76 | 14 | 3.0 |
| 26 | 7.4 | 6.4 | 7.5 | 14 | 32 | 22 | 5.0 | 12 | 3.3 | 266 | 27 | 3.0 |
| 27 | 4.3 | 8.9 | 7.4 | 11 | 24 | 16 | 7.0 | 55 | 1.3 | 75 | 23 | 2.8 |
| 28 | 2.6 | 7.4 | 6.8 | 9.0 | 21 | 26 | 10 | 23 | 2.5 | 759 | 18 | 2.8 |
| 29 | 1.9 | 5.4 | 6.1 | 8.4 | --- | 37 | 4.7 | 9.0 | 23 | 323 | 33 | 2.6 |
| 30 | 1.7 | 4.6 | 11 | 7.5 | --- | 42 | 4.4 | 6.0 | 10 | 33 | 16 | 2.6 |
| 31 | 1.6 | --- | 212 | 7.0 | --- | 71 | --- | 5.5 | --- | 20 | 11 | --- |
| TOTAL | 303.1 | 440.1 | 810.6 | 675.9 | 989.4 | 2197.0 | 1237.2 | 271.8 | 251.1 | 2860.4 | 1385.9 | 118.6 |
| MEAN | 9.78 | 14.7 | 26.1 | 21.8 | 35.3 | 70.9 | 41.2 | 8.77 | 8.37 | 92.3 | 44.7 | 3.95 |
| MAX | 153 | 140 | 212 | 300 | 500 | 650 | 315 | 55 | 50 | 903 | 315 | 8.6 |
| MIN | 1.0 | 1.3 | 4.2 | 6.4 | 4.8 | 8.8 | 3.7 | 2.3 | 1.3 | 3.0 | 7.5 | 2.6 |
| CFSM | .41 | .62 | 1.09 | .91 | 1.48 | 2.97 | 1.72 | .37 | .35 | 3.86 | 1.87 | .17 |
| IN. | .47 | .68 | 1.26 | 1.05 | 1.54 | 3.42 | 1.93 | .42 | .39 | 4.45 | 2.16 | .18 |
| CAL YR 1978 | TOTAL | 10847.2 | MEAN | 29.7 | MAX | 1300 | MIN | 1.0 | CFSM | 1.24 | IN | 16.88 |
| WTR YR 1979 | TOTAL | 11541.1 | MEAN | 31.6 | MAX | 903 | MIN | 1.0 | CFSM | 1.32 | IN | 17.96 |

03353620 LICK CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°42'21", long 86°06'13", in NE¼NE¼ sec.32, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on left bank at upstream side of Sherman Drive bridge in Indianapolis, and at mile 6.2 (10.0 km).

DRAINAGE AREA.--15.6 mi² (40.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 742.00 ft (226.162 m) National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

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

AVERAGE DISCHARGE.--9 years, 20.3 ft³/s (0.575 m³/s), 17.67 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft³/s (70.8 m³/s) June 25, 1978, gage height, 9.61 ft (2.929 m); minimum daily, 0.49 ft³/s (0.014 m³/s) Oct. 9, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Dec. 31 | 2215 | 513 | 14.5 | 5.05 | 1.539 | July 13 | 0900 | 1780 | 50.4 | 7.96 | 2.426 |
| Jan. 21 | 0945 | 493 | 14.0 | 4.98 | 1.518 | July 24 | 0715 | 337 | 9.54 | 4.06 | 1.237 |
| Jan. 24 | 0130 | 348 | 9.86 | 4.45 | 1.356 | July 28 | 1430 | 1730 | 49.0 | 7.83 | 2.386 |
| Feb. 23 | 0115 | 1290 | 36.5 | 6.71 | 2.045 | Aug. 1 | 1645 | *1840 | 52.1 | *8.10 | 2.469 |
| Mar. 4 | 0915 | 759 | 21.5 | 5.19 | 1.582 | Aug. 19 | 0415 | 484 | 13.7 | 4.46 | 1.359 |
| Apr. 12 | 0230 | 514 | 14.6 | 4.54 | 1.384 | Aug. 28 | 1615 | 456 | 12.9 | 4.39 | 1.338 |

Minimum daily discharge, 0.49 ft³/s (0.014 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|--------|--------|-------|
| 1 | .93 | 1.6 | 1.8 | 100 | 5.0 | 32 | 28 | 4.0 | 2.4 | 2.1 | 496 | 13 |
| 2 | 1.1 | 2.9 | 2.3 | 42 | 5.4 | 64 | 27 | 4.7 | 1.7 | 1.5 | 211 | 10 |
| 3 | 1.4 | 1.6 | 88 | 18 | 5.8 | 162 | 17 | 16 | 1.5 | 2.6 | 66 | 9.2 |
| 4 | 1.2 | 1.6 | 52 | 8.4 | 5.1 | 286 | 17 | 6.4 | 1.4 | 32 | 38 | 7.3 |
| 5 | 1.5 | 1.5 | 21 | 7.0 | 4.9 | 102 | 14 | 4.7 | 1.1 | 5.5 | 24 | 6.7 |
| 6 | .92 | 1.4 | 14 | 6.3 | 5.2 | 51 | 11 | 4.2 | 1.1 | 3.1 | 19 | 6.1 |
| 7 | 1.6 | 3.5 | 22 | 5.8 | 5.8 | 36 | 9.2 | 3.7 | 22 | 3.5 | 15 | 5.5 |
| 8 | .62 | 3.3 | 98 | 5.4 | 5.2 | 27 | 16 | 3.3 | 12 | 2.3 | 12 | 4.4 |
| 9 | .49 | 2.0 | 47 | 5.1 | 4.9 | 22 | 47 | 3.1 | 18 | 43 | 10 | 4.2 |
| 10 | .68 | 1.6 | 21 | 4.9 | 4.8 | 21 | 20 | 2.9 | 4.7 | 28 | 12 | 4.0 |
| 11 | 8.2 | 1.5 | 13 | 4.7 | 5.0 | 15 | 126 | 3.5 | 3.5 | 7.7 | 15 | 4.4 |
| 12 | 13 | 1.3 | 10 | 4.6 | 5.2 | 11 | 209 | 24 | 9.2 | 8.1 | 8.8 | 3.5 |
| 13 | 116 | 1.4 | 9.4 | 4.5 | 5.4 | 12 | 97 | 9.2 | 6.1 | 539 | 7.3 | 3.5 |
| 14 | 18 | 22 | 7.6 | 13 | 4.8 | 14 | 79 | 5.2 | 2.6 | 88 | 7.0 | 4.7 |
| 15 | 9.3 | 5.6 | 7.2 | 4.9 | 27 | 9.6 | 36 | 13 | 1.6 | 60 | 6.7 | 4.0 |
| 16 | 5.4 | 3.2 | 6.6 | 5.6 | 6.7 | 8.4 | 24 | 5.5 | 1.3 | 22 | 6.4 | 3.3 |
| 17 | 3.2 | 115 | 5.7 | 11 | 5.6 | 8.1 | 19 | 2.8 | 11 | 12 | 6.1 | 3.3 |
| 18 | 2.0 | 36 | 5.7 | 20 | 5.2 | 8.1 | 15 | 2.3 | 11 | 8.4 | 9.2 | 3.3 |
| 19 | 1.6 | 15 | 6.5 | 5.0 | 4.9 | 8.8 | 11 | 2.3 | 3.1 | 6.1 | 94 | 3.3 |
| 20 | 3.1 | 8.9 | 34 | 19 | 4.8 | 8.8 | 9.2 | 2.6 | 2.1 | 5.2 | 99 | 3.1 |
| 21 | 2.2 | 6.5 | 35 | 272 | 180 | 7.7 | 8.1 | 1.8 | 1.8 | 4.7 | 81 | 4.4 |
| 22 | 1.5 | 5.0 | 16 | 95 | 486 | 7.0 | 7.3 | 1.6 | 1.5 | 4.2 | 31 | 4.0 |
| 23 | 1.6 | 5.9 | 11 | 35 | 572 | 43 | 6.7 | 1.5 | 1.3 | 17 | 21 | 2.9 |
| 24 | 2.8 | 4.4 | 12 | 237 | 105 | 28 | 6.7 | 2.0 | 1.6 | 108 | 14 | 2.6 |
| 25 | 2.5 | 3.1 | 10 | 28 | 23 | 16 | 7.0 | 2.9 | 1.4 | 39 | 11 | 2.6 |
| 26 | 7.1 | 3.3 | 8.2 | 7.2 | 18 | 11 | 6.4 | 3.1 | .98 | 22 | 50 | 2.6 |
| 27 | 3.2 | 4.7 | 8.2 | 6.4 | 16 | 8.8 | 6.7 | 17 | .90 | 16 | 33 | 2.8 |
| 28 | 2.2 | 4.8 | 5.8 | 6.0 | 14 | 15 | 8.4 | 3.5 | .90 | 645 | 135 | 2.8 |
| 29 | 1.7 | 2.5 | 5.6 | 5.6 | --- | 21 | 4.9 | 2.0 | 12 | 201 | 91 | 2.8 |
| 30 | 1.5 | 2.2 | 12 | 5.4 | --- | 32 | 5.5 | 1.6 | 11 | 88 | 31 | 2.8 |
| 31 | 1.5 | --- | 196 | 5.1 | --- | 43 | --- | 5.2 | --- | 53 | 17 | --- |
| TOTAL | 218.04 | 273.3 | 792.6 | 997.9 | 1540.7 | 1139.3 | 899.1 | 165.6 | 150.78 | 2078.0 | 1677.5 | 137.1 |
| MEAN | 7.03 | 9.11 | 25.6 | 32.2 | 55.0 | 36.8 | 30.0 | 5.34 | 5.03 | 67.0 | 54.1 | 4.57 |
| MAX | 116 | 115 | 196 | 272 | 572 | 286 | 209 | 24 | 22 | 645 | 496 | 13 |
| MIN | .49 | 1.3 | 1.8 | 4.5 | 4.8 | 7.0 | 4.9 | 1.5 | .90 | 1.5 | 6.1 | 2.6 |
| CFSM | .45 | .58 | 1.64 | 2.06 | 3.53 | 2.36 | 1.92 | .34 | .32 | 4.30 | 3.47 | .29 |
| IN. | .52 | .65 | 1.89 | 2.38 | 3.67 | 2.72 | 2.14 | .39 | .36 | 4.95 | 4.00 | .33 |

CAL YR 1978 TOTAL 8412.44 MEAN 23.0 MAX 854 MIN .49 CFSM 1.47 IN 20.06
WTR YR 1979 TOTAL 10069.92 MEAN 27.6 MAX 645 MIN .49 CFSM 1.77 IN 24.01

WABASH RIVER BASIN

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN

LOCATION.--Lat 39°45'36", long 86°30'47", in NW¼NE¼ sec.10, T.15 N., R.1 W., Hendricks County, Hydrologic Unit 05120201, 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 mi² (74.6 km²).

PERIOD OF RECORD.--May 1958 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 828.83 ft (252.627 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records good except those for winter periods, which are fair. Low flow affected by releases from Danville Filtration Plant.

AVERAGE DISCHARGE.--21 years, 29.6 ft³/s (0.838 m³/s), 13.96 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,330 ft³/s (94.3 m³/s) July 14, 1962, gage height, 12.13 ft (3.697 m) July 13, 1979; no flow at times during 1961-67, 1970, 1971, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 16.0 ft (4.88 m), from flood-marks, discharge, 6,660 ft³/s (189 m³/s), from contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Mar. 4 | 0830 | 1260 | 35.7 | 7.49 | 2.283 | July 28 | 1645 | 1420 | 40.2 | 8.03 | 2.448 |
| July 13 | unknown | *3040 | 86.1 | *12.13 | 3.697 | Aug. 1 | 1600 | 1030 | 29.2 | 6.72 | 2.048 |

Minimum daily discharge, no flow Oct. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|-------|--------|------|------|-------|-------|--------|--------|-------|
| 1 | .17 | .94 | 13 | 238 | 8.2 | 36 | 57 | 11 | 5.1 | 8.5 | 354 | 28 |
| 2 | .15 | .45 | 11 | 85 | 8.0 | 90 | 66 | 12 | 4.1 | 4.1 | 232 | 23 |
| 3 | .11 | .40 | 123 | 45 | 7.8 | 250 | 49 | 15 | 3.9 | 3.3 | 94 | 19 |
| 4 | .08 | 1.0 | 119 | 30 | 7.6 | 832 | 46 | 15 | 5.9 | 48 | 61 | 16 |
| 5 | .08 | .45 | 64 | 23 | 7.4 | 236 | 41 | 10 | 5.9 | 20 | 42 | 14 |
| 6 | .06 | .40 | 45 | 19 | 7.1 | 126 | 34 | 10 | 5.9 | 10 | 36 | 13 |
| 7 | .04 | .64 | 48 | 16 | 6.9 | 112 | 31 | 9.0 | 8.1 | 7.2 | 28 | 11 |
| 8 | .00 | .58 | 101 | 15 | 6.7 | 95 | 50 | 8.5 | 8.1 | 3.9 | 21 | 10 |
| 9 | .00 | .54 | 76 | 13 | 6.5 | 81 | 115 | 8.1 | 6.8 | 3.9 | 17 | 8.5 |
| 10 | .00 | .54 | 45 | 12 | 6.3 | 72 | 62 | 7.6 | 5.9 | 3.3 | 16 | 8.1 |
| 11 | .31 | .49 | 33 | 11 | 6.1 | 53 | 113 | 8.1 | 5.5 | 2.5 | 15 | 7.6 |
| 12 | 1.0 | .80 | 28 | 10 | 6.0 | 38 | 325 | 10 | 5.5 | 3.5 | 12 | 6.8 |
| 13 | 35 | .64 | 24 | 10 | 6.4 | 37 | 114 | 8.5 | 3.3 | 1380 | 11 | 6.8 |
| 14 | 21 | 44 | 20 | 11 | 7.1 | 34 | 76 | 7.2 | 2.7 | 354 | 10 | 6.8 |
| 15 | 11 | 30 | 19 | 11 | 7.0 | 32 | 58 | 9.5 | 2.5 | 156 | 8.5 | 5.9 |
| 16 | 5.5 | 14 | 17 | 10 | 6.0 | 28 | 44 | 7.2 | 1.8 | 106 | 7.6 | 5.1 |
| 17 | 2.0 | 149 | 14 | 10 | 5.0 | 23 | 35 | 6.4 | 2.2 | 79 | 6.8 | 4.7 |
| 18 | 1.4 | 114 | 16 | 11 | 5.9 | 21 | 28 | 5.9 | 1.7 | 65 | 46 | 4.7 |
| 19 | 1.2 | 67 | 12 | 10 | 6.0 | 25 | 25 | 5.9 | 1.6 | 54 | 129 | 4.7 |
| 20 | 1.0 | 49 | 28 | 9.8 | 6.3 | 26 | 23 | 7.2 | 5.1 | 47 | 170 | 4.1 |
| 21 | 1.2 | 39 | 55 | 14 | 7.4 | 24 | 21 | 5.1 | 4.7 | 41 | 157 | 4.3 |
| 22 | .75 | 32 | 34 | 13 | 70 | 25 | 19 | 4.7 | 2.5 | 38 | 79 | 4.1 |
| 23 | .64 | 31 | 24 | 11 | 420 | 121 | 18 | 4.7 | 1.8 | 35 | 52 | 3.7 |
| 24 | .58 | 28 | 23 | 15 | 280 | 99 | 18 | 4.7 | 2.0 | 55 | 35 | 2.2 |
| 25 | 1.4 | 23 | 19 | 13 | 130 | 61 | 19 | 4.7 | 1.3 | 92 | 24 | 2.2 |
| 26 | 1.3 | 21 | 16 | 11 | 68 | 42 | 18 | 4.7 | 1.0 | 100 | 66 | 2.2 |
| 27 | .94 | 20 | 14 | 10 | 48 | 32 | 16 | 9.0 | 1.0 | 72 | 89 | 2.0 |
| 28 | .69 | 17 | 12 | 9.7 | 36 | 35 | 15 | 5.5 | 1.0 | 614 | 100 | 2.0 |
| 29 | .58 | 16 | 11 | 9.2 | --- | 51 | 14 | 4.1 | 16 | 415 | 130 | 2.0 |
| 30 | .49 | 15 | 13 | 8.7 | --- | 65 | 13 | 3.9 | 27 | 220 | 63 | 2.0 |
| 31 | .49 | --- | 135 | 8.4 | --- | 63 | --- | 5.9 | --- | 100 | 39 | --- |
| TOTAL | 89.16 | 716.87 | 1212 | 722.8 | 1193.7 | 2865 | 1563 | 239.1 | 149.9 | 4141.2 | 2150.9 | 234.5 |
| MEAN | 2.88 | 23.9 | 39.1 | 23.3 | 42.6 | 92.4 | 52.1 | 7.71 | 5.00 | 134 | 69.4 | 7.82 |
| MAX | 35 | 149 | 135 | 238 | 420 | 832 | 325 | 15 | 27 | 1380 | 354 | 28 |
| MIN | .00 | .40 | 11 | 8.4 | 5.0 | 21 | 13 | 3.9 | 1.0 | 2.5 | 6.8 | 2.0 |
| CFSM | .10 | .83 | 1.36 | .81 | 1.48 | 3.21 | 1.81 | .27 | .17 | 4.65 | 2.41 | .27 |
| IN. | .12 | .93 | 1.57 | .93 | 1.54 | 3.70 | 2.02 | .31 | .19 | 5.35 | 2.78 | .30 |
| CAL YR 1978 | TOTAL | 12301.63 | MEAN | 33.7 | MAX | 1310 | MIN | .00 | CFSM | 1.17 | IN | 15.89 |
| WTR YR 1979 | TOTAL | 15278.13 | MEAN | 41.9 | MAX | 1380 | MIN | .00 | CFSM | 1.46 | IN | 19.73 |

03353800 WHITE LICK CREEK AT MOORESVILLE, IN

LOCATION.--Lat 39°36'28", long 86°22'56", in NE¼SE¼ sec.35, T.14 N., R.1 E., Morgan County, Hydrologic Unit 05120201, on right bank at upstream side of bridge on State Highway 42 at Mooresville, 0.9 mile (1.4 km) downstream from McCracken Creek, 2.0 miles (3.2 km) upstream from East Fork White Lick Creek, and at mile 11.4 (18.3 km).

DRAINAGE AREA.--212 mi² (549 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 644.64 ft (196.486 m) National Geodetic Vertical Datum of 1929. Dec. 10, 1963 to Sept. 30, 1964, nonrecording gage at bridge 1,950 ft (594 m) upstream at datum 1.39 ft (0.424 m) higher.

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

AVERAGE DISCHARGE.--22 years, 224 ft³/s (6.344 m³/s), 14.35 in/yr (364 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s (538 m³/s) July 13, 1979, gage height, 23.31 ft (7.105 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Dec. 24, 25, 1960, Sept. 2, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 22.5 ft (6.86 m), from levels to high-water mark by State of Indiana, Department of Natural Resources.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0300 | 3520 99.7 | 16.60 5.060 | July 13 | 1800 | *19000 538 | *23.31 7.105 |
| Feb. 23 | 2000 | 6660 189 | 20.01 6.099 | July 29 | 0100 | 9330 264 | 21.86 6.663 |
| Mar. 4 | 1600 | 7880 223 | 20.64 6.291 | Aug. 2 | 0100 | 8780 249 | 21.64 6.596 |
| Apr. 12 | 0700 | 5120 145 | 18.55 5.654 | Aug. 21 | 0100 | 3110 88 | 16.45 5.014 |

Minimum daily discharge, 37 ft³/s (1.05 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|------|------|-------|-------|------|
| 1 | 56 | 58 | 87 | 2500 | 85 | 376 | 520 | 136 | 102 | 141 | 2160 | 182 |
| 2 | 54 | 57 | 84 | 937 | 82 | 946 | 656 | 129 | 83 | 74 | 3710 | 151 |
| 3 | 54 | 57 | 431 | 402 | 80 | 2210 | 456 | 148 | 73 | 54 | 802 | 132 |
| 4 | 56 | 57 | 802 | 290 | 79 | 6960 | 387 | 137 | 67 | 471 | 478 | 117 |
| 5 | 54 | 57 | 390 | 233 | 77 | 2880 | 387 | 126 | 65 | 134 | 336 | 105 |
| 6 | 54 | 56 | 259 | 200 | 74 | 1150 | 335 | 116 | 62 | 82 | 274 | 97 |
| 7 | 53 | 57 | 235 | 170 | 72 | 1070 | 295 | 112 | 97 | 62 | 229 | 90 |
| 8 | 53 | 57 | 696 | 150 | 70 | 866 | 290 | 104 | 148 | 53 | 194 | 82 |
| 9 | 52 | 56 | 645 | 140 | 68 | 716 | 988 | 100 | 166 | 53 | 168 | 77 |
| 10 | 52 | 56 | 302 | 130 | 68 | 645 | 593 | 97 | 93 | 50 | 152 | 72 |
| 11 | 64 | 56 | 216 | 125 | 68 | 465 | 956 | 93 | 76 | 43 | 158 | 69 |
| 12 | 71 | 54 | 184 | 120 | 68 | 370 | 3220 | 102 | 70 | 43 | 136 | 66 |
| 13 | 390 | 54 | 169 | 125 | 67 | 343 | 1120 | 104 | 67 | 4830 | 119 | 64 |
| 14 | 222 | 103 | 148 | 130 | 67 | 390 | 756 | 90 | 67 | 3650 | 110 | 64 |
| 15 | 131 | 190 | 137 | 125 | 66 | 338 | 533 | 92 | 63 | 1030 | 104 | 60 |
| 16 | 102 | 118 | 131 | 115 | 65 | 292 | 404 | 89 | 59 | 532 | 97 | 58 |
| 17 | 85 | 589 | 121 | 110 | 54 | 268 | 333 | 82 | 58 | 320 | 92 | 55 |
| 18 | 76 | 728 | 124 | 110 | 59 | 259 | 283 | 77 | 60 | 227 | 91 | 52 |
| 19 | 72 | 335 | 110 | 105 | 62 | 264 | 250 | 76 | 60 | 170 | 651 | 50 |
| 20 | 68 | 222 | 137 | 110 | 64 | 266 | 226 | 74 | 73 | 137 | 1190 | 48 |
| 21 | 66 | 173 | 266 | 140 | 80 | 248 | 212 | 73 | 106 | 119 | 1910 | 49 |
| 22 | 63 | 142 | 194 | 120 | 600 | 230 | 196 | 70 | 75 | 107 | 640 | 48 |
| 23 | 64 | 134 | 156 | 110 | 4300 | 732 | 186 | 68 | 70 | 97 | 378 | 45 |
| 24 | 61 | 132 | 144 | 150 | 3100 | 862 | 184 | 68 | 58 | 139 | 259 | 43 |
| 25 | 60 | 113 | 137 | 130 | 1150 | 513 | 184 | 75 | 54 | 268 | 240 | 42 |
| 26 | 62 | 107 | 116 | 120 | 554 | 362 | 180 | 70 | 52 | 298 | 207 | 41 |
| 27 | 63 | 109 | 99 | 110 | 465 | 305 | 169 | 90 | 51 | 355 | 343 | 40 |
| 28 | 62 | 106 | 89 | 100 | 351 | 295 | 169 | 83 | 49 | 2820 | 819 | 39 |
| 29 | 60 | 98 | 93 | 96 | --- | 384 | 153 | 76 | 259 | 5020 | 903 | 38 |
| 30 | 59 | 93 | 100 | 92 | --- | 540 | 146 | 72 | 335 | 1650 | 385 | 37 |
| 31 | 58 | --- | 772 | 88 | --- | 720 | --- | 78 | --- | 658 | 241 | --- |
| TOTAL | 2497 | 4224 | 7574 | 7583 | 11995 | 26265 | 14767 | 2907 | 2718 | 23687 | 17576 | 2113 |
| MEAN | 80.5 | 141 | 244 | 245 | 428 | 847 | 492 | 93.8 | 90.6 | 764 | 567 | 70.4 |
| MAX | 390 | 728 | 802 | 2500 | 4300 | 6960 | 3220 | 148 | 335 | 5020 | 3710 | 182 |
| MIN | 52 | 54 | 84 | 88 | 54 | 230 | 146 | 68 | 49 | 43 | 91 | 37 |
| CFSM | .38 | .67 | 1.15 | 1.16 | 2.02 | 4.00 | 2.32 | .44 | .43 | 3.60 | 2.68 | .33 |
| IN. | .44 | .74 | 1.33 | 1.33 | 2.10 | 4.61 | 2.59 | .51 | .48 | 4.16 | 3.08 | .37 |
| CAL YR 1978 | TOTAL | 100899 | MEAN 276 | MAX 8090 | MIN 34 | CFSM 1.30 | IN 17.70 | | | | | |
| WTR YR 1979 | TOTAL | 123906 | MEAN 339 | MAX 6960 | MIN 37 | CFSM 1.60 | IN 21.74 | | | | | |

03353800 WHITE LICK CREEK AT MOORESVILLE, IN--Continued

WATER-DISCHARGE RECORDS--Continued

REVISIONS.--Revised daily discharges, in cubic feet per second, for 1978 water year are given below. These figures supersede those in WRD for Indiana 1978.

| | | | | | | |
|----------------|--------|---------------|------|---------------|------|-------|
| Sept. 1..... | 341 | Sept. 11..... | 71 | Sept. 21..... | 62 | |
| Sept. 2..... | 226 | Sept. 12..... | 68 | Sept. 22..... | 60 | |
| Sept. 3..... | 171 | Sept. 13..... | 67 | Sept. 23..... | 59 | |
| Sept. 4..... | 139 | Sept. 14..... | 71 | Sept. 24..... | 58 | |
| Sept. 5..... | 118 | Sept. 15..... | 68 | Sept. 25..... | 57 | |
| Sept. 6..... | 104 | Sept. 16..... | 64 | Sept. 26..... | 56 | |
| Sept. 7..... | 95 | Sept. 17..... | 104 | Sept. 27..... | 56 | |
| Sept. 8..... | 88 | Sept. 18..... | 82 | Sept. 28..... | 55 | |
| Sept. 9..... | 80 | Sept. 19..... | 70 | Sept. 29..... | 54 | |
| Sept. 10..... | 75 | Sept. 20..... | 64 | Sept. 30..... | 54 | |
| Month | Total | Mean | Max | Min | CFSM | In. |
| September 1978 | 2737 | 91.2 | 341 | 54 | .43 | .48 |
| Cal Yr 1978 | 100899 | 276 | 8090 | 34 | 1.30 | 17.71 |
| Wtr Yr 1975 | 120647 | 331 | 8090 | 34 | 1.56 | 21.17 |

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN 1.00 MM |
|--------------|------|---|---|--|---|---|---|---|---|
| MAR 05... | 1120 | 2160 | 722 | 4210 | 76 | 87 | 97 | 99 | 100 |
| JUL 13... | 1500 | 11500 | 779 | 24200 | 93 | 95 | 98 | 100 | -- |
| 28... | 2045 | 7130 | 956 | 18400 | 72 | 80 | 88 | 99 | 100 |
| AUG 02... | 1515 | 1760 | 676 | 3210 | 58 | 68 | 81 | 97 | 100 |

03354000 WHITE RIVER NEAR CENTERTON, IN

LOCATION.--Lat 39°29'51", long 86°24'02", in NE¼NE¼ sec.10, T.12 N., R.1 E., Morgan County, Hydrologic Unit 05120201, on right bank at upstream side of bridge on Blue Bluff Road, 0.8 mile (1.3 km) downstream from White Lick Creek, 1 mile (1.6 km) south of Centerton, and at mile 199.3 (321.0 km).
DRAINAGE AREA.--2,444 mi² (6,330 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1925 to September 1930 (gage heights only), October 1930 to March 1932, October 1946 to current year. Monthly discharge only for October and November 1946, published in WSP 1305. Published as West Fork White River at Martinsville prior to March 1932, and as West Fork White River near Centerton October 1946 to September 1948.

REVISED RECORDS.--WSP 1335: 1948-49. WSP 1909: 1931(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 595.44 ft (181.490 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953. July 1953 to Aug. 7, 1975, water-stage recorder at site 0.4 mile (0.6 km) downstream at same datum.

REMARKS.--Records good except those for winter periods and period of no gage-height record, Mar. 2 to Apr. 6, which are fair. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--34 years (1930-31, 1946 to current year), 2.399 ft³/s (67.94 m³/s), 13.33 in/yr (339 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s (1,430 m³/s) Apr. 22, 1964, gage height, 17.57 ft (5.355 m) at site 0.4 mile (0.6 km) downstream; minimum daily, 131 ft³/s (3.71 m³/s) Nov. 15, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 22.8 ft (6.95 m) at Martinsville site (from information by Indiana State Highway Commission) and 21.9 ft (6.68 m) at site 0.4 mile (0.6 km) downstream (from information by Corps of Engineers), discharge, 90,000 ft³/s (2,550 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 9,500 ft³/s (269 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 1400 | 11800 334 | 10.23 3.118 | July 14 | 1200 | 26000 736 | 15.98 4.871 |
| Feb. 24 | 1200 | 20100 569 | 14.14 4.310 | July 29 | 1800 | *28700 813 | *16.51 5.032 |
| Mar. 5 | 0900 | 28100 796 | 16.39 4.996 | Aug. 2 | 1700 | 23400 663 | 15.35 4.679 |
| Apr. 12 | 1600 | 16200 459 | 12.45 3.795 | | | | |

Minimum daily discharge, 531 ft³/s (15.04 m³/s) Oct. 9.

NOTE.--No gage-height record Mar. 2 to Apr. 6.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1972, October 1977 to current year.

SEDIMENT DISCHARGE: March 1965 to September 1977 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|--------|--------|--------|-------|-------|--------|--------|-------|
| 1 | 574 | 624 | 1170 | 10600 | 1270 | 6320 | 3600 | 1770 | 1400 | 1060 | 13600 | 3120 |
| 2 | 568 | 603 | 1070 | 10500 | 1160 | 7310 | 3700 | 1660 | 1220 | 886 | 20800 | 2620 |
| 3 | 568 | 602 | 1780 | 9350 | 1150 | 10200 | 3650 | 1940 | 1140 | 866 | 17500 | 2220 |
| 4 | 618 | 591 | 4690 | 6580 | 1160 | 22700 | 3500 | 1880 | 1080 | 2290 | 14200 | 1970 |
| 5 | 616 | 581 | 5000 | 4240 | 1070 | 25700 | 3350 | 1750 | 1040 | 1980 | 11700 | 1920 |
| 6 | 588 | 587 | 4410 | 3200 | 989 | 21700 | 3250 | 1660 | 1000 | 1680 | 6570 | 1820 |
| 7 | 565 | 633 | 3470 | 2810 | 1050 | 19700 | 3070 | 1570 | 1620 | 1360 | 4710 | 1650 |
| 8 | 544 | 666 | 4310 | 2380 | 1010 | 14600 | 2910 | 1470 | 4860 | 1100 | 3880 | 1490 |
| 9 | 531 | 635 | 5840 | 2050 | 1270 | 9190 | 5260 | 1450 | 4360 | 1090 | 3270 | 1360 |
| 10 | 608 | 599 | 4900 | 1870 | 1160 | 7710 | 5430 | 1360 | 3520 | 1710 | 2860 | 1240 |
| 11 | 618 | 585 | 4140 | 1640 | 1150 | 6750 | 6790 | 1360 | 2710 | 1230 | 2920 | 1160 |
| 12 | 991 | 581 | 3020 | 1650 | 1160 | 5650 | 14500 | 1500 | 2100 | 1180 | 2440 | 1100 |
| 13 | 2660 | 577 | 2590 | 1620 | 1070 | 4370 | 13200 | 1860 | 1850 | 11500 | 2330 | 1070 |
| 14 | 2020 | 801 | 2190 | 1870 | 989 | 3830 | 12200 | 1550 | 1510 | 23800 | 2060 | 1100 |
| 15 | 1620 | 1390 | 1990 | 1560 | 1050 | 3430 | 10000 | 1610 | 1310 | 15800 | 1800 | 1070 |
| 16 | 1470 | 1540 | 1800 | 1260 | 1010 | 3130 | 8330 | 1480 | 1170 | 8140 | 1630 | 1020 |
| 17 | 1260 | 2500 | 1640 | 1450 | 862 | 3010 | 6240 | 1340 | 1060 | 5710 | 1480 | 1030 |
| 18 | 1110 | 4710 | 1550 | 1660 | 784 | 2970 | 4870 | 1240 | 1160 | 3960 | 1410 | 997 |
| 19 | 1010 | 4220 | 1430 | 1490 | 827 | 2700 | 4080 | 1260 | 1000 | 2790 | 3170 | 940 |
| 20 | 899 | 3450 | 1470 | 1410 | 853 | 2800 | 3550 | 1150 | 1100 | 2300 | 4290 | 893 |
| 21 | 824 | 2620 | 2230 | 2260 | 1010 | 2500 | 3170 | 1150 | 1300 | 1840 | 7300 | 869 |
| 22 | 769 | 2070 | 1910 | 2170 | 2680 | 2300 | 2860 | 1120 | 1200 | 1600 | 7190 | 897 |
| 23 | 710 | 1790 | 1800 | 1990 | 12300 | 2800 | 2640 | 1060 | 1100 | 1490 | 8020 | 843 |
| 24 | 700 | 1670 | 1670 | 2990 | 19300 | 3500 | 2490 | 1040 | 970 | 2150 | 8030 | 815 |
| 25 | 657 | 1570 | 1610 | 2390 | 19300 | 3200 | 2390 | 1140 | 860 | 4300 | 5530 | 791 |
| 26 | 678 | 1420 | 1460 | 1900 | 18600 | 2750 | 2320 | 1080 | 780 | 8000 | 4010 | 762 |
| 27 | 684 | 1410 | 1350 | 1670 | 15100 | 2300 | 2240 | 1360 | 720 | 11000 | 4000 | 755 |
| 28 | 694 | 1350 | 1220 | 1640 | 7660 | 2200 | 2220 | 1440 | 740 | 15700 | 4370 | 750 |
| 29 | 666 | 1270 | 1140 | 1460 | --- | 2400 | 2010 | 1440 | 900 | 26100 | 6510 | 753 |
| 30 | 655 | 1210 | 1190 | 1350 | --- | 2750 | 1960 | 1340 | 1980 | 24700 | 4390 | 710 |
| 31 | 653 | --- | 2090 | 1310 | --- | 3100 | --- | 1310 | --- | 18200 | 4050 | --- |
| TOTAL | 27128 | 42855 | 76130 | 90320 | 116994 | 213570 | 145780 | 44340 | 46760 | 205512 | 186020 | 37735 |
| MEAN | 875 | 1429 | 2456 | 2914 | 4178 | 6889 | 4859 | 1430 | 1559 | 6629 | 6001 | 1258 |
| MAX | 2660 | 4710 | 5840 | 10600 | 19300 | 25700 | 14500 | 1940 | 4860 | 26100 | 20800 | 3120 |
| MIN | 531 | 577 | 1070 | 1260 | 784 | 2200 | 1960 | 1040 | 720 | 866 | 1410 | 710 |
| CFSM | .36 | .59 | 1.01 | 1.19 | 1.71 | 2.82 | 1.99 | .59 | .64 | 2.71 | 2.46 | .52 |
| IN. | .41 | .65 | 1.16 | 1.37 | 1.78 | 3.25 | 2.22 | .67 | .71 | 3.13 | 2.83 | .57 |
| CAL YR 1978 | TOTAL | 1048554 | MEAN | 2873 | MAX | 24300 | MIN | 531 | CFSM | 1.18 | IN | 15.96 |
| WTR YR 1979 | TOTAL | 1233144 | MEAN | 3378 | MAX | 26100 | MIN | 531 | CFSM | 1.38 | IN | 18.77 |

WABASH RIVER BASIN

03354500 BEANBLOSSOM CREEK AT BEANBLOSSOM, IN

LOCATION.--Lat 39°15'45", long 86°14'55", in SW¼NW¼ sec.31, T.10 N., R.3 E., Brown County, Hydrologic Unit 05120202, on right bank 15 ft (5 m) downstream from bridge on State Highway 135, 0.3 mile (0.5 km) south of Beanblossom, 2.7 miles (4.3 km) upstream from North Fork Beanblossom Creek, and at mile 42.1 (67.7 km).

DRAINAGE AREA.--14.6 mi² (37.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1965, published as Bean Blossom Creek at Bean Blossom.

REVISED RECORDS.--WSP 1555: 1952, 1953(M), 1956-57. WSP 1705: 1952(P).

GAGE.--Water-stage recorder. Datum of gage is 673.65 ft (205.329 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, May 29 to July 9, which are fair.

AVERAGE DISCHARGE.--28 years, 15.8 ft³/s (0.447 m³/s), 14.70 in/yr (373 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,140 ft³/s (231 m³/s) June 23, 1960, gage height, 11.78 ft (3.591 m), from curve extended above 2,000 ft³/s (56.6 m³/s) on basis of contracted-opening measurement at gage height 11.78 ft (3.591 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 31 | 1700 | 837 23.7 | 6.66 2.030 | July 13 | 1300 | *1980 56.1 | *10.45 3.185 |
| Feb. 23 | 1015 | 1650 46.7 | 8.80 2.682 | July 28 | 1615 | 1020 28.9 | 8.29 2.527 |
| Mar. 4 | 0900 | 709 20.1 | 6.20 1.890 | | | | |

Minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Oct. 10.

NOTE.--No gage-height record May 29 to July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|--------|--------|-------|-------|------|--------|--------|-------|
| 1 | .22 | .33 | 2.3 | 196 | 9.0 | 57 | 50 | 5.3 | 3.0 | 3.5 | 42 | 3.4 |
| 2 | .15 | .33 | 2.2 | 50 | 8.4 | 83 | 49 | 4.7 | 2.6 | 2.0 | 36 | 2.7 |
| 3 | .12 | .30 | 12 | 25 | 7.5 | 224 | 33 | 56 | 2.3 | 1.4 | 20 | 2.4 |
| 4 | .11 | .29 | 30 | 18 | 7.0 | 285 | 46 | 38 | 2.1 | 2.9 | 13 | 1.7 |
| 5 | .12 | .28 | 15 | 16 | 6.5 | 59 | 40 | 27 | 2.0 | 2.0 | 10 | 1.5 |
| 6 | .11 | .31 | 10 | 14 | 5.8 | 35 | 28 | 19 | 1.9 | 1.6 | 11 | 1.2 |
| 7 | .11 | .33 | 10 | 12 | 5.2 | 29 | 23 | 13 | 3.5 | 1.3 | 8.5 | .96 |
| 8 | .11 | .33 | 167 | 11 | 4.6 | 25 | 21 | 8.8 | 5.0 | 1.1 | 6.6 | .85 |
| 9 | .11 | .29 | 45 | 9.6 | 4.0 | 23 | 34 | 5.6 | 4.0 | 22 | 5.3 | .74 |
| 10 | .10 | .28 | 20 | 8.5 | 3.6 | 23 | 25 | 3.6 | 3.0 | 33 | 4.7 | .74 |
| 11 | .28 | .28 | 15 | 8.0 | 3.4 | 19 | 47 | 2.2 | 2.5 | 4.5 | 6.1 | .74 |
| 12 | 2.6 | .33 | 12 | 10 | 4.0 | 17 | 166 | 23 | 2.4 | 39 | 4.5 | .65 |
| 13 | 10 | .33 | 10 | 13 | 4.7 | 16 | 55 | 22 | 2.6 | 813 | 3.4 | .74 |
| 14 | 2.4 | .61 | 8.2 | 19 | 5.6 | 14 | 52 | 19 | 2.7 | 77 | 2.0 | 2.9 |
| 15 | 1.2 | 1.1 | 6.8 | 20 | 7.2 | 12 | 34 | 14 | 2.4 | 32 | 1.3 | 1.4 |
| 16 | .90 | 1.3 | 5.8 | 18 | 9.5 | 11 | 29 | 11 | 2.1 | 19 | 1.1 | .85 |
| 17 | .90 | 38 | 5.2 | 14 | 7.8 | 11 | 24 | 8.8 | 2.0 | 12 | .96 | .65 |
| 18 | .66 | 17 | 4.7 | 10 | 6.8 | 10 | 20 | 6.9 | 1.9 | 8.4 | .85 | .65 |
| 19 | .66 | 8.9 | 4.5 | 8.0 | 6.0 | 9.9 | 18 | 5.6 | 1.7 | 6.3 | 1.5 | .65 |
| 20 | .77 | 6.5 | 13 | 19 | 7.8 | 21 | 16 | 4.4 | 1.6 | 4.7 | 11 | .65 |
| 21 | .66 | 4.5 | 18 | 130 | 29 | 24 | 14 | 3.7 | 1.6 | 3.0 | 9.8 | .96 |
| 22 | .77 | 4.0 | 15 | 37 | 233 | 18 | 13 | 3.0 | 1.5 | 2.3 | 17 | 1.4 |
| 23 | .77 | 4.2 | 12 | 23 | 580 | 47 | 11 | 2.6 | 1.4 | 2.0 | 10 | .92 |
| 24 | .47 | 3.4 | 10 | 161 | 104 | 46 | 8.8 | 2.4 | 1.4 | 3.4 | 7.8 | .55 |
| 25 | .33 | 2.6 | 8.2 | 50 | 107 | 30 | 9.1 | 2.8 | 1.4 | 5.6 | 5.3 | .38 |
| 26 | .39 | 3.4 | 6.5 | 27 | 59 | 24 | 9.1 | 2.3 | 1.3 | 6.0 | 8.9 | .46 |
| 27 | .33 | 4.1 | 5.4 | 20 | 40 | 20 | 7.5 | 5.0 | 1.2 | 11 | 11 | .55 |
| 28 | .31 | 3.0 | 4.3 | 15 | 36 | 18 | 7.5 | 2.7 | 1.2 | 444 | 9.4 | .65 |
| 29 | .33 | 2.9 | 4.4 | 12 | --- | 17 | 6.5 | 2.3 | 7.8 | 157 | 9.0 | .55 |
| 30 | .33 | 2.5 | 5.7 | 11 | --- | 21 | 6.2 | 5.0 | 8.5 | 40 | 6.6 | .65 |
| 31 | .33 | --- | 258 | 9.8 | --- | 84 | --- | 3.5 | --- | 20 | 4.5 | --- |
| TOTAL | 26.65 | 112.02 | 746.2 | 994.9 | 1312.4 | 1332.9 | 902.7 | 333.2 | 78.6 | 1781.0 | 289.11 | 33.14 |
| MEAN | .86 | 3.73 | 24.1 | 32.1 | 46.9 | 43.0 | 30.1 | 10.7 | 2.62 | 57.5 | 9.33 | 1.10 |
| MAX | 10 | 38 | 258 | 196 | 580 | 285 | 166 | 56 | 8.5 | 813 | 42 | 3.4 |
| MIN | .10 | .28 | 2.2 | 8.0 | 3.4 | 9.9 | 6.2 | 2.2 | 1.2 | 1.1 | .85 | .38 |
| CFSM | .06 | .26 | 1.65 | 2.20 | 3.21 | 2.95 | 2.06 | .73 | .18 | 3.94 | .64 | .08 |
| IN. | .07 | .29 | 1.90 | 2.53 | 3.34 | 3.40 | 2.30 | .85 | .20 | 4.54 | .74 | .08 |
| CAL YR 1978 | TOTAL | 4126.55 | MEAN | 11.3 | MAX | 258 | MIN | .01 | CFSM | .77 | IN | 10.51 |
| WTR YR 1979 | TOTAL | 7942.82 | MEAN | 21.8 | MAX | 813 | MIN | .10 | CFSM | 1.49 | IN | 20.24 |

03354500 BEANBLOSSOM CREEK AT BEANBLOSSOM, IN--Continued

WATER-DISCHARGE RECORDS--Continued

REVISIONS.--Revised daily discharges, in cubic feet per second, for 1978 water year are given below. These figures supersede those published in WRD for Indiana 1978.

| | | | | | | |
|------------------|------------------|-----------------|-----|-----|------|-------|
| Sept. 7.....1.5 | Sept. 15.....1.9 | Sept. 23.....29 | | | | |
| Sept. 8.....1.4 | Sept. 16.....1.0 | Sept. 24.....26 | | | | |
| Sept. 9.....1.3 | Sept. 17......80 | Sept. 25.....25 | | | | |
| Sept. 10.....1.2 | Sept. 18......56 | Sept. 26.....22 | | | | |
| Sept. 11.....1.2 | Sept. 19......46 | Sept. 27.....21 | | | | |
| Sept. 12.....1.1 | Sept. 20......40 | Sept. 28.....20 | | | | |
| Sept. 13.....1.1 | Sept. 21......36 | Sept. 29.....18 | | | | |
| Sept. 14.....1.0 | Sept. 22......32 | Sept. 30.....35 | | | | |
| Month | Total | Mean | Max | Min | CFSM | In. |
| Sept. 1978 | 32.4 | 1.08 | 4.0 | .18 | .07 | .08 |
| Cal Yr 1977 | 4010.85 | 11.0 | 659 | .00 | .75 | 10.22 |
| Wtr Yr 1978 | 3953.38 | 10.83 | 286 | .01 | .74 | 10.07 |

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM |
|-------|------|-----------------------------|---|---|--|---|
| OCT | | | | | | |
| 01... | 0900 | 18.0 | .22 | 7 | .00 | -- |
| 08... | 0900 | 12.0 | .11 | 8 | .00 | -- |
| 25... | 1430 | 12.0 | .39 | 3 | .00 | -- |
| 29... | 0900 | 10.0 | .33 | 15 | .01 | -- |
| NOV | | | | | | |
| 05... | 0900 | 12.0 | .28 | 9 | .01 | -- |
| 12... | 0900 | 10.0 | .33 | 22 | .02 | -- |
| 19... | 0900 | 9.0 | 9.3 | 29 | .73 | -- |
| 26... | 0900 | 8.0 | 3.4 | 8 | .07 | -- |
| DEC | | | | | | |
| 03... | 1700 | 7.0 | 18 | 24 | 1.2 | -- |
| 10... | 1500 | 5.0 | 19 | 19 | .97 | -- |
| 17... | 0900 | 7.0 | 5.3 | 19 | .27 | -- |
| 24... | 1400 | 5.0 | 9.6 | 4 | .10 | -- |
| JAN | | | | | | |
| 07... | 0900 | 2.0 | 13 | 7 | .25 | -- |
| 14... | 0900 | .0 | 15 | 6 | .24 | -- |
| 21... | 1100 | 5.0 | 200 | 90 | 49 | -- |
| 28... | 1100 | 3.0 | 15 | 8 | .32 | -- |
| FEB | | | | | | |
| 04... | 1100 | .0 | 7.5 | 6 | .12 | -- |
| 11... | 1100 | 3.0 | 3.4 | 4 | .04 | -- |
| 23... | 1300 | -- | 803 | 1150 | 2490 | -- |
| MAR | | | | | | |
| 04... | 1100 | 9.0 | 435 | 428 | 503 | 95 |
| 11... | 1700 | 10.0 | 20 | 10 | .54 | -- |
| 18... | 1100 | 12.0 | 13 | 12 | .42 | -- |
| 25... | 1100 | -- | 31 | 28 | 2.3 | -- |
| APR | | | | | | |
| 01... | 1100 | -- | 38 | 48 | 4.9 | -- |
| 08... | 1100 | -- | 20 | 46 | 2.5 | -- |
| 15... | 1100 | -- | 34 | 16 | 1.5 | -- |
| 22... | 1100 | -- | 15 | 64 | 2.6 | -- |
| 29... | 1100 | -- | 10 | 6 | .16 | -- |

WABASH RIVER BASIN

03354500 BEAN BLOSSOM CREEK AT BEANBLOSSOM, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 07... | 1730 | -- | 14 | 10 | .38 | -- | -- | -- | -- | -- |
| 13... | 1800 | -- | 19 | 26 | 1.3 | -- | -- | -- | -- | -- |
| 20... | 1000 | -- | 4.6 | 17 | .21 | -- | -- | -- | -- | -- |
| 27... | 1100 | -- | 6.2 | 20 | .33 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 10... | 1100 | 20.0 | 3.0 | 26 | .21 | -- | -- | -- | -- | -- |
| 17... | 1000 | 23.0 | 2.0 | 18 | .10 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | |
| 01... | 1300 | 24.0 | 3.5 | 36 | .34 | -- | -- | -- | -- | -- |
| 15... | 1100 | 23.0 | 33 | 40 | 3.6 | -- | -- | -- | -- | -- |
| 22... | 1100 | 27.0 | 2.7 | 20 | .15 | -- | -- | -- | -- | -- |
| 29... | 1100 | 24.0 | 256 | 200 | 138 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | |
| 02... | 1100 | 21.0 | 36 | 40 | 3.9 | -- | -- | -- | -- | -- |
| 02... | 1440 | -- | 33 | 38 | 3.4 | 83 | 87 | 92 | 96 | 100 |
| 05... | 1100 | 26.0 | 9.5 | 59 | 1.5 | -- | -- | -- | -- | -- |
| 19... | 1100 | 25.0 | 1.5 | 35 | .14 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | |
| 30... | 1100 | 20.0 | .65 | 8 | .01 | -- | -- | -- | -- | -- |

03357350 PLUM CREEK NEAR BAINBRIDGE, IN

LOCATION.--Lat 39°45'42", long 86°43'46", in SW¼SE¼ sec.3, T.15 N., R.3 W., Putnam County, Hydrologic Unit 05120203, 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 mi² (7.77 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 828.44 ft (252.509 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

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

AVERAGE DISCHARGE.--10 years, 3.89 ft³/s (0.110 m³/s), 17.61 in/yr (447 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 744 ft³/s (21.1 m³/s) June 30, 1977, gage height, 5.75 ft (1.753 m); no flow at times during 1970, 1975-77.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 23 | 1400 | 308 | 8.72 | 3.80 | 1.158 | July 28 | 1400 | *449 | 12.7 | *4.25 | 1.295 |
| Mar. 4 | 0645 | 241 | 6.82 | 3.56 | 1.085 | July 30 | 0215 | 383 | 10.8 | 4.17 | 1.271 |
| July 13 | 1030 | 201 | 5.69 | 3.31 | 1.009 | Aug. 28 | 1545 | 272 | 7.70 | 3.61 | 1.100 |

Minimum daily discharge, 0.03 ft³/s (0.001 m³/s) Oct. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|--------|--------|-------|
| 1 | .03 | .14 | .76 | 29 | .80 | 25 | 9.9 | 1.6 | 3.4 | 5.4 | 41 | 3.6 |
| 2 | .03 | .14 | .74 | 11 | .78 | 32 | 11 | 1.6 | 1.7 | 2.3 | 15 | 2.7 |
| 3 | .03 | .14 | 22 | 5.0 | .76 | 60 | 7.2 | 2.4 | 1.3 | 1.2 | 7.9 | 2.1 |
| 4 | .03 | .14 | 12 | 2.9 | .72 | 102 | 8.5 | 1.7 | 1.0 | 19 | 5.0 | 1.6 |
| 5 | .03 | .14 | 6.4 | 2.2 | .71 | 23 | 8.2 | 1.5 | .88 | 4.9 | 3.4 | 1.4 |
| 6 | .03 | .14 | 4.3 | 1.8 | .70 | 18 | 5.3 | 1.4 | .74 | .97 | 4.6 | 1.2 |
| 7 | .03 | .16 | 5.8 | 1.5 | .67 | 16 | 4.7 | 1.3 | .90 | .67 | 2.5 | .97 |
| 8 | .03 | .15 | 13 | 1.3 | .66 | 14 | 13 | 1.1 | .86 | .58 | 1.7 | .80 |
| 9 | .03 | .14 | 7.0 | 1.2 | .64 | 12 | 23 | 1.1 | .74 | .59 | 1.6 | .72 |
| 10 | .03 | .14 | 3.9 | 1.1 | .62 | 11 | 9.8 | 1.0 | .64 | .47 | 3.4 | .66 |
| 11 | .06 | .13 | 3.3 | 1.0 | .60 | 8.2 | 14 | 1.3 | .52 | .39 | 3.1 | .57 |
| 12 | 1.7 | .13 | 3.1 | .96 | .58 | 7.1 | 51 | 1.8 | .45 | .61 | 1.4 | .51 |
| 13 | 5.0 | .14 | 2.7 | .98 | .58 | 6.5 | 14 | 1.4 | .40 | 93 | 1.1 | .50 |
| 14 | .80 | 7.2 | 2.0 | 1.0 | .65 | 5.9 | 9.6 | 1.1 | .31 | 19 | .93 | .48 |
| 15 | .46 | 2.3 | 1.9 | .98 | .71 | 3.8 | 7.2 | 1.4 | .25 | 11 | .78 | .36 |
| 16 | .38 | 1.0 | 1.6 | .96 | .69 | 3.3 | 5.6 | .96 | .22 | 6.0 | .66 | .33 |
| 17 | .28 | 17 | 1.3 | 1.0 | .46 | 3.2 | 4.2 | .78 | .20 | 3.4 | .59 | .29 |
| 18 | .24 | 6.5 | 1.4 | .98 | .59 | 3.2 | 3.3 | .65 | .18 | 2.1 | 4.0 | .37 |
| 19 | .22 | 3.3 | 1.5 | .96 | .60 | 4.0 | 2.9 | .63 | .15 | 1.5 | 11 | .22 |
| 20 | .22 | 2.1 | 4.4 | 1.0 | .60 | 3.5 | 2.6 | .58 | 2.5 | 1.2 | 16 | .19 |
| 21 | .20 | 1.6 | 5.3 | 1.2 | 7.3 | 2.9 | 2.4 | .50 | 1.1 | .97 | 11 | .20 |
| 22 | .18 | 1.4 | 2.9 | 1.1 | 33 | 3.3 | 2.1 | .44 | .43 | .84 | 8.9 | .19 |
| 23 | .16 | 1.8 | 2.2 | 1.0 | 192 | 18 | 2.0 | .56 | .34 | .70 | 5.3 | .14 |
| 24 | .16 | 1.3 | 2.4 | 1.4 | 32 | 16 | 2.4 | .71 | .28 | 5.9 | 3.4 | .13 |
| 25 | .19 | 1.1 | 1.9 | 1.2 | 16 | 9.0 | 3.9 | .53 | .18 | 2.3 | 2.2 | .14 |
| 26 | .33 | 1.1 | 1.5 | 1.1 | 11 | 6.2 | 2.6 | .45 | .12 | 7.0 | 3.4 | .13 |
| 27 | .21 | 1.2 | 1.2 | 1.0 | 7.9 | 4.9 | 2.5 | 1.7 | .09 | 2.1 | 3.0 | .15 |
| 28 | .18 | .91 | 1.1 | .98 | 7.3 | 6.3 | 2.7 | .70 | .07 | 107 | 51 | .16 |
| 29 | .16 | .86 | 1.2 | .92 | --- | 9.7 | 2.0 | .48 | 23 | 23 | 17 | .16 |
| 30 | .15 | .81 | 2.0 | .88 | --- | 12 | 1.8 | .39 | 9.5 | 65 | 8.8 | .17 |
| 31 | .14 | --- | 37 | .84 | --- | 9.5 | --- | 13 | --- | 11 | 5.3 | --- |
| TOTAL | 11.72 | 53.31 | 157.80 | 78.44 | 319.62 | 459.5 | 239.4 | 44.76 | 52.45 | 400.09 | 244.96 | 21.14 |
| MEAN | .38 | 1.78 | 5.09 | 2.53 | 11.4 | 14.8 | 7.98 | 1.44 | 1.75 | 12.9 | 7.90 | .70 |
| MAX | 5.0 | 17 | 37 | 29 | 192 | 102 | 51 | 13 | 23 | 107 | 51 | 3.6 |
| MIN | .03 | .13 | .74 | .84 | .46 | 2.9 | 1.8 | .39 | .07 | .39 | .59 | .13 |
| CFSM | .13 | .59 | 1.70 | .84 | 3.80 | 4.93 | 2.66 | .48 | .58 | 4.30 | 2.63 | .23 |
| IN. | .15 | .66 | 1.96 | .97 | 3.96 | 5.70 | 2.97 | .55 | .65 | 4.96 | 3.04 | .26 |

CAL YR 1978 TOTAL 1477.24 MEAN 4.05 MAX 193 MIN .03 CFSM 1.35 IN 18.31
WTR YR 1979 TOTAL 2083.19 MEAN 5.71 MAX 192 MIN .03 CFSM 1.90 IN 25.82

03357420 BIG WALNUT CREEK AT GREENCASTLE, IN

LOCATION.--Lat 39°40'01", long 86°51'57", in NW¼SW¼ sec.9, T.14 N., R.4 W., Putnam County, Hydrologic Unit 05120203, on left bank, 80 ft (24.4 m) downstream (revised) from concrete dam at the Greencastle Waterworks, 0.2 mile (0.3 km) downstream from Snyder Branch, 0.3 mile (0.5 km) upstream from bridge on U.S. Highway 231, 1.1 miles (1.8 km) north of Greencastle, and at mile 21.1 (33.9 km).

DRAINAGE AREA.--216 mi² (559 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of the gage is 665.00 ft (202.692 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Sept. 9, 1979, water-stage recorder at site 110 ft (33.5 m) upstream at same datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--5 years, 230 ft³/s (6.514 m³/s), 14.46 in/yr (367 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s (184 m³/s), Mar. 4, 1979, gage height, 13.96 ft (4.255 m); minimum daily, 3.1 ft³/s (0.088 m³/s) Oct. 18, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 24.1 ft (7.35 m), from flood profile by State of Indiana, Department of Natural Resources.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft³/s (51.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|---------|---|-------------------------|
| Jan. 1 | 0100 | 1920 54.4 | 10.05 3.063 | July 13 | 2100 | 5400 153 | 12.94 3.944 |
| Feb. 23 | 2200 | 4450 126 | 12.08 3.682 | July 29 | 0200 | 6100 173 | 13.66 4.164 |
| Mar. 4 | 1500 | *6500 184 | *13.96 4.255 | Aug. 20 | unknown | unknown | unknown |
| Apr. 12 | 0500 | 2590 73.3 | 10.47 3.191 | | | | |

Minimum daily discharge, 26 ft³/s (0.736 m³/s) Nov. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|------|------|-------|-------|------|
| 1 | 39 | 33 | 95 | 1550 | 90 | 418 | 410 | 145 | 141 | 121 | 1760 | 450 |
| 2 | 41 | 30 | 89 | 706 | 88 | 827 | 470 | 140 | 110 | 82 | 1360 | 290 |
| 3 | 40 | 28 | 353 | 386 | 84 | 1710 | 420 | 150 | 87 | 62 | 668 | 223 |
| 4 | 38 | 27 | 763 | 267 | 82 | 5250 | 360 | 145 | 73 | 352 | 430 | 174 |
| 5 | 39 | 27 | 455 | 204 | 80 | 2970 | 385 | 135 | 65 | 202 | 296 | 146 |
| 6 | 37 | 28 | 316 | 175 | 78 | 977 | 350 | 125 | 60 | 108 | 296 | 129 |
| 7 | 37 | 29 | 267 | 150 | 76 | 814 | 320 | 115 | 60 | 80 | 230 | 113 |
| 8 | 36 | 28 | 421 | 135 | 74 | 661 | 290 | 108 | 68 | 67 | 180 | 99 |
| 9 | 36 | 28 | 481 | 125 | 73 | 539 | 840 | 102 | 66 | 62 | 149 | 89 |
| 10 | 36 | 27 | 302 | 115 | 72 | 495 | 504 | 100 | 55 | 58 | 150 | 84 |
| 11 | 49 | 27 | 237 | 110 | 71 | 425 | 355 | 108 | 51 | 53 | 275 | 79 |
| 12 | 63 | 26 | 181 | 106 | 70 | 380 | 1830 | 120 | 50 | 56 | 160 | 73 |
| 13 | 160 | 26 | 165 | 108 | 70 | 350 | 810 | 125 | 47 | 4100 | 131 | 70 |
| 14 | 160 | 122 | 150 | 110 | 69 | 370 | 455 | 115 | 45 | 3400 | 102 | 70 |
| 15 | 102 | 309 | 140 | 108 | 68 | 350 | 390 | 108 | 42 | 1220 | 93 | 65 |
| 16 | 83 | 198 | 134 | 105 | 68 | 320 | 325 | 100 | 39 | 623 | 85 | 59 |
| 17 | 74 | 472 | 128 | 105 | 68 | 290 | 285 | 94 | 36 | 376 | 78 | 55 |
| 18 | 62 | 666 | 120 | 103 | 68 | 290 | 250 | 90 | 34 | 254 | 78 | 53 |
| 19 | 57 | 386 | 118 | 102 | 67 | 300 | 225 | 87 | 33 | 188 | 550 | 50 |
| 20 | 54 | 275 | 130 | 105 | 67 | 310 | 210 | 85 | 72 | 150 | 1120 | 47 |
| 21 | 52 | 212 | 230 | 105 | 123 | 310 | 195 | 80 | 91 | 126 | 800 | 46 |
| 22 | 52 | 170 | 181 | 102 | 217 | 300 | 185 | 75 | 84 | 109 | 900 | 45 |
| 23 | 54 | 160 | 155 | 100 | 3150 | 400 | 180 | 70 | 66 | 98 | 350 | 42 |
| 24 | 48 | 160 | 140 | 131 | 3100 | 594 | 185 | 79 | 49 | 120 | 260 | 40 |
| 25 | 54 | 135 | 130 | 125 | 974 | 420 | 215 | 68 | 41 | 195 | 205 | 38 |
| 26 | 57 | 122 | 120 | 120 | 533 | 380 | 200 | 62 | 35 | 512 | 290 | 37 |
| 27 | 57 | 122 | 110 | 110 | 365 | 350 | 180 | 114 | 31 | 552 | 350 | 36 |
| 28 | 57 | 118 | 105 | 105 | 268 | 320 | 190 | 95 | 29 | 3150 | 500 | 35 |
| 29 | 52 | 106 | 105 | 100 | --- | 370 | 175 | 68 | 228 | 4650 | 960 | 34 |
| 30 | 52 | 102 | 110 | 95 | --- | 465 | 160 | 74 | 366 | 2850 | 760 | 35 |
| 31 | 50 | --- | 518 | 92 | --- | 410 | --- | 183 | --- | 904 | 560 | --- |
| TOTAL | 1828 | 4199 | 6949 | 6060 | 10213 | 22365 | 11349 | 3265 | 2254 | 24880 | 14126 | 2806 |
| MEAN | 59.0 | 140 | 224 | 195 | 365 | 721 | 378 | 105 | 75.1 | 803 | 456 | 93.5 |
| MAX | 160 | 666 | 763 | 1550 | 3150 | 5250 | 1830 | 183 | 366 | 4650 | 1760 | 450 |
| MIN | 36 | 26 | 89 | 92 | 67 | 290 | 160 | 62 | 29 | 53 | 78 | 34 |
| CFSM | .27 | .65 | 1.04 | .90 | 1.69 | 3.34 | 1.75 | .49 | .35 | 3.72 | 2.11 | .43 |
| IN. | .31 | .72 | 1.20 | 1.04 | 1.76 | 3.85 | 1.95 | .56 | .39 | 4.28 | 2.43 | .48 |
| CAL YR 1978 | TOTAL | 100186 | MEAN 274 | MAX 5200 | MIN 26 | CFSM 1.27 | IN 17.25 | | | | | |
| WTR YR 1979 | TOTAL | 110294 | MEAN 302 | MAX 5250 | MIN 26 | CFSM 1.40 | IN 18.99 | | | | | |

03357420 BIG WALNUT CREEK AT GREENCASTLE, IN--Continued

WATER-QUALITY RECORDS

REVISIONS.--The maximum discharges for some water years and some daily discharges, in cubic feet per second, for 1975 and 1978, have been revised and are given below. These figures supersede those published in reports for 1975 and 1978.

Maximum discharges

| Water year | Date | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|------------|---------------|---|-----|-------------------------|--|
| 1975 | Feb. 23, 1975 | 4900 | 139 | 12.58 | |
| 1978 | Dec. 14, 1977 | 4200 | 119 | 11.87 | |
| 1978 | Mar. 14, 1978 | 6000 | 170 | 13.55 | |
| 1978 | Mar. 21, 1978 | 3800 | 108 | 11.47 | |

Daily discharges

Feb. 23, 1975.....4200

| Month | Total | Mean | Max | Min | CFSM | In. |
|---------------|-------|------|------|-----|------|-------|
| February 1975 | 19078 | 681 | 4200 | 180 | 3.15 | 3.28 |
| Wtr Yr 1975 | 96648 | 265 | 4200 | 11 | 1.23 | 16.64 |

Dec. 14, 1977.....4000

Mar. 15, 1978.....4000

Mar. 21, 1978.....3400

Mar. 14, 1978.....5200

| Month | Total | Mean | Max | Min | CFSM | In. |
|---------------|----------|------|------|-----|------|-------|
| December 1977 | 19761 | 637 | 4000 | 130 | 2.95 | 3.40 |
| March 1978 | 32114 | 1036 | 5200 | 50 | 4.80 | 5.53 |
| Cal Yr 1977 | 61453.3 | 168 | 4000 | 5.4 | .78 | 10.60 |
| Wtr Yr 1978 | 118987.0 | 326 | 5200 | 14 | 1.51 | 20.48 |

PERIOD OF RECORD.--

CHEMICAL ANALYSES: December 1973 to September 1977.

WATER TEMPERATURE: December 1973 to September 1977.

WABASH RIVER BASIN

03357500 BIG WALNUT CREEK NEAR REELSVILLE, IN

LOCATION.--Lat 39°32'11", long 86°58'35", in NW¼SW¼ sec.28, T.13 N., R.5 W., Putnam County, Hydrologic Unit 05120203, on left bank at downstream side of county highway bridge, 1.5 miles (2.4 km) southwest of Reelsville, and 4.1 miles (6.6 km) upstream from Mill Creek.

DRAINAGE AREA.--326 mi² (844 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1949 to current year. Published as Eel River near Reelsville, October 1952 to September 1956.

REVISED RECORDS.--WSP 1335: 1950. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 588.24 ft (179.296 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow partly regulated by Soil Conservation Service control structures on tributaries to Little Walnut Creek beginning in 1971.

AVERAGE DISCHARGE.--30 years, 346 ft³/s (9.799 m³/s), 14.41 in/yr (366 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s (776 m³/s) June 28, 1957, gage height, 18.63 ft (5.678 m), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of slope-conveyance method; minimum daily, 1.4 ft³/s (0.040 m³/s) Sept. 8, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,800 ft³/s (79.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0200 | 3210 90.9 | 9.66 2.944 | July 29 | 0200 | 7610 216 | 14.44 4.401 |
| Feb. 24 | 0600 | 5490 155 | 12.64 3.853 | Aug. 1 | 2400 | 6950 197 | 13.96 4.255 |
| Mar. 4 | 1600 | *9340 265 | *15.47 4.715 | Aug. 20 | 0600 | 3250 92.0 | 9.72 2.963 |
| Apr. 12 | 0900 | 4280 121 | 11.18 3.408 | Aug. 22 | 0900 | 3640 103 | 10.30 3.139 |
| July 14 | 1600 | 6210 176 | 13.33 4.063 | Aug. 29 | 0200 | 4310 122 | 11.22 3.420 |

Minimum daily discharge, 45 ft³/s (1.27 m³/s) Nov. 11-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 53 | 84 | 123 | 2660 | 135 | 972 | 770 | 260 | 227 | 215 | 3230 | 526 |
| 2 | 53 | 84 | 116 | 1330 | 132 | 1570 | 931 | 243 | 183 | 140 | 3670 | 450 |
| 3 | 53 | 53 | 412 | 800 | 130 | 2860 | 770 | 279 | 150 | 106 | 1420 | 394 |
| 4 | 53 | 48 | 988 | 540 | 128 | 7790 | 707 | 264 | 126 | 391 | 929 | 360 |
| 5 | 52 | 47 | 607 | 400 | 123 | 5320 | 788 | 234 | 113 | 351 | 686 | 318 |
| 6 | 51 | 47 | 406 | 330 | 120 | 2200 | 646 | 218 | 106 | 189 | 660 | 286 |
| 7 | 52 | 49 | 337 | 275 | 118 | 1650 | 562 | 207 | 102 | 133 | 560 | 257 |
| 8 | 50 | 49 | 583 | 235 | 115 | 1320 | 536 | 192 | 118 | 109 | 448 | 234 |
| 9 | 49 | 47 | 671 | 205 | 112 | 1120 | 1720 | 181 | 133 | 98 | 385 | 211 |
| 10 | 48 | 46 | 448 | 190 | 110 | 992 | 1190 | 171 | 104 | 89 | 351 | 198 |
| 11 | 56 | 45 | 371 | 175 | 108 | 808 | 911 | 204 | 95 | 84 | 639 | 189 |
| 12 | 58 | 45 | 287 | 165 | 106 | 670 | 3400 | 255 | 89 | 91 | 371 | 262 |
| 13 | 241 | 45 | 252 | 160 | 105 | 606 | 1770 | 252 | 99 | 4140 | 321 | 262 |
| 14 | 192 | 116 | 236 | 170 | 104 | 625 | 1090 | 196 | 83 | 5430 | 284 | 261 |
| 15 | 131 | 378 | 218 | 170 | 103 | 571 | 823 | 179 | 78 | 2780 | 260 | 252 |
| 16 | 98 | 262 | 209 | 160 | 102 | 511 | 657 | 177 | 74 | 1340 | 234 | 243 |
| 17 | 116 | 684 | 202 | 160 | 101 | 485 | 546 | 157 | 70 | 798 | 213 | 236 |
| 18 | 112 | 846 | 185 | 165 | 101 | 465 | 469 | 145 | 67 | 576 | 207 | 229 |
| 19 | 104 | 498 | 183 | 160 | 100 | 498 | 418 | 138 | 64 | 460 | 1530 | 223 |
| 20 | 98 | 342 | 215 | 150 | 100 | 517 | 379 | 136 | 215 | 382 | 2550 | 216 |
| 21 | 95 | 263 | 351 | 160 | 140 | 545 | 357 | 130 | 252 | 332 | 1810 | 213 |
| 22 | 92 | 216 | 290 | 160 | 500 | 528 | 332 | 121 | 138 | 297 | 2130 | 209 |
| 23 | 94 | 197 | 238 | 150 | 3750 | 1090 | 310 | 118 | 145 | 279 | 1020 | 202 |
| 24 | 91 | 195 | 223 | 200 | 5290 | 1330 | 316 | 126 | 102 | 371 | 771 | 198 |
| 25 | 89 | 173 | 216 | 200 | 3000 | 1020 | 409 | 116 | 84 | 409 | 554 | 193 |
| 26 | 96 | 161 | 192 | 190 | 2000 | 755 | 388 | 110 | 74 | 590 | 783 | 188 |
| 27 | 94 | 158 | 165 | 180 | 1200 | 645 | 337 | 166 | 70 | 863 | 831 | 183 |
| 28 | 92 | 151 | 163 | 165 | 781 | 617 | 357 | 157 | 64 | 3640 | 1220 | 178 |
| 29 | 91 | 136 | 163 | 150 | --- | 777 | 310 | 125 | 92 | 7040 | 2630 | 175 |
| 30 | 88 | 128 | 169 | 145 | --- | 1020 | 290 | 109 | 646 | 4260 | 1070 | 171 |
| 31 | 85 | --- | 855 | 140 | --- | 929 | --- | 185 | --- | 1880 | 697 | --- |
| TOTAL | 2727 | 5593 | 10074 | 10440 | 18914 | 40806 | 22489 | 5551 | 3963 | 37863 | 32464 | 7517 |
| MEAN | 88.0 | 186 | 325 | 337 | 676 | 1316 | 750 | 179 | 132 | 1221 | 1047 | 251 |
| MAX | 241 | 846 | 988 | 2660 | 5290 | 7790 | 3400 | 279 | 646 | 7040 | 3670 | 526 |
| MIN | 48 | 45 | 116 | 140 | 100 | 465 | 290 | 109 | 64 | 84 | 207 | 171 |
| CFSM | .27 | .57 | 1.00 | 1.03 | 2.07 | 4.04 | 2.30 | .55 | .41 | 3.75 | 3.21 | .77 |
| IN. | .31 | .64 | 1.15 | 1.19 | 2.16 | 4.66 | 2.57 | .63 | .45 | 4.32 | 3.70 | .86 |

CAL YR 1978 TOTAL 148833 MEAN 408 MAX 6780 MIN 45 CFSM 1.25 IN 16.98
WTR YR 1979 TOTAL 198401 MEAN 544 MAX 7790 MIN 45 CFSM 1.67 IN 22.64

03357500 BIG WALNUT CREEK NEAR REELSVILLE, IN

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| FEB 24... | 1345 | 1.0 | 5340 | 843 | 12200 | -- | -- | -- | -- | -- |
| MAR 05... | 1315 | -- | 5080 | 548 | 7520 | 87 | 91 | 96 | 100 | -- |
| JUL 29... | 1430 | -- | 7030 | 761 | 14400 | 73 | 79 | 87 | 96 | 100 |

03358000 MILL CREEK NEAR CATARACT, IN

LOCATION.--Lat 39°26'00", long 86°45'48", in NE¼SE¼ sec.32, T.12 N., R.3 W., Owen County, Hydrologic Unit 05120203, on right bank at downstream side of bridge on U.S. Highway 231 (revised), 3 miles (5 km) east of Cataract, and at mile 17.5 (28.2 km).

DRAINAGE AREA.--245 mi² (635 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1505: 1956(P). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft (215.311 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--30 years. 261 ft³/s (7.392 m³/s), 14.47 in/yr (368 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s) June 24, 1960, gage height, 22.58 ft (6.882 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 7, 28, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 2300 | 3260 92.3 | 13.61 4.148 | July 14 | 2300 | *8340 236 | *20.17 6.148 |
| Feb. 24 | 0200 | 5730 162 | 17.55 5.349 | July 30 | 0300 | 4730 134 | 16.31 4.971 |
| Mar. 5 | 0400 | 4680 132 | 16.24 4.950 | Aug. 3 | 0700 | 4060 115 | 15.19 4.630 |
| Apr. 13 | 0300 | 3610 102 | 14.31 4.362 | Aug. 21 | 1100 | 3350 94.9 | 13.84 4.218 |

Minimum daily discharge, 12 ft³/s (0.34 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|------|------|-------|-------|------|
| 1 | 20 | 37 | 79 | 3160 | 90 | 749 | 829 | 125 | 87 | 682 | 2360 | 278 |
| 2 | 16 | 36 | 79 | 2680 | 87 | 1560 | 1040 | 117 | 64 | 216 | 3690 | 221 |
| 3 | 15 | 36 | 739 | 530 | 84 | 2600 | 622 | 188 | 53 | 130 | 3860 | 175 |
| 4 | 16 | 35 | 1170 | 380 | 82 | 4060 | 487 | 178 | 47 | 668 | 1730 | 145 |
| 5 | 16 | 36 | 488 | 280 | 80 | 4470 | 501 | 138 | 43 | 401 | 601 | 125 |
| 6 | 14 | 36 | 311 | 225 | 78 | 2820 | 372 | 122 | 39 | 162 | 408 | 110 |
| 7 | 14 | 36 | 284 | 195 | 76 | 1120 | 290 | 111 | 105 | 110 | 283 | 95 |
| 8 | 13 | 37 | 1290 | 170 | 74 | 742 | 292 | 100 | 368 | 88 | 210 | 84 |
| 9 | 12 | 36 | 1240 | 150 | 73 | 583 | 1110 | 90 | 491 | 85 | 167 | 78 |
| 10 | 12 | 35 | 462 | 135 | 71 | 518 | 552 | 85 | 230 | 82 | 345 | 74 |
| 11 | 24 | 34 | 304 | 122 | 71 | 384 | 940 | 82 | 143 | 64 | 627 | 68 |
| 12 | 104 | 33 | 241 | 118 | 71 | 313 | 3240 | 97 | 119 | 148 | 248 | 62 |
| 13 | 848 | 32 | 216 | 120 | 71 | 296 | 3160 | 128 | 151 | 5490 | 163 | 62 |
| 14 | 559 | 69 | 179 | 125 | 71 | 326 | 1090 | 90 | 102 | 7640 | 132 | 62 |
| 15 | 256 | 149 | 167 | 122 | 71 | 265 | 593 | 79 | 74 | 7800 | 112 | 55 |
| 16 | 163 | 93 | 153 | 119 | 71 | 229 | 418 | 69 | 62 | 6050 | 96 | 52 |
| 17 | 108 | 821 | 136 | 120 | 71 | 216 | 326 | 62 | 55 | 3940 | 87 | 48 |
| 18 | 84 | 827 | 124 | 125 | 72 | 211 | 271 | 59 | 49 | 1560 | 99 | 46 |
| 19 | 74 | 326 | 129 | 125 | 75 | 224 | 235 | 57 | 46 | 707 | 1430 | 44 |
| 20 | 66 | 212 | 188 | 122 | 80 | 269 | 211 | 59 | 305 | 412 | 2250 | 42 |
| 21 | 57 | 164 | 589 | 128 | 100 | 276 | 193 | 55 | 630 | 225 | 3100 | 40 |
| 22 | 52 | 136 | 322 | 125 | 1770 | 232 | 174 | 49 | 143 | 177 | 2470 | 40 |
| 23 | 56 | 132 | 233 | 124 | 4220 | 866 | 162 | 47 | 207 | 146 | 1180 | 37 |
| 24 | 44 | 128 | 210 | 160 | 5070 | 1040 | 166 | 53 | 95 | 204 | 525 | 35 |
| 25 | 45 | 102 | 193 | 140 | 4260 | 578 | 188 | 54 | 67 | 473 | 318 | 33 |
| 26 | 50 | 98 | 158 | 127 | 2280 | 362 | 202 | 49 | 53 | 305 | 933 | 32 |
| 27 | 47 | 105 | 121 | 116 | 933 | 290 | 168 | 83 | 46 | 567 | 1360 | 31 |
| 28 | 43 | 96 | 100 | 110 | 608 | 276 | 177 | 90 | 41 | 2120 | 966 | 30 |
| 29 | 40 | 84 | 95 | 104 | --- | 461 | 150 | 56 | 107 | 4370 | 1920 | 29 |
| 30 | 37 | 84 | 126 | 99 | --- | 1110 | 140 | 48 | 1710 | 4510 | 768 | 32 |
| 31 | 37 | --- | 1200 | 94 | --- | 1510 | --- | 92 | --- | 2980 | 399 | --- |
| TOTAL | 2942 | 4085 | 11326 | 10450 | 20760 | 28956 | 18299 | 2712 | 5732 | 52512 | 32837 | 2265 |
| MEAN | 94.9 | 136 | 365 | 337 | 741 | 934 | 610 | 87.5 | 191 | 1694 | 1059 | 75.5 |
| MAX | 848 | 827 | 1290 | 3160 | 5070 | 4470 | 3240 | 188 | 1710 | 7800 | 3860 | 278 |
| MIN | 12 | 32 | 79 | 94 | 71 | 211 | 140 | 47 | 39 | 64 | 87 | 29 |
| CFSM | .39 | .56 | 1.49 | 1.38 | 3.02 | 3.81 | 2.49 | .36 | .78 | 6.91 | 4.32 | .31 |
| IN. | .45 | .62 | 1.72 | 1.59 | 3.15 | 4.40 | 2.78 | .41 | .87 | 7.97 | 4.99 | .34 |
| CAL YR 1978 | TOTAL | 111017 | MEAN 304 | MAX 6760 | MIN 12 | CFSM 1.24 | IN 16.86 | | | | | |
| WTR YR 1979 | TOTAL | 192876 | MEAN 528 | MAX 7800 | MIN 12 | CFSM 2.16 | IN 29.29 | | | | | |

03358000 MILL CREEK NEAR CATARACT, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: November 1978 to current year.

CHEMICAL ANALYSES: November 1978 to current year.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | | | --- | --- | 628 | 618 | 551 | 307 | --- | --- | 332 | 311 |
| 2 | | | --- | --- | 629 | 623 | 328 | 316 | --- | --- | 380 | 333 |
| 3 | | | --- | --- | 624 | 278 | 481 | 459 | --- | --- | 357 | 316 |
| 4 | | | --- | --- | 506 | 404 | 507 | 482 | --- | --- | 311 | 223 |
| 5 | | | --- | --- | 558 | 509 | 520 | 507 | --- | --- | 264 | 225 |
| 6 | | | --- | --- | 579 | 559 | 525 | 515 | --- | --- | 323 | 267 |
| 7 | | | --- | --- | 583 | 490 | 524 | 519 | --- | --- | 364 | 326 |
| 8 | | | --- | --- | 494 | 379 | 523 | 520 | --- | --- | 388 | 366 |
| 9 | | | --- | --- | 503 | 385 | 550 | 524 | --- | --- | 397 | 389 |
| 10 | | | --- | --- | 539 | 507 | 565 | 551 | --- | --- | 404 | 397 |
| 11 | | | --- | --- | 560 | 541 | 567 | 560 | --- | --- | 414 | 403 |
| 12 | | | --- | --- | 570 | 560 | 564 | 554 | 513 | 512 | 421 | 412 |
| 13 | | | --- | --- | 575 | 570 | 552 | 536 | 514 | 505 | 422 | 416 |
| 14 | | | --- | --- | 578 | 573 | 534 | 502 | 511 | 506 | 421 | 417 |
| 15 | | | --- | --- | 585 | 577 | 531 | 511 | 580 | 507 | 420 | 412 |
| 16 | | | --- | --- | 594 | 584 | 564 | 531 | 514 | 497 | 425 | 418 |
| 17 | | | --- | --- | 602 | 594 | 571 | 526 | 511 | 498 | 427 | 422 |
| 18 | | | --- | --- | 607 | 601 | 521 | 459 | 526 | 511 | 432 | 425 |
| 19 | | | --- | --- | 613 | 607 | 488 | 461 | 526 | 519 | 430 | 419 |
| 20 | | | --- | --- | 621 | 613 | 522 | 485 | 524 | 513 | 419 | 402 |
| 21 | | | --- | --- | 612 | 539 | 508 | 463 | 656 | 377 | 401 | 382 |
| 22 | | | --- | --- | 538 | 530 | 461 | 443 | 378 | 286 | 399 | 388 |
| 23 | | | --- | --- | 553 | 539 | 490 | 447 | 278 | 195 | 388 | 342 |
| 24 | | | --- | --- | 572 | 554 | 495 | 391 | 212 | 185 | 357 | 343 |
| 25 | | | --- | --- | 586 | 573 | 401 | 383 | 267 | 210 | 371 | 358 |
| 26 | | | --- | --- | 604 | 585 | --- | --- | 286 | 269 | 375 | 372 |
| 27 | | | --- | --- | 619 | 605 | 474 | 453 | 294 | 283 | --- | --- |
| 28 | | | --- | --- | 627 | 619 | 480 | 474 | 311 | 293 | --- | --- |
| 29 | | | --- | --- | 634 | 626 | 486 | 478 | --- | --- | --- | --- |
| 30 | | | 619 | 617 | 645 | 634 | --- | --- | --- | --- | --- | --- |
| 31 | | | 638 | 621 | 646 | 308 | --- | --- | --- | --- | --- | --- |
| MONTH | | | | | 646 | 278 | 571 | 307 | | | | |

WABASH RIVER BASIN

03358000 MILL CREEK NEAR CATARACT, IN--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | --- | --- | 455 | 444 | --- | --- | 280 | 261 | | |
| 2 | | | --- | --- | 467 | 449 | --- | --- | --- | --- | | |
| 3 | | | --- | --- | 577 | 463 | --- | --- | --- | --- | | |
| 4 | | | --- | --- | 591 | 560 | --- | --- | --- | --- | | |
| 5 | | | --- | --- | 595 | 581 | --- | --- | --- | --- | | |
| 6 | | | --- | --- | 602 | 581 | --- | --- | --- | --- | | |
| 7 | | | --- | --- | 612 | 334 | --- | --- | --- | --- | | |
| 8 | | | --- | --- | 447 | 343 | --- | --- | --- | --- | | |
| 9 | | | --- | --- | 515 | 360 | --- | --- | --- | --- | | |
| 10 | | | --- | --- | 551 | 456 | --- | --- | --- | --- | | |
| 11 | | | --- | --- | 548 | 479 | --- | --- | --- | --- | | |
| 12 | | | --- | --- | 576 | 484 | --- | --- | --- | --- | | |
| 13 | | | --- | --- | 549 | 426 | --- | --- | --- | --- | | |
| 14 | | | --- | --- | 541 | 476 | --- | --- | --- | --- | | |
| 15 | | | 539 | 530 | 570 | 542 | --- | --- | --- | --- | | |
| 16 | | | 544 | 535 | 580 | 568 | --- | --- | --- | --- | | |
| 17 | | | 549 | 540 | 580 | 572 | --- | --- | --- | --- | | |
| 18 | | | 553 | 536 | 625 | 573 | --- | --- | --- | --- | | |
| 19 | | | 558 | 547 | 583 | 290 | --- | --- | --- | --- | | |
| 20 | | | 561 | 553 | 373 | 286 | --- | --- | --- | --- | | |
| 21 | | | 568 | 558 | 468 | 380 | --- | --- | --- | --- | | |
| 22 | | | 576 | 550 | 542 | 468 | 376 | 355 | --- | --- | | |
| 23 | | | 573 | 562 | 596 | 544 | 393 | 377 | --- | --- | | |
| 24 | | | 568 | 560 | 635 | 598 | 397 | 392 | --- | --- | | |
| 25 | | | 561 | 552 | 643 | 635 | 403 | 388 | --- | --- | | |
| 26 | | | 569 | 558 | 636 | 581 | 394 | 376 | --- | --- | | |
| 27 | | | 553 | 499 | 580 | 564 | 392 | 377 | --- | --- | | |
| 28 | | | 531 | 520 | 589 | 571 | 395 | 246 | --- | --- | | |
| 29 | | | 555 | 528 | 606 | 581 | 242 | 221 | --- | --- | | |
| 30 | | | 569 | 554 | 634 | 607 | 258 | 225 | --- | --- | | |
| 31 | | | 531 | 435 | --- | --- | 289 | 278 | --- | --- | | |
| MONTH | | | | | 643 | 286 | | | | | | |

03358000 MILL CREEK NEAR CATARACT, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | | | --- | --- | 4.0 | 2.5 | 4.5 | 3.0 | .0 | .0 | 2.5 | 2.0 |
| 2 | | | --- | --- | 4.0 | 3.0 | 3.0 | 1.5 | .0 | .0 | 2.5 | 1.5 |
| 3 | | | --- | --- | 8.5 | 3.5 | .0 | .0 | .0 | .0 | 2.5 | 1.0 |
| 4 | | | --- | --- | 8.0 | 4.5 | .0 | .0 | .0 | .0 | 3.5 | 2.5 |
| 5 | | | --- | --- | 4.5 | 3.0 | .0 | .0 | .0 | .0 | 3.0 | 2.0 |
| 6 | | | --- | --- | 4.5 | 4.0 | .0 | .0 | .0 | .0 | 5.5 | 1.5 |
| 7 | | | --- | --- | 6.0 | 4.5 | .0 | .0 | .0 | .0 | 5.5 | 4.0 |
| 8 | | | --- | --- | 6.5 | 4.0 | .0 | .0 | .0 | .0 | 6.0 | 4.5 |
| 9 | | | --- | --- | 4.0 | 3.0 | .0 | .0 | .0 | .0 | 6.0 | 4.5 |
| 10 | | | --- | --- | 3.0 | 1.0 | .0 | .0 | .0 | .0 | 4.5 | 3.0 |
| 11 | | | --- | --- | 2.0 | 1.0 | .0 | .0 | .0 | .0 | 3.0 | 1.0 |
| 12 | | | --- | --- | 3.0 | 2.0 | .0 | .0 | .0 | .0 | 3.5 | 1.0 |
| 13 | | | --- | --- | 3.5 | 2.5 | .0 | .0 | .0 | .0 | 6.5 | 3.5 |
| 14 | | | --- | --- | 2.5 | 1.5 | .0 | .0 | .0 | .0 | 6.5 | 5.5 |
| 15 | | | --- | --- | 2.0 | 1.0 | .0 | .0 | .0 | .0 | 5.0 | 3.0 |
| 16 | | | --- | --- | 3.0 | 1.5 | .0 | .0 | .0 | .0 | 5.0 | 3.0 |
| 17 | | | --- | --- | 3.0 | 2.0 | .0 | .0 | .0 | .0 | 6.5 | 4.5 |
| 18 | | | --- | --- | 2.0 | 1.5 | .0 | .0 | .0 | .0 | 10.5 | 7.0 |
| 19 | | | --- | --- | 3.0 | 2.0 | .0 | .0 | .0 | .0 | 12.0 | 10.5 |
| 20 | | | --- | --- | 6.5 | 3.0 | .0 | .0 | .0 | .0 | 12.5 | 11.5 |
| 21 | | | --- | --- | 6.5 | 3.0 | .0 | .0 | .5 | .0 | 13.0 | 12.0 |
| 22 | | | --- | --- | 3.0 | 2.0 | .0 | .0 | .5 | .0 | 13.0 | 11.5 |
| 23 | | | --- | --- | 2.5 | 2.0 | .5 | .0 | .5 | .0 | 12.5 | 11.5 |
| 24 | | | --- | --- | 3.0 | 2.0 | .5 | .0 | .0 | .0 | 11.5 | 7.0 |
| 25 | | | --- | --- | 2.5 | 1.5 | .0 | .0 | .0 | .0 | 6.5 | 4.0 |
| 26 | | | --- | --- | 1.5 | 1.0 | .0 | --- | .0 | .0 | 4.0 | 3.0 |
| 27 | | | --- | --- | .5 | .0 | .0 | .0 | 2.0 | .0 | --- | --- |
| 28 | | | --- | --- | .0 | .0 | .0 | .0 | 2.0 | 1.5 | --- | --- |
| 29 | | | --- | --- | 1.0 | .0 | .0 | .0 | --- | --- | --- | --- |
| 30 | | | 4.5 | 3.0 | 3.5 | 1.0 | .0 | .0 | --- | --- | --- | --- |
| 31 | | | --- | --- | 4.5 | 3.5 | .0 | .0 | --- | --- | --- | --- |
| MONTH | | | | | 8.5 | .0 | 4.5 | | | | | |

WABASH RIVER BASIN

03358000 MILL CREEK NEAR CATARACT, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

03358000 MILL CREEK NEAR CATARACT, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 2 FINER THAN .250 MM |
|--------------|------|---|---|--|---|---|---|
| FEB 24... | 1545 | 3960 | 173 | 1850 | -- | -- | -- |
| MAR 05... | 1350 | 4460 | 204 | 2460 | 98 | 99 | 100 |
| 05... | 1635 | 4400 | 207 | 2460 | 87 | 88 | 100 |
| JUL 13... | 1730 | 6890 | 508 | 9450 | 97 | 98 | 100 |

03358900 CAGLES MILL LAKE NEAR MANHATTAN, IN

LOCATION.--Lat 39°29'14", long 86°55'02", in NE¼NW¼ sec.13, T.12 N., R.5 W., Putnam County, Hydrologic Unit 05120203, in discharge tower of reservoir on Mill Creek, 1.5 miles (2.4 km) upstream from Deer Creek, 2.7 miles (4.3 km) above mouth, and 5.8 miles (9.3 km) south of Manhattan.

DRAINAGE AREA.--293 mi² (759 km²).

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 600.00 ft (182.880 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1975, at datum 18.17 ft (5.538 m) lower.

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 hm³), elevation, 636 ft (193.9 m). Capacity at uncontrolled spillway elevation, 704 ft (214.6 m) is 228,000 acre-ft (218 hm³). Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 165,210 acre-ft (204 hm³) Aug. 30, 1979, elevation, 689.61 ft (210.193 m); minimum, 21,700 acre-ft (26.8 hm³) 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.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 165,210 acre-ft (204 hm³) Aug. 30, elevation, 689.61 ft (210.193 m); minimum, 27,340 acre-ft (33.7 hm³) Feb. 2, 7, elevation, 636.16 ft (193.902 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 637.30 | 28,970 | |
| Oct. 31..... | 637.55 | 29,340 | +370 |
| Nov. 30..... | 637.57 | 29,370 | +30 |
| Dec. 31..... | 639.91 | 32,910 | +3,540 |
| CAL YR 1978..... | | | -20,730 |
| Jan. 31..... | 636.20 | 27,400 | -5,510 |
| Feb. 28..... | 655.41 | 62,440 | +35,040 |
| Mar. 31..... | 663.03 | 80,290 | +17,850 |
| Apr. 30..... | 657.97 | 68,180 | -12,110 |
| May 31..... | 637.59 | 29,400 | -38,780 |
| June 30..... | 639.75 | 32,660 | +3,260 |
| July 31..... | 680.82 | 132,900 | +100,240 |
| Aug. 31..... | 689.10 | 163,210 | +30,310 |
| Sept. 30..... | 651.26 | 53,600 | -109,610 |
| WTR YR 1979..... | | | +24,630 |

03360000 EEL RIVER AT BOWLING GREEN, IN

LOCATION.--Lat 39°22'58", long 87°01'14", in NE¼NE¼ sec.24, T.11 N., R.6 W., Clay County, Hydrologic Unit 05120203, on left bank 500 ft (152 m) downstream from bridge on State Highway 46 at Bowling Green, 0.2 mile (0.3 km) downstream from Jordan Creek, and at mile 38.4 (61.8 km).

DRAINAGE AREA.--830 mi² (2,150 km²).

PERIOD OF RECORD.--January 1931 to current year. Prior to October 1934, published as "near Centerpoint".

REVISED RECORDS.--WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939(M). WSP 1335: 1931(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 548.02 ft (167.036 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Cagles Mill Lake (See sta 03358900).

AVERAGE DISCHARGE.--48 years, 867 ft³/s (24.55 m³/s), 14.19 in/yr (360 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,000 ft³/s (963 m³/s) Jan. 4, 1950, gage height, 23.53 ft (7.172 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 7, 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 30.0 ft (9.14 m) in 1875, present datum, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,300 ft³/s (377 m³/s) July 29, gage height, 20.25 ft (6.172 m); minimum daily, 95 ft³/s (2.690 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 115 | 152 | 1400 | 5060 | 476 | 1730 | 1760 | 2070 | 542 | 596 | 3570 | 2420 |
| 2 | 111 | 150 | 308 | 2930 | 473 | 2550 | 2200 | 2030 | 406 | 568 | 8590 | 2330 |
| 3 | 108 | 142 | 838 | 1400 | 422 | 3860 | 1850 | 2100 | 301 | 1250 | 5240 | 2300 |
| 4 | 108 | 121 | 1600 | 1020 | 408 | 7820 | 2200 | 2080 | 254 | 1230 | 1860 | 2330 |
| 5 | 108 | 118 | 1250 | 992 | 410 | 9660 | 2270 | 1990 | 231 | 999 | 1440 | 2340 |
| 6 | 104 | 117 | 1480 | 1710 | 410 | 4680 | 2260 | 1950 | 214 | 795 | 1340 | 2320 |
| 7 | 102 | 118 | 1400 | 1890 | 409 | 2490 | 2340 | 1950 | 227 | 687 | 1210 | 2380 |
| 8 | 99 | 118 | 1890 | 1800 | 408 | 2020 | 2460 | 2030 | 308 | 637 | 1080 | 2420 |
| 9 | 96 | 118 | 1400 | 1700 | 380 | 1760 | 3090 | 1990 | 554 | 440 | 1250 | 2400 |
| 10 | 95 | 115 | 917 | 1730 | 395 | 1590 | 2200 | 1940 | 464 | 284 | 1270 | 2450 |
| 11 | 107 | 112 | 700 | 1720 | 395 | 1380 | 1730 | 1940 | 419 | 261 | 1730 | 2430 |
| 12 | 139 | 115 | 622 | 1680 | 395 | 1310 | 5390 | 1970 | 403 | 322 | 1660 | 2450 |
| 13 | 473 | 111 | 574 | 1180 | 370 | 1850 | 4040 | 1850 | 490 | 3880 | 1620 | 2360 |
| 14 | 560 | 147 | 536 | 703 | 360 | 2200 | 2020 | 1590 | 336 | 8000 | 2010 | 2100 |
| 15 | 642 | 393 | 696 | 709 | 350 | 2300 | 1590 | 1190 | 246 | 7160 | 2140 | 2410 |
| 16 | 577 | 451 | 1210 | 675 | 350 | 2210 | 1280 | 490 | 203 | 2870 | 2120 | 2390 |
| 17 | 551 | 1230 | 1200 | 498 | 350 | 2160 | 1070 | 411 | 187 | 1550 | 2090 | 2360 |
| 18 | 521 | 1630 | 1170 | 554 | 350 | 2130 | 1560 | 360 | 167 | 1130 | 2070 | 2330 |
| 19 | 236 | 1120 | 1160 | 616 | 388 | 2220 | 1810 | 338 | 161 | 907 | 3620 | 2340 |
| 20 | 217 | 944 | 1250 | 599 | 427 | 2470 | 2080 | 324 | 210 | 861 | 4220 | 2380 |
| 21 | 210 | 1110 | 1600 | 602 | 464 | 2420 | 2090 | 313 | 1120 | 1240 | 4440 | 2360 |
| 22 | 203 | 1030 | 1340 | 622 | 1180 | 2380 | 2040 | 288 | 746 | 1370 | 4400 | 2370 |
| 23 | 199 | 808 | 772 | 642 | 4930 | 3020 | 2010 | 269 | 703 | 1360 | 2610 | 2410 |
| 24 | 197 | 563 | 672 | 1110 | 8380 | 2500 | 2010 | 258 | 588 | 1310 | 2180 | 2380 |
| 25 | 192 | 507 | 582 | 1050 | 5000 | 2060 | 2130 | 254 | 377 | 1330 | 2260 | 2350 |
| 26 | 170 | 411 | 560 | 901 | 2140 | 2230 | 1940 | 238 | 275 | 1120 | 2530 | 2320 |
| 27 | 169 | 398 | 539 | 769 | 1590 | 2240 | 2060 | 308 | 212 | 2390 | 2910 | 2290 |
| 28 | 166 | 382 | 498 | 574 | 1400 | 2380 | 2070 | 353 | 194 | 4070 | 1870 | 2250 |
| 29 | 161 | 377 | 454 | 554 | --- | 2300 | 2000 | 284 | 188 | 11200 | 4310 | 2220 |
| 30 | 156 | 414 | 476 | 554 | --- | 2520 | 1990 | 252 | 1360 | 9790 | 2430 | 2190 |
| 31 | 153 | --- | 1600 | 492 | --- | 2330 | --- | 336 | --- | 4630 | 2270 | --- |
| TOTAL | 7045 | 13522 | 30694 | 37036 | 33010 | 84770 | 65540 | 33746 | 12086 | 74237 | 82340 | 70380 |
| MEAN | 227 | 451 | 990 | 1195 | 1179 | 2735 | 2185 | 1089 | 403 | 2395 | 2656 | 2346 |
| MAX | 642 | 1630 | 1890 | 5060 | 8380 | 9660 | 5390 | 2100 | 1360 | 11200 | 8590 | 2450 |
| MIN | 95 | 111 | 308 | 492 | 350 | 1310 | 1070 | 238 | 161 | 261 | 1080 | 2100 |
| CFSM | .27 | .54 | 1.19 | 1.44 | 1.42 | 3.30 | 2.63 | 1.31 | .49 | 2.89 | 3.20 | 2.83 |
| IN. | .32 | .61 | 1.38 | 1.66 | 1.48 | 3.80 | 2.94 | 1.51 | .54 | 3.33 | 3.69 | 3.15 |
| CAL YR 1978 | TOTAL | 386738 | MEAN | 1060 | MAX | 13000 | MIN | 95 | CFSM | 1.28 | IN | 17.33 |
| WTR YR 1979 | TOTAL | 544406 | MEAN | 1492 | MAX | 11200 | MIN | 95 | CFSM | 1.80 | IN | 24.40 |

WABASH RIVER BASIN

03360500 WHITE RIVER AT NEWBERRY, IN

LOCATION.--Lat 38°55'42", long 87°01'00", in NE¼NE¼ sec.25, T.6 N., R.6 W., Greene County, Hydrologic Unit 05120202, on right bank 500 ft (152 m) upstream from bridge on State Highway 57 at Newberry, 2.3 miles (3.7 km) downstream from Doans Creek, and at mile 112.7 (181.3 km).

DRAINAGE AREA.--4,688 mi² (12,142 km²).

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1948, published as West Fork White River at Newberry.

REVISED RECORDS.--WSP 873: 1937(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 465.59 ft (141.912 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 21, 1928, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly regulated by upstream reservoirs.

AVERAGE DISCHARGE.--51 years, 4,686 ft³/s (133 m³/s), 13.58 in/yr (345 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,900 ft³/s (2,180 m³/s) May 21, 1943, gage height, 24.19 ft (7.373 m); minimum daily, 200 ft³/s (5.66 m³/s) Oct. 1, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 27.5 ft (8.38 m) Mar. 27, 1913, from floodmarks by Indiana State Highway Commission; discharge, 130,000 ft³/s (3,680 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,700 ft³/s (1,380 m³/s) Aug. 2, gage height, 21.67 ft (6.605 m); minimum daily, 890 ft³/s (25.2 m³/s) Nov. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| 1 | 1080 | 1110 | 2180 | 16000 | 3050 | 30300 | 12600 | 5600 | 2980 | 2700 | 41100 | 9070 |
| 2 | 1080 | 1090 | 2110 | 18400 | 2830 | 25900 | 12900 | 5490 | 2850 | 2820 | 47700 | 8190 |
| 3 | 1060 | 1050 | 2420 | 24000 | 2690 | 21500 | 12400 | 6380 | 2730 | 2130 | 45400 | 7180 |
| 4 | 1050 | 1020 | 5220 | 24000 | 2730 | 25000 | 11400 | 7330 | 2430 | 2510 | 38800 | 6460 |
| 5 | 1040 | 987 | 6620 | 20000 | 2590 | 31700 | 11800 | 7110 | 2260 | 2720 | 35000 | 6030 |
| 6 | 1050 | 950 | 6910 | 13000 | 2440 | 37000 | 10500 | 6370 | 2130 | 3560 | 30200 | 5700 |
| 7 | 1040 | 935 | 6800 | 8600 | 2370 | 44500 | 9040 | 5820 | 2180 | 3080 | 24000 | 5520 |
| 8 | 1010 | 927 | 9500 | 7000 | 2440 | 45600 | 8470 | 5440 | 4270 | 2770 | 14800 | 5310 |
| 9 | 987 | 942 | 13100 | 5900 | 2400 | 37400 | 10500 | 5190 | 7770 | 2590 | 8560 | 5130 |
| 10 | 964 | 957 | 11300 | 4900 | 2700 | 29300 | 12000 | 4930 | 6920 | 2660 | 7010 | 4930 |
| 11 | 981 | 935 | 8740 | 4400 | 2850 | 20800 | 12500 | 4740 | 5830 | 2660 | 6490 | 4820 |
| 12 | 1240 | 905 | 6920 | 3900 | 2500 | 13700 | 16600 | 4830 | 4730 | 2850 | 6690 | 4680 |
| 13 | 3260 | 890 | 5690 | 3800 | 2300 | 10600 | 21000 | 5270 | 4000 | 13000 | 6150 | 4580 |
| 14 | 3560 | 890 | 4660 | 3800 | 2120 | 9570 | 23900 | 5290 | 3770 | 19100 | 5520 | 4470 |
| 15 | 3650 | 950 | 4120 | 3700 | 2180 | 8990 | 25200 | 5480 | 3430 | 23800 | 5530 | 4100 |
| 16 | 2900 | 1500 | 3760 | 3390 | 2200 | 8660 | 22400 | 4450 | 2890 | 28300 | 5400 | 4320 |
| 17 | 2580 | 2730 | 3890 | 3340 | 2150 | 8190 | 18200 | 3610 | 2540 | 33800 | 5000 | 4260 |
| 18 | 2370 | 4770 | 3790 | 3460 | 2000 | 7730 | 13800 | 3210 | 2310 | 36000 | 4890 | 4200 |
| 19 | 2200 | 5980 | 3600 | 3440 | 1900 | 7500 | 10500 | 2970 | 2150 | 28100 | 5120 | 4130 |
| 20 | 1860 | 5740 | 3550 | 3590 | 1850 | 7760 | 8960 | 3220 | 2120 | 12300 | 8490 | 4050 |
| 21 | 1640 | 5070 | 4370 | 4680 | 2930 | 7860 | 8140 | 2900 | 2550 | 6150 | 12000 | 4070 |
| 22 | 1520 | 4470 | 4740 | 4700 | 6250 | 7660 | 7590 | 2660 | 3320 | 5200 | 13300 | 4010 |
| 23 | 1440 | 3930 | 4480 | 4800 | 14300 | 9390 | 7080 | 2550 | 2920 | 4730 | 15200 | 3960 |
| 24 | 1340 | 3460 | 3770 | 8410 | 20600 | 11900 | 6740 | 2460 | 2580 | 4450 | 15300 | 3960 |
| 25 | 1280 | 3020 | 3510 | 8360 | 24700 | 12200 | 6720 | 2380 | 2400 | 4670 | 13800 | 3890 |
| 26 | 1270 | 2750 | 3250 | 6660 | 28800 | 10500 | 6980 | 2330 | 2100 | 10700 | 12200 | 3810 |
| 27 | 1220 | 2700 | 2980 | 5300 | 32600 | 8900 | 6500 | 2660 | 1860 | 19000 | 11600 | 3730 |
| 28 | 1190 | 2520 | 2740 | 4590 | 32700 | 7900 | 6370 | 2670 | 1680 | 26900 | 11200 | 3670 |
| 29 | 1180 | 2390 | 2700 | 3940 | --- | 7630 | 6220 | 2770 | 1590 | 30400 | 11500 | 3600 |
| 30 | 1160 | 2260 | 2490 | 3550 | --- | 8540 | 5910 | 2620 | 1620 | 34500 | 12800 | 3540 |
| 31 | 1140 | --- | 6420 | 3340 | --- | 11300 | --- | 3150 | --- | 37200 | 12100 | --- |
| TOTAL | 49342 | 67828 | 156330 | 236950 | 211170 | 535480 | 352920 | 131880 | 92910 | 411350 | 492850 | 145370 |
| MEAN | 1592 | 2261 | 5043 | 7644 | 7542 | 17270 | 11760 | 4254 | 3097 | 13270 | 15900 | 4846 |
| MAX | 3650 | 5980 | 13100 | 24000 | 32700 | 45600 | 25200 | 7330 | 7770 | 37200 | 47700 | 9070 |
| MIN | 964 | 890 | 2110 | 3340 | 1850 | 7500 | 5910 | 2330 | 1590 | 2130 | 4890 | 3540 |
| CFSM | .34 | .48 | 1.08 | 1.63 | 1.61 | 3.68 | 2.51 | .91 | .66 | 2.83 | 3.39 | 1.03 |
| IN. | .39 | .54 | 1.24 | 1.88 | 1.68 | 4.25 | 2.80 | 1.05 | .74 | 3.26 | 3.91 | 1.15 |
| CAL YR 1978 | TOTAL | 2005370 | MEAN | 5494 | MAX | 44400 | MIN | 890 | CFSM | 1.17 | IN | 15.91 |
| WTR YR 1979 | TOTAL | 2884380 | MEAN | 7902 | MAX | 47700 | MIN | 890 | CFSM | 1.69 | IN | 22.89 |

03361000 BIG BLUE RIVER AT CARTHAGE, IN

LOCATION.--Lat 39°44'38", long 85°34'33", in SW¼SW¼ sec.18, T.15 N., R.9 E., Rush County, Hydrologic Unit 05120204, on right bank 300 ft (91 m) upstream from highway bridge, 0.5 mile (0.8 km) northwest of Carthage, 2.2 miles (3.5 km) downstream from Three Mile Creek, and at mile 50.7 (81.6 km).

DRAINAGE AREA.--184 mi² (477 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1961, published as Blue River at Carthage, Ind.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 859.33 ft (261.924 m) National Geodetic Vertical Datum of 1929. Prior to July 19, 1951, nonrecording gage at site 300 ft (91 m) downstream at same datum.

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

AVERAGE DISCHARGE.--29 years, 197 ft³/s (5.579 m³/s), 14.54 in/yr (369 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) Mar. 4, 1963, gage height, 14.62 ft (4.456 m), from floodmarks, from rating curve extended above 6,200 ft³/s (176 m³/s); minimum daily, 17 ft³/s (0.48 m³/s) Jan. 18, Aug. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 24 | 0100 | 4360 123 | 9.75 2.972 | July 29 | 1100 | 4040 114 | 9.69 2.954 |
| Mar. 4 | 0900 | 3720 105 | 9.24 2.816 | Aug. 2 | 1000 | *4220 120 | *10.25 3.124 |
| July 26 | 0400 | 2060 58.3 | 7.34 2.237 | | | | |

Minimum daily discharge, 55 ft³/s (1.56 m³/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|------|------|------|-------|-------|------|
| 1 | 64 | 77 | 93 | 1680 | 130 | 405 | 222 | 147 | 105 | 144 | 1170 | 305 |
| 2 | 58 | 76 | 93 | 1270 | 125 | 717 | 268 | 143 | 98 | 115 | 3790 | 267 |
| 3 | 58 | 76 | 391 | 590 | 125 | 1390 | 235 | 205 | 95 | 103 | 2110 | 241 |
| 4 | 61 | 73 | 839 | 404 | 125 | 3490 | 225 | 186 | 88 | 296 | 924 | 221 |
| 5 | 61 | 72 | 487 | 296 | 120 | 2250 | 224 | 164 | 87 | 260 | 625 | 204 |
| 6 | 68 | 69 | 330 | 230 | 115 | 901 | 216 | 153 | 638 | 167 | 514 | 191 |
| 7 | 59 | 69 | 263 | 180 | 120 | 687 | 195 | 145 | 361 | 133 | 437 | 179 |
| 8 | 55 | 69 | 497 | 150 | 115 | 571 | 191 | 139 | 280 | 117 | 372 | 166 |
| 9 | 55 | 64 | 665 | 130 | 115 | 484 | 305 | 134 | 271 | 132 | 305 | 158 |
| 10 | 56 | 67 | 382 | 125 | 115 | 441 | 269 | 129 | 231 | 138 | 302 | 154 |
| 11 | 76 | 67 | 264 | 120 | 115 | 365 | 379 | 127 | 183 | 114 | 514 | 148 |
| 12 | 87 | 67 | 218 | 120 | 115 | 312 | 969 | 155 | 149 | 105 | 372 | 143 |
| 13 | 329 | 67 | 196 | 120 | 115 | 290 | 652 | 153 | 132 | 303 | 293 | 150 |
| 14 | 268 | 94 | 169 | 140 | 110 | 299 | 712 | 131 | 122 | 854 | 238 | 281 |
| 15 | 190 | 97 | 157 | 120 | 110 | 260 | 500 | 140 | 113 | 823 | 212 | 217 |
| 16 | 152 | 91 | 146 | 120 | 105 | 234 | 374 | 122 | 106 | 438 | 194 | 175 |
| 17 | 127 | 306 | 133 | 120 | 100 | 220 | 305 | 115 | 111 | 282 | 182 | 157 |
| 18 | 112 | 479 | 126 | 130 | 100 | 212 | 264 | 111 | 255 | 206 | 178 | 149 |
| 19 | 104 | 281 | 126 | 120 | 97 | 208 | 236 | 108 | 217 | 167 | 357 | 143 |
| 20 | 95 | 201 | 135 | 120 | 110 | 204 | 220 | 108 | 246 | 143 | 530 | 138 |
| 21 | 88 | 167 | 248 | 491 | 134 | 193 | 205 | 105 | 426 | 128 | 878 | 147 |
| 22 | 84 | 144 | 201 | 330 | 376 | 183 | 191 | 101 | 235 | 121 | 729 | 143 |
| 23 | 81 | 140 | 164 | 222 | 2100 | 193 | 182 | 100 | 171 | 116 | 611 | 131 |
| 24 | 80 | 130 | 150 | 232 | 3070 | 197 | 179 | 101 | 141 | 606 | 452 | 126 |
| 25 | 81 | 117 | 142 | 186 | 1130 | 175 | 180 | 120 | 122 | 1340 | 365 | 123 |
| 26 | 103 | 111 | 126 | 165 | 566 | 159 | 178 | 113 | 111 | 1950 | 398 | 121 |
| 27 | 100 | 115 | 114 | 160 | 459 | 151 | 170 | 145 | 105 | 1620 | 530 | 118 |
| 28 | 100 | 110 | 106 | 150 | 380 | 149 | 186 | 132 | 100 | 1320 | 654 | 120 |
| 29 | 100 | 101 | 106 | 145 | --- | 161 | 162 | 111 | 107 | 3390 | 979 | 120 |
| 30 | 98 | 95 | 114 | 135 | --- | 163 | 156 | 103 | 206 | 1640 | 522 | 117 |
| 31 | 96 | --- | 412 | 130 | --- | 197 | --- | 112 | --- | 747 | 378 | --- |
| TOTAL | 3146 | 3692 | 7593 | 8631 | 10497 | 15861 | 8750 | 4058 | 5612 | 18018 | 20115 | 5053 |
| MEAN | 101 | 123 | 245 | 278 | 375 | 512 | 292 | 131 | 187 | 581 | 649 | 168 |
| MAX | 329 | 479 | 839 | 1680 | 3070 | 3490 | 969 | 205 | 638 | 3390 | 3790 | 305 |
| MIN | 55 | 64 | 93 | 120 | 97 | 149 | 156 | 100 | 87 | 103 | 178 | 117 |
| CFSM | .55 | .67 | 1.33 | 1.51 | 2.04 | 2.78 | 1.59 | .71 | 1.02 | 3.16 | 3.53 | .91 |
| IN. | .64 | .75 | 1.54 | 1.74 | 2.12 | 3.21 | 1.77 | .82 | 1.13 | 3.64 | 4.07 | 1.02 |

| | | | | | | | |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1978 | TOTAL | 77511 | MEAN 212 | MAX 2550 | MIN 55 | CFSM 1.15 | IN 15.67 |
| WTR YR 1979 | TOTAL | 111026 | MEAN 304 | MAX 3790 | MIN 55 | CFSM 1.65 | IN 22.45 |

WABASH RIVER BASIN

03361000 BIG BLUE RIVER AT CARTHAGE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: July 1973 to September 1977.

WATER TEMPERATURE: November 1974 to September 1977.

SUSPENDED SEDIMENT DISCHARGE: October 1977 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

REMARKS.--Sediment-discharge record fair.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 26.5°C July 11, 1976; minimum freezing point on several days during the winter period.

SPECIFIC CONDUCTANCE: Maximum, 996 micromhos Feb. 7, 1977; minimum, 114 micromhos Jan. 27, 1976.

SEDIMENT CONCENTRATIONS: Maximum daily, 757 mg/L June 6, 1979; minimum daily, 8 mg/L Jan. 6, 1978, Jan. 20, 1979.

SEDIMENT LOADS: Maximum daily, 2130 tons (1930 tonnes) Mar. 4, 1979; minimum daily, 1.6 tons (1.45 tonnes) Sept. 25, 29, 1978.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 757 mg/L June 6; minimum daily, 8 mg/L Jan. 20.

SEDIMENT LOADS: Maximum daily load, 2130 tons (1930 tonnes) Mar. 4; minimum daily, 2.4 tons (2.18 tonnes) Nov. 8-10.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 22 | 3.8 | 33 | 6.9 | 41 | 10 | --- | --- | 9 | 3.2 | 34 | 37 |
| 2 | 18 | 2.8 | 32 | 6.6 | 38 | 9.5 | --- | --- | 20 | 6.8 | 103 | 226 |
| 3 | 17 | 2.7 | 29 | 6.0 | 180 | 302 | --- | --- | 48 | 16 | 297 | 1170 |
| 4 | 19 | 3.1 | 26 | 5.1 | 207 | 497 | --- | --- | 29 | 9.8 | 234 | 2130 |
| 5 | 19 | 3.1 | 22 | 4.3 | 70 | 92 | --- | --- | 16 | 5.2 | 246 | 1450 |
| 6 | 22 | 4.0 | 19 | 3.5 | 42 | 37 | --- | --- | 17 | 5.3 | 130 | 316 |
| 7 | 18 | 2.9 | 15 | 2.8 | 34 | 24 | --- | --- | 16 | 5.2 | 78 | 145 |
| 8 | 18 | 2.7 | 13 | 2.4 | 92 | 123 | --- | --- | 17 | 5.3 | 63 | 97 |
| 9 | 17 | 2.5 | 14 | 2.4 | 89 | 160 | --- | --- | 18 | 5.6 | 47 | 61 |
| 10 | 18 | 2.7 | 13 | 2.4 | 35 | 36 | --- | --- | 18 | 5.6 | 38 | 45 |
| 11 | 25 | 5.1 | 14 | 2.5 | 29 | 21 | --- | --- | 19 | 5.9 | 37 | 36 |
| 12 | 24 | 5.6 | 14 | 2.5 | 29 | 17 | 28 | 9.1 | 21 | 6.5 | 52 | 44 |
| 13 | 172 | 176 | 15 | 2.7 | 29 | 15 | 30 | 9.7 | 16 | 5.0 | 45 | 35 |
| 14 | 62 | 45 | 31 | 7.9 | 20 | 9.1 | 48 | 18 | 13 | 3.9 | 77 | 62 |
| 15 | 29 | 15 | 16 | 4.2 | 20 | 8.5 | 22 | 7.1 | 14 | 4.2 | 79 | 55 |
| 16 | 22 | 9.0 | 14 | 3.4 | 25 | 9.9 | 25 | 8.1 | 13 | 3.7 | 78 | 49 |
| 17 | 21 | 7.2 | 98 | 81 | 26 | 9.3 | 25 | 8.1 | 14 | 3.8 | 82 | 49 |
| 18 | 20 | 6.0 | 91 | 118 | 23 | 7.8 | 38 | 13 | 11 | 3.0 | 60 | 34 |
| 19 | 20 | 5.6 | 42 | 32 | 31 | 11 | 12 | 3.9 | 10 | 2.6 | 57 | 32 |
| 20 | 19 | 4.9 | 22 | 12 | --- | --- | 8 | 2.6 | 15 | 4.5 | 50 | 28 |
| 21 | 19 | 4.5 | 14 | 6.3 | --- | --- | 200 | 265 | 10 | 3.6 | 46 | 24 |
| 22 | 18 | 4.1 | 14 | 5.4 | --- | --- | 80 | 71 | 79 | 80 | 44 | 22 |
| 23 | 18 | 3.9 | 18 | 6.8 | --- | --- | 29 | 17 | 320 | 1810 | 39 | 20 |
| 24 | 18 | 3.9 | 25 | 8.8 | --- | --- | 12 | 7.5 | 163 | 1350 | 37 | 20 |
| 25 | 17 | 3.7 | 24 | 7.6 | --- | --- | 10 | 5.0 | 125 | 381 | 30 | 14 |
| 26 | 35 | 9.7 | 25 | 7.5 | --- | --- | 13 | 5.8 | 57 | 87 | 36 | 15 |
| 27 | 39 | 11 | 30 | 9.3 | --- | --- | 11 | 4.8 | 41 | 51 | 31 | 13 |
| 28 | 37 | 10 | 50 | 15 | --- | --- | 17 | 6.9 | 28 | 29 | 27 | 11 |
| 29 | 36 | 9.7 | 42 | 11 | --- | --- | 15 | 5.9 | --- | --- | 40 | 17 |
| 30 | 35 | 9.3 | 43 | 11 | --- | --- | 25 | 9.1 | --- | --- | 31 | 14 |
| 31 | 34 | 8.8 | --- | --- | --- | --- | 16 | 5.6 | --- | --- | 40 | 21 |
| TOTAL | --- | 388.3 | --- | 397.3 | | | | | --- | 3902.7 | --- | 6292 |

03361000 BIG BLUE RIVER AT CARTHAGE, IN--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
| 1 | 29 | 17 | 54 | 21 | 60 | 17 | 63 | 24 | 334 | 1180 | 158 | 130 |
| 2 | 28 | 20 | 50 | 19 | 65 | 17 | 49 | 15 | 189 | 1930 | 136 | 98 |
| 3 | 22 | 14 | 90 | 50 | 68 | 17 | 43 | 12 | 166 | 879 | 125 | 81 |
| 4 | 17 | 10 | 94 | 47 | 69 | 16 | 268 | 214 | 180 | 490 | 119 | 71 |
| 5 | 18 | 11 | 89 | 39 | 71 | 17 | 102 | 72 | 107 | 181 | 114 | 63 |
| 6 | 20 | 12 | 92 | 38 | 757 | 1580 | 73 | 33 | 92 | 128 | 110 | 57 |
| 7 | 22 | 12 | 90 | 35 | 151 | 147 | 67 | 24 | 85 | 100 | 105 | 51 |
| 8 | 25 | 13 | 80 | 30 | 85 | 64 | 64 | 20 | 81 | 81 | 100 | 45 |
| 9 | 51 | 42 | 80 | 29 | 88 | 64 | --- | --- | 77 | 63 | 95 | 41 |
| 10 | 38 | 28 | 68 | 24 | 80 | 50 | --- | --- | 90 | 73 | 89 | 37 |
| 11 | 175 | 179 | 53 | 18 | 88 | 43 | --- | --- | 200 | 278 | 84 | 34 |
| 12 | 460 | 1200 | 50 | 21 | 83 | 33 | --- | --- | 130 | 131 | 77 | 30 |
| 13 | 205 | 361 | 31 | 13 | 78 | 28 | --- | --- | 115 | 91 | 83 | 34 |
| 14 | 252 | 484 | 40 | 14 | 84 | 28 | --- | --- | 102 | 66 | 104 | 79 |
| 15 | 112 | 151 | 46 | 17 | 84 | 26 | --- | --- | 96 | 55 | 71 | 42 |
| 16 | 84 | 85 | 45 | 15 | 87 | 25 | --- | --- | 93 | 49 | 66 | 31 |
| 17 | 85 | 70 | 36 | 11 | --- | --- | --- | --- | 93 | 46 | 61 | 26 |
| 18 | 103 | 73 | 54 | 16 | --- | --- | --- | --- | 87 | 42 | 52 | 21 |
| 19 | 107 | 68 | 37 | 11 | --- | --- | --- | --- | 150 | 145 | 42 | 16 |
| 20 | 92 | 55 | 33 | 9.6 | --- | --- | --- | --- | 200 | 286 | 31 | 12 |
| 21 | 82 | 45 | 38 | 11 | --- | --- | --- | --- | 316 | 749 | 45 | 18 |
| 22 | 76 | 39 | 46 | 13 | --- | --- | --- | --- | 302 | 594 | 42 | 16 |
| 23 | 70 | 34 | 40 | 11 | --- | --- | --- | --- | 254 | 419 | 31 | 11 |
| 24 | 64 | 31 | 38 | 10 | --- | --- | --- | --- | 208 | 254 | 28 | 9.5 |
| 25 | 60 | 29 | 60 | 19 | --- | --- | --- | --- | 190 | 187 | 26 | 8.6 |
| 26 | 58 | 28 | 50 | 15 | --- | --- | 185 | 974 | 273 | 293 | 26 | 8.5 |
| 27 | 56 | 26 | 100 | 39 | --- | --- | 197 | 862 | 322 | 461 | 23 | 7.3 |
| 28 | 66 | 33 | 75 | 27 | --- | --- | 254 | 941 | 303 | 535 | 39 | 13 |
| 29 | 62 | 27 | 66 | 20 | --- | --- | 210 | 1920 | 291 | 769 | 23 | 7.5 |
| 30 | 58 | 24 | 61 | 17 | --- | --- | 176 | 779 | 232 | 327 | 20 | 6.3 |
| 31 | --- | --- | 61 | 18 | --- | --- | 130 | 262 | 192 | 196 | --- | --- |
| TOTAL | --- | 3221 | --- | 677.6 | --- | --- | --- | --- | --- | 11078 | --- | 1104.7 |

WABASH RIVER BASIN

03361000 BIG BLUE RIVER AT CARTHAGE, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|---|---|--|---|---|---|---|---|
| MAR 04... | 0900 | 3720 | 804 | 8080 | 85 | 86 | 94 | 99 | 100 |
| JUN 29... | 1245 | 102 | 110 | 30 | 86 | 99 | 99 | 100 | -- |
| JUL 25... | 1100 | 1130 | 374 | 1140 | 92 | 93 | 96 | 99 | 100 |
| AUG 02... | 0720 | 4070 | 212 | 2330 | 97 | 100 | -- | -- | -- |
| 02... | 1850 | 3760 | 135 | 1370 | 97 | 100 | -- | -- | -- |
| 15... | 1650 | 211 | 163 | 93 | 85 | 97 | 100 | -- | -- |

03361500 BIG BLUE RIVER AT SHELBYVILLE, IN

LOCATION.--Lat 39°31'45", long 85°46'55", in SE¼SE¼ sec.31, T.13 N., R.7 E., Shelby County, Hydrologic Unit 05120204, on left bank 0.2 mile (0.3 km) downstream from bridge on U.S. Highway 421 at Shelbyville, 0.6 mile (1.0 km) downstream from Little Blue River, and at mile 23.9 (38.4 km).

DRAINAGE AREA.--421 mi² (1,090 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.

REVISED RECORDS.--WSP 1505: 1944. WSP 1909: 1959(M). WSP 2109: Drainage area. WDR IN-78-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft (224.842 m) National Geodetic Vertical Datum of 1929.

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.

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

AVERAGE DISCHARGE.--36 years, 462 ft³/s (13.08 m³/s), 14.90 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 5, 1963, gage height, 17.70 ft (5.395 m); minimum daily, 27 ft³/s (0.76 m³/s) Jan. 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 20.2 ft (6.16 m) from flood-marks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,400 ft³/s (96.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 2 | 1000 | 3780 107 | 11.95 3.642 | July 30 | 1700 | 6250 177 | 14.15 4.313 |
| Feb. 24 | 2000 | *7430 210 | *15.12 4.609 | Aug. 3 | 1800 | 6070 172 | 13.97 4.258 |
| Mar. 5 | 1000 | 7320 207 | 15.03 4.581 | | | | |

Minimum daily discharge, 110 ft³/s (3.12 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|---------|-----------|----------|------|-------|-------|-------|-------|
| 1 | 119 | 143 | 187 | 3000 | 255 | 1100 | 639 | 322 | 376 | 337 | 2440 | 724 |
| 2 | 120 | 142 | 184 | 3700 | 250 | 1790 | 813 | 309 | 273 | 257 | 4270 | 608 |
| 3 | 117 | 141 | 366 | 1500 | 250 | 3160 | 736 | 479 | 234 | 225 | 5700 | 538 |
| 4 | 118 | 140 | 1940 | 980 | 240 | 5720 | 654 | 580 | 215 | 905 | 4180 | 477 |
| 5 | 118 | 138 | 1510 | 700 | 230 | 6920 | 682 | 470 | 201 | 1150 | 1630 | 430 |
| 6 | 120 | 135 | 1010 | 500 | 230 | 4160 | 599 | 403 | 436 | 656 | 1190 | 396 |
| 7 | 120 | 135 | 769 | 390 | 240 | 2070 | 524 | 363 | 662 | 443 | 958 | 363 |
| 8 | 114 | 133 | 1200 | 340 | 230 | 1640 | 502 | 335 | 506 | 342 | 798 | 332 |
| 9 | 111 | 133 | 1940 | 320 | 225 | 1330 | 921 | 312 | 432 | 358 | 665 | 309 |
| 10 | 110 | 130 | 1280 | 300 | 220 | 1140 | 924 | 297 | 433 | 611 | 627 | 296 |
| 11 | 121 | 130 | 881 | 285 | 215 | 981 | 911 | 291 | 344 | 427 | 884 | 285 |
| 12 | 144 | 130 | 679 | 280 | 210 | 829 | 2370 | 312 | 292 | 320 | 829 | 275 |
| 13 | 334 | 129 | 587 | 285 | 210 | 746 | 2150 | 403 | 258 | 589 | 620 | 276 |
| 14 | 681 | 137 | 508 | 320 | 210 | 727 | 2020 | 328 | 241 | 1500 | 502 | 440 |
| 15 | 428 | 162 | 450 | 280 | 200 | 661 | 1560 | 300 | 222 | 1340 | 418 | 539 |
| 16 | 309 | 164 | 405 | 270 | 190 | 582 | 1130 | 282 | 207 | 1150 | 373 | 391 |
| 17 | 248 | 339 | 361 | 280 | 190 | 542 | 896 | 260 | 199 | 717 | 341 | 326 |
| 18 | 211 | 1200 | 325 | 300 | 185 | 517 | 754 | 249 | 291 | 526 | 323 | 299 |
| 19 | 193 | 833 | 317 | 290 | 175 | 501 | 652 | 244 | 297 | 408 | 492 | 281 |
| 20 | 181 | 554 | 329 | 275 | 169 | 488 | 584 | 238 | 542 | 337 | 1070 | 265 |
| 21 | 170 | 416 | 550 | 964 | 181 | 459 | 536 | 231 | 988 | 292 | 2330 | 263 |
| 22 | 160 | 332 | 580 | 1030 | 745 | 428 | 493 | 220 | 683 | 270 | 2130 | 272 |
| 23 | 153 | 296 | 464 | 637 | 3730 | 447 | 450 | 215 | 459 | 253 | 1650 | 250 |
| 24 | 147 | 283 | 404 | 601 | 6690 | 492 | 434 | 213 | 345 | 393 | 1130 | 236 |
| 25 | 146 | 247 | 377 | 494 | 5440 | 432 | 426 | 223 | 290 | 2440 | 877 | 229 |
| 26 | 155 | 229 | 326 | 370 | 2100 | 373 | 422 | 237 | 258 | 3270 | 780 | 223 |
| 27 | 169 | 224 | 288 | 330 | 1660 | 338 | 400 | 241 | 239 | 3380 | 1170 | 220 |
| 28 | 164 | 221 | 261 | 300 | 1180 | 325 | 396 | 268 | 226 | 3850 | 1120 | 221 |
| 29 | 156 | 205 | 261 | 280 | --- | 342 | 370 | 232 | 227 | 5550 | 1820 | 229 |
| 30 | 148 | 197 | 265 | 270 | --- | 359 | 342 | 210 | 311 | 6110 | 1300 | 224 |
| 31 | 145 | --- | 670 | 265 | --- | 524 | --- | 269 | --- | 3860 | 912 | --- |
| TOTAL | 5730 | 7798 | 19674 | 20136 | 26050 | 40123 | 24290 | 9336 | 10687 | 42266 | 43529 | 10217 |
| MEAN | 185 | 260 | 635 | 650 | 930 | 1294 | 810 | 301 | 356 | 1363 | 1404 | 341 |
| MAX | 681 | 1200 | 1940 | 3700 | 6690 | 6920 | 2370 | 580 | 988 | 6110 | 5700 | 724 |
| MIN | 110 | 129 | 184 | 265 | 169 | 325 | 342 | 210 | 199 | 225 | 323 | 220 |
| CFSM | .44 | .62 | 1.51 | 1.54 | 2.21 | 3.07 | 1.92 | .72 | .85 | 3.24 | 3.34 | .81 |
| IN. | .51 | .69 | 1.74 | 1.78 | 2.30 | 3.55 | 2.15 | .82 | .94 | 3.73 | 3.85 | .90 |
| CAL YR 1978 | TOTAL | 197556 | MEAN 541 | MAX 6230 | MIN 110 | CFSM 1.29 | IN 17.46 | | | | | |
| WTR YR 1979 | TOTAL | 259836 | MEAN 712 | MAX 6920 | MIN 110 | CFSM 1.69 | IN 22.96 | | | | | |

WABASH RIVER BASIN

03361500 BIG BLUE RIVER AT SHELBYVILLE, IN

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1978 (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|--------------|------|---|---|--|---|---|---|---|---|
| AUG 02... | 1335 | 4180 | 174 | 1960 | 94 | 96 | 98 | 99 | 100 |

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--39°42'51", long 85°53'08", in SE¼SW¼ sec.29, T.15 N., R.6 E., Hancock County, Hydrologic Unit 05120204, on left bank 10 ft (3 m) downstream from bridge on County Road 450 West, 0.5 mile (0.8 km) south of New Palestine, 3.1 miles (5.0 km) upstream from Little Sugar Creek, and 37.3 miles (60.0 km) upstream from mouth.

DRAINAGE AREA.--93.9 mi² (243.2 km²).

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IN-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 786.00 ft (239.573 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--12 years, 104 ft³/s (2.945 m³/s), 15.04 in/yr (382 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) June 23, 1974, gage height, 9.12 ft (2.780 m); maximum gage height, 10.34 ft (3.152 m) Feb. 23, 1979 (ice jam); minimum daily discharge, 3.2 ft³/s (0.091 m³/s) Oct. 7, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 950 ft³/s (26.9 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Feb. 23 | 2300 | ---- | ---- | ^a 10.34 | 3.152 | July 29 | 0400 | 1300 | 36.8 | 8.36 | 2.548 |
| Feb. 24 | ---- | 1600 | 45.3 | ice jam | | Aug. 3 | 1500 | 1640 | 46.4 | 9.15 | 2.789 |
| Mar. 4 | 1600 | *1650 | 46.7 | 8.69 | 2.649 | | | | | | |

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Oct. 9-11.

^aIce jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 17 | 26 | 48 | 903 | 54 | 320 | 161 | 57 | 30 | 40 | 737 | 116 |
| 2 | 16 | 24 | 46 | 843 | 52 | 449 | 168 | 54 | 30 | 44 | 1130 | 93 |
| 3 | 15 | 24 | 198 | 655 | 54 | 824 | 152 | 62 | 28 | 32 | 1390 | 79 |
| 4 | 16 | 24 | 375 | 328 | 52 | 1560 | 130 | 61 | 25 | 117 | 1090 | 70 |
| 5 | 16 | 24 | 334 | 222 | 50 | 1470 | 122 | 57 | 23 | 266 | 402 | 63 |
| 6 | 17 | 22 | 204 | 155 | 54 | 993 | 112 | 53 | 24 | 156 | 255 | 56 |
| 7 | 15 | 22 | 151 | 120 | 50 | 523 | 104 | 51 | 92 | 90 | 188 | 51 |
| 8 | 15 | 22 | 304 | 100 | 50 | 390 | 102 | 49 | 92 | 64 | 147 | 45 |
| 9 | 14 | 22 | 404 | 84 | 48 | 311 | 163 | 47 | 80 | 115 | 118 | 42 |
| 10 | 14 | 21 | 301 | 66 | 47 | 262 | 194 | 45 | 66 | 125 | 99 | 38 |
| 11 | 14 | 21 | 179 | 55 | 46 | 212 | 258 | 43 | 52 | 126 | 128 | 37 |
| 12 | 15 | 20 | 131 | 50 | 45 | 170 | 731 | 48 | 43 | 76 | 92 | 34 |
| 13 | 131 | 20 | 110 | 49 | 48 | 149 | 682 | 49 | 36 | 311 | 76 | 33 |
| 14 | 172 | 25 | 94 | 50 | 45 | 146 | 644 | 46 | 31 | 353 | 64 | 36 |
| 15 | 149 | 34 | 83 | 49 | 45 | 131 | 470 | 45 | 28 | 253 | 56 | 34 |
| 16 | 111 | 37 | 76 | 48 | 45 | 115 | 299 | 41 | 25 | 149 | 51 | 39 |
| 17 | 83 | 207 | 68 | 47 | 45 | 105 | 213 | 37 | 25 | 105 | 46 | 34 |
| 18 | 66 | 344 | 63 | 50 | 46 | 101 | 165 | 35 | 26 | 77 | 45 | 31 |
| 19 | 55 | 312 | 60 | 48 | 48 | 98 | 135 | 33 | 128 | 60 | 76 | 29 |
| 20 | 48 | 181 | 68 | 47 | 50 | 94 | 116 | 33 | 78 | 49 | 222 | 27 |
| 21 | 43 | 127 | 152 | 224 | 60 | 89 | 103 | 32 | 67 | 42 | 572 | 27 |
| 22 | 38 | 100 | 160 | 223 | 150 | 84 | 92 | 30 | 76 | 38 | 593 | 26 |
| 23 | 34 | 88 | 117 | 145 | 1000 | 90 | 84 | 28 | 54 | 35 | 376 | 25 |
| 24 | 32 | 80 | 98 | 130 | 1500 | 105 | 80 | 28 | 40 | 94 | 219 | 24 |
| 25 | 31 | 70 | 87 | 105 | 650 | 97 | 79 | 29 | 34 | 118 | 149 | 23 |
| 26 | 32 | 64 | 75 | 90 | 420 | 82 | 77 | 30 | 28 | 277 | 121 | 21 |
| 27 | 32 | 62 | 65 | 78 | 320 | 73 | 71 | 34 | 24 | 380 | 126 | 21 |
| 28 | 31 | 59 | 60 | 70 | 260 | 69 | 69 | 33 | 22 | 691 | 174 | 20 |
| 29 | 30 | 55 | 53 | 64 | --- | 76 | 66 | 43 | 29 | 1160 | 324 | 20 |
| 30 | 29 | 51 | 54 | 60 | --- | 90 | 62 | 35 | 37 | 1030 | 246 | 20 |
| 31 | 27 | --- | 267 | 55 | --- | 132 | --- | 32 | --- | 848 | 159 | --- |
| TOTAL | 1358 | 2188 | 4485 | 5213 | 5334 | 9410 | 5904 | 1300 | 1373 | 7321 | 9471 | 1214 |
| MEAN | 43.8 | 72.9 | 145 | 168 | 191 | 304 | 197 | 41.9 | 45.8 | 236 | 306 | 40.5 |
| MAX | 172 | 344 | 404 | 903 | 1500 | 1560 | 731 | 62 | 128 | 1160 | 1390 | 116 |
| MIN | 14 | 20 | 46 | 47 | 45 | 69 | 62 | 28 | 22 | 32 | 45 | 20 |
| CFSM | .47 | .78 | 1.54 | 1.79 | 2.03 | 3.24 | 2.10 | .45 | .49 | 2.51 | 3.26 | .43 |
| IN. | .54 | .87 | 1.78 | 2.07 | 2.11 | 3.73 | 2.34 | .52 | .54 | 2.90 | 3.75 | .48 |
| CAL YR 1978 | TOTAL | 42620 | MEAN | 117 | MAX | 1520 | MIN | 14 | CFSM | 1.25 | IN | 16.88 |
| WTR YR 1979 | TOTAL | 54571 | MEAN | 150 | MAX | 1560 | MIN | 14 | CFSM | 1.60 | IN | 21.62 |

WABASH RIVER BASIN

03361850 BUCK CREEK AT ACTON, IN

LOCATION.--Lat 39°39'25", long 85°57'27", in NW¼SE¼ sec.15, T.14 N., R.5 E., Marion County, Hydrologic Unit 05120204, on left bank 30 ft (9 m) downstream from McGregor Road bridge, 0.5 mile (0.8 km) east of Acton, and 4.1 miles (6.6 km) upstream from mouth.

DRAINAGE AREA.--78.8 mi² (204.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft (230.734 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--12 years, 95.4 ft³/s (2.702 m³/s), 16.44 in/yr (418 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,140 ft³/s (202 m³/s) (revised) July 20, 1969, gage height, 14.99 ft (4.569 m); minimum daily, 0.60 ft³/s (0.017 m³/s) Oct. 1, 4, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Jan. 1 | 0700 | 1920 | 54.4 | 9.71 | 2.960 | July 13 | 2215 | 1940 | 54.9 | 10.07 | 3.069 |
| Feb. 24 | 2300 | *2580 | 73.1 | *11.3 | 3.44 | July 29 | 0600 | 2440 | 69.1 | 10.96 | 3.341 |
| Mar. 4 | 1330 | 2280 | 64.6 | 10.70 | 3.261 | Aug. 2 | 0745 | 2510 | 71.1 | 11.08 | 3.377 |
| Apr. 12 | 1100 | 1500 | 42.5 | 9.00 | 2.743 | | | | | | |

Minimum daily discharge, 5.6 ft³/s (0.16 m³/s) Sept. 24.

REVISIONS.--The maximum discharge for the water year 1969 has been revised to 7,140 ft³/s (202 m³/s) July 20, 1969, gage height, 14.99 ft (4.569 m), superseding figure published in the report of 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|----------|----------|---------|-----------|----------|------|-------|------|------|-------|
| 1 | 13 | 17 | 42 | 1720 | 32 | 201 | 186 | 35 | 22 | 19 | 911 | 71 |
| 2 | 12 | 11 | 39 | 780 | 31 | 459 | 190 | 32 | 23 | 11 | 2040 | 54 |
| 3 | 12 | 8.5 | 295 | 270 | 32 | 1020 | 136 | 56 | 22 | 12 | 635 | 44 |
| 4 | 12 | 9.5 | 492 | 157 | 31 | 2180 | 116 | 43 | 20 | 127 | 245 | 37 |
| 5 | 12 | 16 | 213 | 115 | 30 | 1300 | 108 | 38 | 20 | 133 | 154 | 31 |
| 6 | 13 | 16 | 146 | 92 | 32 | 494 | 87 | 35 | 17 | 70 | 109 | 30 |
| 7 | 11 | 11 | 126 | 70 | 30 | 336 | 72 | 32 | 25 | 42 | 84 | 25 |
| 8 | 11 | 14 | 434 | 58 | 30 | 257 | 74 | 29 | 42 | 30 | 66 | 20 |
| 9 | 9.9 | 11 | 459 | 48 | 29 | 203 | 210 | 25 | 72 | 203 | 50 | 18 |
| 10 | 10 | 13 | 196 | 40 | 29 | 181 | 160 | 26 | 52 | 236 | 45 | 17 |
| 11 | 14 | 9.5 | 127 | 35 | 28 | 142 | 332 | 29 | 29 | 97 | 66 | 17 |
| 12 | 19 | 11 | 102 | 30 | 27 | 113 | 1160 | 56 | 25 | 54 | 50 | 16 |
| 13 | 243 | 12 | 91 | 30 | 28 | 106 | 512 | 68 | 24 | 1170 | 37 | 18 |
| 14 | 161 | 15 | 75 | 32 | 27 | 114 | 637 | 43 | 21 | 1220 | 31 | 20 |
| 15 | 111 | 25 | 68 | 29 | 26 | 96 | 289 | 47 | 13 | 452 | 27 | 14 |
| 16 | 78 | 25 | 60 | 28 | 25 | 83 | 183 | 33 | 17 | 233 | 23 | 13 |
| 17 | 56 | 322 | 54 | 29 | 25 | 80 | 133 | 29 | 18 | 146 | 21 | 12 |
| 18 | 44 | 393 | 46 | 30 | 24 | 75 | 105 | 27 | 45 | 106 | 22 | 12 |
| 19 | 42 | 180 | 43 | 29 | 25 | 71 | 87 | 26 | 25 | 80 | 69 | 11 |
| 20 | 37 | 126 | 58 | 28 | 25 | 71 | 77 | 25 | 19 | 67 | 170 | 13 |
| 21 | 33 | 100 | 215 | 250 | 35 | 62 | 71 | 21 | 14 | 58 | 383 | 14 |
| 22 | 23 | 82 | 127 | 151 | 293 | 58 | 62 | 22 | 16 | 51 | 174 | 14 |
| 23 | 23 | 81 | 93 | 88 | 1560 | 107 | 57 | 19 | 14 | 50 | 117 | 11 |
| 24 | 29 | 73 | 83 | 146 | 1730 | 144 | 55 | 20 | 13 | 271 | 83 | 5.6 |
| 25 | 29 | 60 | 72 | 100 | 647 | 96 | 55 | 19 | 11 | 189 | 59 | 11 |
| 26 | 34 | 56 | 57 | 70 | 297 | 72 | 51 | 28 | 11 | 193 | 66 | 12 |
| 27 | 30 | 59 | 46 | 52 | 215 | 63 | 46 | 46 | 7.0 | 231 | 113 | 8.9 |
| 28 | 14 | 54 | 37 | 44 | 168 | 63 | 49 | 32 | 9.6 | 914 | 206 | 8.2 |
| 29 | 12 | 45 | 37 | 37 | --- | 87 | 42 | 24 | 24 | 2010 | 379 | 7.9 |
| 30 | 12 | 47 | 45 | 35 | --- | 123 | 37 | 23 | 58 | 877 | 160 | 7.6 |
| 31 | 17 | --- | 457 | 34 | --- | 217 | --- | 24 | --- | 316 | 99 | --- |
| TOTAL | 1176.9 | 1902.5 | 4435 | 4657 | 5511 | 8674 | 5379 | 1012 | 728.6 | 9668 | 6694 | 593.2 |
| MEAN | 38.0 | 63.4 | 143 | 150 | 197 | 280 | 179 | 32.6 | 24.3 | 312 | 216 | 19.8 |
| MAX | 243 | 393 | 492 | 1720 | 1730 | 2180 | 1160 | 68 | 72 | 2010 | 2040 | 71 |
| MIN | 9.9 | 8.5 | 37 | 28 | 24 | 58 | 37 | 19 | 7.0 | 11 | 21 | 5.6 |
| CFSM | .48 | .81 | 1.82 | 1.90 | 2.50 | 3.55 | 2.27 | .41 | .31 | 3.96 | 2.74 | .25 |
| IN. | .56 | .90 | 2.09 | 2.20 | 2.60 | 4.09 | 2.54 | .48 | .34 | 4.56 | 3.16 | .28 |
| CAL YR 1978 | TOTAL | 45051.5 | MEAN 123 | MAX 2890 | MIN 8.5 | CFSM 1.56 | IN 21.27 | | | | | |
| WTR YR 1979 | TOTAL | 50431.2 | MEAN 138 | MAX 2180 | MIN 5.6 | CFSM 1.75 | IN 23.81 | | | | | |

03361850 BUCK CREEK AT ACTON, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: June 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. %FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. %FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. %FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. %FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. %FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|--|--|--|--|--|
| FEB | | | | | | | | | | |
| 27... | 1500 | -- | 227 | 41 | 25 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | |
| 20... | 0745 | -- | 76 | 62 | 12 | -- | -- | -- | -- | -- |
| 27... | 0825 | 12.0 | 49 | 23 | 3.0 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 18... | 0950 | 16.0 | 26 | 75 | 5.3 | -- | -- | -- | -- | -- |
| 25... | 1120 | -- | 15 | 40 | 1.6 | -- | -- | -- | -- | -- |
| 31... | 1210 | -- | 24 | 96 | 6.2 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 01... | 0935 | 19.0 | 23 | 47 | 3.0 | -- | -- | -- | -- | -- |
| 08... | 1300 | -- | 35 | 37 | 3.5 | -- | -- | -- | -- | -- |
| 15... | 0800 | 20.0 | 13 | 32 | 1.1 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | |
| 06... | 1235 | -- | 65 | 133 | 23 | 96 | 98 | 99 | 100 | -- |
| 13... | 1530 | -- | 1800 | 495 | 2410 | 96 | 98 | 99 | 100 | -- |
| 20... | 0940 | 19.5 | 68 | 56 | 10 | 88 | 92 | 95 | 98 | 100 |
| 25... | 1100 | -- | 183 | 139 | 69 | 98 | 99 | 99 | 100 | -- |
| 27... | 0940 | -- | 252 | 172 | 117 | 96 | 97 | 98 | 99 | 100 |
| 28... | 1145 | -- | 322 | 248 | 216 | 99 | -- | -- | -- | -- |
| 29... | 0810 | -- | 2410 | 95 | 618 | 70 | 92 | 98 | 100 | -- |
| 29... | 1310 | -- | 2160 | 355 | 2070 | 91 | 94 | 97 | 99 | 100 |
| AUG | | | | | | | | | | |
| 02... | 1235 | 22.0 | 2320 | 168 | 1050 | 98 | 99 | 99 | 100 | -- |
| 02... | 1510 | -- | 2080 | 120 | 674 | 95 | 96 | 99 | 100 | -- |
| 03... | 1530 | -- | 506 | 79 | 108 | 93 | 96 | 98 | 99 | 100 |
| 10... | 0740 | 22.0 | 42 | 98 | 11 | -- | -- | -- | -- | -- |
| 13... | 1330 | 19.5 | 37 | 47 | 4.7 | -- | -- | -- | -- | -- |
| 27... | 1400 | -- | 107 | 123 | 36 | 94 | 100 | -- | -- | -- |
| SEP | | | | | | | | | | |
| 07... | 1630 | -- | 23 | 51 | 3.2 | 87 | -- | -- | -- | -- |
| 16... | 1700 | 17.5 | 13 | 70 | 2.5 | -- | -- | -- | -- | -- |
| 21... | 1605 | -- | 14 | 25 | .94 | -- | -- | -- | -- | -- |
| 28... | 0800 | -- | 7.9 | 43 | .92 | -- | -- | -- | -- | -- |

03362000 YOUNGS CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°25'08", long 86°00'18", in SE¼SW¼ sec.5, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, on left bank on upstream side of highway bridge, 0.5 mile (0.8 km) southwest of Amity, 2.0 miles (3.2 km) upstream from mouth, and 5 miles (8 km) northwest of Edinburg.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305. Prior to October 1977, published as "near Edinburg".

REVISED RECORDS.--WSP 1335: 1944. WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 670.20 ft (204.277 m) National Geodetic Vertical Datum of 1929. Prior to June 30, 1955, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--37 years, 107 ft³/s (3.030 m³/s), 13.58 in/yr (245 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Jan. 27, 1952, gage height, 13.4 ft (4.08 m); minimum daily, 0.5 ft³/s (0.014 m³/s) Sept. 29, Oct. 20, 21, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 1600 | 1580 44.7 | 7.56 2.304 | July 14 | 0545 | *7440 211 | *12.11 3.691 |
| Feb. 23 | unknown | 1900 53.8 | unknown | July 29 | 1700 | 2510 71.1 | 9.09 2.771 |
| Mar. 4 | 1400 | 3240 91.8 | 9.83 2.996 | Aug. 2 | 1445 | 2850 80.7 | 9.46 2.883 |
| Apr. 12 | 1630 | 1640 46.4 | 7.68 2.341 | | | | |

Minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|-----------|----------|------|------|-------|------|------|
| 1 | 8.1 | 20 | 33 | 1450 | 46 | 318 | 239 | 50 | 35 | 90 | 587 | 92 |
| 2 | 7.2 | 20 | 32 | 850 | 45 | 609 | 330 | 50 | 30 | 56 | 2260 | 73 |
| 3 | 8.0 | 19 | 67 | 500 | 44 | 1160 | 212 | 162 | 29 | 38 | 631 | 61 |
| 4 | 7.8 | 21 | 325 | 300 | 41 | 2850 | 188 | 152 | 27 | 468 | 271 | 52 |
| 5 | 7.4 | 19 | 166 | 180 | 43 | 1860 | 194 | 97 | 26 | 308 | 170 | 45 |
| 6 | 7.2 | 18 | 97 | 125 | 40 | 620 | 148 | 81 | 25 | 121 | 125 | 41 |
| 7 | 6.9 | 19 | 68 | 100 | 38 | 472 | 109 | 76 | 31 | 80 | 95 | 37 |
| 8 | 6.2 | 20 | 379 | 80 | 36 | 370 | 103 | 71 | 107 | 62 | 81 | 35 |
| 9 | 6.0 | 21 | 508 | 70 | 34 | 289 | 386 | 62 | 80 | 285 | 71 | 30 |
| 10 | 6.6 | 21 | 260 | 63 | 33 | 233 | 271 | 59 | 61 | 200 | 73 | 29 |
| 11 | 11 | 20 | 164 | 56 | 31 | 179 | 543 | 58 | 54 | 81 | 192 | 29 |
| 12 | 18 | 21 | 115 | 53 | 31 | 143 | 1470 | 100 | 38 | 90 | 109 | 27 |
| 13 | 54 | 19 | 97 | 53 | 33 | 127 | 696 | 164 | 36 | 1380 | 78 | 27 |
| 14 | 52 | 25 | 80 | 56 | 30 | 125 | 689 | 97 | 38 | 5340 | 66 | 37 |
| 15 | 33 | 34 | 73 | 50 | 32 | 102 | 408 | 76 | 32 | 1030 | 58 | 29 |
| 16 | 25 | 31 | 67 | 46 | 35 | 93 | 275 | 62 | 29 | 355 | 49 | 24 |
| 17 | 22 | 193 | 58 | 52 | 32 | 88 | 198 | 56 | 27 | 226 | 44 | 23 |
| 18 | 20 | 271 | 53 | 60 | 32 | 85 | 152 | 50 | 31 | 152 | 44 | 23 |
| 19 | 19 | 128 | 54 | 52 | 31 | 83 | 119 | 49 | 30 | 109 | 71 | 21 |
| 20 | 19 | 88 | 57 | 50 | 35 | 81 | 102 | 45 | 36 | 86 | 114 | 21 |
| 21 | 17 | 70 | 94 | 389 | 150 | 76 | 92 | 42 | 260 | 75 | 135 | 21 |
| 22 | 16 | 62 | 81 | 212 | 600 | 71 | 81 | 38 | 95 | 68 | 232 | 22 |
| 23 | 16 | 58 | 68 | 117 | 1700 | 137 | 78 | 36 | 92 | 59 | 119 | 20 |
| 24 | 16 | 52 | 64 | 308 | 1500 | 200 | 76 | 36 | 73 | 78 | 83 | 19 |
| 25 | 17 | 44 | 61 | 178 | 779 | 139 | 76 | 39 | 50 | 93 | 68 | 19 |
| 26 | 18 | 41 | 50 | 110 | 510 | 100 | 75 | 37 | 38 | 95 | 78 | 19 |
| 27 | 19 | 43 | 43 | 86 | 405 | 86 | 71 | 41 | 32 | 127 | 219 | 17 |
| 28 | 19 | 41 | 39 | 70 | 282 | 83 | 69 | 41 | 29 | 691 | 190 | 18 |
| 29 | 17 | 37 | 40 | 60 | --- | 86 | 58 | 33 | 61 | 2290 | 497 | 17 |
| 30 | 19 | 34 | 41 | 54 | --- | 92 | 56 | 31 | 215 | 804 | 222 | 16 |
| 31 | 19 | --- | 335 | 50 | --- | 214 | --- | 35 | --- | 315 | 129 | --- |
| TOTAL | 537.4 | 1510 | 3669 | 5880 | 6648 | 11171 | 7564 | 2026 | 1747 | 15252 | 7161 | 944 |
| MEAN | 17.3 | 50.3 | 118 | 190 | 237 | 360 | 252 | 65.4 | 58.2 | 492 | 231 | 31.5 |
| MAX | 54 | 271 | 508 | 1450 | 1700 | 2850 | 1470 | 164 | 260 | 5340 | 2260 | 92 |
| MIN | 6.0 | 18 | 32 | 46 | 30 | 71 | 56 | 31 | 25 | 38 | 44 | 16 |
| CFSM | .16 | .47 | 1.10 | 1.78 | 2.22 | 3.36 | 2.36 | .61 | .54 | 4.60 | 2.16 | .29 |
| IN. | .19 | .52 | 1.28 | 2.04 | 2.31 | 3.88 | 2.63 | .70 | .61 | 5.30 | 2.49 | .33 |
| CAL YR 1978 | TOTAL | 43076.0 | MEAN 118 | MAX 2560 | MIN 6.0 | CFSM 1.10 | IN 14.98 | | | | | |
| WTR YR 1979 | TOTAL | 64109.4 | MEAN 176 | MAX 5340 | MIN 6.0 | CFSM 1.65 | IN 22.29 | | | | | |

03362500 SUGAR CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°21'39", long 85°59'51", in SW¼SE¼ sec.29, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, on left bank 50 ft (15 m) upstream from highway bridge in Camp Atterbury, 1.2 miles (1.9 km) upstream from confluence with Blue River, 1.5 miles (2.4 km) northwest of Edinburgh, and at mile 1.3 (2.1 km).

DRAINAGE AREA.--474 mi² (1,228 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305. Prior to October 1977, published as "near Edinburg".

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.23 ft (196.971 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft (30 m) downstream at same datum.

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

AVERAGE DISCHARGE.--37 years, 491 ft³/s (13.91 m³/s), 14.07 in/yr (357 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,600 ft³/s (782 m³/s) May 29, 1956, gage height, 18.38 ft (5.602 m); minimum daily, 9.2 ft³/s (0.26 m³/s) Sept. 19, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,200 ft³/s (119 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 2 | 1400 | 5240 148 | 11.19 3.411 | July 14 | 1500 | 8170 231 | 13.30 4.054 |
| Feb. 24 | 2200 | 8490 240 | 13.46 4.103 | July 30 | 0500 | 6690 189 | 12.36 3.767 |
| Mar. 5 | 0600 | *11200 317 | *14.58 4.444 | Aug. 3 | 0100 | 7250 205 | 12.76 3.889 |
| Apr. 13 | 0300 | 4820 137 | 10.79 3.289 | | | | |

Minimum daily discharge, 85 ft³/s (2.41 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 99 | 118 | 214 | 3660 | 240 | 1200 | 929 | 282 | 175 | 416 | 3050 | 631 |
| 2 | 96 | 118 | 203 | 4990 | 250 | 1970 | 1110 | 271 | 166 | 258 | 5440 | 493 |
| 3 | 95 | 116 | 222 | 3520 | 250 | 3470 | 931 | 425 | 162 | 209 | 6560 | 406 |
| 4 | 94 | 110 | 1770 | 1880 | 240 | 6980 | 760 | 593 | 156 | 941 | 4780 | 348 |
| 5 | 93 | 107 | 1500 | 942 | 230 | 10300 | 743 | 441 | 149 | 1310 | 2590 | 309 |
| 6 | 91 | 110 | 931 | 733 | 240 | 6040 | 632 | 374 | 144 | 745 | 1100 | 282 |
| 7 | 92 | 113 | 660 | 592 | 230 | 3200 | 523 | 335 | 148 | 470 | 791 | 260 |
| 8 | 89 | 112 | 1160 | 430 | 230 | 1950 | 486 | 306 | 314 | 334 | 633 | 235 |
| 9 | 85 | 111 | 2540 | 360 | 240 | 1500 | 982 | 281 | 339 | 515 | 517 | 215 |
| 10 | 85 | 112 | 1550 | 330 | 230 | 1220 | 1120 | 264 | 379 | 1430 | 457 | 203 |
| 11 | 91 | 108 | 909 | 300 | 220 | 1010 | 1290 | 253 | 290 | 789 | 646 | 193 |
| 12 | 109 | 112 | 653 | 290 | 215 | 814 | 3890 | 292 | 230 | 516 | 600 | 185 |
| 13 | 160 | 105 | 548 | 280 | 215 | 702 | 4370 | 494 | 283 | 2120 | 450 | 180 |
| 14 | 595 | 114 | 472 | 280 | 213 | 675 | 3360 | 383 | 282 | 6990 | 369 | 215 |
| 15 | 445 | 122 | 415 | 300 | 212 | 617 | 2530 | 313 | 224 | 4750 | 322 | 204 |
| 16 | 352 | 148 | 376 | 280 | 210 | 537 | 1540 | 283 | 185 | 1600 | 287 | 178 |
| 17 | 286 | 301 | 338 | 270 | 213 | 495 | 1100 | 250 | 168 | 983 | 263 | 170 |
| 18 | 233 | 1620 | 306 | 280 | 215 | 468 | 854 | 234 | 291 | 698 | 250 | 159 |
| 19 | 205 | 1110 | 293 | 280 | 220 | 447 | 699 | 224 | 304 | 529 | 282 | 155 |
| 20 | 184 | 734 | 292 | 270 | 230 | 432 | 602 | 216 | 304 | 421 | 535 | 150 |
| 21 | 170 | 523 | 473 | 870 | 252 | 414 | 533 | 206 | 1000 | 352 | 1200 | 149 |
| 22 | 160 | 416 | 614 | 1170 | 1010 | 383 | 476 | 194 | 460 | 309 | 1780 | 150 |
| 23 | 143 | 359 | 493 | 662 | 3450 | 434 | 430 | 187 | 454 | 276 | 1320 | 145 |
| 24 | 137 | 335 | 411 | 808 | 7310 | 678 | 405 | 183 | 312 | 306 | 852 | 136 |
| 25 | 137 | 297 | 381 | 600 | 7130 | 594 | 391 | 185 | 236 | 795 | 616 | 131 |
| 26 | 140 | 269 | 331 | 470 | 3960 | 471 | 382 | 182 | 198 | 847 | 512 | 130 |
| 27 | 143 | 256 | 289 | 380 | 1980 | 398 | 359 | 192 | 176 | 947 | 706 | 129 |
| 28 | 146 | 252 | 256 | 330 | 1400 | 364 | 338 | 205 | 159 | 1810 | 683 | 126 |
| 29 | 130 | 235 | 244 | 300 | --- | 379 | 320 | 184 | 162 | 5230 | 1870 | 124 |
| 30 | 118 | 221 | 243 | 270 | --- | 414 | 300 | 177 | 550 | 6270 | 1450 | 121 |
| 31 | 118 | --- | 593 | 250 | --- | 669 | --- | 177 | --- | 5310 | 879 | --- |
| TOTAL | 5121 | 8764 | 19680 | 26377 | 31035 | 49225 | 32385 | 8586 | 8400 | 48476 | 41790 | 6512 |
| MEAN | 165 | 292 | 635 | 851 | 1108 | 1588 | 1080 | 277 | 280 | 1564 | 1348 | 217 |
| MAX | 595 | 1620 | 2540 | 4990 | 7310 | 10300 | 4370 | 593 | 1000 | 6990 | 6560 | 631 |
| MIN | 85 | 105 | 203 | 250 | 210 | 364 | 300 | 177 | 144 | 209 | 250 | 121 |
| CFSM | .35 | .62 | 1.34 | 1.80 | 2.34 | 3.35 | 2.28 | .58 | .59 | 3.30 | 2.84 | .46 |
| IN. | .40 | .69 | 1.54 | 2.07 | 2.44 | 3.86 | 2.54 | .67 | .66 | 3.80 | 3.28 | .51 |

| | | | | | | | |
|-------------|-------|--------|----------|-----------|--------|-----------|----------|
| CAL YR 1978 | TOTAL | 221182 | MEAN 606 | MAX 8150 | MIN 85 | CFSM 1.28 | IN 17.36 |
| WTR YR 1979 | TOTAL | 286351 | MEAN 785 | MAX 10300 | MIN 85 | CFSM 1.66 | IN 22.47 |

WABASH RIVER BASIN

03362500 SUGAR CREEK NEAR EDINBURGH, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1977 (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. ≥ FINER THAN .500 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|
| MAY 31... | 1030 | 22.0 | 173 | 35 | 16 | -- | -- | -- | -- |
| JUL 28... | 1140 | 23.0 | 1220 | 150 | 494 | 73 | 91 | 99 | 100 |
| SEP 24... | 1500 | 17.0 | 134 | 16 | 5.8 | -- | -- | -- | -- |

03363000 DRIFTWOOD RIVER NEAR EDINBURGH, IN

LOCATION.--Lat 39°20'21", long 85°59'11", in NW¼SW¼ sec.4, T.10 N., R.5 E., Bartholomew County, Hydrologic Unit 05120204, on left bank just downstream from highway bridge, 0.8 mile (1.3 km) downstream from confluence of Big Blue River and Sugar Creek, 1.5 miles (2.4 km) southwest of Edinburgh, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--1.060 mi² (2,745 km²).

PERIOD OF RECORD.--October 1940 to current year. Prior to July 1941 monthly discharge only, published in WSP 1305. Prior to October 1977, published as "near Edinburg".

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 636.99 ft (194.155 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 2 to Feb. 14 and July 11 to Aug. 14, which are fair.

AVERAGE DISCHARGE.--39 years, 1,147 ft³/s (32.48 m³/s), 14.69 in/yr (373 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,500 ft³/s (1,147 m³/s) Mar. 6, 1963, gage height, 16.97 ft (5.172); minimum daily, 38 ft³/s (1.08 m³/s) Sept. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 20.3 ft (6.19 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,000 ft³/s (198 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|---------|---|-------------------------|
| Jan. 2 | 1900 | 8950 253 | 12.42 3.786 | July 15 | unknown | 9000 255 | unknown |
| Feb. 25 | 0300 | 14900 422 | 14.42 4.395 | July 30 | unknown | 13500 382 | 14.08 4.292 |
| Mar. 5 | 1300 | *17000 481 | *14.88 4.535 | Aug. 3 | unknown | 13400 379 | unknown |
| Apr. 13 | 1100 | 7930 225 | 11.77 3.587 | | | | |

Minimum daily discharge, 255 ft³/s (7.22 m³/s) Oct. 10.

NOTE.--No gage-height record Jan. 2 to Feb. 14 and July 11 to Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|
| 1 | 300 | 321 | 493 | 5560 | 810 | 3300 | 2000 | 960 | 665 | 905 | 7000 | 1710 |
| 2 | 300 | 317 | 469 | 8300 | 770 | 4390 | 2340 | 930 | 644 | 665 | 10000 | 1410 |
| 3 | 294 | 312 | 502 | 6200 | 790 | 6540 | 2260 | 1300 | 584 | 566 | 12800 | 1220 |
| 4 | 291 | 304 | 2770 | 4200 | 800 | 9880 | 1920 | 1800 | 550 | 1620 | 11000 | 1090 |
| 5 | 288 | 298 | 3800 | 2900 | 730 | 16500 | 1900 | 1500 | 525 | 2820 | 8000 | 986 |
| 6 | 283 | 296 | 2680 | 2300 | 680 | 13400 | 1720 | 1300 | 506 | 1970 | 4870 | 907 |
| 7 | 285 | 296 | 1990 | 1850 | 690 | 7760 | 1500 | 1200 | 850 | 1300 | 2790 | 838 |
| 8 | 280 | 293 | 2430 | 1500 | 690 | 5170 | 1400 | 1100 | 987 | 958 | 2220 | 770 |
| 9 | 276 | 288 | 4720 | 1300 | 660 | 4200 | 2000 | 1000 | 950 | 1060 | 1880 | 711 |
| 10 | 255 | 287 | 4060 | 1200 | 660 | 3550 | 2730 | 856 | 979 | 2400 | 1630 | 670 |
| 11 | 270 | 282 | 2600 | 1100 | 660 | 3080 | 2800 | 828 | 823 | 1900 | 1750 | 644 |
| 12 | 302 | 284 | 1930 | 1050 | 610 | 2630 | 6030 | 861 | 696 | 1340 | 1940 | 614 |
| 13 | 391 | 279 | 1640 | 1020 | 580 | 2320 | 7800 | 1140 | 732 | 3570 | 1670 | 599 |
| 14 | 1190 | 287 | 1440 | 1050 | 555 | 2200 | 6770 | 1040 | 701 | 6970 | 1420 | 691 |
| 15 | 1140 | 302 | 1290 | 1080 | 569 | 2020 | 5790 | 900 | 609 | 8790 | 1220 | 850 |
| 16 | 888 | 345 | 1190 | 1080 | 569 | 1680 | 4100 | 845 | 547 | 4060 | 1110 | 754 |
| 17 | 701 | 525 | 1080 | 1050 | 507 | 1560 | 3090 | 775 | 512 | 2610 | 1030 | 660 |
| 18 | 579 | 2360 | 988 | 1100 | 497 | 1480 | 2520 | 732 | 639 | 1900 | 975 | 609 |
| 19 | 506 | 2370 | 934 | 1120 | 497 | 1430 | 2140 | 711 | 748 | 1590 | 1030 | 569 |
| 20 | 463 | 1660 | 920 | 1000 | 516 | 1400 | 1700 | 691 | 722 | 1230 | 1700 | 540 |
| 21 | 430 | 1240 | 1150 | 2000 | 564 | 1350 | 1550 | 670 | 2180 | 1060 | 3070 | 529 |
| 22 | 401 | 1010 | 1590 | 3300 | 1430 | 1290 | 1430 | 639 | 1540 | 958 | 4840 | 527 |
| 23 | 377 | 864 | 1380 | 2500 | 5220 | 1330 | 1330 | 619 | 1380 | 880 | 4330 | 507 |
| 24 | 359 | 791 | 1190 | 2150 | 11200 | 1800 | 1270 | 604 | 950 | 861 | 2780 | 480 |
| 25 | 353 | 708 | 1110 | 1900 | 14600 | 1710 | 1200 | 604 | 732 | 1660 | 1980 | 462 |
| 26 | 355 | 637 | 1000 | 1600 | 9850 | 1320 | 1170 | 604 | 629 | 3120 | 1660 | 448 |
| 27 | 361 | 599 | 888 | 1400 | 5610 | 1210 | 1120 | 624 | 565 | 3760 | 1960 | 436 |
| 28 | 369 | 582 | 798 | 1250 | 3960 | 1150 | 1080 | 644 | 521 | 4870 | 2080 | 427 |
| 29 | 350 | 546 | 756 | 1100 | --- | 1140 | 1040 | 614 | 519 | 8380 | 3490 | 419 |
| 30 | 340 | 513 | 753 | 980 | --- | 1180 | 1000 | 579 | 984 | 13000 | 3520 | 413 |
| 31 | 330 | --- | 1190 | 910 | --- | 1500 | --- | 645 | --- | 11800 | 2280 | --- |
| TOTAL | 13307 | 19196 | 49731 | 65050 | 65274 | 109470 | 74700 | 27315 | 23969 | 98573 | 108025 | 21490 |
| MEAN | 429 | 640 | 1604 | 2098 | 2331 | 3531 | 2490 | 881 | 799 | 3180 | 3485 | 716 |
| MAX | 1190 | 2370 | 4720 | 8300 | 14600 | 16500 | 7800 | 1800 | 2180 | 13000 | 12800 | 1710 |
| MIN | 255 | 279 | 469 | 910 | 497 | 1140 | 1000 | 579 | 506 | 566 | 975 | 413 |
| CFSM | .41 | .60 | 1.51 | 1.98 | 2.20 | 3.33 | 2.35 | .83 | .75 | 3.00 | 3.29 | .68 |
| IN. | .47 | .67 | 1.75 | 2.28 | 2.29 | 3.84 | 2.62 | .96 | .84 | 3.46 | 3.79 | .75 |
| CAL YR 1978 | TOTAL | 515078 | MEAN | 1411 | MAX | 14800 | MIN | 255 | CFSM | 1.33 | IN | 18.08 |
| WTR YR 1979 | TOTAL | 676100 | MEAN | 1852 | MAX | 16500 | MIN | 255 | CFSM | 1.75 | IN | 23.73 |

WABASH RIVER BASIN

03363500 FLATROCK RIVER AT ST. PAUL, IN

LOCATION.--39°25'03", long 85°38'03", in SE¼NE¼ sec.9, T.11 N., R.8 E., Shelby County, Hydrologic Unit 05120205, on right bank 500 ft (152 m) downstream from highway bridge, 0.8 mile (1.3 km) southwest of St. Paul, and 1.5 miles (2.4 km) downstream from Mill Creek, and at mile 34.4 (55.3 km).

DRAINAGE AREA.--303 mi² (785 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul.

REVISED RECORDS.--WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft (233.123 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft (152 m) upstream at same datum.

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

AVERAGE DISCHARGE.--49 years, 317 ft³/s (8.977 m³/s), 14.21 in/yr (361 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s (524 m³/s) Jan. 5, 1949, gage height, 10.60 ft (3.231 m); maximum recorded gage height, 12.37 ft (3.770 m) May 24, 1968; minimum daily discharge, 0.6 ft³/s (0.017 m³/s) Aug. 7, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of approximately 20.5 ft (6.25 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 2000 | *7980 226 | *7.99 2.435 | July 4 | 0900 | 3130 88.6 | 4.74 1.445 |
| Mar. 4 | 0900 | 5260 149 | 6.32 1.926 | July 28 | 2300 | 4470 127 | 5.77 1.759 |
| June 21 | 1000 | 4220 120 | 5.59 1.704 | July 30 | 1700 | 3850 109 | 5.32 1.622 |

Minimum daily discharge, 35 ft³/s (0.99 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| 1 | 40 | 50 | 132 | 2320 | 150 | 906 | 281 | 211 | 150 | 141 | 1330 | 514 |
| 2 | 43 | 48 | 125 | 2190 | 160 | 1520 | 410 | 205 | 134 | 128 | 1630 | 416 |
| 3 | 40 | 48 | 214 | 1720 | 160 | 2760 | 425 | 312 | 119 | 112 | 1780 | 352 |
| 4 | 40 | 46 | 1220 | 914 | 160 | 5060 | 410 | 481 | 110 | 1360 | 1840 | 302 |
| 5 | 41 | 46 | 1250 | 597 | 140 | 4210 | 467 | 422 | 104 | 789 | 993 | 270 |
| 6 | 38 | 44 | 816 | 400 | 140 | 2620 | 392 | 354 | 101 | 387 | 568 | 245 |
| 7 | 38 | 44 | 564 | 320 | 140 | 1430 | 323 | 319 | 295 | 239 | 448 | 224 |
| 8 | 39 | 43 | 1290 | 300 | 130 | 1030 | 307 | 299 | 269 | 186 | 359 | 204 |
| 9 | 37 | 43 | 1740 | 270 | 120 | 842 | 456 | 283 | 225 | 504 | 301 | 189 |
| 10 | 35 | 42 | 1260 | 260 | 115 | 723 | 553 | 270 | 279 | 451 | 300 | 170 |
| 11 | 40 | 43 | 701 | 260 | 112 | 617 | 488 | 262 | 229 | 238 | 478 | 154 |
| 12 | 56 | 42 | 516 | 270 | 110 | 520 | 1490 | 305 | 187 | 191 | 577 | 146 |
| 13 | 257 | 40 | 436 | 270 | 110 | 455 | 1650 | 370 | 172 | 597 | 384 | 146 |
| 14 | 417 | 43 | 370 | 260 | 110 | 438 | 1630 | 316 | 140 | 1180 | 290 | 246 |
| 15 | 302 | 50 | 323 | 270 | 110 | 397 | 1350 | 268 | 124 | 1410 | 243 | 419 |
| 16 | 207 | 63 | 291 | 260 | 115 | 347 | 910 | 235 | 112 | 1430 | 213 | 283 |
| 17 | 163 | 311 | 261 | 250 | 110 | 324 | 679 | 212 | 104 | 749 | 193 | 215 |
| 18 | 131 | 748 | 235 | 260 | 115 | 300 | 544 | 197 | 100 | 376 | 179 | 186 |
| 19 | 114 | 586 | 226 | 275 | 125 | 292 | 454 | 187 | 103 | 272 | 203 | 167 |
| 20 | 108 | 369 | 233 | 257 | 140 | 285 | 391 | 181 | 446 | 267 | 351 | 153 |
| 21 | 99 | 276 | 454 | 577 | 175 | 264 | 348 | 171 | 2750 | 220 | 620 | 148 |
| 22 | 88 | 228 | 438 | 664 | 849 | 257 | 317 | 163 | 738 | 220 | 624 | 146 |
| 23 | 80 | 207 | 345 | 410 | 5640 | 268 | 289 | 153 | 421 | 292 | 669 | 136 |
| 24 | 72 | 196 | 299 | 370 | 5730 | 276 | 274 | 146 | 262 | 234 | 727 | 125 |
| 25 | 67 | 171 | 276 | 280 | 3530 | 241 | 276 | 152 | 196 | 768 | 578 | 119 |
| 26 | 70 | 157 | 241 | 240 | 1700 | 216 | 274 | 147 | 163 | 1190 | 528 | 114 |
| 27 | 72 | 157 | 206 | 240 | 1250 | 197 | 261 | 151 | 143 | 1920 | 1230 | 111 |
| 28 | 67 | 156 | 205 | 230 | 978 | 182 | 259 | 149 | 130 | 3000 | 1380 | 110 |
| 29 | 60 | 144 | 184 | 200 | --- | 181 | 240 | 139 | 128 | 3490 | 1390 | 112 |
| 30 | 55 | 139 | 183 | 175 | --- | 188 | 223 | 128 | 167 | 3490 | 1100 | 109 |
| 31 | 53 | --- | 583 | 175 | --- | 249 | --- | 138 | --- | 2540 | 696 | --- |
| TOTAL | 2969 | 4580 | 15617 | 15484 | 22424 | 27595 | 16371 | 7326 | 8601 | 28371 | 22202 | 6231 |
| MEAN | 95.8 | 153 | 504 | 499 | 801 | 890 | 546 | 236 | 287 | 915 | 716 | 208 |
| MAX | 417 | 748 | 1740 | 2320 | 5730 | 5060 | 1650 | 481 | 2750 | 3490 | 1840 | 514 |
| MIN | 35 | 40 | 125 | 175 | 110 | 181 | 223 | 128 | 100 | 112 | 179 | 109 |
| CFSM | .32 | .51 | 1.66 | 1.65 | 2.64 | 2.94 | 1.80 | .78 | .95 | 3.02 | 2.36 | .69 |
| IN. | .36 | .56 | 1.92 | 1.90 | 2.75 | 3.39 | 2.01 | .90 | 1.06 | 3.48 | 2.73 | .76 |

CAL YR 1978 TOTAL 132091 MEAN 362 MAX 5530 MIN 35 CFSM 1.20 IN 16.22
WTR YR 1979 TOTAL 177771 MEAN 487 MAX 5730 MIN 35 CFSM 1.61 IN 21.83

03363500 FLATROCK RIVER AT ST. PAUL, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: January 1976 to September 1979 (discontinued).
 WATER TEMPERATURE: January 1976 to September 1979 (discontinued).
 SEDIMENT DISCHARGE: August 1969 to September 1977 (partial-record station).

INSTRUMENTATION.--Multi-parameter monitor.

REMARKS.--Chemical and temperature records fair.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 28.5°C June 14, July 11, 12, 1976; minimum temperature, 0.0°C Jan. 7-31, Feb. 1, 3, 4, 7, 12, 1979.
 SPECIFIC CONDUCTANCE: Maximum, 661 micromhos Feb 9, 1979; minimum, 171 micromhos Feb. 23, 1979.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 611 | 585 | | | --- | --- | --- | --- | 624 | 602 | 584 | 379 |
| 2 | 623 | 605 | | | --- | --- | --- | --- | 635 | 621 | 588 | 323 |
| 3 | 626 | 613 | | | --- | --- | --- | --- | 635 | 621 | 329 | 273 |
| 4 | 628 | 611 | | | --- | --- | --- | --- | 625 | 612 | 339 | 277 |
| 5 | 637 | 626 | | | --- | --- | --- | --- | 647 | 625 | 357 | 287 |
| 6 | 640 | 625 | | | 515 | 479 | 604 | 594 | 653 | 640 | 385 | 348 |
| 7 | 638 | 617 | | | 524 | 510 | 611 | 590 | 656 | 633 | 378 | 367 |
| 8 | 646 | 631 | | | 522 | 392 | 605 | 583 | 652 | 636 | 395 | 385 |
| 9 | 650 | 631 | | | 430 | 399 | 625 | 607 | 661 | 646 | 408 | 402 |
| 10 | 650 | 627 | | | 473 | 430 | 643 | 627 | 657 | 639 | 424 | 416 |
| 11 | 656 | 612 | | | 502 | 476 | 648 | 643 | 645 | 621 | 436 | 430 |
| 12 | 641 | 591 | | | 516 | 505 | 647 | 627 | 640 | 623 | 443 | 439 |
| 13 | --- | --- | | | 522 | 516 | 627 | 598 | 633 | 621 | 453 | 450 |
| 14 | --- | --- | | | 527 | 522 | 598 | 578 | 635 | 624 | 463 | 459 |
| 15 | --- | --- | | | 529 | 524 | 619 | 587 | 630 | 615 | 471 | 467 |
| 16 | --- | --- | | | 530 | 527 | 617 | 609 | 619 | 605 | 479 | 474 |
| 17 | --- | --- | | | 532 | 529 | 612 | 598 | 635 | 607 | 488 | 481 |
| 18 | --- | --- | | | --- | --- | 598 | 569 | 643 | 634 | 494 | 491 |
| 19 | --- | --- | | | --- | --- | 588 | 580 | 654 | 640 | 501 | 499 |
| 20 | --- | --- | | | --- | --- | 580 | 563 | 658 | 634 | 508 | 506 |
| 21 | --- | --- | | | --- | --- | 563 | 442 | 643 | 538 | 522 | 514 |
| 22 | --- | --- | | | --- | --- | 463 | 449 | 516 | 366 | 527 | 521 |
| 23 | --- | --- | | | --- | --- | 511 | 460 | 352 | 171 | 538 | 531 |
| 24 | --- | --- | | | --- | --- | 550 | 514 | 213 | 185 | 558 | 545 |
| 25 | --- | --- | | | --- | --- | 530 | 618 | 263 | 210 | 564 | 531 |
| 26 | --- | --- | | | --- | --- | 598 | 577 | 304 | 270 | 568 | 561 |
| 27 | --- | --- | | | --- | --- | 598 | 593 | 335 | 309 | 572 | 567 |
| 28 | --- | --- | | | --- | --- | 595 | 588 | 370 | 343 | 579 | 570 |
| 29 | --- | --- | | | --- | --- | 594 | 587 | --- | --- | 569 | 558 |
| 30 | --- | --- | | | --- | --- | 600 | 588 | --- | --- | 560 | 543 |
| 31 | --- | --- | | | --- | --- | 609 | 600 | --- | --- | 542 | 528 |
| MONTH | | | | | | | | | 661 | 171 | 588 | 273 |

WABASH RIVER BASIN

03363500 FLATROCK RIVER AT ST. PAUL, IN--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 550 | 540 | --- | --- | 577 | 547 | 566 | 527 | 548 | 523 | | |
| 2 | 552 | 544 | --- | --- | 582 | 557 | 571 | 540 | 537 | 490 | | |
| 3 | 560 | 548 | --- | --- | 579 | 556 | 552 | 537 | 493 | 461 | | |
| 4 | 560 | 549 | --- | --- | 580 | 555 | 552 | 205 | 507 | 467 | | |
| 5 | 559 | 543 | --- | --- | 581 | 563 | 422 | 374 | 568 | 516 | | |
| 6 | 563 | 549 | --- | --- | 592 | 567 | 480 | 430 | 580 | 569 | | |
| 7 | 564 | 553 | --- | --- | 604 | 512 | 514 | 487 | --- | --- | | |
| 8 | 566 | 544 | --- | --- | 498 | 461 | 532 | 521 | --- | --- | | |
| 9 | 564 | 553 | --- | --- | 554 | 504 | 538 | 360 | --- | --- | | |
| 10 | 569 | 538 | --- | --- | 584 | 555 | 436 | 366 | --- | --- | | |
| 11 | 562 | 528 | --- | --- | 580 | 515 | 486 | 445 | --- | --- | | |
| 12 | 523 | 442 | --- | --- | 561 | 515 | 504 | 492 | --- | --- | | |
| 13 | 452 | 435 | --- | --- | 566 | 539 | 510 | 433 | --- | --- | | |
| 14 | 465 | 453 | --- | --- | 584 | 565 | 461 | 428 | --- | --- | | |
| 15 | 486 | 461 | --- | --- | 594 | 586 | 431 | 402 | --- | --- | | |
| 16 | 514 | 492 | --- | --- | 600 | 578 | 428 | 412 | --- | --- | | |
| 17 | 524 | 508 | --- | --- | 606 | 595 | 454 | 415 | --- | --- | | |
| 18 | 531 | 542 | --- | --- | 605 | 594 | 506 | 462 | --- | --- | | |
| 19 | 537 | 524 | 569 | 542 | 603 | 593 | 529 | 512 | --- | --- | | |
| 20 | 533 | 526 | 571 | 549 | 601 | 374 | 542 | 534 | --- | --- | | |
| 21 | 536 | 524 | 583 | 563 | 415 | 258 | 551 | 547 | --- | --- | | |
| 22 | 540 | 530 | 584 | 554 | 513 | 428 | 559 | 556 | --- | --- | | |
| 23 | 544 | 536 | 580 | 558 | 552 | 488 | 566 | 512 | --- | --- | | |
| 24 | 542 | 529 | 590 | 578 | 569 | 554 | 530 | 517 | --- | --- | | |
| 25 | 539 | 526 | 602 | 584 | 583 | 570 | 537 | 478 | --- | --- | | |
| 26 | 545 | 536 | 591 | 571 | 585 | 579 | 480 | 447 | --- | --- | | |
| 27 | 546 | 532 | 590 | 567 | 590 | 574 | 450 | 421 | --- | --- | | |
| 28 | 543 | 530 | 586 | 564 | 590 | 571 | 443 | 428 | --- | --- | | |
| 29 | 547 | 531 | 590 | 554 | 584 | 545 | 435 | 432 | --- | --- | | |
| 30 | --- | --- | 592 | 543 | 549 | 525 | 438 | 413 | --- | --- | | |
| 31 | --- | --- | 567 | 549 | --- | --- | 515 | 431 | --- | --- | | |
| MONTH | 569 | 435 | | | 606 | 258 | 571 | 205 | | | | |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

WABASH RIVER BASIN

03363500 FLATROCK RIVER AT ST. PAUL, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

03363900 FLATROCK RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¼SW¼ sec.12, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120205, on left bank at downstream side of bridge on U.S. Highway 31 (bypass), 0.2 mile (0.3 km) northwest of Columbus city limits, and 2.6 miles (4.2 km) upstream from mouth.

DRAINAGE AREA.--534 mi² (1,383 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft (185.971 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record Dec 1 to Jan. 11 and Feb. 22 to March 29, which are fair.

AVERAGE DISCHARGE.--12 years, 606 ft³/s (17.16 m³/s), 15.41 in/yr (391 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) May 25, 1968, gage height, 15.87 ft (4.837 m), from inside high-water mark; minimum daily, 22 ft³/s (0.62 m³/s) Oct. 5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,500 ft³/s (99.1 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|-----|-------------------------|-------|---------|------|---|-----|-------------------------|-------|
| Dec. 9 | 1700 | 3640 | 103 | 9.08 | 2.768 | June 22 | 0200 | 3990 | 113 | 9.39 | 2.862 |
| Jan. 2 | unknown | 3710 | 105 | 9.14 | 2.786 | July 30 | 0500 | 10600 | 300 | 13.10 | 3.993 |
| Feb. 24 | unknown | 11200 | 317 | unknown | | Aug. 3 | 0100 | 4960 | 140 | 10.14 | 3.091 |
| Mar. 4 | unknown | *12200 | 346 | unknown | | | | | | | |

Minimum daily discharge, 102 ft³/s (2.89 m³/s) Oct. 10.

NOTE.--No gage-height record Dec. 10 to Jan. 11 and Feb. 22 to Mar. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|-----------|---------|-----------|----------|-------|-------|-------|-------|-------|
| 1 | 112 | 149 | 255 | 2500 | 388 | 1550 | 505 | 368 | 279 | 281 | 3600 | 829 |
| 2 | 112 | 144 | 244 | 3600 | 352 | 3000 | 624 | 351 | 278 | 254 | 3920 | 687 |
| 3 | 114 | 142 | 250 | 3400 | 371 | 5000 | 755 | 372 | 249 | 238 | 3980 | 597 |
| 4 | 112 | 140 | 914 | 2100 | 374 | 10500 | 675 | 589 | 235 | 815 | 2990 | 529 |
| 5 | 110 | 138 | 1780 | 1100 | 326 | 7500 | 826 | 616 | 226 | 2040 | 2250 | 474 |
| 6 | 109 | 136 | 1470 | 800 | 318 | 4700 | 737 | 536 | 219 | 901 | 1210 | 437 |
| 7 | 107 | 135 | 1000 | 600 | 331 | 3100 | 594 | 475 | 215 | 576 | 934 | 405 |
| 8 | 105 | 134 | 1120 | 540 | 323 | 2200 | 526 | 431 | 349 | 444 | 783 | 374 |
| 9 | 103 | 132 | 3200 | 480 | 321 | 1800 | 592 | 396 | 314 | 395 | 678 | 345 |
| 10 | 102 | 130 | 2150 | 440 | 306 | 1500 | 825 | 370 | 283 | 856 | 609 | 331 |
| 11 | 108 | 128 | 1450 | 430 | 286 | 1300 | 753 | 356 | 323 | 617 | 723 | 314 |
| 12 | 121 | 128 | 950 | 455 | 288 | 1100 | 1690 | 355 | 275 | 454 | 859 | 301 |
| 13 | 224 | 128 | 700 | 440 | 274 | 1000 | 2800 | 441 | 261 | 745 | 773 | 295 |
| 14 | 548 | 128 | 650 | 437 | 276 | 880 | 2860 | 438 | 244 | 1790 | 619 | 332 |
| 15 | 501 | 133 | 560 | 452 | 279 | 820 | 2340 | 386 | 222 | 1750 | 537 | 475 |
| 16 | 374 | 138 | 490 | 440 | 291 | 740 | 1650 | 349 | 206 | 1770 | 483 | 494 |
| 17 | 309 | 168 | 440 | 414 | 274 | 680 | 1130 | 323 | 196 | 1400 | 444 | 396 |
| 18 | 265 | 866 | 440 | 417 | 276 | 620 | 899 | 308 | 186 | 939 | 418 | 346 |
| 19 | 237 | 1030 | 400 | 474 | 265 | 560 | 760 | 297 | 181 | 621 | 436 | 318 |
| 20 | 218 | 740 | 430 | 414 | 265 | 540 | 667 | 293 | 180 | 507 | 517 | 296 |
| 21 | 205 | 544 | 470 | 621 | 276 | 520 | 604 | 284 | 1600 | 437 | 777 | 283 |
| 22 | 191 | 443 | 590 | 1110 | 650 | 490 | 558 | 275 | 2140 | 389 | 891 | 280 |
| 23 | 180 | 390 | 550 | 822 | 8400 | 510 | 517 | 266 | 795 | 383 | 1150 | 269 |
| 24 | 171 | 365 | 490 | 676 | 9600 | 530 | 486 | 257 | 542 | 404 | 1170 | 256 |
| 25 | 164 | 338 | 450 | 658 | 6000 | 470 | 468 | 256 | 406 | 554 | 877 | 243 |
| 26 | 163 | 311 | 440 | 604 | 3500 | 430 | 464 | 257 | 333 | 1360 | 733 | 236 |
| 27 | 163 | 298 | 400 | 607 | 2300 | 390 | 449 | 257 | 297 | 1840 | 1550 | 228 |
| 28 | 164 | 293 | 370 | 559 | 1700 | 360 | 430 | 256 | 272 | 3060 | 1800 | 223 |
| 29 | 162 | 282 | 340 | 493 | --- | 320 | 414 | 249 | 261 | 6890 | 1890 | 218 |
| 30 | 157 | 266 | 310 | 437 | --- | 332 | 389 | 239 | 270 | 9170 | 1440 | 216 |
| 31 | 152 | --- | 1000 | 428 | --- | 369 | --- | 236 | --- | 6370 | 1150 | --- |
| TOTAL | 5863 | 8497 | 24303 | 26948 | 38610 | 53811 | 26987 | 10882 | 11837 | 48250 | 40191 | 11027 |
| MEAN | 189 | 283 | 784 | 869 | 1379 | 1736 | 900 | 351 | 395 | 1556 | 1296 | 368 |
| MAX | 548 | 1030 | 3200 | 3600 | 9600 | 10500 | 2860 | 616 | 2140 | 9170 | 3980 | 829 |
| MIN | 102 | 128 | 244 | 414 | 265 | 320 | 389 | 236 | 180 | 238 | 418 | 216 |
| CFSM | .35 | .53 | 1.47 | 1.63 | 2.58 | 3.25 | 1.69 | .66 | .74 | 2.91 | 2.43 | .69 |
| IN. | .41 | .59 | 1.69 | 1.88 | 2.69 | 3.75 | 1.88 | .76 | .82 | 3.36 | 2.80 | .77 |
| CAL YR 1978 | TOTAL | 240880 | MEAN 660 | MAX 9970 | MIN 102 | CFSM 1.24 | IN 16.78 | | | | | |
| WTR YR 1979 | TOTAL | 307206 | MEAN 842 | MAX 10500 | MIN 102 | CFSM 1.58 | IN 21.40 | | | | | |

WABASH RIVER BASIN

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°12'00", long 85°55'32", in NE¼NW¼ sec.25, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120205, on left bank at abutment of abandoned bridge at west end of Second Street in Columbus, 0.6 mile (1.0 km) downstream from confluence of Driftwood River and Flatrock River, 1.3 miles (2.1 km) upstream from Haw Creek, and at mile 238.7 (384.1 km).

DRAINAGE AREA.--1,707 mi² (4,421 km²).

PERIOD OF RECORD.--October 1947 to current year. Prior to January 1948 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1948-49. WSP 2109: Drainage area.

GAGE.--Water-stage recorder above concrete control. Datum of gage is 603.12 ft (183.831 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1952, nonrecording gage 600 ft (183 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 1,843 ft³/s (52.19 m³/s), 14.66 in/yr (372 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,300 ft³/s (1,480 m³/s) Mar. 6, 1963, gage height, 16.23 ft (4.947 m); minimum daily, 87 ft³/s (2.46 m³/s) Sept. 29, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10,000 ft³/s (283 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 2 | unknown | 14000 396 | unknown | Apr. 14 | 0200 | 11200 317 | 5.88 1.792 |
| Feb. 25 | 1400 | 25400 719 | 11.16 3.402 | July 15 | 1100 | 11700 331 | 6.11 1.862 |
| Mar. 5 | 2100 | *26500 750 | *11.41 3.478 | July 30 | 1300 | 21700 615 | 10.25 3.124 |

Minimum daily discharge, 405 ft³/s (11.5 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|--------|-------|
| 1 | 461 | 532 | 908 | 7790 | 1360 | 5050 | 2840 | 1540 | 1040 | 1410 | 16100 | 3040 |
| 2 | 461 | 520 | 854 | 13500 | 1220 | 5900 | 3340 | 1470 | 1100 | 1130 | 13800 | 2500 |
| 3 | 461 | 520 | 982 | 11200 | 1240 | 9950 | 3450 | 1760 | 963 | 926 | 15100 | 2160 |
| 4 | 461 | 508 | 3070 | 8000 | 1220 | 17000 | 3240 | 2590 | 872 | 2020 | 15100 | 1940 |
| 5 | 450 | 496 | 5180 | 4750 | 1100 | 24900 | 3270 | 2470 | 819 | 4780 | 13500 | 1760 |
| 6 | 438 | 496 | 3740 | 3480 | 1050 | 22800 | 2910 | 2100 | 785 | 3340 | 6500 | 1640 |
| 7 | 438 | 496 | 2970 | 2910 | 1070 | 14800 | 2470 | 1910 | 982 | 2240 | 3970 | 1520 |
| 8 | 427 | 484 | 3810 | 2300 | 1050 | 7610 | 2270 | 1760 | 1470 | 1660 | 3200 | 1430 |
| 9 | 416 | 473 | 7000 | 1900 | 1000 | 5450 | 2780 | 1640 | 1470 | 1450 | 2720 | 1320 |
| 10 | 405 | 473 | 6470 | 1750 | 1020 | 4750 | 3780 | 1540 | 1410 | 3410 | 2380 | 1240 |
| 11 | 427 | 473 | 4200 | 1680 | 990 | 4240 | 3590 | 1470 | 1380 | 2680 | 2620 | 1200 |
| 12 | 496 | 473 | 2970 | 1620 | 980 | 3630 | 6870 | 1540 | 1150 | 1910 | 2970 | 1150 |
| 13 | 890 | 473 | 2410 | 1600 | 940 | 3170 | 10500 | 1970 | 1040 | 4630 | 2590 | 1130 |
| 14 | 1490 | 473 | 2160 | 1620 | 950 | 2940 | 10500 | 1860 | 1000 | 9370 | 2160 | 1270 |
| 15 | 1760 | 496 | 1910 | 1600 | 1020 | 2750 | 8400 | 1610 | 854 | 11300 | 1890 | 1560 |
| 16 | 1430 | 532 | 1730 | 1600 | 1080 | 2500 | 5700 | 1450 | 720 | 6180 | 1710 | 1590 |
| 17 | 1170 | 1060 | 1560 | 1610 | 1060 | 2330 | 4490 | 1340 | 613 | 4240 | 1560 | 1340 |
| 18 | 982 | 2720 | 1470 | 1640 | 963 | 2210 | 3630 | 1240 | 642 | 3000 | 1470 | 1200 |
| 19 | 872 | 3450 | 1380 | 1730 | 980 | 2100 | 3070 | 1200 | 854 | 2210 | 1520 | 1080 |
| 20 | 785 | 2590 | 1380 | 1590 | 1000 | 2050 | 2720 | 1150 | 837 | 1840 | 2080 | 1020 |
| 21 | 736 | 1940 | 1660 | 2910 | 1170 | 2020 | 2470 | 1100 | 3200 | 1590 | 3450 | 982 |
| 22 | 673 | 1640 | 2240 | 4600 | 2530 | 1890 | 2270 | 1060 | 3930 | 1430 | 5180 | 982 |
| 23 | 642 | 1430 | 1970 | 3590 | 8970 | 2130 | 2100 | 1020 | 2440 | 1340 | 5610 | 926 |
| 24 | 613 | 1320 | 1730 | 3310 | 20600 | 2470 | 2000 | 945 | 1840 | 1340 | 4720 | 890 |
| 25 | 584 | 1220 | 1610 | 2970 | 24600 | 2300 | 1940 | 982 | 1410 | 2360 | 3450 | 854 |
| 26 | 584 | 1130 | 1490 | 2410 | 18000 | 2000 | 1890 | 982 | 1150 | 4750 | 2910 | 819 |
| 27 | 584 | 1080 | 1320 | 2100 | 11300 | 1780 | 1840 | 1000 | 1020 | 5930 | 3810 | 802 |
| 28 | 598 | 1040 | 1200 | 1910 | 6280 | 1680 | 1760 | 1000 | 926 | 8350 | 4320 | 769 |
| 29 | 584 | 982 | 1130 | 1710 | --- | 1640 | 1710 | 982 | 908 | 16000 | 4840 | 752 |
| 30 | 570 | 926 | 1100 | 1520 | --- | 1710 | 1610 | 926 | 1320 | 21100 | 5330 | 752 |
| 31 | 545 | --- | 2050 | 1470 | --- | 2240 | --- | 908 | --- | 19000 | 4160 | --- |
| TOTAL | 21433 | 30446 | 73654 | 102370 | 114743 | 167990 | 109410 | 44515 | 38145 | 152916 | 160720 | 39618 |
| MEAN | 691 | 1015 | 2376 | 3302 | 4098 | 5419 | 3647 | 1436 | 1272 | 4933 | 5185 | 1321 |
| MAX | 1760 | 3450 | 7000 | 13500 | 24600 | 24900 | 10500 | 2590 | 3930 | 21100 | 16100 | 3040 |
| MIN | 405 | 473 | 854 | 1470 | 940 | 1640 | 1610 | 908 | 613 | 926 | 1470 | 752 |
| CFSM | .41 | .60 | 1.39 | 1.93 | 2.40 | 3.18 | 2.14 | .84 | .75 | 2.89 | 3.04 | .77 |
| IN. | .47 | .66 | 1.61 | 2.23 | 2.50 | 3.66 | 2.38 | .97 | .83 | 3.33 | 3.50 | .86 |

| | | | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1978 | TOTAL | 799400 | MEAN | 2190 | MAX | 22200 | MIN | 405 | CFSM | 1.28 | IN | 17.42 |
| WTR YR 1979 | TOTAL | 1055960 | MEAN | 2893 | MAX | 24900 | MIN | 405 | CFSM | 1.70 | IN | 23.01 |

03364200 HAW CREEK NEAR CLIFFORD, IN

LOCATION.--Lat 39°16'04", long 85°51'22", in NW¼SW¼ sec.34, T.10 N., R.6 E., Bartholomew County, Hydrologic Unit 05120205, on left bank 20 ft (6.10 m) downstream from bridge on County Road 450 North, 1.2 miles (1.9 km) southeast of Clifford, 5.8 miles (9.3 km) northeast of Columbus, and 7.6 miles (12.2 km) upstream from mouth.

DRAINAGE AREA.--47.5 mi² (123.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 643.00 ft (195.986 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for January through June, which are poor.

AVERAGE DISCHARGE.--12 years, 50.4 ft³/s (1.427 m³/s), 14.41 in/yr (366 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) May 24, 1968, gage height, 13.9 (4.24 m), from floodmark; no flow at times during September and October 1967 due to diversion for irrigation.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*).

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Dec. 8 | 1700 | 1250 | 35.4 | 9.90 | 3.018 | July 13 | 1945 | 1040 | 29.5 | 8.98 | 2.737 |
| Dec. 31 | 2400 | 1310 | 37.1 | 10.14 | 3.091 | July 28 | 2215 | *1970 | 55.8 | *12.45 | 3.795 |
| Feb. 23 | unknown | 1300 | 36.8 | unknown | | Aug. 1 | 1900 | 719 | 55.8 | 7.40 | 2.256 |
| Mar. 4 | unknown | 1500 | 42.5 | unknown | | | | | | | |

Minimum daily discharge, 5.4 ft³/s (0.15 m³/s) Oct. 9, 10.

NOTE.--No gage height record Feb. 23 to Mar. 30 and June 3 to July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|------|------|-------|--------|------|-------|
| 1 | 6.0 | 9.0 | 18 | 777 | 26 | 190 | 56 | 27 | 30 | 35 | 288 | 21 |
| 2 | 6.0 | 8.3 | 17 | 276 | 29 | 420 | 82 | 27 | 24 | 15 | 262 | 19 |
| 3 | 5.7 | 8.3 | 50 | 114 | 29 | 620 | 69 | 41 | 20 | 9.0 | 120 | 17 |
| 4 | 5.7 | 8.0 | 259 | 73 | 25 | 900 | 57 | 60 | 17 | 126 | 90 | 16 |
| 5 | 5.7 | 8.0 | 106 | 57 | 27 | 300 | 36 | 50 | 14 | 41 | 65 | 15 |
| 6 | 6.0 | 7.6 | 73 | 49 | 25 | 150 | 30 | 41 | 12 | 18 | 53 | 14 |
| 7 | 5.7 | 7.6 | 66 | 42 | 23 | 125 | 27 | 36 | 13 | 13 | 40 | 13 |
| 8 | 5.7 | 7.6 | 637 | 37 | 25 | 105 | 25 | 33 | 40 | 11 | 31 | 13 |
| 9 | 5.4 | 7.6 | 364 | 29 | 20 | 93 | 90 | 31 | 32 | 13 | 27 | 12 |
| 10 | 5.4 | 7.6 | 132 | 22 | 19 | 78 | 60 | 29 | 27 | 43 | 29 | 12 |
| 11 | 7.3 | 7.6 | 85 | 20 | 18 | 66 | 130 | 26 | 22 | 17 | 65 | 11 |
| 12 | 10 | 7.6 | 69 | 20 | 18 | 56 | 290 | 36 | 18 | 16 | 36 | 11 |
| 13 | 101 | 7.6 | 62 | 23 | 19 | 52 | 130 | 51 | 15 | 623 | 26 | 12 |
| 14 | 54 | 8.7 | 53 | 27 | 18 | 50 | 150 | 42 | 17 | 235 | 22 | 32 |
| 15 | 33 | 8.7 | 49 | 31 | 21 | 46 | 115 | 30 | 14 | 102 | 20 | 20 |
| 16 | 25 | 9.4 | 42 | 24 | 34 | 42 | 90 | 26 | 12 | 69 | 18 | 16 |
| 17 | 19 | 116 | 37 | 28 | 28 | 40 | 70 | 24 | 11 | 49 | 17 | 13 |
| 18 | 16 | 106 | 34 | 40 | 24 | 37 | 58 | 23 | 12 | 40 | 16 | 13 |
| 19 | 15 | 57 | 33 | 36 | 22 | 37 | 49 | 22 | 13 | 33 | 177 | 12 |
| 20 | 14 | 40 | 40 | 33 | 20 | 36 | 43 | 22 | 15 | 27 | 197 | 12 |
| 21 | 13 | 30 | 74 | 200 | 89 | 33 | 37 | 22 | 78 | 25 | 92 | 12 |
| 22 | 12 | 26 | 53 | 119 | 350 | 31 | 43 | 21 | 45 | 24 | 51 | 12 |
| 23 | 11 | 24 | 43 | 83 | 780 | 35 | 39 | 21 | 32 | 27 | 33 | 11 |
| 24 | 11 | 22 | 40 | 128 | 660 | 39 | 38 | 20 | 24 | 24 | 25 | 10 |
| 25 | 11 | 18 | 37 | 98 | 380 | 30 | 37 | 19 | 18 | 55 | 19 | 10 |
| 26 | 11 | 19 | 30 | 69 | 250 | 27 | 37 | 19 | 15 | 54 | 56 | 10 |
| 27 | 11 | 24 | 26 | 56 | 190 | 25 | 34 | 21 | 11 | 48 | 93 | 9.8 |
| 28 | 11 | 24 | 24 | 45 | 140 | 24 | 34 | 19 | 9.0 | 617 | 52 | 9.0 |
| 29 | 9.8 | 21 | 24 | 37 | --- | 24 | 30 | 18 | 23 | 998 | 42 | 9.0 |
| 30 | 9.4 | 20 | 24 | 31 | --- | 24 | 29 | 17 | 72 | 262 | 31 | 9.0 |
| 31 | 9.4 | --- | 358 | 28 | --- | 43 | --- | 26 | --- | 126 | 24 | --- |
| TOTAL | 471.2 | 676.2 | 2959 | 2652 | 3309 | 3778 | 2015 | 900 | 705.0 | 3795.0 | 2117 | 405.8 |
| MEAN | 15.2 | 22.5 | 95.5 | 85.5 | 118 | 122 | 67.2 | 29.0 | 23.5 | 122 | 68.3 | 13.5 |
| MAX | 101 | 116 | 637 | 777 | 780 | 900 | 290 | 60 | 78 | 998 | 288 | 32 |
| MIN | 5.4 | 7.6 | 17 | 20 | 18 | 24 | 25 | 17 | 9.0 | 9.0 | 16 | 9.0 |
| CFSM | .32 | .47 | 2.01 | 1.80 | 2.48 | 2.57 | 1.42 | .61 | .50 | 2.57 | 1.44 | .28 |
| IN. | .37 | .53 | 2.32 | 2.08 | 2.59 | 2.96 | 1.58 | .70 | .55 | 2.97 | 1.66 | .32 |
| CAL YR 1978 | TOTAL | 23227.2 | MEAN | 63.6 | MAX | 2080 | MIN | 5.4 | CFSM | 1.34 | IN | 18.19 |
| WTR YR 1979 | TOTAL | 23783.2 | MEAN | 65.2 | MAX | 998 | MIN | 5.4 | CFSM | 1.37 | IN | 18.63 |

WABASH RIVER BASIN

03364200 HAW CREEK NEAR CLIFFORD, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1978 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|
| JUL 13... | 1300 | 23.0 | 439 | 784 | 929 | 100 | -- | -- | -- |
| AUG 02... | 1245 | -- | 234 | 108 | 68 | 91 | 94 | 98 | 100 |
| SEP 24... | 1530 | 14.0 | 10 | 44 | 1.2 | -- | -- | -- | -- |

03364500 CLIFTY CREEK AT HARTSVILLE, IN

LOCATION.--Lat 39°16'25", long 85°42'10", in NW¼ sec.36, T.10 N., R.7 E., Bartholomew County, Hydrologic Unit 05120206, at downstream side of left abutment of highway bridge, 0.2 mile (0.3 km) north of Hartsville, 5.9 miles (9.5 km) upstream from Duck Creek, and at mile 20.0 (32.2 km).
DRAINAGE AREA.--91.4 mi² (236.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1948 to current year.

REVISED RECORDS.--WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area. WRD Ind. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 677.34 ft (206.453 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--31 years, 97.2 ft³/s (2.753 m³/s), 14.44 in/yr (367 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/s) Jan. 21, 1959, gage height, 14.29 ft (4.356 m); no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached an elevation of 702.4 ft (214.09 m) National Geodetic Vertical Datum of 1929, from floodmarks, upstream from bridge.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 8 | 2200 | 1570 44.5 | 5.56 1.695 | July 4 | 1900 | 2580 73.1 | 7.29 2.222 |
| Jan. 1 | 0500 | 1560 44.2 | 5.54 1.689 | July 13 | 1300 | 1440 40.8 | 5.32 1.622 |
| Feb. 23 | 0900 | ----- | a*10.25 3.124 | July 29 | 0400 | 1940 54.9 | 6.22 1.896 |
| Feb. 23 | 2200 | *4790 136 | 10.07 3.069 | Aug. 1 | 2200 | 1570 44.5 | 5.56 1.695 |
| Mar. 4 | 0700 | 2300 65.1 | 6.83 2.082 | Aug. 19 | 1900 | 2220 62.9 | 6.70 2.042 |

Minimum daily discharge, 2.9 ft³/s (0.082 m³/s) Oct. 10.

^aIce jam.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: December 1970 to September 1975.

WATER TEMPERATURE: December 1970 to September 1975.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|----------|----------|---------|-----------|----------|------|--------|------|------|------|
| 1 | 3.6 | 12 | 35 | 1350 | 45 | 326 | 64 | 39 | 30 | 57 | 631 | 56 |
| 2 | 3.5 | 12 | 32 | 706 | 45 | 749 | 116 | 35 | 26 | 24 | 715 | 47 |
| 3 | 3.3 | 11 | 73 | 238 | 48 | 1270 | 121 | 61 | 19 | 15 | 266 | 40 |
| 4 | 3.6 | 12 | 517 | 160 | 47 | 1730 | 128 | 93 | 16 | 1320 | 168 | 34 |
| 5 | 3.7 | 11 | 260 | 123 | 38 | 531 | 181 | 87 | 14 | 333 | 118 | 29 |
| 6 | 3.7 | 11 | 172 | 100 | 45 | 292 | 130 | 73 | 13 | 138 | 85 | 26 |
| 7 | 3.5 | 11 | 141 | 80 | 45 | 222 | 98 | 58 | 14 | 75 | 64 | 22 |
| 8 | 3.3 | 11 | 849 | 72 | 43 | 187 | 90 | 51 | 22 | 47 | 51 | 19 |
| 9 | 3.0 | 11 | 807 | 66 | 40 | 152 | 143 | 44 | 17 | 150 | 40 | 16 |
| 10 | 2.9 | 10 | 272 | 60 | 37 | 133 | 133 | 41 | 15 | 152 | 57 | 14 |
| 11 | 5.2 | 10 | 175 | 54 | 37 | 114 | 118 | 39 | 12 | 57 | 148 | 13 |
| 12 | 11 | 11 | 131 | 54 | 40 | 98 | 319 | 53 | 11 | 181 | 141 | 12 |
| 13 | 158 | 10 | 113 | 58 | 39 | 90 | 260 | 73 | 20 | 816 | 73 | 13 |
| 14 | 175 | 11 | 95 | 100 | 37 | 87 | 340 | 51 | 19 | 453 | 47 | 71 |
| 15 | 94 | 13 | 85 | 85 | 45 | 73 | 215 | 42 | 11 | 216 | 36 | 98 |
| 16 | 64 | 15 | 71 | 80 | 69 | 64 | 154 | 37 | 8.3 | 130 | 29 | 44 |
| 17 | 45 | 195 | 57 | 75 | 60 | 62 | 121 | 31 | 6.8 | 81 | 24 | 29 |
| 18 | 33 | 304 | 49 | 150 | 49 | 58 | 100 | 30 | 5.9 | 53 | 31 | 23 |
| 19 | 28 | 157 | 49 | 136 | 46 | 58 | 85 | 29 | 5.5 | 38 | 604 | 20 |
| 20 | 25 | 102 | 61 | 116 | 44 | 58 | 77 | 29 | 71 | 29 | 289 | 17 |
| 21 | 22 | 78 | 137 | 289 | 160 | 53 | 71 | 27 | 653 | 24 | 172 | 17 |
| 22 | 20 | 58 | 115 | 245 | 785 | 49 | 87 | 25 | 187 | 20 | 108 | 21 |
| 23 | 18 | 52 | 88 | 160 | 3360 | 54 | 71 | 23 | 137 | 17 | 130 | 23 |
| 24 | 18 | 47 | 78 | 181 | 1790 | 58 | 64 | 23 | 67 | 19 | 100 | 21 |
| 25 | 17 | 38 | 67 | 133 | 684 | 49 | 64 | 25 | 43 | 56 | 79 | 16 |
| 26 | 19 | 37 | 51 | 109 | 448 | 44 | 62 | 25 | 27 | 161 | 240 | 13 |
| 27 | 19 | 46 | 42 | 85 | 289 | 38 | 58 | 27 | 19 | 176 | 296 | 11 |
| 28 | 19 | 51 | 35 | 72 | 228 | 37 | 56 | 24 | 15 | 671 | 187 | 11 |
| 29 | 16 | 44 | 40 | 62 | --- | 38 | 51 | 19 | 21 | 1130 | 137 | 12 |
| 30 | 14 | 41 | 37 | 54 | --- | 39 | 44 | 16 | 106 | 331 | 101 | 12 |
| 31 | 13 | --- | 276 | 48 | --- | 49 | --- | 26 | --- | 189 | 72 | --- |
| TOTAL | 867.3 | 1432 | 5010 | 5301 | 8643 | 6862 | 3621 | 1256 | 1631.5 | 7159 | 5239 | 800 |
| MEAN | 28.0 | 47.7 | 162 | 171 | 309 | 221 | 121 | 40.5 | 54.4 | 231 | 169 | 26.7 |
| MAX | 175 | 304 | 849 | 1350 | 3360 | 1730 | 340 | 93 | 653 | 1320 | 715 | 98 |
| MIN | 2.9 | 10 | 32 | 48 | 37 | 37 | 44 | 16 | 5.5 | 15 | 24 | 11 |
| CFSM | .31 | .52 | 1.77 | 1.87 | 3.38 | 2.42 | 1.32 | .44 | .60 | 2.53 | 1.85 | .29 |
| IN. | .35 | .58 | 2.04 | 2.16 | 3.52 | 2.79 | 1.47 | .51 | .66 | 2.91 | 2.13 | .33 |
| CAL YR 1978 | TOTAL | 45343.2 | MEAN 124 | MAX 3660 | MIN 2.6 | CFSM 1.36 | IN 18.45 | | | | | |
| WTR YR 1979 | TOTAL | 47821.8 | MEAN 131 | MAX 3360 | MIN 2.9 | CFSM 1.43 | IN 19.46 | | | | | |

WABASH RIVER BASIN

03365000 SAND CREEK NEAR BREWERSVILLE, IN

LOCATION.--Lat 39°05'03", long 85°39'32", in NW¼NE¼ sec.5, T.7 N., R.8 E., Jennings County, Hydrologic Unit 05120206, 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 16.0 miles (25.7 km) upstream from mouth.

DRAINAGE AREA.--155 mi² (401 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1948 to current year.

REVISED RECORDS.--WSP 1335: 1949. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 629.13 ft (191.759 m) National Geodetic Vertical Datum of 1929 (levels by State of 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.

REMARKS.--Records good except those for periods of no gage-height record, Dec. 8 to Feb. 28 and Mar. 27 to May 23, which are poor.

AVERAGE DISCHARGE.--31 years, 172 ft³/s (4.871 m³/s), 15.07 in/yr (383 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,900 ft³/s (564 m³/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 ft³/s (184 m³/s) on basis of contracted-opening measurement of peak flow; no flow at times during 1948, 1949, 1953-55, 1964, 1965, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,900 ft³/s (82.1 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Nov. 17 | 1900 | 3460 98.0 | 9.90 3.018 | June 21 | 0400 | 3650 103 | 10.17 3.100 |
| Dec. 4 | 0600 | 4080 116 | 10.74 3.274 | July 13 | 2200 | 3630 103 | 10.14 3.091 |
| Jan. 1 | unknown | 5170 146 | 12.04 3.670 | July 29 | 0300 | 4740 134 | 11.55 3.520 |
| Feb. 23 | unknown | *8000 227 | *unknown | | | | |

Minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Oct. 9, 10.

NOTE.--No gage-height record Dec. 8 to Feb. 28 and Mar. 27 to May 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|-------|-------|-------|------|-------|------|------|-------|-------|-------|
| 1 | 10 | 26 | 89 | 3000 | 100 | 883 | 300 | 78 | 113 | 117 | 846 | 101 |
| 2 | 10 | 26 | 79 | 1000 | 90 | 1110 | 1600 | 70 | 65 | 57 | 1400 | 81 |
| 3 | 9.0 | 25 | 728 | 400 | 100 | 1090 | 600 | 250 | 46 | 39 | 391 | 69 |
| 4 | 11 | 23 | 2410 | 300 | 100 | 1640 | 1200 | 800 | 38 | 734 | 221 | 60 |
| 5 | 10 | 23 | 557 | 230 | 80 | 859 | 700 | 500 | 33 | 514 | 145 | 52 |
| 6 | 9.5 | 22 | 319 | 180 | 70 | 484 | 400 | 250 | 29 | 141 | 106 | 47 |
| 7 | 9.0 | 22 | 233 | 150 | 80 | 365 | 240 | 190 | 28 | 76 | 83 | 42 |
| 8 | 8.5 | 21 | 2200 | 130 | 70 | 294 | 170 | 150 | 35 | 53 | 68 | 37 |
| 9 | 8.0 | 20 | 1500 | 110 | 66 | 251 | 230 | 120 | 40 | 49 | 56 | 33 |
| 10 | 8.0 | 21 | 350 | 100 | 62 | 209 | 210 | 100 | 27 | 57 | 49 | 30 |
| 11 | 12 | 19 | 250 | 90 | 62 | 182 | 190 | 80 | 19 | 46 | 91 | 28 |
| 12 | 67 | 19 | 230 | 88 | 66 | 152 | 1200 | 80 | 22 | 38 | 118 | 27 |
| 13 | 1240 | 20 | 220 | 90 | 66 | 136 | 700 | 90 | 21 | 1760 | 77 | 26 |
| 14 | 366 | 21 | 160 | 200 | 64 | 132 | 1200 | 80 | 38 | 1020 | 52 | 176 |
| 15 | 157 | 27 | 140 | 150 | 90 | 131 | 400 | 75 | 34 | 368 | 41 | 275 |
| 16 | 99 | 54 | 120 | 130 | 250 | 112 | 250 | 64 | 30 | 187 | 37 | 131 |
| 17 | 75 | 1420 | 110 | 200 | 200 | 100 | 180 | 54 | 24 | 114 | 32 | 87 |
| 18 | 57 | 845 | 90 | 300 | 150 | 96 | 150 | 48 | 20 | 81 | 28 | 63 |
| 19 | 49 | 296 | 90 | 250 | 120 | 94 | 120 | 42 | 17 | 61 | 833 | 48 |
| 20 | 43 | 181 | 150 | 220 | 100 | 92 | 110 | 40 | 899 | 48 | 1260 | 40 |
| 21 | 40 | 135 | 600 | 800 | 600 | 88 | 100 | 39 | 1510 | 41 | 472 | 37 |
| 22 | 39 | 110 | 250 | 500 | 2000 | 82 | 250 | 38 | 405 | 37 | 231 | 75 |
| 23 | 36 | 101 | 190 | 300 | 5000 | 79 | 150 | 37 | 166 | 34 | 430 | 159 |
| 24 | 33 | 106 | 150 | 500 | 1800 | 121 | 120 | 38 | 97 | 33 | 795 | 96 |
| 25 | 32 | 83 | 135 | 300 | 2000 | 115 | 110 | 39 | 72 | 430 | 306 | 64 |
| 26 | 35 | 90 | 115 | 250 | 1000 | 91 | 110 | 37 | 54 | 597 | 328 | 48 |
| 27 | 38 | 292 | 100 | 210 | 700 | 74 | 100 | 56 | 42 | 616 | 683 | 40 |
| 28 | 39 | 215 | 90 | 180 | 520 | 70 | 100 | 60 | 36 | 1470 | 510 | 38 |
| 29 | 34 | 128 | 90 | 160 | --- | 70 | 90 | 43 | 33 | 2590 | 287 | 43 |
| 30 | 30 | 105 | 90 | 140 | --- | 72 | 85 | 36 | 194 | 490 | 194 | 46 |
| 31 | 27 | --- | 1000 | 120 | --- | 90 | --- | 44 | --- | 263 | 142 | --- |
| TOTAL | 2641.0 | 4496 | 12835 | 10778 | 15606 | 9364 | 11365 | 3628 | 4187 | 12161 | 10312 | 2099 |
| MEAN | 85.2 | 150 | 414 | 348 | 557 | 302 | 379 | 117 | 140 | 392 | 333 | 70.0 |
| MAX | 1240 | 1420 | 2410 | 3000 | 5000 | 1640 | 1600 | 800 | 1510 | 2590 | 1400 | 275 |
| MIN | 8.0 | 19 | 79 | 88 | 62 | 70 | 85 | 36 | 17 | 33 | 28 | 26 |
| CFM | .55 | .97 | 2.67 | 2.25 | 3.59 | 1.95 | 2.45 | .76 | .90 | 2.53 | 2.15 | .45 |
| IN. | .63 | 1.08 | 3.08 | 2.59 | 3.75 | 2.25 | 2.73 | .87 | 1.00 | 2.92 | 2.47 | .50 |
| CAL YR 1978 | TOTAL | 89775.7 | MEAN | 246 | MAX | 8210 | MIN | 6.0 | CFM | 1.59 | IN | 21.55 |
| WTR YR 1979 | TOTAL | 99472.0 | MEAN | 273 | MAX | 5000 | MIN | 8.0 | CFM | 1.76 | IN | 23.87 |

03365000 SAND CREEK NEAR BREWERSVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|--------------|------|-----------------------------|---|--|---|
| JUN 21... | 0915 | 21.5 | 1940 | 5160 | 27000 |

WABASH RIVER BASIN

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN

LOCATION.--Lat 38°58'57", long 85°53'57", in NW¼NE¼ sec.7, T.6 N., R.6 E., Jackson County, Hydrologic Unit 05120206, on left bank 1,700 ft (518 m) downstream from highway bridge, 1 mile (2 km) north of Seymour, 9.5 miles (15.3 km) downstream from Sand Creek, and at mile 214.6 (345.3 km).

DRAINAGE AREA.--2,341 mi² (6,063 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Yearly maximum discharge only for water years 1924-27 published in WSP 1305. Daily gage heights from May 1923 to September 1927 are available in the district office.

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 550.67 ft (167.844 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--52 years, 2,430 ft³/s (68.82 m³/s), 14.10 in/yr (358 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,500 ft³/s (2,220 m³/s) Jan. 5, 1949, gage height, 19.67 ft (5.995 m); minimum daily, 86 ft³/s (2.44 m³/s) Sept. 28, 30, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 21.0 ft (6.40 m), from information by Corps of Engineers and Indiana State Highway Commission, discharge, 120,000 ft³/s (3,400 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 12,000 ft³/s (340 m³/s) and maximum (*):.

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 9 | 1900 | 14400 408 | 14.52 4.426 | Apr. 14 | 1800 | 14800 419 | 14.62 4.456 |
| Jan. 2 | 1000 | 22700 643 | 16.06 4.895 | July 16 | 1300 | 12100 343 | 13.78 4.200 |
| Feb. 24 | 1300 | 36700 1040 | 17.73 5.404 | Aug. 2 | 1600 | *39900 1130 | *17.95 5.471 |
| Mar. 6 | 0800 | 30600 867 | 17.12 5.218 | | | | |

Minimum daily discharge, 601 ft³/s (17.0 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|
| 1 | 679 | 718 | 1310 | 10700 | 1830 | 9680 | 3080 | 1960 | 1210 | 1680 | 31300 | 4310 |
| 2 | 668 | 703 | 1240 | 21300 | 1630 | 10300 | 4820 | 1860 | 1360 | 1440 | 36700 | 3360 |
| 3 | 665 | 693 | 1360 | 15900 | 1640 | 13000 | 5680 | 2260 | 1240 | 1200 | 29200 | 2860 |
| 4 | 660 | 683 | 5670 | 11000 | 1680 | 21400 | 5100 | 3860 | 1140 | 1140 | 22600 | 2540 |
| 5 | 649 | 671 | 7480 | 7800 | 1510 | 29600 | 6620 | 4370 | 1070 | 5020 | 21200 | 2290 |
| 6 | 638 | 662 | 6690 | 5500 | 1360 | 30200 | 5070 | 3280 | 1030 | 4760 | 17100 | 2110 |
| 7 | 630 | 655 | 5020 | 4000 | 1440 | 25100 | 3820 | 2660 | 1020 | 3040 | 8650 | 1970 |
| 8 | 619 | 650 | 5330 | 3200 | 1420 | 15400 | 3210 | 2300 | 1300 | 2120 | 5150 | 1850 |
| 9 | 610 | 643 | 12300 | 2700 | 1340 | 9590 | 3200 | 2070 | 1510 | 1710 | 4080 | 1740 |
| 10 | 601 | 634 | 12000 | 2500 | 1340 | 7890 | 4350 | 1910 | 1440 | 2100 | 3500 | 1650 |
| 11 | 609 | 632 | 8840 | 2320 | 1300 | 6550 | 4550 | 1790 | 1410 | 3300 | 3410 | 1580 |
| 12 | 656 | 627 | 5660 | 2230 | 1300 | 5560 | 5870 | 1740 | 1320 | 2320 | 3810 | 1520 |
| 13 | 2880 | 624 | 4070 | 2160 | 1240 | 4790 | 10100 | 2070 | 1200 | 3210 | 3700 | 1490 |
| 14 | 3550 | 627 | 3390 | 2230 | 1240 | 4280 | 13500 | 2230 | 1230 | 8380 | 3120 | 1600 |
| 15 | 2420 | 643 | 2940 | 2230 | 1240 | 3930 | 12800 | 1980 | 1180 | 10700 | 2710 | 2010 |
| 16 | 1980 | 681 | 2620 | 2150 | 1390 | 3570 | 10100 | 1750 | 1090 | 11800 | 2420 | 2000 |
| 17 | 1580 | 1240 | 2360 | 2150 | 1500 | 3260 | 7600 | 1620 | 1020 | 8500 | 2220 | 1770 |
| 18 | 1330 | 5070 | 2140 | 2580 | 1330 | 3040 | 5580 | 1510 | 970 | 4820 | 2090 | 1600 |
| 19 | 1140 | 4610 | 2000 | 2610 | 1260 | 2880 | 4470 | 1440 | 1040 | 3310 | 2210 | 1490 |
| 20 | 1030 | 3990 | 1950 | 2330 | 1300 | 2750 | 3780 | 1390 | 1090 | 2600 | 4660 | 1410 |
| 21 | 962 | 2970 | 3000 | 3370 | 1330 | 2650 | 3370 | 1340 | 2390 | 2200 | 4680 | 1370 |
| 22 | 911 | 2320 | 3210 | 5820 | 3750 | 2530 | 3720 | 1290 | 5190 | 1950 | 5080 | 1350 |
| 23 | 870 | 1980 | 3000 | 5430 | 12900 | 2480 | 3220 | 1250 | 3390 | 1800 | 6260 | 1440 |
| 24 | 830 | 1800 | 2590 | 4540 | 34000 | 3030 | 2800 | 1210 | 2440 | 1760 | 7710 | 1350 |
| 25 | 801 | 1650 | 2320 | 4870 | 32900 | 3070 | 2610 | 1200 | 1810 | 1810 | 5400 | 1260 |
| 26 | 791 | 1520 | 2140 | 3550 | 33300 | 2700 | 2540 | 1190 | 1480 | 4130 | 4210 | 1200 |
| 27 | 780 | 1650 | 1920 | 2960 | 25000 | 2420 | 2420 | 1250 | 1290 | 6200 | 5610 | 1160 |
| 28 | 778 | 1770 | 1730 | 2670 | 13600 | 2220 | 2300 | 1260 | 1160 | 8140 | 6070 | 1120 |
| 29 | 772 | 1550 | 1600 | 2360 | --- | 2130 | 2230 | 1220 | 1080 | 15700 | 5520 | 1100 |
| 30 | 752 | 1420 | 1570 | 2060 | --- | 2100 | 2100 | 1160 | 1260 | 28600 | 6280 | 1090 |
| 31 | 739 | --- | 1870 | 1950 | --- | 2260 | --- | 1140 | --- | 31800 | 5980 | --- |
| TOTAL | 32580 | 44086 | 119320 | 147170 | 185070 | 240360 | 150610 | 57560 | 45360 | 187240 | 272630 | 53590 |
| MEAN | 1051 | 1470 | 3849 | 4747 | 6610 | 7754 | 5020 | 1857 | 1512 | 6040 | 8795 | 1786 |
| MAX | 3550 | 5070 | 12300 | 21300 | 34000 | 30200 | 13500 | 4370 | 5190 | 31800 | 36700 | 4310 |
| MIN | 601 | 624 | 1240 | 1950 | 1240 | 2100 | 2100 | 1140 | 970 | 1140 | 2090 | 1090 |
| CFSM | .45 | .63 | 1.64 | 2.03 | 2.82 | 3.31 | 2.14 | .79 | .65 | 2.58 | 3.76 | .76 |
| IN. | .52 | .70 | 1.90 | 2.34 | 2.94 | 3.82 | 2.39 | .91 | .72 | 2.98 | 4.33 | .85 |

CAL YR 1978 TOTAL 1111585 MEAN 3045 MAX 33800 MIN 601 CFSM 1.30 IN 17.66
WTR YR 1979 TOTAL 1535576 MEAN 4207 MAX 36700 MIN 601 CFSM 1.80 IN 24.40

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: October 1954 to September 1979 (discontinued).

SEDIMENT DISCHARGE: July 1966 to current year.

REMARKS.--Some regulation of low flow and temperatures by Seymour Water Co. at dam 500 ft (152 m) upstream. Sediment samples collected at highway bridge, 1,700 ft (518 m) upstream.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 31.0°C July 13, 14, 1966; minimum, freezing point on many days during most winter periods. Maximum of 32.0°C was observed on July 19, 1954.

SEDIMENT CONCENTRATIONS: Maximum daily, 1,200 mg/L May 25, June 25, 1968; minimum daily, 2 mg/L Jan. 3 to Feb. 11, 1977.

SEDIMENT DISCHARGE: Maximum daily load, 179,000 tons (162,000 tonnes) May 25, 1968; minimum daily, 0.91 ton (0.83 tonnes) Jan. 19, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.0°C June 21; minimum, 0.0°C Feb. 6, 8-11, 13, 14, 17-28.

SEDIMENT CONCENTRATIONS: Maximum daily, 488 mg/L Apr. 13; minimum daily, 6 mg/L Dec. 2.

SEDIMENT DISCHARGE: Maximum daily load, 42,000 tons (38,100 tonnes) Feb. 24; minimum daily, 20 ton (18.1 tonnes) Dec. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|------|----------|------|----------|-----|---------|-----|----------|-----|-------|------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 18.0 | 17.0 | 13.0 | 12.0 | 7.0 | 6.5 | 6.0 | 5.5 | 2.0 | 1.5 | 1.5 | .5 |
| 2 | 17.5 | 16.5 | 13.0 | 12.0 | 6.5 | 6.5 | 5.5 | 2.0 | 2.0 | 1.5 | 2.5 | 1.5 |
| 3 | 17.5 | 16.5 | 13.0 | 12.5 | 8.0 | 6.5 | 2.0 | .5 | 2.0 | 1.5 | 3.5 | 2.5 |
| 4 | 16.5 | 16.0 | 13.5 | 13.0 | 8.5 | 8.0 | 1.0 | .5 | 2.0 | 2.0 | 5.5 | 3.5 |
| 5 | 16.5 | 15.5 | 14.0 | 13.0 | 8.0 | 6.5 | .5 | .5 | 2.0 | 1.0 | 5.5 | 4.0 |
| 6 | 15.5 | 14.5 | 14.0 | 13.5 | 6.5 | 6.0 | .5 | .5 | 1.0 | .0 | 4.0 | 3.5 |
| 7 | 14.5 | 14.0 | 14.0 | 12.0 | 6.5 | 6.0 | .5 | .5 | 1.0 | .5 | 4.0 | 3.5 |
| 8 | 14.0 | 13.5 | 12.0 | 11.0 | 7.0 | 6.5 | .5 | .5 | .5 | .0 | 5.0 | 4.0 |
| 9 | 14.0 | 13.0 | 11.5 | 10.5 | 7.0 | 5.0 | .5 | .5 | .0 | .0 | 5.0 | 5.0 |
| 10 | 14.5 | 13.5 | 11.0 | 10.5 | 5.0 | 3.5 | .5 | .5 | .0 | .0 | 5.0 | 4.5 |
| 11 | 14.5 | 14.5 | 11.5 | 11.0 | 3.5 | 3.0 | .5 | .5 | .5 | .0 | 4.5 | 3.5 |
| 12 | 15.5 | 14.5 | 12.0 | 11.5 | 3.0 | 2.5 | .5 | .5 | 1.0 | .5 | 3.5 | 3.0 |
| 13 | 15.5 | 14.5 | 13.0 | 12.0 | 3.5 | 3.0 | 1.5 | .5 | .5 | .0 | 4.0 | 3.0 |
| 14 | 14.5 | 13.5 | 13.5 | 13.0 | 3.5 | 3.5 | 1.5 | 1.0 | .5 | .0 | 5.5 | 4.0 |
| 15 | 13.5 | 12.5 | 13.0 | 11.5 | 3.5 | 3.5 | 1.0 | .5 | 1.0 | .5 | 6.0 | 5.5 |
| 16 | 12.5 | 11.5 | 11.5 | 11.0 | 4.0 | 3.5 | .5 | .5 | 1.0 | .5 | 6.0 | 5.5 |
| 17 | 11.5 | 11.0 | 12.0 | 11.0 | 4.0 | 3.5 | 1.5 | .5 | .5 | .0 | 6.5 | 5.5 |
| 18 | 12.0 | 11.5 | 12.5 | 11.5 | 4.0 | 4.0 | 1.5 | 1.0 | .0 | .0 | 9.0 | 6.5 |
| 19 | 13.0 | 12.0 | 11.5 | 10.0 | 4.0 | 4.0 | 1.5 | 1.0 | .0 | .0 | 10.5 | 9.0 |
| 20 | 13.0 | 12.0 | 10.0 | 9.0 | 5.5 | 4.0 | 2.0 | 1.0 | .0 | .0 | 12.0 | 10.5 |
| 21 | 13.5 | 12.0 | 9.0 | 8.5 | 6.0 | 5.5 | 2.0 | 1.5 | 1.0 | .0 | 14.0 | 12.0 |
| 22 | 14.0 | 13.5 | 8.5 | 8.5 | 5.5 | 4.5 | 1.5 | 1.5 | 1.0 | .0 | 14.5 | 14.0 |
| 23 | 14.0 | 13.5 | 9.0 | 8.5 | 4.5 | 4.0 | 1.5 | 1.0 | .0 | .0 | 14.5 | 14.5 |
| 24 | 13.5 | 12.5 | 9.0 | 9.0 | 4.0 | 3.5 | 2.0 | 1.5 | .5 | .0 | 14.5 | 12.0 |
| 25 | 13.0 | 12.0 | 9.0 | 8.5 | 3.5 | 3.5 | 1.5 | 1.5 | .5 | .0 | 12.0 | 9.5 |
| 26 | 13.0 | 12.5 | 8.5 | 8.0 | 3.5 | 3.0 | 1.5 | 1.5 | .0 | .0 | 9.5 | 8.5 |
| 27 | 12.5 | 11.5 | 8.0 | 8.0 | 3.0 | 2.5 | 1.5 | 1.5 | .5 | .0 | 9.0 | 8.5 |
| 28 | 12.0 | 11.5 | 8.0 | 7.5 | 2.5 | 2.0 | 2.0 | 1.5 | .5 | .0 | 9.5 | 8.5 |
| 29 | 13.5 | 11.5 | 7.5 | 7.0 | 3.0 | 2.0 | 2.0 | 1.5 | --- | --- | 10.5 | 9.5 |
| 30 | 12.0 | 11.0 | 7.0 | 6.5 | 3.5 | 3.0 | 2.5 | 2.0 | --- | --- | 11.5 | 10.5 |
| 31 | 12.0 | 11.5 | --- | --- | 5.5 | 3.5 | 2.5 | 2.0 | --- | --- | 12.0 | 11.5 |
| MONTH | 18.0 | 11.0 | 14.0 | 6.5 | 8.5 | 2.0 | 6.0 | .5 | 2.0 | .0 | 14.5 | .5 |

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 20 | 37 | 30 | 58 | 7 | 25 | 325 | 9090 | 30 | 148 | 54 | 1410 |
| 2 | 21 | 38 | 30 | 57 | 6 | 20 | 168 | 9660 | 25 | 110 | 78 | 2170 |
| 3 | 23 | 41 | 29 | 54 | 20 | 73 | 134 | 5750 | 30 | 133 | 85 | 2980 |
| 4 | 26 | 46 | 28 | 52 | 269 | 4060 | 115 | 3420 | 28 | 127 | 202 | 13100 |
| 5 | 27 | 47 | 27 | 49 | 130 | 2630 | 108 | 2270 | 20 | 82 | 303 | 24200 |
| 6 | 25 | 43 | 25 | 45 | 122 | 2200 | 103 | 1530 | 17 | 62 | 274 | 22300 |
| 7 | 24 | 41 | 24 | 42 | 93 | 1260 | 98 | 1060 | 20 | 78 | 117 | 7930 |
| 8 | 22 | 37 | 23 | 40 | 144 | 2430 | 94 | 812 | 18 | 69 | 88 | 3660 |
| 9 | 20 | 33 | 22 | 38 | 174 | 5270 | 90 | 656 | 15 | 54 | 67 | 1730 |
| 10 | 19 | 31 | 22 | 38 | 84 | 2720 | 85 | 574 | 12 | 43 | 48 | 1020 |
| 11 | 19 | 31 | 22 | 38 | 59 | 1410 | 78 | 489 | 10 | 35 | 41 | 725 |
| 12 | 23 | 41 | 23 | 39 | 39 | 596 | 68 | 409 | 8 | 28 | 43 | 646 |
| 13 | 265 | 2810 | 23 | 39 | 28 | 308 | 51 | 297 | 8 | 27 | 42 | 543 |
| 14 | 169 | 1980 | 26 | 44 | 30 | 275 | 41 | 247 | 12 | 40 | 46 | 532 |
| 15 | 52 | 340 | 33 | 57 | 23 | 183 | 35 | 211 | 15 | 50 | 42 | 446 |
| 16 | 29 | 155 | 40 | 74 | 12 | 85 | 34 | 197 | 14 | 53 | 32 | 308 |
| 17 | 34 | 145 | 200 | 670 | 13 | 83 | 60 | 348 | 12 | 49 | 28 | 246 |
| 18 | 47 | 169 | 150 | 2050 | 12 | 69 | 100 | 697 | 11 | 40 | 26 | 213 |
| 19 | 48 | 148 | 98 | 1220 | 10 | 54 | 70 | 493 | 9 | 31 | 29 | 226 |
| 20 | 43 | 120 | 63 | 679 | 11 | 58 | 55 | 346 | 9 | 32 | 37 | 275 |
| 21 | 44 | 114 | 38 | 305 | 142 | 1180 | 229 | 2360 | 17 | 61 | 30 | 215 |
| 22 | 45 | 111 | 24 | 150 | 97 | 841 | 179 | 2810 | 151 | 1580 | 27 | 184 |
| 23 | 45 | 106 | 28 | 150 | 74 | 599 | 129 | 1890 | 332 | 11800 | 25 | 167 |
| 24 | 44 | 99 | 27 | 131 | 50 | 350 | 100 | 1230 | 458 | 42000 | 17 | 139 |
| 25 | 44 | 95 | 24 | 107 | 57 | 357 | 80 | 1050 | 282 | 25100 | 15 | 124 |
| 26 | 42 | 90 | 21 | 86 | 58 | 335 | 70 | 671 | 226 | 20300 | 20 | 146 |
| 27 | 40 | 84 | 20 | 89 | 51 | 264 | 60 | 480 | 78 | 5260 | 27 | 176 |
| 28 | 37 | 78 | 16 | 76 | 52 | 243 | 50 | 360 | 87 | 3190 | 32 | 192 |
| 29 | 34 | 71 | 16 | 67 | 57 | 246 | 45 | 287 | --- | --- | 31 | 178 |
| 30 | 32 | 65 | 12 | 46 | 52 | 220 | 40 | 222 | --- | --- | 28 | 159 |
| 31 | 31 | 62 | --- | --- | 108 | 675 | 35 | 184 | --- | --- | 26 | 159 |
| TOTAL | --- | 7308 | --- | 6590 | --- | 29119 | --- | 50100 | --- | 110582 | --- | 86499 |

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|----------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 22 | 183 | 27 | 143 | 61 | 199 | 119 | 540 | 178 | 15200 | 116 | 1350 |
| 2 | 163 | 2220 | 27 | 136 | 50 | 184 | 100 | 389 | 212 | 20800 | 138 | 1250 |
| 3 | 108 | 1660 | 88 | 615 | 53 | 177 | 92 | 298 | 153 | 12100 | 127 | 981 |
| 4 | 140 | 1930 | 354 | 3820 | 59 | 182 | 85 | 262 | 209 | 12800 | 115 | 789 |
| 5 | 128 | 2290 | 375 | 4420 | 59 | 170 | 466 | 6660 | 134 | 7670 | 103 | 637 |
| 6 | 50 | 684 | 175 | 1550 | 56 | 156 | 189 | 2620 | 123 | 5680 | 88 | 501 |
| 7 | 45 | 464 | 173 | 1240 | 55 | 151 | 95 | 780 | 118 | 2760 | 77 | 410 |
| 8 | 47 | 407 | 135 | 838 | 48 | 168 | 55 | 315 | 114 | 1590 | 74 | 370 |
| 9 | 87 | 752 | 125 | 699 | 49 | 200 | 44 | 203 | 110 | 1210 | 70 | 329 |
| 10 | 73 | 857 | 125 | 645 | 50 | 194 | 155 | 1110 | 107 | 1010 | 68 | 303 |
| 11 | 58 | 713 | 129 | 623 | 53 | 202 | 159 | 1420 | 124 | 1140 | 66 | 282 |
| 12 | 155 | 2740 | 131 | 615 | 59 | 210 | 69 | 432 | 214 | 2200 | 64 | 263 |
| 13 | 488 | 13300 | 152 | 850 | 54 | 175 | 330 | 4020 | 213 | 2130 | 67 | 270 |
| 14 | 338 | 12300 | 131 | 789 | 42 | 139 | 218 | 4410 | 196 | 1650 | 82 | 354 |
| 15 | 230 | 7950 | 90 | 481 | 59 | 188 | 170 | 4910 | 133 | 973 | 97 | 526 |
| 16 | 178 | 4850 | 77 | 364 | 57 | 168 | 121 | 3860 | 95 | 621 | 68 | 367 |
| 17 | 150 | 3080 | 73 | 319 | 56 | 154 | 172 | 3950 | 74 | 444 | 55 | 263 |
| 18 | 116 | 1750 | 61 | 249 | 54 | 141 | 190 | 2470 | 58 | 327 | 49 | 212 |
| 19 | 90 | 1090 | 52 | 202 | 63 | 177 | 166 | 1480 | 98 | 735 | 44 | 177 |
| 20 | 76 | 776 | 47 | 176 | 62 | 182 | 127 | 892 | 474 | 5900 | 40 | 152 |
| 21 | 70 | 637 | 44 | 159 | 117 | 949 | 164 | 974 | 154 | 1950 | 38 | 141 |
| 22 | 146 | 1470 | 43 | 150 | 272 | 3810 | 98 | 516 | 127 | 1740 | 35 | 128 |
| 23 | 79 | 687 | 42 | 142 | 93 | 929 | 112 | 544 | 108 | 1830 | 37 | 144 |
| 24 | 53 | 401 | 43 | 140 | 98 | 646 | 117 | 556 | 193 | 4020 | 30 | 109 |
| 25 | 41 | 289 | 39 | 126 | 89 | 435 | 144 | 747 | 118 | 1720 | 29 | 99 |
| 26 | 37 | 254 | 44 | 141 | 63 | 252 | 259 | 2800 | 127 | 1440 | 25 | 81 |
| 27 | 33 | 216 | 46 | 155 | 53 | 185 | 253 | 4210 | 173 | 2620 | 23 | 72 |
| 28 | 32 | 199 | 47 | 160 | 59 | 185 | 248 | 5420 | 117 | 1920 | 22 | 67 |
| 29 | 30 | 181 | 54 | 178 | 52 | 152 | 233 | 9880 | 94 | 1400 | 23 | 68 |
| 30 | 28 | 159 | 53 | 166 | 82 | 296 | 177 | 13700 | 113 | 1920 | 23 | 68 |
| 31 | --- | --- | 51 | 157 | --- | --- | 166 | 14300 | 87 | 1400 | --- | --- |
| TOTAL | --- | 64489 | --- | 20448 | --- | 11356 | --- | 94668 | --- | 118900 | --- | 10763 |
| TOTAL LOAD FOR YEAR: | | | 610822 | TONS. | | | | | | | | |

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|-------|------|---|---|--|---|---|---|
| FEB | | | | | | | |
| 24... | 0700 | 33700 | 609 | 55400 | 99 | 100 | -- |
| 24... | 1000 | 35600 | 590 | 56700 | 99 | 100 | -- |
| 25... | 1600 | 32600 | 231 | 20300 | 96 | 99 | 100 |
| 26... | 0700 | 34300 | 297 | 27500 | 99 | 100 | -- |
| MAR | | | | | | | |
| 05... | 1210 | 29700 | 298 | 23900 | 96 | -- | -- |
| 05... | 1515 | 29600 | 219 | 17500 | 90 | 91 | 92 |
| 06... | 0920 | 30600 | 302 | 25000 | 83 | 100 | -- |
| JUN | | | | | | | |
| 15... | 0700 | 1160 | 121 | 379 | 70 | 88 | 97 |
| 16... | 0710 | 1080 | 156 | 455 | 79 | 97 | 98 |
| 18... | 0700 | 949 | 148 | 379 | 96 | 99 | 100 |
| 20... | 0700 | 1070 | 166 | 480 | 97 | 99 | 100 |
| 22... | 0700 | 5200 | 742 | 10400 | 98 | 99 | 100 |
| 22... | 1700 | 5430 | 792 | 11600 | 99 | 100 | -- |
| 23... | 0700 | 3820 | 248 | 2560 | 98 | 99 | 100 |
| 24... | 0700 | 2620 | 285 | 2020 | 98 | 99 | 99 |
| 25... | 0700 | 1870 | 268 | 1350 | 92 | 98 | 99 |
| JUL | | | | | | | |
| 24... | 1100 | 1760 | 111 | 527 | 75 | 84 | 87 |
| 26... | 1710 | 4660 | 457 | 5750 | 88 | 99 | 100 |
| 27... | 0710 | 5890 | 354 | 5630 | 90 | 100 | -- |
| 27... | 1205 | 6130 | 331 | 5480 | 96 | 99 | 100 |
| 27... | 1605 | 6400 | 331 | 5720 | 92 | 98 | 100 |
| AUG | | | | | | | |
| 12... | 0700 | 3820 | 199 | 2050 | 96 | -- | -- |
| 13... | 0710 | 3850 | 227 | 2360 | 96 | -- | -- |
| 14... | 0700 | 3260 | 203 | 1790 | -- | -- | -- |
| 20... | 0705 | 3580 | 449 | 4340 | 99 | 99 | 100 |
| 20... | 1200 | 4760 | 440 | 5660 | 96 | 98 | 100 |
| 20... | 1605 | 5780 | 598 | 9330 | 99 | 100 | -- |

WABASH RIVER BASIN

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|-------|---|---|--|--|--|--|--|
| FEB | | | | | | | |
| 24... | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- |
| 05... | 100 | -- | 50 | 65 | 76 | 85 | 88 |
| 06... | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | |
| 15... | 100 | -- | -- | -- | -- | -- | -- |
| 16... | 100 | -- | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| 24... | 100 | -- | -- | -- | -- | -- | -- |
| 25... | 100 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | |
| 24... | 91 | 100 | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- |

03366200 HARBERTS CREEK NEAR MADISON, IN

LOCATION.--Lat 38°46'55", long 85°29'08", in SW¼SE¼ sec.14, T.4 N., R.9 E., Jefferson County, Hydrologic Unit 05120207, 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 mi² (24.11 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 725.75 ft (221.209 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 12.9 ft³/s (0.365 m³/s), 18.82 in/yr (478 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) Apr. 2, 1970, gage height, 7.89 ft (2.405 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|----------|------|---|------|-------------------------|-------|
| Oct. 13 | 0100 | 753 | 21.3 | 5.94 | 1.811 | Apr. 2 | 0600 | 788 | 22.3 | 6.20 | 1.890 |
| Dec. 3 | 1500 | 517 | 14.6 | 5.45 | 1.661 | Apr. 4 | 1100 | 908 | 25.7 | 6.49 | 1.978 |
| Dec. 8 | 1400 | 737 | 20.9 | 6.07 | 1.850 | Apr. 12 | 0700 | 588 | 16.7 | 5.66 | 1.725 |
| Jan 1 | 1100 | 752 | 21.3 | 6.11 | 1.862 | Aug. 1 | 2100 | *1400 | 39.6 | *7.57 | 2.307 |
| Feb. 23 | 1200 | 737 | 20.9 | 6.18 | 1.884 | Sept. 22 | 0500 | 699 | 19.8 | 5.97 | 1.820 |
| Feb. 25 | 1700 | 857 | 24.3 | 6.51 | 1.984 | | | | | | |

Minimum daily discharge, 0.29 ft³/s (0.008 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|-----------|---------|---------|-----------|----------|-------|--------|--------|--------|--------|
| 1 | 1.3 | 1.6 | 5.8 | 403 | 6.0 | 20 | 87 | 2.6 | 18 | 1.4 | 347 | .62 |
| 2 | .57 | 1.4 | 4.9 | 54 | 5.0 | 14 | 259 | 2.5 | 7.7 | .78 | 218 | 1.6 |
| 3 | .52 | 1.3 | 188 | 18 | 5.4 | 15 | 29 | 7.5 | 5.2 | .59 | 13 | .90 |
| 4 | .85 | 1.2 | 155 | 9.8 | 5.0 | 44 | 266 | 46 | 4.1 | 28 | 6.8 | .59 |
| 5 | .64 | 1.2 | 23 | 7.0 | 3.5 | 17 | 40 | 25 | 3.4 | 3.5 | 4.5 | .51 |
| 6 | .48 | 1.1 | 13 | 6.2 | 3.2 | 11 | 16 | 8.8 | 2.9 | 1.5 | 3.4 | .47 |
| 7 | .44 | 1.1 | 33 | 6.0 | 3.5 | 8.8 | 11 | 5.6 | 4.3 | 1.0 | 3.5 | .42 |
| 8 | .45 | 1.2 | 534 | 5.2 | 3.0 | 7.8 | 9.7 | 4.2 | 15 | .88 | 2.1 | .35 |
| 9 | .40 | 1.1 | 96 | 4.8 | 2.9 | 6.6 | 43 | 3.5 | 22 | .90 | 1.6 | .35 |
| 10 | .38 | 1.0 | 22 | 4.5 | 2.7 | 6.1 | 16 | 3.0 | 6.9 | 15 | 2.0 | .30 |
| 11 | 2.1 | .90 | 12 | 4.2 | 2.9 | 5.1 | 15 | 2.6 | 5.1 | 4.2 | 22 | .30 |
| 12 | 46 | .97 | 9.8 | 4.0 | 3.0 | 4.5 | 184 | 2.8 | 3.6 | 11 | 10 | .29 |
| 13 | 190 | .96 | 8.3 | 5.0 | 3.0 | 4.5 | 119 | 2.5 | 3.1 | 50 | 4.1 | 2.3 |
| 14 | 11 | 1.2 | 6.8 | 10 | 3.0 | 4.6 | 67 | 2.2 | 3.6 | 13 | 2.6 | 79 |
| 15 | 5.2 | 7.6 | 5.9 | 7.0 | 7.0 | 4.1 | 20 | 2.6 | 2.3 | 5.3 | 2.0 | 7.3 |
| 16 | 3.1 | 11 | 5.5 | 6.0 | 40 | 3.6 | 12 | 2.0 | 1.9 | 3.2 | 1.6 | 3.2 |
| 17 | 2.1 | 114 | 5.4 | 30 | 10 | 3.4 | 8.6 | 1.8 | 1.8 | 2.2 | 1.3 | 2.1 |
| 18 | 1.8 | 26 | 4.6 | 22 | 8.0 | 3.4 | 6.7 | 1.7 | 1.6 | 1.7 | 1.1 | 1.6 |
| 19 | 1.7 | 11 | 4.8 | 13 | 7.0 | 3.5 | 5.8 | 1.6 | 1.5 | 1.3 | .96 | 1.4 |
| 20 | 1.6 | 7.1 | 94 | 52 | 6.0 | 3.5 | 5.1 | 1.6 | 3.4 | 1.1 | 2.1 | 1.1 |
| 21 | 1.5 | 5.6 | 52 | 96 | 60 | 3.5 | 4.8 | 1.5 | 3.1 | 1.0 | 3.3 | 106 |
| 22 | 1.4 | 4.8 | 15 | 25 | 180 | 3.5 | 5.6 | 1.5 | 1.5 | .93 | 1.5 | 285 |
| 23 | 1.3 | 5.9 | 9.9 | 14 | 339 | 24 | 4.6 | 1.6 | 1.3 | 2.0 | 1.1 | 22 |
| 24 | 1.2 | 7.3 | 8.7 | 65 | 65 | 34 | 4.3 | 1.5 | 1.5 | 1.5 | .96 | 9.4 |
| 25 | 1.1 | 4.9 | 8.2 | 25 | 317 | 13 | 4.1 | 1.9 | 1.3 | 7.0 | .77 | 6.1 |
| 26 | 7.0 | 19 | 6.3 | 17 | 68 | 8.2 | 3.8 | 2.2 | 1.1 | 4.3 | 1.3 | 4.6 |
| 27 | 5.0 | 64 | 5.0 | 14 | 24 | 6.0 | 3.8 | 9.3 | 1.0 | 20 | 1.5 | 3.9 |
| 28 | 3.0 | 17 | 4.4 | 11 | 20 | 5.3 | 4.2 | 3.2 | .98 | 33 | 1.2 | 9.4 |
| 29 | 2.5 | 9.4 | 3.8 | 9.6 | --- | 5.2 | 3.5 | 2.0 | 1.7 | 21 | 1.3 | 6.7 |
| 30 | 2.1 | 7.2 | 4.7 | 8.4 | --- | 5.6 | 3.0 | 1.7 | 4.9 | 7.3 | .98 | 4.6 |
| 31 | 1.8 | --- | 125 | 7.0 | --- | 17 | --- | 56 | --- | 4.4 | .72 | --- |
| TOTAL | 298.53 | 338.03 | 1474.8 | 963.7 | 1203.1 | 315.8 | 1261.6 | 212.5 | 135.78 | 248.98 | 664.29 | 562.40 |
| MEAN | 9.63 | 11.3 | 47.6 | 31.1 | 43.0 | 10.2 | 42.1 | 6.85 | 4.53 | 8.03 | 21.4 | 18.7 |
| MAX | 190 | 114 | 534 | 403 | 339 | 44 | 266 | 56 | 22 | 50 | 347 | 285 |
| MIN | .38 | .90 | 3.8 | 4.0 | 2.7 | 3.4 | 3.0 | 1.5 | .98 | .59 | .72 | .29 |
| CFSM | 1.03 | 1.21 | 5.11 | 3.34 | 4.62 | 1.10 | 4.52 | .74 | .49 | .86 | 2.30 | 2.01 |
| IN. | 1.19 | 1.35 | 5.89 | 3.85 | 4.81 | 1.26 | 5.04 | .85 | .54 | .99 | 2.65 | 2.25 |
| CAL YR 1978 | TOTAL | 5746.98 | MEAN 15.7 | MAX 534 | MIN .05 | CFSM 1.69 | IN 22.96 | | | | | |
| WTR YR 1979 | TOTAL | 7679.51 | MEAN 21.0 | MAX 534 | MIN .29 | CFSM 2.26 | IN 30.68 | | | | | |

03366500 MUSCATATUCK RIVER NEAR DEPUTY, IN

LOCATION.--Lat 38°48'15", long 85°40'26", in SW¼NE¼ sec.7, T.4 N., R.8 E., Jefferson County, Hydrologic Unit 05120207, on left bank at downstream side of highway bridge, 1.4 miles (2.3 km) northwest of Deputy, 1.9 miles (3.1 km) upstream from Coffee Creek, 2.4 miles (3.9 km) downstream from confluence of Graham Creek and Big Creek, and at mile 50.0 (80.4 km).

DRAINAGE AREA.--293 mi² (759 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1947 to current year.

REVISED RECORDS.--WSP 1335: 1948. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 541.17 ft (164.949 m) National Geodetic Vertical Datum of 1929. Prior to June 22, 1955, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--31 years (1948 to current year), 345 ft³/s (9.770 m³/s), 15.99 in/yr (406 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,200 ft³/s (1,480 m³/s) Jan. 21, 1959, from rating curve extended above 25,000 ft³/s (708 m³/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.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,500 ft³/s (212 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 4 | 1200 | 8540 242 | 19.65 5.989 | Feb. 25 | 2400 | 11400 323 | 21.34 6.504 |
| Dec. 9 | 0300 | *13900 394 | *22.59 6.885 | Apr. 2 | 1200 | 9350 265 | 20.17 6.148 |
| Jan. 1 | 1600 | 12300 348 | 21.81 6.648 | Apr. 4 | 2000 | 7770 220 | 19.12 5.828 |
| Feb. 23 | 1700 | 12700 360 | 22.02 6.712 | Aug. 2 | 0900 | 13600 385 | 22.49 6.855 |

Minimum daily discharge, 6.8 ft³/s (0.19 m³/s) Oct. 10.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1978 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|------|-------|-------|-------|------|-------|------|------|------|-------|------|
| 1 | 9.7 | 54 | 204 | 9830 | 130 | 799 | 781 | 93 | 541 | 55 | 1040 | 57 |
| 2 | 9.7 | 48 | 160 | 4150 | 110 | 701 | 6630 | 79 | 216 | 42 | 9590 | 52 |
| 3 | 10 | 45 | 734 | 700 | 120 | 520 | 2020 | 142 | 126 | 36 | 1360 | 51 |
| 4 | 10 | 43 | 6820 | 400 | 110 | 1190 | 4190 | 1040 | 91 | 233 | 415 | 45 |
| 5 | 10 | 41 | 2020 | 300 | 100 | 946 | 3030 | 1620 | 72 | 257 | 241 | 41 |
| 6 | 8.4 | 40 | 710 | 220 | 110 | 534 | 882 | 653 | 62 | 105 | 154 | 37 |
| 7 | 8.4 | 40 | 449 | 200 | 110 | 393 | 523 | 360 | 120 | 55 | 115 | 34 |
| 8 | 7.7 | 40 | 5560 | 180 | 100 | 318 | 389 | 243 | 374 | 37 | 95 | 30 |
| 9 | 7.2 | 39 | 9840 | 170 | 100 | 275 | 654 | 175 | 231 | 30 | 79 | 28 |
| 10 | 6.8 | 39 | 1660 | 160 | 94 | 237 | 553 | 140 | 129 | 28 | 66 | 26 |
| 11 | 7.9 | 37 | 684 | 150 | 97 | 198 | 477 | 126 | 96 | 149 | 204 | 25 |
| 12 | 33 | 36 | 455 | 140 | 98 | 171 | 2600 | 117 | 80 | 54 | 237 | 23 |
| 13 | 2270 | 36 | 360 | 134 | 96 | 157 | 1910 | 117 | 70 | 401 | 168 | 24 |
| 14 | 1350 | 36 | 298 | 270 | 96 | 154 | 3040 | 106 | 64 | 462 | 104 | 833 |
| 15 | 360 | 60 | 246 | 220 | 117 | 142 | 998 | 100 | 59 | 230 | 71 | 614 |
| 16 | 210 | 321 | 206 | 200 | 743 | 127 | 568 | 90 | 58 | 110 | 58 | 230 |
| 17 | 125 | 3000 | 186 | 400 | 897 | 115 | 385 | 80 | 55 | 67 | 49 | 119 |
| 18 | 85 | 1000 | 161 | 700 | 877 | 108 | 294 | 72 | 50 | 48 | 44 | 83 |
| 19 | 65 | 350 | 151 | 450 | 876 | 105 | 229 | 66 | 48 | 35 | 40 | 65 |
| 20 | 45 | 250 | 106 | 1200 | 740 | 102 | 186 | 63 | 97 | 29 | 266 | 58 |
| 21 | 26 | 190 | 1110 | 2210 | 658 | 100 | 167 | 60 | 80 | 26 | 930 | 876 |
| 22 | 20 | 160 | 657 | 1000 | 3000 | 93 | 501 | 58 | 55 | 23 | 333 | 3170 |
| 23 | 25 | 180 | 306 | 500 | 10700 | 94 | 371 | 56 | 48 | 23 | 152 | 1340 |
| 24 | 20 | 230 | 238 | 1300 | 5140 | 470 | 218 | 56 | 46 | 34 | 104 | 447 |
| 25 | 17 | 170 | 214 | 800 | 4830 | 408 | 172 | 57 | 45 | 78 | 76 | 272 |
| 26 | 21 | 300 | 190 | 500 | 5910 | 253 | 154 | 58 | 43 | 146 | 97 | 192 |
| 27 | 60 | 1200 | 154 | 330 | 1110 | 182 | 145 | 113 | 40 | 716 | 104 | 154 |
| 28 | 94 | 700 | 119 | 250 | 916 | 146 | 134 | 136 | 37 | 1040 | 110 | 160 |
| 29 | 78 | 400 | 109 | 190 | --- | 134 | 129 | 125 | 36 | 817 | 93 | 193 |
| 30 | 69 | 285 | 109 | 150 | --- | 135 | 246 | 86 | 55 | 435 | 79 | 162 |
| 31 | 59 | --- | 1510 | 140 | --- | 188 | --- | 205 | --- | 212 | 58 | --- |
| TOTAL | 5127.8 | 9370 | 35726 | 27544 | 37985 | 9495 | 32576 | 6492 | 3124 | 6013 | 16532 | 9441 |
| MEAN | 165 | 312 | 1152 | 889 | 1357 | 306 | 1086 | 209 | 104 | 194 | 533 | 315 |
| MAX | 2270 | 3000 | 9840 | 9830 | 10700 | 1190 | 6630 | 1620 | 541 | 1040 | 9590 | 3170 |
| MIN | 6.8 | 36 | 106 | 134 | 94 | 93 | 129 | 56 | 36 | 23 | 40 | 23 |
| CFSM | .56 | 1.07 | 3.93 | 3.03 | 4.63 | 1.04 | 3.71 | .71 | .36 | .66 | 1.82 | 1.08 |
| IN. | .65 | 1.19 | 4.54 | 3.50 | 4.82 | 1.21 | 4.14 | .82 | .40 | .76 | 2.10 | 1.20 |

CAL YR 1978 TOTAL 152791.8 MEAN 419 MAX 12300 MIN 6.8 CFSM 1.43 IN 19.40
WTR YR 1979 TOTAL 199425.8 MEAN 546 MAX 10700 MIN 6.8 CFSM 1.86 IN 25.32

03368000 BRUSH CREEK NEAR NEBRASKA, IN

LOCATION.--Lat 39°04'13", long 85°29'10" in NW¼NE¼ sec.11, T.7 N., R.9 E., Jennings County, Hydrologic Unit 05120207, 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 mi² (29.5 km²).

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.17 ft (218.593 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair except those for winter periods and period of no gage-height record, July 14 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--24 years, 12.9 ft³/s (0.365 m³/s), 15.37 in/yr (390 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,440 ft³/s (97.4 m³/s) May 24, 1968, gage height, 11.40 ft (3.475 m), from rating curve extended above 440 ft³/s (12.5 m³/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.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 950 ft³/s (26.9 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|--------|---------|---|-------------------------|
| Dec. 3 | 2345 | 1190 33.7 | 7.39 2.252 | Apr. 2 | 0445 | 1020 28.9 | 6.98 2.128 |
| Feb. 23 | unknown | 1700 48.1 | 8.50 2.591 | Aug. 1 | unknown | *2540 71.9 | *10.04 3.060 |
| Feb. 25 | 1445 | 1050 29.7 | 7.06 2.152 | | | | |

Minimum daily discharge, 0.18 ft³/s (0.005 m³/s) Oct. 10.

NOTE.--No gage-height record Feb. 5-23, May 23 to June 20, and July 14 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|-------|--------|-------|-------|-------|-------|--------|--------|-------|
| 1 | .44 | 1.6 | 6.1 | 417 | 5.4 | 48 | 30 | 3.2 | 4.0 | .49 | 600 | .80 |
| 2 | .38 | 1.5 | 5.8 | 53 | 5.0 | 24 | 251 | 2.9 | 3.0 | .29 | 20 | .64 |
| 3 | .31 | 1.5 | 271 | 17 | 5.2 | 34 | 24 | 13 | 2.1 | .21 | 10 | .50 |
| 4 | .36 | 1.4 | 182 | 12 | 4.5 | 76 | 175 | 65 | 1.6 | 50 | 5.0 | .38 |
| 5 | .29 | 1.4 | 24 | 9.8 | 3.8 | 20 | 36 | 38 | 1.3 | 1.7 | 2.6 | .33 |
| 6 | .25 | 1.4 | 9.4 | 8.0 | 3.4 | 13 | 16 | 14 | 1.1 | .62 | 1.9 | .31 |
| 7 | .24 | 1.6 | 24 | 7.0 | 4.0 | 11 | 10 | 8.7 | 1.5 | .38 | 1.5 | .29 |
| 8 | .21 | 1.6 | 358 | 6.0 | 3.5 | 9.8 | 10 | 6.7 | 2.7 | .29 | 1.2 | .28 |
| 9 | .19 | 1.5 | 70 | 5.3 | 3.3 | 8.7 | 17 | 5.3 | 2.0 | .33 | 1.0 | .27 |
| 10 | .18 | 1.4 | 17 | 5.0 | 3.0 | 8.0 | 11 | 4.2 | 1.5 | .29 | .90 | .26 |
| 11 | .31 | 1.3 | 9.8 | 4.7 | 3.0 | 6.7 | 35 | 3.6 | 1.2 | .21 | 2.0 | .25 |
| 12 | 53 | 1.4 | 8.7 | 4.5 | 3.3 | 6.1 | 106 | 3.0 | .90 | 42 | 1.0 | .25 |
| 13 | 156 | 1.4 | 8.0 | 6.0 | 3.3 | 6.4 | 96 | 3.2 | .80 | 40 | .70 | .30 |
| 14 | 4.1 | 1.6 | 7.0 | 14 | 3.2 | 7.0 | 50 | 2.7 | 1.1 | 5.0 | .58 | 8.0 |
| 15 | 2.1 | 4.1 | 6.1 | 8.5 | 5.0 | 5.8 | 18 | 2.5 | .90 | 2.5 | .48 | 2.0 |
| 16 | 1.5 | 5.5 | 5.8 | 7.5 | 20 | 5.3 | 10 | 2.1 | .70 | 1.5 | .40 | 1.0 |
| 17 | 1.2 | 123 | 5.3 | 30 | 10 | 5.3 | 7.5 | 1.8 | .57 | 1.0 | .35 | .74 |
| 18 | 1.1 | 22 | 5.0 | 20 | 7.0 | 5.3 | 6.1 | 1.7 | .47 | .70 | .33 | .60 |
| 19 | 1.2 | 9.0 | 5.0 | 16 | 6.0 | 5.0 | 5.5 | 1.6 | .42 | .50 | 4.0 | .50 |
| 20 | 1.2 | 7.0 | 39 | 21 | 5.0 | 5.0 | 5.0 | 1.5 | 6.0 | .38 | 7.0 | .44 |
| 21 | 1.2 | 6.4 | 32 | 111 | 50 | 5.0 | 4.5 | 1.3 | 5.8 | .29 | 1.2 | 1.0 |
| 22 | 1.2 | 5.6 | 9.1 | 28 | 160 | 4.8 | 4.7 | 1.3 | .70 | .25 | .70 | 6.0 |
| 23 | 1.2 | 7.0 | 7.3 | 17 | 550 | 7.3 | 4.3 | 1.2 | .43 | .21 | 15 | 2.0 |
| 24 | 1.7 | 7.0 | 6.7 | 62 | 74 | 11 | 4.0 | 1.1 | .38 | .80 | 5.0 | 1.3 |
| 25 | 1.9 | 5.6 | 6.4 | 24 | 322 | 8.0 | 3.9 | 1.4 | .33 | 40 | 3.0 | 1.0 |
| 26 | 2.7 | 9.4 | 5.3 | 14 | 48 | 6.4 | 4.2 | 1.7 | .29 | 10 | 2.0 | .80 |
| 27 | 3.2 | 45 | 4.5 | 11 | 36 | 5.8 | 4.0 | 3.5 | .25 | 7.0 | 6.0 | .60 |
| 28 | 2.4 | 14 | 4.1 | 10 | 44 | 5.6 | 4.7 | 2.5 | .21 | 45 | 5.0 | 1.0 |
| 29 | 2.1 | 8.3 | 4.1 | 8.7 | --- | 5.6 | 4.0 | 2.0 | 1.0 | 15 | 2.5 | 1.5 |
| 30 | 2.0 | 7.0 | 4.8 | 8.0 | --- | 5.6 | 3.6 | 1.5 | 2.7 | 5.0 | 1.5 | 1.1 |
| 31 | 1.5 | --- | 251 | 7.0 | --- | 8.0 | --- | 6.0 | --- | 3.0 | 1.1 | --- |
| TOTAL | 245.66 | 306.5 | 1402.3 | 973.0 | 1390.9 | 383.5 | 961.0 | 208.2 | 45.95 | 274.94 | 703.94 | 34.44 |
| MEAN | 7.92 | 10.2 | 45.2 | 31.4 | 49.7 | 12.4 | 32.0 | 6.72 | 1.53 | 8.87 | 22.7 | 1.15 |
| MAX | 156 | 123 | 358 | 417 | 550 | 76 | 251 | 65 | 6.0 | 50 | 600 | 8.0 |
| MIN | .18 | 1.3 | 4.1 | 4.5 | 3.0 | 4.8 | 3.6 | 1.1 | .21 | .21 | .33 | .25 |
| CFSM | .70 | .90 | 3.97 | 2.75 | 4.36 | 1.09 | 2.81 | .59 | .13 | .78 | 1.99 | .10 |
| IN. | .80 | 1.00 | 4.58 | 3.17 | 4.54 | 1.25 | 3.14 | .68 | .15 | .90 | 2.30 | .11 |
| CAL YR 1978 | TOTAL | 6075.14 | MEAN | 16.6 | MAX | 448 | MIN | .06 | CFSM | 1.46 | IN | 19.82 |
| WTR YR 1979 | TOTAL | 6930.33 | MEAN | 19.0 | MAX | 600 | MIN | .18 | CFSM | 1.67 | IN | 22.61 |

03369000 VERNON FORK NEAR BUTLERVILLE, IN

LOCATION.--Lat 39°02'55", long 85°32'40", in NW¼SE¼ sec.17, T.7 N., R.9 E., Jennings County, Hydrologic Unit 05120207, on left bank 0.3 mile (0.5 km) downstream from Muscatatuck State School dam, 1.1 miles (1.8 km) downstream from Brush Creek, 2 miles (3 km) northwest of Butlerville, and at mile 50.6 (81.4 km).

DRAINAGE AREA.--85.9 mi² (222.5 km²).

PERIOD OF RECORD.--February 1942 to current year. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 669.40 ft (204.033 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 19, 1942, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir.

AVERAGE DISCHARGE.--37 years, 94.2 ft³/s (2.668 m³/s), 14.89 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft³/s (742 m³/s) Jan. 21, 1959, gage height, 25.41 ft (7.745 m) from rating curve extended above 10,000 ft³/s (283 m³/s) on basis of slope-area measurement at gage height 25.41 ft (7.745 m); no flow at times during 1944, 1945, 1949, and 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft³/s (113 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|--------|------|---|-------------------------|
| Dec. 4 | 0300 | 4530 128 | 11.77 3.587 | Aug. 1 | 2100 | 6270 178 | 13.76 4.194 |
| Feb. 23 | 1300 | *6600 187 | *14.15 4.313 | | | | |

Minimum daily discharge, 2.0 ft³/s (0.57 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|----------|----------|---------|-----------|----------|------|--------|------|--------|-------|
| 1 | 4.7 | 8.4 | 49 | 2640 | 42 | 476 | 173 | 42 | 44 | 37 | 1810 | 26 |
| 2 | 6.2 | 8.0 | 41 | 506 | 35 | 306 | 1010 | 38 | 29 | 18 | 677 | 21 |
| 3 | 4.3 | 7.7 | 643 | 160 | 39 | 327 | 227 | 206 | 21 | 12 | 165 | 19 |
| 4 | 3.4 | 8.2 | 1460 | 113 | 39 | 539 | 666 | 346 | 16 | 276 | 102 | 14 |
| 5 | 3.0 | 7.1 | 232 | 88 | 30 | 228 | 308 | 250 | 13 | 73 | 49 | 11 |
| 6 | 2.8 | 6.5 | 160 | 72 | 27 | 152 | 179 | 137 | 11 | 31 | 36 | 9.6 |
| 7 | 2.5 | 7.0 | 123 | 60 | 31 | 111 | 122 | 97 | 14 | 19 | 28 | 8.4 |
| 8 | 2.3 | 6.7 | 1370 | 50 | 28 | 105 | 86 | 73 | 27 | 14 | 22 | 7.3 |
| 9 | 2.0 | 6.6 | 649 | 42 | 26 | 93 | 146 | 58 | 23 | 13 | 18 | 6.6 |
| 10 | 2.2 | 6.5 | 182 | 38 | 24 | 89 | 111 | 49 | 16 | 12 | 16 | 5.9 |
| 11 | 2.9 | 6.3 | 122 | 35 | 24 | 76 | 163 | 41 | 12 | 14 | 35 | 6.2 |
| 12 | 22 | 6.4 | 123 | 33 | 26 | 68 | 627 | 38 | 8.6 | 148 | 25 | 4.9 |
| 13 | 658 | 6.3 | 102 | 32 | 26 | 104 | 351 | 39 | 7.5 | 784 | 15 | 6.9 |
| 14 | 167 | 7.3 | 58 | 78 | 25 | 89 | 438 | 32 | 11 | 232 | 11 | 177 |
| 15 | 112 | 11 | 50 | 65 | 35 | 61 | 184 | 29 | 10 | 112 | 9.1 | 76 |
| 16 | 67 | 83 | 45 | 56 | 141 | 51 | 130 | 25 | 7.2 | 63 | 7.8 | 34 |
| 17 | 23 | 677 | 42 | 75 | 105 | 50 | 102 | 22 | 5.3 | 41 | 6.7 | 20 |
| 18 | 17 | 246 | 37 | 150 | 64 | 48 | 83 | 19 | 4.5 | 29 | 6.3 | 14 |
| 19 | 14 | 114 | 38 | 107 | 48 | 48 | 70 | 18 | 4.1 | 21 | 131 | 11 |
| 20 | 12 | 78 | 85 | 102 | 40 | 47 | 60 | 17 | 293 | 16 | 156 | 9.4 |
| 21 | 11 | 59 | 253 | 406 | 314 | 46 | 60 | 16 | 747 | 14 | 126 | 12 |
| 22 | 8.9 | 48 | 112 | 205 | 1120 | 44 | 216 | 14 | 114 | 12 | 46 | 106 |
| 23 | 8.2 | 47 | 60 | 133 | 3740 | 54 | 89 | 13 | 39 | 11 | 311 | 90 |
| 24 | 9.0 | 54 | 54 | 241 | 618 | 87 | 71 | 12 | 25 | 15 | 240 | 44 |
| 25 | 8.0 | 39 | 54 | 156 | 1430 | 73 | 70 | 14 | 18 | 579 | 74 | 28 |
| 26 | 12 | 41 | 47 | 102 | 418 | 60 | 78 | 16 | 14 | 398 | 52 | 19 |
| 27 | 15 | 184 | 37 | 88 | 239 | 52 | 67 | 37 | 11 | 231 | 121 | 14 |
| 28 | 16 | 134 | 31 | 75 | 257 | 49 | 87 | 29 | 9.2 | 1270 | 109 | 18 |
| 29 | 12 | 82 | 34 | 60 | --- | 49 | 64 | 19 | 9.2 | 500 | 61 | 37 |
| 30 | 9.8 | 63 | 35 | 50 | --- | 51 | 50 | 15 | 243 | 155 | 71 | 23 |
| 31 | 9.1 | --- | 760 | 51 | --- | 75 | --- | 37 | --- | 82 | 44 | --- |
| TOTAL | 1247.3 | 2059.0 | 7088 | 6069 | 8991 | 3708 | 6088 | 1798 | 1806.6 | 5232 | 4580.9 | 879.2 |
| MEAN | 40.2 | 68.6 | 229 | 196 | 321 | 120 | 203 | 58.0 | 60.2 | 169 | 148 | 29.3 |
| MAX | 658 | 677 | 1460 | 2640 | 3740 | 539 | 1010 | 346 | 747 | 1270 | 1810 | 177 |
| MIN | 2.0 | 6.3 | 31 | 32 | 24 | 44 | 50 | 12 | 4.1 | 11 | 6.3 | 4.9 |
| CFSM | .47 | .80 | 2.67 | 2.28 | 3.74 | 1.40 | 2.36 | .68 | .70 | 1.97 | 1.72 | .34 |
| IN. | .54 | .89 | 3.07 | 2.63 | 3.89 | 1.61 | 2.64 | .78 | .78 | 2.27 | 1.98 | .38 |
| CAL YR 1978 | TOTAL | 43425.7 | MEAN 119 | MAX 4730 | MIN 2.0 | CFSM 1.39 | IN 18.81 | | | | | |
| WTR YR 1979 | TOTAL | 49547.0 | MEAN 136 | MAX 3740 | MIN 2.0 | CFSM 1.58 | IN 21.46 | | | | | |

03369500 VERNON FORK AT VERNON, IN

LOCATION.--Lat 38°58'34", long 85°37'13", in NW¼SE¼, sec.10, T.6 N., R.8 E., Jennings County, Hydrologic Unit 05120207, at downstream end of left bank bridge pier, 1 mile (2 km) southwest of Vernon, 3.1 miles (5.0 km) downstream from Otter Creek, and at mile 36.4 (58.6 km)

DRAINAGE AREA.--198 mi² (513 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1940, 1953. WSP 1909: 1952-53. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 587.30 ft (179.009 m) National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank at same datum.

REMARKS.--Records good except those for winter periods, which are 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. Some regulation at times at low flow by Old Timbers Lake on Jefferson Proving Grounds.

AVERAGE DISCHARGE.--40 years, 221 ft³/s (6.259 m³/s), 15.16 in/yr (385 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,800 ft³/s (1,610 m³/s) Jan. 21, 1959, from rating curve extended above 24,000 ft³/s (680 m³/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.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6,000 ft³/s (170 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 4 | 0700 | 7680 217 | 13.26 4.042 | Feb. 23 | 1800 | 11200 317 | 16.24 4.950 |
| Dec. 8 | 2200 | 7310 207 | 12.92 3.938 | Feb. 25 | 2000 | 7260 206 | 12.87 3.923 |
| Jan. 1 | 1600 | 7380 209 | 12.98 3.956 | Aug. 1 | 2300 | *16300 462 | *19.81 6.038 |

Minimum daily discharge, 8.2 ft³/s (0.232 m³/s) Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|----------|-------|-------|-------|------|-------|------|------|-------|-------|-------|
| 1 | 12 | 27 | 132 | 6290 | 100 | 1000 | 313 | 89 | 194 | 92 | 5310 | 52 |
| 2 | 11 | 25 | 110 | 1580 | 80 | 769 | 3010 | 79 | 97 | 38 | 4450 | 41 |
| 3 | 14 | 24 | 1380 | 454 | 90 | 582 | 787 | 283 | 63 | 23 | 558 | 37 |
| 4 | 15 | 23 | 4210 | 291 | 90 | 1410 | 1860 | 966 | 46 | 347 | 352 | 33 |
| 5 | 13 | 23 | 750 | 200 | 70 | 742 | 1070 | 869 | 36 | 221 | 232 | 28 |
| 6 | 11 | 23 | 410 | 161 | 64 | 366 | 468 | 359 | 31 | 65 | 171 | 23 |
| 7 | 9.7 | 22 | 302 | 140 | 74 | 247 | 304 | 232 | 55 | 36 | 110 | 20 |
| 8 | 9.2 | 22 | 3340 | 120 | 66 | 214 | 211 | 175 | 202 | 25 | 74 | 17 |
| 9 | 8.2 | 21 | 2680 | 100 | 62 | 189 | 270 | 140 | 86 | 21 | 56 | 15 |
| 10 | 8.2 | 22 | 610 | 90 | 58 | 169 | 270 | 117 | 58 | 19 | 46 | 15 |
| 11 | 9.0 | 21 | 327 | 85 | 58 | 151 | 278 | 99 | 41 | 24 | 66 | 14 |
| 12 | 21 | 21 | 249 | 80 | 62 | 130 | 1570 | 88 | 31 | 21 | 104 | 13 |
| 13 | 2600 | 20 | 240 | 80 | 62 | 132 | 763 | 89 | 25 | 861 | 55 | 16 |
| 14 | 634 | 22 | 149 | 210 | 60 | 167 | 1490 | 78 | 29 | 669 | 38 | 358 |
| 15 | 249 | 35 | 123 | 150 | 80 | 123 | 494 | 75 | 29 | 214 | 31 | 199 |
| 16 | 159 | 123 | 110 | 130 | 350 | 99 | 311 | 63 | 24 | 103 | 26 | 73 |
| 17 | 86 | 1540 | 100 | 180 | 250 | 89 | 230 | 53 | 20 | 62 | 23 | 45 |
| 18 | 63 | 946 | 88 | 400 | 150 | 86 | 187 | 46 | 18 | 41 | 21 | 34 |
| 19 | 52 | 299 | 85 | 250 | 110 | 85 | 157 | 42 | 16 | 31 | 93 | 28 |
| 20 | 44 | 187 | 198 | 235 | 90 | 84 | 137 | 40 | 13 | 23 | 726 | 23 |
| 21 | 40 | 140 | 750 | 1100 | 700 | 82 | 125 | 38 | 1090 | 19 | 421 | 29 |
| 22 | 35 | 115 | 294 | 694 | 2600 | 77 | 318 | 34 | 209 | 17 | 181 | 198 |
| 23 | 30 | 118 | 159 | 327 | 8250 | 88 | 187 | 31 | 71 | 19 | 172 | 226 |
| 24 | 28 | 151 | 133 | 660 | 2110 | 202 | 146 | 30 | 41 | 32 | 647 | 92 |
| 25 | 27 | 117 | 127 | 370 | 3400 | 173 | 133 | 33 | 31 | 828 | 155 | 57 |
| 26 | 30 | 118 | 109 | 280 | 1700 | 132 | 148 | 34 | 24 | 2230 | 160 | 43 |
| 27 | 35 | 589 | 89 | 220 | 666 | 110 | 135 | 125 | 19 | 740 | 190 | 35 |
| 28 | 41 | 430 | 70 | 190 | 691 | 94 | 140 | 120 | 16 | 1430 | 201 | 38 |
| 29 | 38 | 223 | 73 | 160 | --- | 92 | 146 | 63 | 16 | 1660 | 125 | 43 |
| 30 | 31 | 163 | 74 | 140 | --- | 94 | 109 | 44 | 247 | 411 | 83 | 49 |
| 31 | 28 | --- | 1780 | 120 | --- | 114 | --- | 93 | --- | 192 | 91 | --- |
| TOTAL | 4391.3 | 5610 | 19251 | 15487 | 22143 | 8092 | 15767 | 4627 | 2878 | 10514 | 14968 | 1894 |
| MEAN | 142 | 187 | 621 | 500 | 791 | 261 | 526 | 149 | 95.9 | 339 | 483 | 63.1 |
| MAX | 2600 | 1540 | 4210 | 6290 | 8250 | 1410 | 3010 | 966 | 1090 | 2230 | 5310 | 358 |
| MIN | 8.2 | 20 | 70 | 80 | 58 | 77 | 109 | 30 | 13 | 17 | 21 | 13 |
| CFSM | .72 | .94 | 3.14 | 2.53 | 4.00 | 1.32 | 2.66 | .75 | .48 | 1.71 | 2.44 | .32 |
| IN. | .83 | 1.05 | 3.62 | 2.91 | 4.16 | 1.52 | 2.96 | .87 | .54 | 1.98 | 2.81 | .36 |
| CAL YR 1978 | TOTAL | 109876.6 | MEAN | 301 | MAX | 9580 | MIN | 6.1 | CFSM | 1.52 | IN | 20.64 |
| WTR YR 1979 | TOTAL | 125622.3 | MEAN | 344 | MAX | 8250 | MIN | 8.2 | CFSM | 1.74 | IN | 23.60 |

WABASH RIVER BASIN

03369500 VERNON FORK AT VERNON, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: November 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM |
|--------------|------|-----------------------------|---|---|--|---|
| NOV 13... | 1215 | 12.0 | 21 | 4 | .23 | -- |
| DEC 04... | 1400 | -- | 2950 | 372 | 2960 | 75 |
| MAR 05... | 1315 | 8.0 | 669 | 82 | 148 | -- |

00371500 EAST FORK WHITE RIVER NEAR BEDFORD, IN

LOCATION.--Lat 38°46'10", long 86°24'30", in SW¼NE¼ sec.21, T.4 N., R.1 E., Lawrence County, Hydrologic Unit 05120208, on downstream side of center pier of bridge on county road, 0.4 mile (0.6 km) upstream from Mill Creek, 2.9 miles (4.7 km) downstream from Sugar Creek, 3.9 miles (6.3 km) northeast of Mitchell, 7.8 miles (12.6 km) southeast of Bedford, and at mile 153.3 (246.7 km).

DRAINAGE AREA.--3,861 mi² (10,000 km²).

PERIOD OF RECORD.--May 1939 to current year (high-water records only October 1943 to September 1957).

REVISED RECORDS.--WSP 2109: Drainage area. WRD Ind. 1973: 1972.

GAGE.--Water-stage recorder. Datum of gage is 473.59 ft (144.350 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940, to Sept. 24, 1957, water-stage recorder, at site 9.8 miles (15.8 km) downstream at datum 4.39 ft (1.338 m) lower (now used as an auxiliary gage).

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

AVERAGE DISCHARGE.--26 years (1939-43, 1957 to current year), 3,855 ft³/s (109.2 m³/s), 13.56 in/yr (344 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,700 ft³/s (2,140 m³/s) Mar. 12, 1964; maximum gage height, 35.97 ft (10.964 m) May 11, 1961; minimum daily discharge, 138 ft³/s (3.91 m³/s) Sept. 7, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 47.5 ft (14.48 m), from floodmark determined by Corps of Engineers, discharge, 155,000 ft³/s (4,390 m³/s) at former site.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 13,000 ft³/s (368 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 13 | 0400 | 18200 515 | 21.47 6.544 | Mar. 7 | 2300 | 32900 932 | 27.52 8.388 |
| Jan. 7 | --- | 18400 521 | unknown | Apr. 7 | 1400 | 14700 416 | 18.79 5.727 |
| Jan. 24 | --- | 14800 419 | unknown | Apr. 17 | 1000 | 16400 464 | 20.07 6.117 |
| Feb. 28 | 0600 | *46900 1328 | *30.85 9.403 | Aug. 6 | 0900 | 28000 793 | 26.02 7.931 |

Minimum daily discharge, 827 ft³/s (23.4 m³/s) Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|
| 1 | 973 | 1300 | 4030 | 8460 | 5000 | 40700 | 4140 | 3540 | 2120 | 1620 | 15100 | 6560 |
| 2 | 979 | 1250 | 3310 | 16000 | 4700 | 33300 | 6070 | 3370 | 2480 | 1880 | 21100 | 6050 |
| 3 | 943 | 1210 | 3090 | 14500 | 4550 | 27300 | 7310 | 3200 | 2640 | 2060 | 23500 | 4870 |
| 4 | 919 | 1170 | 6500 | 14500 | 4450 | 24700 | 11000 | 3800 | 2360 | 1840 | 25300 | 4030 |
| 5 | 901 | 1130 | 8180 | 16000 | 4200 | 24300 | 12800 | 6300 | 2010 | 1650 | 27200 | 3620 |
| 6 | 889 | 1100 | 9080 | 17500 | 3500 | 27700 | 13900 | 7700 | 1800 | 2650 | 27900 | 3210 |
| 7 | 872 | 1070 | 10100 | 18000 | 2800 | 32000 | 14600 | 7910 | 1770 | 4410 | 27200 | 2890 |
| 8 | 854 | 1050 | 12000 | 17000 | 2700 | 32100 | 14200 | 6980 | 2310 | 4050 | 24800 | 2640 |
| 9 | 843 | 1030 | 14100 | 12000 | 2650 | 27500 | 12900 | 5220 | 3160 | 3110 | 21200 | 2430 |
| 10 | 827 | 1020 | 14300 | 9000 | 2600 | 21100 | 11200 | 4090 | 3380 | 2500 | 15700 | 2260 |
| 11 | 827 | 1000 | 15500 | 7400 | 2750 | 15100 | 10000 | 3760 | 3060 | 2280 | 9670 | 2100 |
| 12 | 872 | 985 | 17600 | 6400 | 2850 | 10300 | 10200 | 3460 | 2580 | 3030 | 5750 | 1960 |
| 13 | 3540 | 973 | 18000 | 5600 | 2600 | 7970 | 10200 | 3300 | 2260 | 4250 | 5050 | 1880 |
| 14 | 6440 | 961 | 16300 | 5400 | 2300 | 6780 | 11300 | 3230 | 2090 | 4500 | 4960 | 2020 |
| 15 | 7490 | 985 | 13000 | 5600 | 2100 | 6000 | 13300 | 3430 | 1950 | 6360 | 4350 | 2610 |
| 16 | 7530 | 1160 | 10700 | 6000 | 2490 | 5490 | 15500 | 3450 | 1840 | 7530 | 3710 | 3540 |
| 17 | 6900 | 2210 | 8560 | 6600 | 2910 | 5070 | 16300 | 3210 | 1730 | 8090 | 3260 | 3370 |
| 18 | 5800 | 5180 | 6430 | 7000 | 3340 | 4680 | 15200 | 2950 | 1610 | 8550 | 2950 | 2750 |
| 19 | 4030 | 6710 | 4750 | 7300 | 3500 | 4440 | 12600 | 2700 | 1500 | 8250 | 2710 | 2310 |
| 20 | 2800 | 7600 | 4000 | 8300 | 3500 | 3980 | 10200 | 2470 | 1430 | 5860 | 2740 | 2070 |
| 21 | 2270 | 7880 | 4360 | 10000 | 3420 | 4090 | 7740 | 2290 | 1520 | 3950 | 4740 | 1950 |
| 22 | 2000 | 7250 | 5380 | 10800 | 5090 | 3950 | 5830 | 2160 | 2220 | 3150 | 6710 | 2730 |
| 23 | 1820 | 5520 | 6430 | 12400 | 11400 | 4090 | 5210 | 2030 | 4060 | 2730 | 7220 | 4130 |
| 24 | 1690 | 4060 | 5990 | 14000 | 15800 | 4990 | 5370 | 1910 | 4530 | 2580 | 7020 | 4500 |
| 25 | 1580 | 3460 | 5100 | 14000 | 20900 | 4270 | 4870 | 1860 | 3580 | 2560 | 7060 | 4700 |
| 26 | 1510 | 3190 | 4340 | 12500 | 37300 | 4740 | 4360 | 1810 | 2850 | 3400 | 7390 | 4440 |
| 27 | 1430 | 3720 | 3920 | 11300 | 44300 | 4190 | 4080 | 1970 | 2340 | 8070 | 6950 | 3380 |
| 28 | 1400 | 4730 | 3630 | 10000 | 46000 | 4220 | 3930 | 2160 | 2020 | 10500 | 7160 | 2420 |
| 29 | 1380 | 5270 | 3270 | 7400 | --- | 4020 | 3840 | 2240 | 1830 | 10800 | 7550 | 2090 |
| 30 | 1360 | 4990 | 3000 | 6300 | --- | 3850 | 3700 | 2140 | 1690 | 11100 | 7170 | 1980 |
| 31 | 1340 | --- | 3260 | 5500 | --- | 3740 | --- | 2240 | --- | 11600 | 6580 | --- |
| TOTAL | 73009 | 89164 | 248210 | 322760 | 249700 | 406660 | 281850 | 106880 | 70720 | 154910 | 349700 | 95490 |
| MEAN | 2355 | 2972 | 8007 | 10410 | 8918 | 13120 | 9395 | 3448 | 2357 | 4997 | 11280 | 3183 |
| MAX | 7530 | 7880 | 18000 | 18000 | 46000 | 40700 | 16300 | 7910 | 4530 | 11600 | 27900 | 6560 |
| MIN | 827 | 961 | 3000 | 5400 | 2100 | 3740 | 3700 | 1810 | 1430 | 1620 | 2710 | 1880 |
| CFSM | .61 | .77 | 2.07 | 2.70 | 2.31 | 3.40 | 2.43 | .89 | .61 | 1.29 | 2.92 | .82 |
| IN. | .70 | .86 | 2.39 | 3.11 | 2.41 | 3.92 | 2.72 | 1.03 | .68 | 1.49 | 3.37 | .92 |
| CAL YR 1978 | TOTAL | 1839097 | MEAN | 5039 | MAX | 44600 | MIN | 827 | CFSM | 1.31 | IN | 17.72 |
| WTR YR 1979 | TOTAL | 2449053 | MEAN | 6710 | MAX | 46000 | MIN | 827 | CFSM | 1.74 | IN | 23.60 |

WABASH RIVER BASIN

03371520 BACK CREEK AT LEESVILLE, IN

LOCATION.--Lat 38°50'48", long 86°18'06", in SW¼SE¼ sec.21, T.5 N., R.2 E., Lawrence County, Hydrologic Unit 05120208, 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.

REVISED RECORDS.--WRD Ind. 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 35.7 ft³/s (1.011 m³/s), 20.12 in/yr (511 mm/yr).

EXTREMES FOR 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 at times during 1971, 1975, and 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached a stage of 18.1 ft (5.52 m) from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Oct. 13 | 0415 | 2400 68.0 | 7.41 2.259 | Apr. 4 | 0930 | 1370 38.8 | 5.68 1.731 |
| Dec. 31 | 1830 | 1580 44.7 | 6.50 1.981 | July 15 | 0030 | 1390 39.4 | 5.71 1.740 |
| Feb. 23 | 0945 | 4980 141 | 9.12 2.780 | July 27 | 1545 | 4780 135 | 8.98 2.737 |
| Mar. 3 | 2315 | 1000 28.3 | 5.14 1.567 | Aug. 1 | 1515 | *7720 219 | *10.83 3.301 |

Minimum daily discharge, 0.57 ft³/s (0.016 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------|----------|------|------|------|------|------|--------|-------|--------|--------|-------|
| 1 | 1.4 | 4.0 | 19 | 416 | 25 | 256 | 75 | 10 | 34 | 3.2 | 1840 | 11 |
| 2 | 1.1 | 4.0 | 16 | 177 | 23 | 166 | 221 | 9.4 | 23 | 2.4 | 276 | 9.4 |
| 3 | .93 | 3.8 | 164 | 86 | 22 | 201 | 92 | 107 | 17 | 2.0 | 100 | 8.2 |
| 4 | .86 | 4.0 | 186 | 57 | 21 | 322 | 430 | 144 | 12 | 5.6 | 51 | 7.5 |
| 5 | .91 | 3.8 | 84 | 52 | 20 | 114 | 151 | 88 | 10 | 2.4 | 32 | 6.5 |
| 6 | .75 | 3.6 | 49 | 46 | 19 | 73 | 79 | 56 | 8.2 | 2.2 | 30 | 5.9 |
| 7 | .83 | 3.6 | 73 | 42 | 18 | 56 | 58 | 42 | 29 | 1.7 | 18 | 4.3 |
| 8 | .75 | 3.3 | 368 | 38 | 17 | 44 | 49 | 31 | 134 | 1.6 | 9.4 | 3.4 |
| 9 | .62 | 3.3 | 188 | 41 | 16 | 37 | 59 | 24 | 192 | 1.9 | 13 | 3.0 |
| 10 | .57 | 3.3 | 70 | 30 | 15 | 34 | 44 | 20 | 63 | 4.0 | 12 | 2.8 |
| 11 | 1.2 | 3.3 | 45 | 25 | 16 | 28 | 43 | 17 | 39 | 4.5 | 18 | 2.8 |
| 12 | 187 | 3.6 | 37 | 26 | 14 | 26 | 134 | 50 | 27 | 16 | 12 | 2.6 |
| 13 | 587 | 3.6 | 28 | 30 | 13 | 24 | 156 | 47 | 21 | 242 | 9.4 | 3.2 |
| 14 | 76 | 3.3 | 22 | 54 | 11 | 23 | 128 | 32 | 18 | 77 | 8.2 | 20 |
| 15 | 41 | 13 | 19 | 43 | 25 | 20 | 75 | 28 | 14 | 256 | 7.2 | 7.5 |
| 16 | 27 | 19 | 17 | 39 | 70 | 18 | 54 | 24 | 11 | 50 | 6.5 | 5.1 |
| 17 | 19 | 206 | 15 | 90 | 45 | 18 | 43 | 18 | 9.0 | 28 | 5.9 | 4.3 |
| 18 | 15 | 119 | 13 | 80 | 32 | 17 | 35 | 14 | 7.2 | 20 | 5.3 | 3.8 |
| 19 | 12 | 46 | 13 | 62 | 29 | 19 | 32 | 12 | 6.2 | 14 | 11 | 3.4 |
| 20 | 10 | 31 | 36 | 123 | 27 | 20 | 27 | 11 | 5.1 | 11 | 79 | 3.2 |
| 21 | 8.2 | 24 | 46 | 162 | 72 | 19 | 22 | 8.2 | 4.8 | 8.6 | 72 | 3.8 |
| 22 | 7.2 | 19 | 54 | 96 | 201 | 19 | 20 | 7.5 | 4.0 | 7.2 | 63 | 9.4 |
| 23 | 6.6 | 22 | 29 | 70 | 1340 | 112 | 17 | 6.5 | 3.6 | 6.5 | 23 | 6.5 |
| 24 | 6.2 | 16 | 26 | 241 | 208 | 116 | 16 | 6.2 | 4.8 | 12 | 18 | 5.1 |
| 25 | 6.0 | 16 | 19 | 134 | 300 | 72 | 18 | 6.8 | 4.3 | 46 | 13 | 4.0 |
| 26 | 6.6 | 32 | 18 | 74 | 166 | 51 | 16 | 6.5 | 3.4 | 130 | 12 | 3.8 |
| 27 | 6.5 | 68 | 16 | 51 | 100 | 42 | 15 | 50 | 3.0 | 1220 | 40 | 3.6 |
| 28 | 5.5 | 44 | 13 | 46 | 88 | 36 | 15 | 20 | 2.8 | 360 | 28 | 3.4 |
| 29 | 5.0 | 33 | 11 | 37 | --- | 33 | 13 | 13 | 5.9 | 232 | 23 | 3.2 |
| 30 | 4.5 | 24 | 13 | 31 | --- | 34 | 12 | 11 | 4.8 | 109 | 17 | 3.0 |
| 31 | 4.4 | --- | 577 | 28 | --- | 67 | --- | 82 | --- | 62 | 12 | --- |
| TOTAL | 1050.62 | 782.5 | 2284 | 2527 | 2953 | 2117 | 2149 | 1002.1 | 721.1 | 2938.8 | 2864.9 | 163.7 |
| MEAN | 33.9 | 26.1 | 73.7 | 81.5 | 105 | 68.3 | 71.6 | 32.3 | 24.0 | 94.8 | 92.4 | 5.46 |
| MAX | 587 | 206 | 577 | 416 | 1340 | 322 | 430 | 144 | 192 | 1220 | 1840 | 20 |
| MIN | .57 | 3.3 | 11 | 25 | 11 | 17 | 12 | 6.2 | 2.8 | 1.6 | 5.3 | 2.6 |
| CFSM | 1.41 | 1.08 | 3.06 | 3.38 | 4.36 | 2.83 | 2.97 | 1.34 | 1.00 | 3.93 | 3.83 | .23 |
| IN. | 1.62 | 1.21 | 3.53 | 3.90 | 4.56 | 3.27 | 3.32 | 1.55 | 1.11 | 4.54 | 4.42 | .25 |
| CAL YR 1978 | TOTAL | 14192.98 | MEAN | 38.9 | MAX | 1160 | MIN | .10 | CFSM | 1.61 | IN | 21.91 |
| WTR YR 1979 | TOTAL | 21553.72 | MEAN | 59.1 | MAX | 1840 | MIN | .57 | CFSM | 2.45 | IN | 33.27 |

03372300 STEPHENS CREEK NEAR BLOOMINGTON, IN

LOCATION.--Lat 39°10'11", long 86°25'07", in NE¼NW¼ sec.4, T.8 N., R.1 E., Monroe County, Hydrologic Unit 05120208, 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 mi² (28.2 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 550.00 ft (167.64 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 13.6 ft³/s (0.385 m³/s), 16.94 in/yr (430 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s (153 m³/s) July 13, 1979, gage height, 13.18 ft (4.017 m) from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of contracted-opening measurements at gage heights of 11.52 ft (3.511 m) and 13.18 ft (4.017 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 350 ft³/s (9.91 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|---------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 8 | 1030 | 378 10.7 | 8.07 2.460 | Mar. 4 | 0715 | 588 16.7 | 8.72 2.658 |
| Dec. 31 | 1530 | 586 16.6 | 9.26 2.822 | July 13 | 0445 | *5400 153 | *13.18 4.017 |
| Feb. 23 | unknown | 570 16.1 | a9.2 2.80 | July 28 | 0915 | 803 22.7 | 9.61 2.929 |

a High-water mark.

Minimum daily discharge, 0.19 ft³/s (0.005 m³/s) Oct. 1, 2, 4, 6-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|-------|--------|---------|-------|-------|
| 1 | .19 | .70 | 2.2 | 146 | 8.8 | 58 | 67 | 6.0 | 2.5 | 1.2 | 58 | 4.2 |
| 2 | .19 | .62 | 2.0 | 74 | 8.2 | 81 | 64 | 5.8 | 2.0 | .86 | 63 | 3.2 |
| 3 | .21 | .62 | 31 | 40 | 7.6 | 129 | 46 | 60 | 1.8 | .70 | 26 | 2.4 |
| 4 | .19 | .62 | 55 | 24 | 7.0 | 263 | 69 | 53 | 1.4 | .86 | 15 | 2.1 |
| 5 | .20 | .56 | 24 | 21 | 6.5 | 80 | 64 | 39 | 1.3 | .70 | 9.4 | 1.9 |
| 6 | .19 | .56 | 14 | 19 | 6.3 | 51 | 42 | 27 | 1.0 | .62 | 9.2 | 1.6 |
| 7 | .19 | .62 | 14 | 16 | 6.0 | 37 | 31 | 20 | 5.2 | .56 | 6.0 | 1.4 |
| 8 | .19 | .56 | 174 | 16 | 5.6 | 27 | 26 | 14 | 9.2 | 5.0 | 3.3 | 1.3 |
| 9 | .19 | .56 | 69 | 16 | 5.4 | 22 | 40 | 11 | 14 | 1.5 | 4.4 | 1.2 |
| 10 | .19 | .56 | 35 | 12 | 5.2 | 19 | 31 | 8.6 | 8.0 | 1.5 | 4.3 | .94 |
| 11 | .42 | .50 | 21 | 11 | 5.4 | 16 | 59 | 7.0 | 6.5 | .86 | 6.2 | .85 |
| 12 | 11 | .50 | 14 | 10 | 5.0 | 14 | 135 | 17 | 4.6 | 32 | 4.1 | .85 |
| 13 | 28 | .50 | 11 | 12 | 4.5 | 11 | 72 | 15 | 8.6 | 466 | 3.4 | 1.0 |
| 14 | 6.3 | .56 | 8.0 | 22 | 4.0 | 11 | 64 | 12 | 11 | 126 | 2.9 | 3.2 |
| 15 | 3.7 | 1.0 | 6.7 | 17 | 32 | 8.9 | 45 | 11 | 6.5 | 62 | 2.8 | 1.5 |
| 16 | 2.8 | 2.6 | 5.8 | 17 | 23 | 8.0 | 32 | 8.0 | 4.6 | 30 | 2.4 | 1.2 |
| 17 | 1.9 | 70 | 4.8 | 37 | 15 | 7.5 | 23 | 6.5 | 3.5 | 17 | 2.0 | .85 |
| 18 | 1.4 | 23 | 4.2 | 32 | 12 | 7.2 | 18 | 5.4 | 2.5 | 12 | 1.9 | .76 |
| 19 | .95 | 10 | 4.2 | 25 | 10 | 8.6 | 15 | 4.6 | 1.9 | 7.8 | 5.3 | .76 |
| 20 | .70 | 6.3 | 12 | 35 | 9.3 | 9.5 | 13 | 3.7 | 1.6 | 5.0 | 26 | .69 |
| 21 | .56 | 4.4 | 21 | 79 | 15 | 9.2 | 11 | 3.2 | 1.6 | 3.6 | 20 | .76 |
| 22 | .44 | 3.3 | 16 | 44 | 50 | 8.9 | 9.2 | 2.6 | 1.2 | 3.0 | 18 | .85 |
| 23 | .50 | 3.2 | 12 | 30 | 450 | 33 | 8.0 | 2.3 | .95 | 2.6 | 11 | .76 |
| 24 | .56 | 2.8 | 11 | 68 | 110 | 46 | 7.5 | 2.6 | .95 | 2.8 | 7.3 | .69 |
| 25 | .62 | 2.2 | 9.5 | 62 | 88 | 35 | 8.6 | 2.5 | .86 | 3.2 | 4.7 | .68 |
| 26 | .77 | 2.8 | 7.1 | 32 | 65 | 25 | 8.0 | 2.3 | .70 | 11 | 18 | .62 |
| 27 | .77 | 3.5 | 6.6 | 20 | 50 | 20 | 7.5 | 5.0 | .62 | 66 | 24 | .62 |
| 28 | .77 | 3.3 | 5.6 | 15 | 43 | 17 | 8.0 | 3.3 | .62 | 385 | 18 | .56 |
| 29 | .70 | 3.0 | 4.7 | 12 | --- | 16 | 7.2 | 2.5 | 1.0 | 163 | 17 | .56 |
| 30 | .70 | 2.6 | 4.5 | 11 | --- | 20 | 6.7 | 2.0 | 2.3 | 66 | 12 | .62 |
| 31 | .70 | --- | 190 | 9.6 | --- | 89 | --- | 3.2 | --- | 27 | 6.1 | --- |
| TOTAL | 66.19 | 152.04 | 799.9 | 984.6 | 1057.8 | 1187.8 | 1037.7 | 366.1 | 108.50 | 1505.36 | 411.7 | 38.62 |
| MEAN | 2.14 | 5.07 | 25.8 | 31.8 | 37.8 | 38.3 | 34.6 | 11.8 | 3.62 | 48.6 | 13.3 | 1.29 |
| MAX | 28 | 70 | 190 | 146 | 450 | 263 | 135 | 60 | 14 | 466 | 63 | 4.2 |
| MIN | .19 | .50 | 2.0 | 9.6 | 4.0 | 7.2 | 6.7 | 2.0 | .62 | .56 | 1.9 | .56 |
| CFSM | .20 | .47 | 2.37 | 2.92 | 3.47 | 3.51 | 3.17 | 1.08 | .33 | 4.46 | 1.22 | .12 |
| IN. | .23 | .52 | 2.73 | 3.36 | 3.61 | 4.05 | 3.54 | 1.25 | .37 | 5.14 | 1.40 | .13 |
| CAL YR 1978 | TOTAL | 4607.78 | MEAN 12.6 | MAX 323 | MIN .19 | CFSM 1.16 | IN 15.72 | | | | | |
| WTR YR 1979 | TOTAL | 7716.31 | MEAN 21.1 | MAX 466 | MIN .19 | CFSM 1.94 | IN 26.33 | | | | | |

03372300 STEPHENS CREEK NEAR BLOOMINGTON, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|-------|------|-----------------------------|---|--|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | 1845 | 16.0 | .19 | 8 | .00 | -- | -- | -- | -- |
| 08... | 1815 | 13.0 | .19 | 7 | .00 | -- | -- | -- | -- |
| 14... | 1205 | 10.0 | 6.3 | 12 | .20 | -- | -- | -- | -- |
| 22... | 1445 | 15.0 | .44 | 1 | .00 | -- | -- | -- | -- |
| 25... | 1200 | 12.0 | .62 | 6 | .01 | -- | -- | -- | -- |
| 29... | 1740 | 11.0 | .77 | 1 | .00 | -- | -- | -- | -- |
| NOV | | | | | | | | | |
| 05... | 1400 | 13.0 | .56 | 3 | .00 | -- | -- | -- | -- |
| 12... | 1000 | 12.0 | .50 | 6 | .01 | -- | -- | -- | -- |
| 19... | 1440 | 10.0 | 9.5 | 2 | .05 | -- | -- | -- | -- |
| 26... | 1915 | 7.0 | 3.3 | 5 | .04 | -- | -- | -- | -- |
| DEC | | | | | | | | | |
| 04... | 1840 | 10.0 | 39 | 46 | 4.8 | -- | -- | -- | -- |
| 10... | 1600 | 3.0 | 31 | 6 | .50 | -- | -- | -- | -- |
| JAN | | | | | | | | | |
| 01... | 1245 | -- | 140 | 22 | 8.3 | -- | -- | -- | -- |
| 07... | 1415 | 2.0 | 16 | 4 | .20 | -- | -- | -- | -- |
| 14... | 1500 | -- | 22 | 3 | .18 | -- | -- | -- | -- |
| 21... | 1725 | -- | 69 | 16 | 3.0 | -- | -- | -- | -- |
| 28... | 1730 | 2.0 | 15 | 12 | .50 | -- | -- | -- | -- |
| FEB | | | | | | | | | |
| 04... | 1730 | -- | 7.0 | 4 | .08 | -- | -- | -- | -- |
| 11... | 1830 | 1.0 | 5.4 | 2 | .03 | -- | -- | -- | -- |
| 18... | 1800 | -- | 12 | 2 | .06 | -- | -- | -- | -- |
| 24... | 1130 | -- | 102 | 38 | 10 | -- | -- | -- | -- |
| MAR | | | | | | | | | |
| 04... | 1115 | 6.0 | 298 | 319 | 257 | 95 | 98 | 99 | 100 |
| 11... | 1325 | 3.0 | 14 | 4 | .15 | -- | -- | -- | -- |
| 21... | 1240 | -- | 9.2 | 5 | .12 | -- | -- | -- | -- |
| 24... | 1700 | 5.0 | 44 | 5 | .60 | -- | -- | -- | -- |
| APR | | | | | | | | | |
| 01... | 1830 | 8.0 | 72 | 12 | 2.3 | -- | -- | -- | -- |
| 08... | 1830 | 12.0 | 25 | 5 | .30 | -- | -- | -- | -- |
| 16... | 1830 | 14.0 | 34 | 6 | .55 | -- | -- | -- | -- |
| 24... | 0700 | 13.0 | 7.8 | 6 | .10 | -- | -- | -- | -- |
| 29... | 1930 | 14.0 | 7.0 | 5 | .10 | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 06... | 1100 | 13.0 | 28 | 4 | .30 | -- | -- | -- | -- |
| 13... | 1120 | 14.0 | 15 | 4 | .20 | -- | -- | -- | -- |
| 27... | 0940 | -- | 5.8 | 7 | .10 | -- | -- | -- | -- |
| JUN | | | | | | | | | |
| 04... | 1830 | 23.0 | 1.3 | 13 | .05 | -- | -- | -- | -- |
| 11... | 1015 | 17.0 | 7.0 | 8 | .20 | -- | -- | -- | -- |
| 17... | 1440 | 25.0 | 3.3 | 18 | .20 | -- | -- | -- | -- |
| 24... | 2015 | 20.0 | 1.0 | 27 | .08 | -- | -- | -- | -- |
| JUL | | | | | | | | | |
| 01... | 0740 | 19.0 | 1.3 | 10 | .04 | -- | -- | -- | -- |
| 08... | 1900 | 20.0 | .49 | 13 | .02 | -- | -- | -- | -- |
| 13... | 1430 | -- | 333 | 214 | 192 | 97 | 99 | 100 | -- |
| 16... | 1130 | 22.0 | 32 | 9 | .78 | -- | -- | -- | -- |
| 25... | 1630 | 23.0 | 3.6 | 4 | .04 | -- | -- | -- | -- |
| 28... | 1410 | -- | 627 | 262 | 444 | 92 | 98 | 100 | -- |
| 30... | 1130 | 22.0 | 69 | 7 | 1.3 | -- | -- | -- | -- |
| AUG | | | | | | | | | |
| 05... | 1830 | 25.0 | 7.8 | 12 | .25 | -- | -- | -- | -- |
| 22... | 1120 | 21.0 | 19 | 5 | .26 | -- | -- | -- | -- |
| 26... | 1830 | 19.0 | 36 | 13 | 1.3 | -- | -- | -- | -- |
| SEP | | | | | | | | | |
| 02... | 1000 | 21.0 | 3.2 | 3 | .03 | -- | -- | -- | -- |
| 09... | 0855 | 17.0 | 1.2 | 10 | .03 | -- | -- | -- | -- |
| 16... | 0920 | 15.0 | 1.2 | 8 | .03 | -- | -- | -- | -- |
| 24... | 1830 | 18.0 | .69 | 3 | .00 | -- | -- | -- | -- |
| 30... | 1210 | 20.0 | .56 | 12 | .02 | -- | -- | -- | -- |

03372400 MONROE LAKE NEAR HARRODSBURG, IN

LOCATION.--Lat 39°00'24", long 86°30'56", in SW¼SW¼ sec.27, T.7 N., R.1 W., Monroe County, Hydrologic Unit 05120208, in discharge tower of reservoir on Salt Creek, 1.3 miles (2.1 km) upstream from Clear Creek, 2.2 miles (3.5 km) southeast of Harrodsburg, and 26.1 miles (42.0 km) upstream from mouth.

DRAINAGE AREA.--432 mi² (1,119 km²).

PERIOD OF RECORD.--April 1966 to current year. Prior to September 1970 published as Monroe "Reservoir".

GAGE.--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 hm³), elevation, 515 ft (157.0 m). Capacity at uncontrolled spillway elevation, 556 ft (169.5 m) is 446,000 acre-ft (550 hm³). Reservoir is used for flood control, water supply of Bloomington, and recreation. Reservoir put in operation on Apr. 26, 1966.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 348,700 acre-ft (430 hm³) May 2, 1973, elevation, 550.60 (167.823 m); minimum, 149,500 acre-ft (184 hm³) Nov. 7, 1966, elevation, 534.77 ft (163.000 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 317,150 acre-ft (391 hm³) Apr. 19, elevation 548.55 ft (167.198 m); minimum, 180,750 acre-ft (223 hm³) June 28, 29, elevation 537.86 ft (163.940 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 538.87 | 191,740 | |
| Oct. 31..... | 539.62 | 200,160 | +8,420 |
| Nov. 30..... | 540.08 | 205,420 | +5,260 |
| Dec. 31..... | 540.55 | 210,880 | +5,460 |
| CAL YR 1978..... | | | -4,360 |
| Jan. 31..... | 539.78 | 201,980 | -8,900 |
| Feb. 28..... | 544.67 | 262,380 | +60,400 |
| Mar. 31..... | 545.40 | 272,210 | +9,830 |
| Apr. 30..... | 546.14 | 282,390 | +10,180 |
| May 31..... | 539.01 | 193,300 | -89,090 |
| June 30..... | 537.99 | 182,140 | -11,160 |
| July 31..... | 545.41 | 272,340 | +90,200 |
| Aug. 31..... | 545.14 | 268,680 | -3,660 |
| Sept. 30..... | 540.87 | 214,640 | -54,040 |
| WTR YR 1979..... | | | +22,900 |

WABASH RIVER BASIN

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

LOCATION.--Lat 38°40'02", long 86°47'32", in SW¼NW¼ sec.30, T.3 N., R.3 W., Martin County, Hydrologic Unit 05120208, in first pier from left bank of bridge on U.S. Highway 50 at Shoals, 400 ft (122 m) upstream from Baltimore and Ohio Railroad bridge, 0.9 mile (1.4 km) upstream from Beaver Creek, and at mile 105.3 (169.4 km).

DRAINAGE AREA.--4,927 mi² (12,761 km²).

PERIOD OF RECORD.--June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-6, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 442.25 ft (134.798 m) National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to Oct. 26, 1932.

REMARKS.--Records good except those for winter periods, which are fair. Flow partially regulated by upstream reservoirs.

AVERAGE DISCHARGE.--65 years (1903-5, 1909-16, 1923 to current year), 5,412 ft³/s (153.3 m³/s) 14.92 in/yr (379 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft³/s (4,530 m³/s) Mar. 28, 1913, gage height, 42.2 ft (12.86 m), from rating curve extended above 100,000 ft³/s (2,830 m³/s); minimum daily, 64 ft³/s (1.81 m³/s) Oct. 6, 1935, as a result of filling Williams Reservoir.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20,000 ft³/s (566 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 9 | 2200 | 22300 632 | 15.19 4.630 | Apr. 5 | 1800 | 20500 580 | 13.98 4.261 |
| Dec. 14 | 0100 | 20600 583 | 14.03 4.276 | July 29 | 1900 | 22100 626 | 15.02 4.578 |
| Jan. 2 | 1500 | 20000 566 | 13.65 4.160 | Aug. 3 | 0800 | 29500 835 | 19.26 5.870 |
| Jan. 7 | --- | 22000 623 | unknown | Aug. 8 | 0200 | 31900 903 | 20.46 6.236 |
| Mar. 2 | 1100 | *48600 1380 | *26.77 8.160 | | | | |

Minimum daily discharge, 972 ft³/s (27.5 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 1190 | 1630 | 5760 | 15200 | 6500 | 45900 | 9540 | 6090 | 5480 | 2220 | 17200 | 9140 |
| 2 | 1190 | 1570 | 4810 | 19600 | 5710 | 48400 | 9940 | 5870 | 5240 | 2120 | 26300 | 9150 |
| 3 | 1170 | 1530 | 4510 | 17900 | 5690 | 46400 | 12800 | 6230 | 5280 | 2380 | 29400 | 8410 |
| 4 | 1120 | 1520 | 8470 | 16400 | 5480 | 43400 | 14800 | 7420 | 5140 | 2540 | 28800 | 7350 |
| 5 | 1080 | 1510 | 10400 | 17800 | 5190 | 40500 | 19900 | 9080 | 3990 | 2320 | 28800 | 6610 |
| 6 | 1040 | 1520 | 11100 | 20600 | 4990 | 36800 | 19500 | 10700 | 2880 | 2150 | 29500 | 6060 |
| 7 | 1020 | 1520 | 11800 | 22000 | 3540 | 34700 | 18800 | 11300 | 2880 | 3560 | 31400 | 5650 |
| 8 | 1000 | 1530 | 15400 | 21300 | 3390 | 34900 | 19100 | 10900 | 5810 | 5030 | 31600 | 5320 |
| 9 | 986 | 1500 | 21300 | 17900 | 3150 | 35400 | 19100 | 9440 | 11200 | 4520 | 29800 | 5050 |
| 10 | 972 | 1480 | 21200 | 13900 | 3110 | 34100 | 17700 | 7800 | 9730 | 3620 | 25700 | 4820 |
| 11 | 987 | 1460 | 18700 | 11100 | 3210 | 28600 | 15200 | 6860 | 6040 | 3080 | 19000 | 4650 |
| 12 | 1010 | 1440 | 18800 | 9010 | 3480 | 19400 | 16000 | 6570 | 4850 | 3050 | 11300 | 4480 |
| 13 | 6920 | 1420 | 20200 | 6910 | 3370 | 12500 | 16700 | 7360 | 4070 | 6900 | 7410 | 4370 |
| 14 | 11500 | 1420 | 20300 | 6400 | 3000 | 10100 | 15500 | 6940 | 3660 | 11900 | 7140 | 4580 |
| 15 | 8920 | 1480 | 18300 | 6200 | 2630 | 9400 | 16000 | 7470 | 3360 | 12400 | 7270 | 4540 |
| 16 | 8720 | 1760 | 15200 | 6500 | 3170 | 9070 | 17500 | 7310 | 3050 | 12400 | 6850 | 4750 |
| 17 | 8290 | 3010 | 12300 | 6830 | 5060 | 8680 | 18900 | 6500 | 2820 | 9930 | 6310 | 5110 |
| 18 | 7400 | 6980 | 9740 | 7860 | 4410 | 8240 | 19300 | 5970 | 2630 | 9690 | 5850 | 4460 |
| 19 | 5970 | 7790 | 7600 | 8600 | 4300 | 7940 | 17800 | 5430 | 2450 | 9810 | 5570 | 3650 |
| 20 | 4270 | 8460 | 6570 | 8600 | 4410 | 7710 | 15000 | 5160 | 2260 | 8580 | 5660 | 3050 |
| 21 | 3230 | 8840 | 7680 | 10700 | 4760 | 7440 | 12500 | 4950 | 2050 | 6180 | 10100 | 2740 |
| 22 | 2720 | 8940 | 8320 | 13000 | 8530 | 7240 | 10100 | 4760 | 2190 | 4660 | 11500 | 2650 |
| 23 | 2420 | 8020 | 8760 | 12400 | 17800 | 7970 | 8410 | 4650 | 3270 | 3880 | 11100 | 3380 |
| 24 | 2200 | 6360 | 9060 | 15000 | 26900 | 10100 | 8030 | 4550 | 5130 | 3800 | 9850 | 4720 |
| 25 | 2040 | 5280 | 8300 | 17900 | 28100 | 10600 | 7960 | 4450 | 5100 | 4350 | 9180 | 5170 |
| 26 | 1930 | 4850 | 7360 | 15800 | 30600 | 10100 | 7450 | 4360 | 4140 | 6480 | 9450 | 5350 |
| 27 | 1810 | 5260 | 6720 | 14600 | 34400 | 9420 | 7000 | 4600 | 3410 | 14100 | 10300 | 5150 |
| 28 | 1730 | 6090 | 6260 | 13400 | 40800 | 8440 | 6740 | 5140 | 2890 | 20800 | 9550 | 4200 |
| 29 | 1680 | 6540 | 5880 | 11200 | --- | 7650 | 6540 | 5100 | 2660 | 22000 | 9960 | 3210 |
| 30 | 1670 | 6470 | 5600 | 8790 | --- | 7210 | 6300 | 4940 | 2410 | 21100 | 10400 | 2760 |
| 31 | 1710 | --- | 6350 | 7230 | --- | 7950 | --- | 5010 | --- | 17500 | 9620 | --- |
| TOTAL | 97895 | 117180 | 342750 | 400630 | 275680 | 616260 | 410110 | 202910 | 126070 | 243050 | 471870 | 150530 |
| MEAN | 3158 | 3906 | 11060 | 12920 | 9846 | 19880 | 13670 | 6545 | 4202 | 7840 | 15220 | 5018 |
| MAX | 11500 | 8940 | 21300 | 22000 | 40800 | 48400 | 19900 | 11300 | 11200 | 22000 | 31600 | 9150 |
| MIN | 972 | 1420 | 4510 | 6200 | 2630 | 7210 | 6300 | 4360 | 2050 | 2120 | 5570 | 2650 |
| CFSM | .64 | .79 | 2.25 | 2.62 | 2.00 | 4.04 | 2.78 | 1.33 | .85 | 1.59 | 3.09 | 1.02 |
| IN. | .74 | .88 | 2.59 | 3.02 | 2.08 | 4.65 | 3.10 | 1.53 | .95 | 1.84 | 3.56 | 1.14 |

| | | | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1978 | TOTAL | 2468985 | MEAN | 6764 | MAX | 47200 | MIN | 972 | CFSM | 1.37 | IN | 18.64 |
| WTR YR 1979 | TOTAL | 3454935 | MEAN | 9466 | MAX | 48400 | MIN | 972 | CFSM | 1.92 | IN | 26.09 |

03373700 LOST RIVER NEAR WEST BADEN SPRINGS, IN

LOCATION.--Lat 38°35'10", long 86°38'03", in SW¼SE¼ sec.21, T.2 N., R.2 W., Orange County, Hydrologic Unit 05120208, on left bank 20 ft (6 m) downstream from bridge on U.S. Highway 150, 1.7 miles (2.7 km) northwest of West Baden Springs, 3.8 miles (6.1 km) downstream from Lick Creek, and at mile 34.8 (56.0 km).

DRAINAGE AREA.--287 mi² (743 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair except those for period of no gage-height record, Aug. 26 to Sept. 27, which are fair.

AVERAGE DISCHARGE.--14 years, 372 ft³/s (10.54 m³/s), 17.60 in/yr (447 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,540 ft³/s (214 m³/s) July 27, 1979, gage height, 25.71 ft (7.826 m); minimum daily, 7.5 ft³/s (0.21 m³/s) Oct. 8, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 28.1 ft (8.56 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 4 | 1700 | 2100 59.5 | 20.19 6.154 | Apr. 5 | 0600 | 2310 65.4 | 20.97 6.392 |
| Dec. 9 | 1700 | 3190 90.3 | 22.46 6.846 | June 9 | 1900 | 4640 131 | 23.78 7.248 |
| Jan. 2 | 0700 | 2580 73.1 | 21.69 6.611 | July 27 | 0500 | *7540 214 | *25.71 7.836 |
| Feb. 24 | 0400 | 4140 117 | 23.39 7.129 | Aug. 2 | 1400 | 3100 87.8 | 22.35 6.812 |
| Mar. 5 | 0600 | 2050 58.1 | 19.94 6.078 | | | | |

Minimum daily discharge, 33 ft³/s (0.93 m³/s) Sept. 12.

NOTE.--No gage-height record Aug. 26 to Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|-----------|----------|-------|-------|-------|-------|------|
| 1 | 76 | 60 | 461 | 1650 | 305 | 1870 | 898 | 236 | 527 | 129 | 1820 | 105 |
| 2 | 90 | 56 | 399 | 2310 | 280 | 1750 | 1650 | 218 | 330 | 102 | 2920 | 90 |
| 3 | 65 | 54 | 868 | 2240 | 252 | 1550 | 1960 | 373 | 247 | 85 | 2730 | 78 |
| 4 | 54 | 52 | 1930 | 1780 | 230 | 1850 | 1990 | 872 | 201 | 79 | 2260 | 68 |
| 5 | 49 | 50 | 1960 | 1210 | 210 | 2040 | 2280 | 1160 | 175 | 73 | 1780 | 61 |
| 6 | 45 | 48 | 1480 | 782 | 195 | 1770 | 2040 | 819 | 157 | 68 | 1230 | 56 |
| 7 | 43 | 47 | 961 | 515 | 185 | 1420 | 1620 | 574 | 162 | 64 | 850 | 51 |
| 8 | 41 | 46 | 1780 | 420 | 176 | 1100 | 1210 | 436 | 910 | 62 | 652 | 46 |
| 9 | 40 | 45 | 2890 | 358 | 172 | 845 | 1190 | 356 | 3400 | 61 | 556 | 42 |
| 10 | 38 | 45 | 2720 | 315 | 170 | 717 | 1050 | 308 | 3310 | 68 | 494 | 38 |
| 11 | 39 | 45 | 2130 | 290 | 165 | 646 | 953 | 272 | 2170 | 68 | 801 | 36 |
| 12 | 47 | 44 | 1630 | 270 | 160 | 567 | 1670 | 278 | 1600 | 118 | 943 | 33 |
| 13 | 419 | 43 | 1130 | 260 | 155 | 490 | 1900 | 361 | 990 | 910 | 576 | 100 |
| 14 | 731 | 42 | 755 | 370 | 147 | 451 | 1800 | 288 | 692 | 1050 | 449 | 420 |
| 15 | 432 | 47 | 627 | 340 | 182 | 410 | 1580 | 1010 | 467 | 1140 | 350 | 280 |
| 16 | 291 | 296 | 521 | 310 | 824 | 379 | 1150 | 1010 | 361 | 713 | 290 | 160 |
| 17 | 213 | 1030 | 441 | 409 | 713 | 355 | 810 | 596 | 312 | 370 | 262 | 94 |
| 18 | 162 | 1660 | 388 | 755 | 495 | 333 | 640 | 421 | 275 | 263 | 239 | 76 |
| 19 | 138 | 1170 | 362 | 652 | 385 | 387 | 546 | 330 | 231 | 204 | 205 | 64 |
| 20 | 122 | 650 | 378 | 652 | 314 | 605 | 484 | 283 | 203 | 170 | 205 | 56 |
| 21 | 108 | 448 | 694 | 1450 | 656 | 498 | 435 | 248 | 180 | 150 | 512 | 52 |
| 22 | 97 | 368 | 633 | 1420 | 1380 | 431 | 386 | 217 | 165 | 135 | 413 | 1900 |
| 23 | 86 | 326 | 501 | 1010 | 2770 | 662 | 351 | 195 | 153 | 125 | 270 | 920 |
| 24 | 80 | 308 | 438 | 1710 | 3790 | 1080 | 327 | 181 | 152 | 175 | 218 | 520 |
| 25 | 74 | 280 | 394 | 1900 | 2970 | 964 | 318 | 172 | 145 | 206 | 230 | 280 |
| 26 | 78 | 430 | 353 | 1550 | 1820 | 751 | 321 | 164 | 129 | 1290 | 265 | 180 |
| 27 | 84 | 1320 | 317 | 988 | 1610 | 600 | 301 | 187 | 117 | 6820 | 300 | 128 |
| 28 | 85 | 1150 | 288 | 682 | 1650 | 515 | 292 | 229 | 108 | 5050 | 210 | 108 |
| 29 | 80 | 783 | 270 | 540 | --- | 461 | 276 | 176 | 127 | 3730 | 470 | 102 |
| 30 | 71 | 572 | 261 | 450 | --- | 431 | 256 | 155 | 138 | 2560 | 280 | 97 |
| 31 | 64 | --- | 742 | 360 | --- | 588 | --- | 636 | --- | 1990 | 140 | --- |
| TOTAL | 4042 | 11515 | 28702 | 27948 | 22361 | 26516 | 30684 | 12761 | 18134 | 28028 | 22920 | 6241 |
| MEAN | 130 | 384 | 926 | 902 | 799 | 855 | 1023 | 412 | 604 | 904 | 739 | 208 |
| MAX | 731 | 1660 | 2890 | 2310 | 3790 | 2040 | 2280 | 1160 | 3400 | 6820 | 2920 | 1900 |
| MIN | 38 | 42 | 261 | 260 | 147 | 333 | 256 | 155 | 108 | 61 | 140 | 33 |
| CFSM | .45 | 1.34 | 3.23 | 3.14 | 2.78 | 2.98 | 3.56 | 1.44 | 2.11 | 3.15 | 2.58 | .73 |
| IN. | .52 | 1.49 | 3.72 | 3.62 | 2.90 | 3.44 | 3.98 | 1.65 | 2.35 | 3.63 | 2.97 | .81 |
| CAL YR 1978 | TOTAL | 164945 | MEAN 452 | MAX 5910 | MIN 38 | CFSM 1.58 | IN 21.38 | | | | | |
| WTR YR 1979 | TOTAL | 239852 | MEAN 657 | MAX 6820 | MIN 33 | CFSM 2.29 | IN 31.09 | | | | | |

WABASH RIVER BASIN

03373700 LOST RIVER NEAR WEST BADEN SPRINGS, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. FALL DIAM. # FINER THAN .002 MM | SED. SUSP. FALL DIAM. # FINER THAN .004 MM |
|--------------|------|-----------------------------|---|---|--|--|--|
| FEB 24... | 1135 | 6.0 | 3780 | 267 | 2730 | -- | -- |
| JUL 27... | 1130 | -- | 7150 | 194 | 3750 | 83 | 96 |
| 27... | 1910 | -- | 6210 | 123 | 2060 | -- | -- |

| DATE | SED. SUSP. FALL DIAM. # FINER THAN .008 MM | SED. SUSP. FALL DIAM. # FINER THAN .016 MM | SED. SUSP. FALL DIAM. # FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. # FINER THAN .500 MM |
|--------------|--|--|--|---|---|---|---|
| FEB 24... | -- | -- | -- | -- | -- | -- | -- |
| JUL 27... | 97 | 99 | 99 | 99 | 99 | 100 | -- |
| 27... | -- | -- | -- | 98 | 98 | 99 | 100 |

03373980 WHITE RIVER ABOVE PETERSBURG, IN

LOCATION.--Lat 38°31'42", long 87°15'14", in NE¼SW¼ sec.12, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, on left bank 100 ft (30 m) upstream from intake structure of Indianapolis Power and Light Company's generating plant, 1.5 miles (2.4 km) downstream from East Fork White River, 2.2 miles (3.5 km) upstream from State Highway 61, 2.8 miles (4.5 km) northeast of Petersburg, and at mile 48.0 (77.2 km).

DRAINAGE AREA.--11,123 mi² (28,809 km²).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 401.52 ft (122.383 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Discharges below 5,000 ft³/s based on relation between discharge measurements made "above Petersburg" with discharge measurements made "at Petersburg" (sta 03374000). Discharges above 5,000 ft³/s are the same as "at Petersburg" (sta 03374000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,800 ft³/s (2,490 m³/s) Mar. 22, 1978, gage height, 24.61 ft (7.501 m); minimum daily, 870 ft³/s (24.6 m³/s) Jan. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87,000 ft³/s (2,460 m³/s) Mar. 4, gage height, 24.50 ft (7.48 m); minimum daily, 2,970 ft³/s (79.0 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|
| 1 | 3940 | 3710 | 10100 | 25000 | 12900 | 73000 | 25100 | 14100 | 9480 | 5980 | 65100 | 24000 |
| 2 | 3880 | 3690 | 9260 | 32500 | 11500 | 79000 | 29300 | 13500 | 10100 | 5830 | 70000 | 24000 |
| 3 | 3870 | 3590 | 9190 | 36300 | 10800 | 82000 | 31100 | 13800 | 9650 | 6340 | 74900 | 21000 |
| 4 | 3880 | 3510 | 14200 | 38600 | 10200 | 85000 | 33000 | 16900 | 9350 | 6100 | 79800 | 18000 |
| 5 | 3810 | 3390 | 18200 | 39000 | 9700 | 81000 | 36700 | 20300 | 8920 | 6010 | 83400 | 16000 |
| 6 | 3740 | 3290 | 20600 | 39300 | 9200 | 76000 | 37400 | 20700 | 7920 | 6100 | 82600 | 14000 |
| 7 | 3680 | 3240 | 21100 | 39500 | 8600 | 75000 | 37000 | 20600 | 6950 | 6240 | 79800 | 13000 |
| 8 | 3550 | 3160 | 26400 | 36500 | 8000 | 75000 | 35400 | 19800 | 10100 | 6720 | 75100 | 13000 |
| 9 | 3430 | 3110 | 33300 | 32800 | 7500 | 76000 | 35500 | 18500 | 22300 | 9260 | 68700 | 12000 |
| 10 | 3380 | 3080 | 36300 | 27400 | 6800 | 79000 | 35300 | 16700 | 29100 | 8190 | 59900 | 11000 |
| 11 | 3360 | 3090 | 37900 | 21700 | 6500 | 73000 | 34700 | 14900 | 24700 | 7500 | 49800 | 11000 |
| 12 | 3490 | 3050 | 36300 | 17400 | 7170 | 65000 | 37000 | 14400 | 19000 | 7580 | 39900 | 11000 |
| 13 | 4520 | 3000 | 33300 | 15400 | 7280 | 51000 | 39200 | 15600 | 15400 | 16000 | 28200 | 10000 |
| 14 | 10500 | 2970 | 31600 | 14300 | 7030 | 38000 | 39700 | 15300 | 13000 | 24200 | 19900 | 10000 |
| 15 | 14700 | 3040 | 30000 | 13200 | 6720 | 28000 | 40800 | 15600 | 11100 | 28400 | 16100 | 10000 |
| 16 | 13200 | 3370 | 27000 | 12500 | 8120 | 23000 | 42400 | 17900 | 9570 | 30900 | 15000 | 9950 |
| 17 | 12200 | 4650 | 22700 | 12600 | 8770 | 21000 | 44400 | 16200 | 8440 | 32600 | 14100 | 10000 |
| 18 | 11300 | 9140 | 18800 | 13700 | 9290 | 19000 | 44700 | 13600 | 7670 | 33600 | 13200 | 10100 |
| 19 | 10400 | 14000 | 15400 | 14100 | 8870 | 18000 | 42700 | 11800 | 7090 | 35600 | 12300 | 9560 |
| 20 | 9010 | 15200 | 13100 | 14700 | 8290 | 20000 | 38500 | 10800 | 6620 | 38400 | 12000 | 8890 |
| 21 | 7390 | 15000 | 12900 | 18300 | 9070 | 19000 | 32200 | 10300 | 6420 | 39200 | 16600 | 8480 |
| 22 | 6190 | 14400 | 14200 | 20500 | 13900 | 18000 | 26000 | 9870 | 6250 | 33500 | 22000 | 8320 |
| 23 | 5580 | 13800 | 14900 | 21300 | 28200 | 21000 | 21700 | 9370 | 6760 | 20000 | 24000 | 8140 |
| 24 | 5160 | 12600 | 15000 | 26300 | 39100 | 24000 | 18900 | 9070 | 7330 | 12500 | 25000 | 8740 |
| 25 | 4830 | 10700 | 14600 | 30200 | 46200 | 25000 | 17800 | 8790 | 8320 | 11000 | 25000 | 9540 |
| 26 | 4550 | 9590 | 13400 | 31000 | 54300 | 26000 | 17400 | 8530 | 8550 | 15400 | 25000 | 9800 |
| 27 | 4350 | 10700 | 12100 | 28800 | 61000 | 24000 | 16800 | 8550 | 7860 | 33300 | 26000 | 9830 |
| 28 | 4050 | 10600 | 11100 | 25200 | 66000 | 22500 | 16000 | 9040 | 6960 | 42000 | 26000 | 9510 |
| 29 | 3900 | 10800 | 10300 | 21800 | --- | 19900 | 15200 | 9390 | 6480 | 48400 | 27000 | 8770 |
| 30 | 3820 | 10700 | 9790 | 18100 | --- | 18400 | 14700 | 9210 | 6500 | 55900 | 26000 | 8010 |
| 31 | 3760 | --- | 11400 | 15000 | --- | 21800 | --- | 9060 | --- | 62000 | 25000 | --- |
| TOTAL | 183420 | 214170 | 604440 | 753000 | 491010 | 1376600 | 936600 | 422180 | 317890 | 694750 | 1227400 | 355640 |
| MEAN | 5917 | 7139 | 19500 | 24290 | 17540 | 44410 | 31220 | 13620 | 10600 | 22410 | 39590 | 11850 |
| MAX | 14700 | 15200 | 37900 | 39500 | 66000 | 85000 | 44700 | 20700 | 29100 | 62000 | 83400 | 24000 |
| MIN | 3360 | 2970 | 9190 | 12500 | 6500 | 18000 | 14700 | 8530 | 6250 | 5830 | 12000 | 8010 |
| CFSM | .53 | .64 | 1.75 | 2.18 | 1.58 | 3.99 | 2.81 | 1.22 | .95 | 2.02 | 3.56 | 1.07 |
| IN. | .61 | .72 | 2.02 | 2.52 | 1.64 | 4.60 | 3.13 | 1.41 | 1.06 | 2.32 | 4.10 | 1.19 |
| CAL YR 1978 | TOTAL | 5272840 | MEAN | 14450 | MAX | 87400 | MIN | 2970 | CFSM | 1.30 | IN | 17.63 |
| WTR YR 1979 | TOTAL | 7577100 | MEAN | 20760 | MAX | 85000 | MIN | 2970 | CFSM | 1.87 | IN | 25.34 |

WABASH RIVER BASIN

03374000 WHITE RIVER AT PETERSBURG, IN

LOCATION.--Lat 38°30'39", long 87°17'22", in SE¼SW¼ sec.15, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, 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 miles (2.3 km) north of Petersburg, and at mile 45.7 (73.5 km).

DRAINAGE AREA.--11,125 mi² (28,814 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for October 1927, published in WSP 1305. Published as "at Hazleton" October 1927 to September 1938. Records published for both sites October 1937 to September 1938. Gage-height records collected at present site and datum since January 1935 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1305: 1930(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to Apr. 1, 1941.

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

AVERAGE DISCHARGE.--52 years, 11,640 ft³/s (329.6 m³/s), 14.21 in/yr (361 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87,000 ft³/s (2,460 m³/s) Mar. 4, gage height, 24.3 ft (7.41 m) (based on gage-height relation curve with "above Petersburg"); minimum daily, 3,040 ft³/s (86.1 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|
| 1 | 4090 | 3840 | 10100 | 25000 | 12900 | 73000 | 25100 | 14100 | 9480 | 5980 | 65100 | 24000 |
| 2 | 4020 | 3820 | 9260 | 32500 | 11500 | 79000 | 29300 | 13500 | 10100 | 5830 | 70000 | 24000 |
| 3 | 4010 | 3710 | 9190 | 36300 | 10800 | 82000 | 31100 | 13800 | 9650 | 6340 | 74900 | 21000 |
| 4 | 4020 | 3620 | 14200 | 38600 | 10200 | 85000 | 33000 | 16900 | 9350 | 6100 | 79800 | 18000 |
| 5 | 3950 | 3490 | 18200 | 39000 | 9700 | 81000 | 36700 | 20300 | 8920 | 6010 | 83400 | 16000 |
| 6 | 3870 | 3390 | 20600 | 39300 | 9200 | 76000 | 37400 | 20700 | 7920 | 6100 | 82600 | 14000 |
| 7 | 3810 | 3330 | 21100 | 39500 | 8600 | 75000 | 37000 | 20600 | 6950 | 6240 | 79800 | 13000 |
| 8 | 3670 | 3250 | 26400 | 36500 | 8000 | 75000 | 35400 | 19800 | 10100 | 6720 | 75100 | 13000 |
| 9 | 3540 | 3190 | 33300 | 32800 | 7500 | 76000 | 35500 | 18500 | 22300 | 9260 | 68700 | 12000 |
| 10 | 3480 | 3160 | 36300 | 27400 | 6800 | 79000 | 35300 | 16700 | 29100 | 8190 | 59900 | 11000 |
| 11 | 3460 | 3170 | 37900 | 21700 | 6500 | 73000 | 34700 | 14900 | 24700 | 7500 | 49800 | 11000 |
| 12 | 3600 | 3130 | 36300 | 17400 | 7170 | 65000 | 37000 | 14400 | 19000 | 7580 | 39900 | 11000 |
| 13 | 4600 | 3070 | 33300 | 15400 | 7280 | 51000 | 39200 | 15600 | 15400 | 16000 | 28200 | 10000 |
| 14 | 10500 | 3040 | 31600 | 14300 | 7030 | 38000 | 39700 | 15300 | 13000 | 24200 | 19900 | 10000 |
| 15 | 14700 | 3120 | 30000 | 13200 | 6720 | 28000 | 40800 | 15600 | 11100 | 28400 | 16100 | 10000 |
| 16 | 13200 | 3470 | 27000 | 12500 | 8120 | 23000 | 42400 | 17900 | 9570 | 30900 | 15000 | 9950 |
| 17 | 12200 | 4700 | 22700 | 12600 | 8770 | 21000 | 44400 | 16200 | 8440 | 32600 | 14100 | 10000 |
| 18 | 11300 | 9140 | 18800 | 13700 | 9290 | 19000 | 44700 | 13600 | 7670 | 33600 | 13200 | 10100 |
| 19 | 10400 | 14000 | 15400 | 14100 | 8870 | 18000 | 42700 | 11800 | 7090 | 35600 | 12300 | 9560 |
| 20 | 9010 | 15200 | 13100 | 14700 | 8290 | 20000 | 38500 | 10800 | 6620 | 38400 | 12000 | 8890 |
| 21 | 7390 | 15000 | 12900 | 18300 | 9070 | 19000 | 32200 | 10300 | 6420 | 39200 | 16600 | 8480 |
| 22 | 6190 | 14400 | 14200 | 20500 | 13900 | 18000 | 26000 | 9870 | 6250 | 33500 | 22000 | 8320 |
| 23 | 5580 | 13800 | 14900 | 21300 | 28200 | 21000 | 21700 | 9370 | 6760 | 20000 | 24000 | 8140 |
| 24 | 5160 | 12600 | 15000 | 26300 | 39100 | 24000 | 18900 | 9070 | 7330 | 12500 | 25000 | 8740 |
| 25 | 4840 | 10700 | 14600 | 30200 | 46200 | 25000 | 17800 | 8790 | 8320 | 11000 | 25000 | 9540 |
| 26 | 4640 | 9590 | 13400 | 31000 | 54300 | 26000 | 17400 | 8530 | 8550 | 15400 | 25000 | 9800 |
| 27 | 4450 | 10700 | 12100 | 28800 | 61000 | 24000 | 16800 | 8550 | 7860 | 33300 | 26000 | 9830 |
| 28 | 4200 | 10600 | 11100 | 25200 | 66000 | 22500 | 16000 | 9040 | 6960 | 42000 | 26000 | 9510 |
| 29 | 4040 | 10800 | 10300 | 21800 | --- | 19900 | 15200 | 9390 | 6480 | 48400 | 27000 | 8770 |
| 30 | 3960 | 10700 | 9790 | 18100 | --- | 18400 | 14700 | 9210 | 6500 | 55900 | 26000 | 8010 |
| 31 | 3890 | --- | 11400 | 15000 | --- | 21800 | --- | 9060 | --- | 62000 | 25000 | --- |
| TOTAL | 185770 | 215730 | 604440 | 753000 | 491010 | 1376600 | 936600 | 422180 | 317890 | 694750 | 1227400 | 355640 |
| MEAN | 5993 | 7191 | 19500 | 24290 | 17540 | 44410 | 31220 | 13620 | 10600 | 22410 | 39590 | 11850 |
| MAX | 14700 | 15200 | 37900 | 39500 | 66000 | 85000 | 44700 | 20700 | 29100 | 62000 | 83400 | 24000 |
| MIN | 3460 | 3040 | 9190 | 12500 | 6500 | 18000 | 14700 | 8530 | 6250 | 5830 | 12000 | 8010 |
| CFSM | .54 | .65 | 1.75 | 2.18 | 1.58 | 3.99 | 2.81 | 1.22 | .95 | 2.01 | 3.56 | 1.07 |
| IN. | .62 | .72 | 2.02 | 2.52 | 1.64 | 4.60 | 3.13 | 1.41 | 1.06 | 2.32 | 4.10 | 1.19 |
| CAL YR 1978 | TOTAL | 5293110 | MEAN | 14500 | MAX | 87400 | MIN | 3040 | CFSM | 1.30 | IN | 17.70 |
| WTR YR 1979 | TOTAL | 7581010 | MEAN | 20770 | MAX | 85000 | MIN | 3040 | CFSM | 1.87 | IN | 25.35 |

03374000 WHITE RIVER AT PETERSBURG, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: June 1964 to September 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder.

REMARKS.--Two powerplants above station circulate river water for cooling of generators.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 34.5°C Aug. 27, 28, 1976; minimum, freezing point on many days during most winter periods prior to 1967.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|------|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 23.0 | 22.5 | | | 10.0 | 9.5 | 6.5 | 6.0 | 3.0 | 2.0 | | |
| 2 | 22.5 | 21.5 | | | 10.0 | 9.5 | 6.0 | 4.5 | 2.5 | 2.0 | | |
| 3 | 22.0 | 21.5 | | | 10.0 | 9.5 | 4.5 | 4.0 | --- | --- | | |
| 4 | 21.5 | 20.5 | | | 10.0 | 9.5 | 4.0 | 2.5 | --- | --- | | |
| 5 | 20.5 | 20.5 | | | 9.5 | 8.5 | 2.5 | 1.5 | --- | --- | | |
| 6 | 20.5 | 19.0 | | | 8.5 | 8.0 | 1.0 | .5 | --- | --- | | |
| 7 | 19.0 | 19.0 | | | 8.5 | 8.0 | 1.0 | .5 | --- | --- | | |
| 8 | 19.5 | 19.0 | | | 8.0 | 7.0 | 1.0 | .5 | --- | --- | | |
| 9 | 20.5 | 20.0 | | | 7.0 | 6.0 | 1.0 | .5 | --- | --- | | |
| 10 | 20.5 | 20.0 | | | 6.0 | 6.0 | 1.0 | .5 | --- | --- | | |
| 11 | 21.0 | 20.5 | | | 6.0 | 5.0 | 1.0 | .5 | --- | --- | | |
| 12 | 20.5 | 19.5 | | | 5.0 | 4.0 | 1.5 | 1.0 | --- | --- | | |
| 13 | 19.5 | 17.5 | | | 4.0 | 3.5 | 2.0 | 1.5 | --- | --- | | |
| 14 | 17.5 | 16.5 | | | 3.5 | 3.5 | 2.5 | 2.0 | --- | --- | | |
| 15 | 16.5 | 16.0 | | | 4.0 | 3.5 | 2.5 | 1.5 | --- | --- | | |
| 16 | 16.0 | 16.0 | | | 4.0 | 3.5 | 3.0 | 1.5 | --- | --- | | |
| 17 | --- | --- | | | 4.5 | 4.0 | 3.0 | 2.0 | --- | --- | | |
| 18 | --- | --- | | | 5.0 | 4.5 | 2.5 | 1.5 | --- | --- | | |
| 19 | --- | --- | | | 6.0 | 5.0 | 3.0 | 2.5 | --- | --- | | |
| 20 | --- | --- | | | 7.0 | 5.5 | 3.5 | 2.5 | --- | --- | | |
| 21 | --- | --- | | | 7.0 | 6.5 | 3.0 | 2.5 | --- | --- | | |
| 22 | --- | --- | | | 7.0 | 6.5 | 3.0 | 2.5 | --- | --- | | |
| 23 | --- | --- | | | 7.0 | 6.5 | 3.5 | 3.0 | --- | --- | | |
| 24 | --- | --- | | | 7.0 | 6.5 | 3.5 | 2.0 | --- | --- | | |
| 25 | --- | --- | | | 6.5 | 6.0 | 2.0 | 1.5 | --- | --- | | |
| 26 | --- | --- | | | 6.0 | 6.0 | 1.5 | 1.5 | --- | --- | | |
| 27 | --- | --- | | | 6.0 | 5.5 | 1.5 | 1.5 | --- | --- | | |
| 28 | --- | --- | | | 5.5 | 5.0 | 2.0 | 1.5 | --- | --- | | |
| 29 | --- | --- | | | 5.5 | 4.5 | 2.0 | 1.5 | --- | --- | | |
| 30 | --- | --- | | | 6.0 | 5.0 | 3.0 | 1.5 | --- | --- | | |
| 31 | --- | --- | | | 6.0 | 5.5 | 3.0 | 2.0 | --- | --- | | |
| MONTH | | | | | 10.0 | 3.5 | 6.5 | .5 | | | | |

03374000 WHITE RIVER AT PETERSBURG, IN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

03374100 WHITE RIVER AT HAZLETON, IN
(National stream-quality accounting network station)

LOCATION.--Lat 38°29'23", long 87°33'00", in SE¼NW¼ sec.29, T.1 N., R.10 W., Gibson County, Hydrologic Unit 05120202, 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 mi² (29,280 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: February 1973 to current year.
WATER TEMPERATURE: October 1973 to current year.
SEDIMENT DISCHARGE: October 1973 to current year.
WATER DISCHARGE: October 1927 to September 1938.

REMARKS.--Water discharge obtained from station White River at Petersburg (See sta 03374000).

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 33.5°C Aug. 14, 1976; freezing point on several days during winter period 1975-76.
SPECIFIC CONDUCTANCE: Maximum, 882 micromhos July 21, 1977; minimum, 192 micromhos Nov. 6, 1974.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.5°C Aug. 8-11; minimum occurred during period of no record.
SPECIFIC CONDUCTANCE: Maximum, 675 micromhos Oct. 12; minimum, 222 micromhos July 27 for period of collected record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TEMPER- ATURE (DEG C) | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TUR- BID- ITY (NTU) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | OXYGEN, DIS- SOLVED (MG/L) | PH (UNITS) | CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) | ALKA- LITY (MG/L AS CACO3) | NITRO- GEN, TOTAL (MG/L AS N) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) |
|--------------|-----------------------------|------|---|------------------------------|--|-------------------------------------|---------------|---|--|---|--|--|
| NOV 09... | 12.0 | 1030 | 3180 | 6.0 | -- | 12.8 | 8.9 | -- | 240 | 2.2 | .72 | .07 |
| DEC 14... | 1.0 | 1130 | 31600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 09... | 1.5 | 1445 | 32200 | 47 | 335 | 5.8 | 8.0 | -- | 120 | 3.9 | .71 | .15 |
| FEB 07... | 1.0 | 1430 | 8600 | 9.0 | 520 | 10.3 | 7.7 | -- | 180 | 2.8 | .29 | .48 |
| MAR 06... | 6.0 | 1630 | 76000 | 400 | 270 | -- | -- | -- | 77 | 2.9 | .68 | .23 |
| APR 02... | 11.0 | 1615 | 30400 | 75 | 390 | 11.0 | 7.7 | -- | 100 | 2.5 | .74 | .14 |
| MAY 03... | 16.0 | 1200 | 13700 | 45 | 500 | 10.8 | 8.1 | -- | 170 | 2.4 | .35 | .06 |
| JUN 04... | 23.0 | 1215 | 9350 | 25 | 430 | 7.0 | 8.1 | 2.3 | 150 | 2.1 | .89 | .04 |
| JUL 12... | 25.0 | 1300 | 6820 | 90 | 470 | 6.8 | 7.9 | -- | 150 | 3.0 | 1.1 | .05 |
| AUG 01... | 25.0 | 1500 | 68400 | 30 | 260 | 5.7 | 7.4 | 6.6 | 85 | 1.7 | .67 | .05 |
| SEP 06... | 25.0 | 1440 | 41100 | 40 | 520 | 7.8 | 7.7 | 7.0 | 180 | 2.3 | .55 | .95 |

| DATE | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHATE, TOTAL (MG/L AS PO4) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) | CARBON, ORGANIC TOTAL (MG/L AS C) | HARD- NESS (MG/L AS CACO3) | HARD- NESS, NONCAR- BONATE (MG/L CACO3) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) |
|--------------|---|--|---|--|---|--|---|--|--|--|--|--|
| NOV 09... | .79 | 1.4 | -- | -- | .15 | .06 | 2.4 | 330 | 93 | 92 | 25 | 18 |
| DEC 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 09... | .86 | 3.0 | -- | -- | .20 | .04 | -- | 170 | 46 | 45 | 13 | 9.2 |
| FEB 07... | .77 | 2.0 | -- | -- | .20 | .17 | 2.6 | 240 | 56 | 65 | 18 | 14 |
| MAR 06... | .91 | 2.0 | -- | -- | .22 | .04 | -- | 120 | 42 | 34 | 8.3 | 8.0 |
| APR 02... | .88 | 1.6 | -- | -- | .30 | .01 | -- | 150 | 54 | 42 | 12 | 9.0 |
| MAY 03... | .41 | 2.0 | -- | .74 | .24 | -- | 6.2 | 230 | 56 | 61 | 18 | 12 |
| JUN 04... | .93 | 1.2 | -- | .43 | .14 | .06 | -- | 210 | 57 | 55 | 17 | 15 |
| JUL 12... | 1.1 | 1.9 | -- | -- | .34 | .02 | -- | 200 | 55 | 54 | 17 | 14 |
| AUG 01... | .72 | 1.0 | -- | -- | .14 | .04 | 9.8 | 110 | 28 | 33 | 7.3 | 5.0 |
| SEP 06... | 1.5 | .77 | .05 | -- | .20 | .09 | -- | 230 | 54 | 64 | 18 | 9.8 |

WABASH RIVER BASIN

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SODIUM AD- SORP- TION RATIO | SODIUM PERCENT | SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | SULFATE DIS- SOLVED (MG/L AS SO4) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | ARSENIC DIS- SOLVED (UG/L AS AS) | ARSENIC TOTAL (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | BARIUM, SUS- PENDE- RECOV- ERABLE (UG/L AS BA) |
|--------------|---|-------------------|--|---|---|---|--|---|--|-------------------------------------|--|--|
| NOV 09... | .4 | 10 | -- | 3.2 | 31 | 62 | .2 | 3.8 | 1 | 1 | 100 | 0 |
| DEC 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 09... | .3 | 11 | -- | 3.4 | 19 | 36 | .1 | 7.6 | -- | -- | -- | -- |
| FEB 07... | .4 | 11 | -- | 2.2 | 20 | 54 | .2 | 8.3 | 0 | 1 | 0 | 0 |
| MAR 06... | .3 | 12 | -- | 2.8 | 15 | 30 | .1 | 6.6 | -- | -- | -- | -- |
| APR 02... | .3 | 11 | -- | 3.1 | 14 | 41 | .1 | 7.1 | -- | -- | -- | -- |
| MAY 03... | .3 | 10 | -- | 2.4 | 20 | 50 | .2 | 5.4 | 1 | 2 | 0 | 0 |
| JUN 04... | .5 | 13 | 18 | 2.5 | 18 | 50 | .2 | 5.5 | -- | -- | -- | -- |
| JUL 12... | .4 | 13 | -- | 2.9 | 21 | 45 | .2 | 6.1 | -- | -- | -- | -- |
| AUG 01... | .2 | 9 | 8.1 | 3.1 | 7.4 | 26 | .1 | 7.3 | 1 | 4 | 30 | 0 |
| SEP 06... | .3 | 8 | 13 | 2.8 | 14 | 34 | .1 | 8.9 | -- | -- | -- | -- |

[illegible]

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) | IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE) | IRON, TOTAL RECOV- ERABLE (UG/L AS FE) | IRON, DIS- SOLVED (UG/L AS FE) | LEAD, DIS- SOLVED (UG/L AS PB) | LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB) | LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) | MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN) | MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) | SILVER, DIS- SOLVED (UG/L AS AG) | SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG) |
|-------|---|--|---|--|--|--|---|--|---|--|--|--|
| NOV | | | | | | | | | | | | |
| 09... | 9 | 470 | 490 | 20 | 1 | 31 | 32 | 60 | 60 | 0 | 0 | -- |
| DEC | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | 5 | 990 | 1000 | 10 | 5 | 5 | 10 | 0 | 30 | 30 | 0 | 0 |
| MAR | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 03... | 10 | 4200 | 4200 | 10 | 3 | 14 | 17 | 210 | 220 | 9 | 0 | -- |
| JUN | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 01... | 8 | 2100 | 2100 | 50 | 5 | 0 | 4 | 90 | 90 | 4 | 0 | 0 |
| SEP | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) | ZINC, DIS- SOLVED (UG/L AS ZN) | ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN) | ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) | SELE- NIUM, DIS- SOLVED (UG/L AS SE) | SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE) | SELE- NIUM, TOTAL (UG/L AS SE) | COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) | COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) | STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) | ALDRIN, TOTAL (UG/L) | ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) |
|-------|---|--|--|---|---|--|--|--|---|---|----------------------------|---|
| NOV | | | | | | | | | | | | |
| 09... | -- | 0 | 20 | 20 | 0 | 0 | 0 | 2700 | K76 | 150 | ND | ND |
| DEC | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | 18700 | 1450 | K6500 | -- | -- |
| JAN | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | 7430 | 1200 | 1060 | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | 0 | 10 | 30 | 40 | 0 | 0 | 0 | 1000 | K20 | K86 | ND | -- |
| MAR | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | 3150 | 200 | 2400 | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | 16500 | 2350 | K8550 | -- | -- |
| MAY | | | | | | | | | | | | |
| 03... | -- | 0 | 70 | 70 | 0 | 0 | 0 | 8400 | 200 | K89 | ND | ND |
| JUN | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | K4430 | 186 | K107 | -- | -- |
| JUL | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | 33000 | 2250 | 971 | -- | -- |
| AUG | | | | | | | | | | | | |
| 01... | 0 | 8 | 20 | 30 | 0 | 0 | 0 | 12100 | 720 | K4240 | ND | -- |
| SEP | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | 8200 | 264 | 226 | -- | -- |

WABASH RIVER BASIN

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible][illegible]

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | AROCOR TOT. IN BOT MAT 1242 PCB SERIES (UG/KG) | PCB, TOTAL (UG/L) | PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | MALA- THION, TOTAL (UG/L) | MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | PARA- THION, TOTAL (UG/L) | PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | DI- AZINON, TOTAL (UG/L) | DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | METHYL PARA- THION, TOTAL (UG/L) | METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG) | TOTAL TRI- THION (UG/L) |
|-------|--|-------------------------|--|------------------------------------|---|------------------------------------|---|-----------------------------------|--|--|--|----------------------------------|
| NOV | | | | | | | | | | | | |
| 09... | 47 | ND | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| DEC | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | -- | ND | -- | ND | -- | ND | -- | ND | -- | ND | -- | ND |
| MAR | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 03... | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| JUN | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 01... | -- | ND | -- | ND | -- | ND | -- | ND | -- | ND | -- | ND |
| SEP | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | METHYL TRI- THION, TOTAL (UG/L) | METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG) | PHYTO- PLANK- TON, TOTAL (CELLS PER ML) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER DAY) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|-------|--|---|---|--|--|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | |
| 09... | ND | ND | ND | 46000 | 410 | 380 | 3520 | .56 | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 09... | -- | -- | -- | -- | 243 | 205 | 21100 | .33 | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | -- | ND | -- | -- | 316 | 290 | 7340 | .43 | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 06... | -- | -- | -- | 200 | 206 | 151 | 42300 | .28 | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | 217 | 188 | 17800 | .30 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 03... | ND | ND | ND | 19000 | 287 | 271 | 10600 | .39 | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 04... | -- | -- | -- | 32000 | 274 | 253 | 6920 | .37 | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 12... | -- | -- | -- | 7100 | 261 | 250 | 4810 | .36 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 01... | -- | ND | -- | 14000 | 176 | 140 | 32500 | .24 | 81 | 85 | 89 | 94 |
| SEP | | | | | | | | | | | | |
| 06... | -- | -- | -- | 44000 | 288 | 260 | 32000 | .39 | -- | -- | -- | -- |

WABASH RIVER BASIN

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM | NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) | PHOS- PHORUS TOTAL (MG/L AS PO4) | NITRO- GEN, TOTAL (MG/L AS NO3) | MERCURY DIS- SOLVED (UG/L AS HG) | MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) | POTAS- SIUM 40 TOTAL (PCI/L) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|--------------|---|---|--|--|---|--|---|---|---------------------------------------|---|--|
| NOV 09... | -- | -- | -- | -- | 9.7 | <.5 | .0 | <.5 | -- | -- | -- |
| DEC 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 09... | -- | -- | -- | -- | 17 | -- | -- | -- | -- | -- | -- |
| FEB 07... | -- | -- | -- | -- | 12 | <.5 | .0 | <.5 | -- | -- | -- |
| MAR 06... | -- | -- | -- | -- | 13 | -- | -- | -- | -- | -- | -- |
| APR 02... | -- | -- | -- | -- | 11 | -- | -- | -- | -- | -- | -- |
| MAY 03... | -- | -- | .07 | .74 | 11 | <.5 | .0 | <.5 | -- | -- | -- |
| JUN 04... | -- | -- | .05 | .43 | 9.4 | -- | -- | -- | 1.9 | -- | -- |
| JUL 12... | -- | -- | .06 | 1.0 | 13 | -- | -- | -- | 2.2 | -- | -- |
| AUG 01... | 98 | 100 | .06 | .43 | 7.6 | <.5 | .0 | <.5 | 2.3 | 72 | 13300 |
| SEP 06... | -- | -- | 1.2 | .61 | 10 | -- | -- | -- | 2.1 | -- | -- |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | MARCH |
| 1 | 605 | 583 | 612 | 598 | | | | | | |
| 2 | 608 | 584 | 617 | 605 | | | | | | |
| 3 | 600 | 583 | 620 | 604 | | | | | | |
| 4 | 606 | 594 | 619 | 604 | | | | | | |
| 5 | 601 | 587 | 621 | 607 | | | | | | |
| 6 | 626 | 596 | 654 | 618 | | | | | | |
| 7 | 636 | 622 | 656 | 642 | | | | | | |
| 8 | 641 | 617 | 656 | 644 | | | | | | |
| 9 | 632 | 613 | --- | --- | | | | | | |
| 10 | 655 | 632 | --- | --- | | | | | | |
| 11 | 671 | 655 | --- | --- | | | | | | |
| 12 | 675 | 655 | --- | --- | | | | | | |
| 13 | 669 | 633 | --- | --- | | | | | | |
| 14 | 628 | 512 | --- | --- | | | | | | |
| 15 | 526 | 368 | --- | --- | | | | | | |
| 16 | 375 | 333 | --- | --- | | | | | | |
| 17 | 389 | 370 | --- | --- | | | | | | |
| 18 | 384 | 342 | --- | --- | | | | | | |
| 19 | 367 | 338 | --- | --- | | | | | | |
| 20 | 414 | 369 | --- | --- | | | | | | |
| 21 | 427 | 414 | --- | --- | | | | | | |
| 22 | 438 | 421 | --- | --- | | | | | | |
| 23 | 469 | 439 | --- | --- | | | | | | |
| 24 | 496 | 469 | --- | --- | | | | | | |
| 25 | 516 | 495 | --- | --- | | | | | | |
| 26 | 542 | 518 | --- | --- | | | | | | |
| 27 | 557 | 543 | --- | --- | | | | | | |
| 28 | 574 | 553 | --- | --- | | | | | | |
| 29 | 593 | 573 | --- | --- | | | | | | |
| 30 | 600 | 586 | --- | --- | | | | | | |
| 31 | 606 | 596 | --- | --- | | | | | | |
| MONTH | 675 | 333 | | | | | | | | |

WABASH RIVER BASIN

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | | | | | --- | --- | 256 | 249 | 400 | 372 |
| 2 | | | | | | | --- | --- | 262 | 256 | 432 | 387 |
| 3 | | | | | | | --- | --- | 266 | 259 | 477 | 434 |
| 4 | | | | | | | --- | --- | 273 | 266 | 487 | 470 |
| 5 | | | | | | | --- | --- | 290 | 274 | 480 | 467 |
| 6 | | | | | | | --- | --- | 297 | 290 | 489 | 481 |
| 7 | | | | | | | --- | --- | 307 | 297 | 494 | 486 |
| 8 | | | | | | | --- | --- | 327 | 308 | 500 | 494 |
| 9 | | | | | | | --- | --- | 338 | 329 | 506 | 498 |
| 10 | | | | | | | --- | --- | 344 | 334 | 508 | 503 |
| 11 | | | | | | | --- | --- | 366 | 345 | 507 | 499 |
| 12 | | | | | | | --- | --- | 388 | 367 | 507 | 497 |
| 13 | | | | | | | --- | --- | 430 | 389 | 506 | 497 |
| 14 | | | | | | | --- | --- | 456 | 433 | 501 | 491 |
| 15 | | | | | | | --- | --- | 497 | 460 | 493 | 475 |
| 16 | | | | | | | --- | --- | 513 | 498 | 478 | 467 |
| 17 | | | | | | | --- | --- | 515 | 498 | 564 | 472 |
| 18 | | | | | | | 270 | 260 | 499 | 484 | 572 | 552 |
| 19 | | | | | | | 293 | 266 | 493 | 486 | 573 | 556 |
| 20 | | | | | | | 331 | 295 | 497 | 488 | 570 | 550 |
| 21 | | | | | | | 373 | 333 | 472 | 410 | 558 | 538 |
| 22 | | | | | | | 425 | 375 | 446 | 369 | 542 | 525 |
| 23 | | | | | | | --- | --- | 394 | 299 | 540 | 519 |
| 24 | | | | | | | --- | --- | 366 | 294 | 534 | 509 |
| 25 | | | | | | | --- | --- | 373 | 346 | 534 | 515 |
| 26 | | | | | | | --- | --- | 391 | 344 | 539 | 519 |
| 27 | | | | | | | 430 | 269 | 389 | 376 | 537 | 523 |
| 28 | | | | | | | 269 | 222 | 390 | 378 | 533 | 519 |
| 29 | | | | | | | 253 | 243 | 380 | 354 | 546 | 524 |
| 30 | | | | | | | 248 | 243 | 395 | 358 | 564 | 535 |
| 31 | | | | | | | 250 | 247 | 408 | 397 | --- | --- |
| MONTH | | | | | | | | | 515 | 249 | 573 | 372 |

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|---------|------|----------|------|----------|-----|---------|-----|----------|-------|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | MARCH |
| 1 | 21.5 | 20.0 | 15.0 | 14.0 | | | | | | |
| 2 | 21.0 | 19.5 | 15.5 | 14.5 | | | | | | |
| 3 | 20.5 | 19.5 | 15.5 | 14.5 | | | | | | |
| 4 | 20.0 | 18.5 | 15.5 | 14.5 | | | | | | |
| 5 | 19.5 | 19.0 | 15.5 | 15.0 | | | | | | |
| 6 | 18.5 | 17.0 | 16.0 | 15.5 | | | | | | |
| 7 | 17.5 | 16.5 | 15.5 | 14.5 | | | | | | |
| 8 | 17.0 | 15.5 | 14.5 | 13.0 | | | | | | |
| 9 | 17.0 | 16.0 | --- | --- | | | | | | |
| 10 | 17.5 | 16.0 | --- | --- | | | | | | |
| 11 | 18.0 | 17.5 | --- | --- | | | | | | |
| 12 | 19.5 | 17.5 | --- | --- | | | | | | |
| 13 | 19.5 | 18.0 | --- | --- | | | | | | |
| 14 | 18.0 | 16.0 | --- | --- | | | | | | |
| 15 | 16.0 | 14.5 | --- | --- | | | | | | |
| 16 | 15.0 | 14.0 | --- | --- | | | | | | |
| 17 | 14.0 | 13.0 | --- | --- | | | | | | |
| 18 | 14.0 | 13.0 | --- | --- | | | | | | |
| 19 | 13.5 | 13.0 | --- | --- | | | | | | |
| 20 | 13.5 | 13.0 | --- | --- | | | | | | |
| 21 | 14.0 | 13.0 | --- | --- | | | | | | |
| 22 | 14.5 | 13.5 | --- | --- | | | | | | |
| 23 | 14.5 | 14.0 | --- | --- | | | | | | |
| 24 | 14.5 | 13.5 | --- | --- | | | | | | |
| 25 | 14.0 | 13.0 | --- | --- | | | | | | |
| 26 | 14.5 | 14.0 | --- | --- | | | | | | |
| 27 | 14.5 | 13.0 | --- | --- | | | | | | |
| 28 | 14.5 | 13.5 | --- | --- | | | | | | |
| 29 | 14.5 | 13.5 | --- | --- | | | | | | |
| 30 | 14.0 | 13.5 | --- | --- | | | | | | |
| 31 | 15.0 | 14.0 | --- | --- | | | | | | |
| MONTH | 21.5 | 13.0 | | | | | | | | |

WABASH RIVER BASIN

03374100 WHITE RIVER AT HAZLETON, IN--Continued
(National stream-quality accounting network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|-------|-------|-----|-----|-----|------|-----|------|------|--------|------|-----------|------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | | | | | --- | --- | 25.0 | 25.0 | 24.0 | 23.5 |
| 2 | | | | | | | --- | --- | 25.5 | 24.5 | 24.5 | 24.0 |
| 3 | | | | | | | --- | --- | 26.0 | 25.0 | 24.5 | 24.0 |
| 4 | | | | | | | --- | --- | 26.0 | 25.5 | 25.0 | 24.5 |
| 5 | | | | | | | --- | --- | 27.0 | 26.0 | 25.0 | 24.5 |
| 6 | | | | | | | --- | --- | 27.5 | 26.5 | 25.5 | 25.0 |
| 7 | | | | | | | --- | --- | 28.0 | 27.0 | 25.0 | 25.0 |
| 8 | | | | | | | --- | --- | 28.5 | 27.5 | 25.0 | 24.0 |
| 9 | | | | | | | --- | --- | 28.5 | 28.0 | 24.0 | 23.0 |
| 10 | | | | | | | --- | --- | 28.5 | 28.5 | 23.5 | 22.5 |
| 11 | | | | | | | --- | --- | 28.5 | 26.0 | 23.5 | 22.5 |
| 12 | | | | | | | --- | --- | 26.0 | 25.0 | 24.0 | 23.0 |
| 13 | | | | | | | --- | --- | 25.5 | 25.0 | 24.0 | 23.5 |
| 14 | | | | | | | --- | --- | 25.0 | 24.5 | 23.5 | 22.5 |
| 15 | | | | | | | --- | --- | 24.5 | 23.5 | 22.5 | 21.5 |
| 16 | | | | | | | --- | --- | 23.5 | 22.5 | 22.0 | 21.0 |
| 17 | | | | | | | --- | --- | 23.0 | 22.5 | 21.5 | 17.5 |
| 18 | | | | | | | 24.5 | 24.0 | 23.5 | 23.0 | 18.5 | 17.5 |
| 19 | | | | | | | 25.0 | 24.0 | 24.5 | 23.5 | 19.0 | 17.5 |
| 20 | | | | | | | 25.5 | 24.5 | 25.0 | 24.5 | 19.0 | 19.0 |
| 21 | | | | | | | 26.0 | 25.0 | 24.5 | 24.0 | 19.0 | 18.5 |
| 22 | | | | | | | 26.5 | 25.5 | 24.5 | 23.5 | 19.5 | 19.0 |
| 23 | | | | | | | --- | --- | 24.0 | 23.0 | 19.5 | 19.0 |
| 24 | | | | | | | --- | --- | 23.5 | 23.0 | 20.0 | 19.5 |
| 25 | | | | | | | --- | --- | 23.5 | 23.0 | 20.5 | 20.0 |
| 26 | | | | | | | --- | --- | 23.5 | 22.5 | 20.5 | 20.0 |
| 27 | | | | | | | 24.5 | 23.0 | 23.0 | 22.5 | 20.5 | 17.5 |
| 28 | | | | | | | 24.0 | 23.0 | 23.0 | 23.0 | 18.0 | 17.0 |
| 29 | | | | | | | 23.0 | 22.5 | 23.0 | 22.5 | 17.5 | 17.0 |
| 30 | | | | | | | 24.0 | 23.0 | 23.5 | 22.5 | 18.0 | 17.0 |
| 31 | | | | | | | 25.0 | 24.0 | 23.5 | 23.0 | --- | --- |
| MONTH | | | | | | | | | 28.5 | 22.5 | 25.5 | 17.0 |

03374455 PATOKA RIVER NEAR HARDINSBURG, IN

LOCATION.--Lat 38°26'41", long 86°23'14", in NW¼SE¼ sec.10, T.1 S., R.1 E., Orange County, Hydrologic Unit 05120209, on downstream edge of center pier of county road bridge, 0.3 mile (0.5 km) downstream from Fudge Creek, 0.7 mile (1.1 km) northeast of Valeene, 6.0 miles (9.7 km) southwest of Hardinsburg, and at mile 158.0 (254.2 km).

DRAINAGE AREA.--12.8 mi² (33.2 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 26.6 ft³/s (0.753 m³/s), 28.22 in/yr (717 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,960 ft³/s (254 m³/s) July 26, 1979, gage height, 11.32 ft (3.450 m); no flow for several days in 1971, 1972, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Nov. 17 | 1100 | 872 | 24.7 | 6.06 | 1.847 | Feb. 25 | 1245 | 1180 | 33.4 | 6.84 | 2.085 |
| Dec. 3 | 2315 | 829 | 23.5 | 5.94 | 1.810 | Apr. 2 | 0445 | 1370 | 38.8 | 7.25 | 2.210 |
| Dec. 8 | 0630 | 1160 | 32.9 | 6.79 | 2.070 | Apr. 4 | 1015 | 905 | 25.6 | 6.15 | 1.875 |
| Jan. 1 | 1000 | 818 | 23.2 | 5.91 | 1.801 | June 9 | 0045 | 2060 | 58.3 | 8.41 | 2.563 |
| Feb. 22 | 1745 | 1510 | 42.8 | 7.52 | 2.292 | July 26 | 1215 | *9270 | 263 | *11.35 | 3.459 |
| Feb. 23 | 0830 | 1400 | 39.6 | 7.30 | 2.225 | July 27 | 0645 | 1130 | 32.0 | 6.74 | 2.054 |

Minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 8, 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|--------|--------|--------|--------|------|-------|--------|--------|-------|-------|
| 1 | 1.7 | 1.9 | 16 | 553 | 11 | 58 | 146 | 9.8 | 5.9 | 2.3 | 193 | 2.2 |
| 2 | 1.6 | 1.8 | 13 | 125 | 10 | 40 | 524 | 9.2 | 4.0 | 2.1 | 113 | 2.1 |
| 3 | 1.6 | 1.7 | 260 | 46 | 9.0 | 65 | 84 | 16 | 3.3 | 1.9 | 33 | 1.8 |
| 4 | 1.6 | 1.6 | 250 | 30 | 8.2 | 171 | 338 | 53 | 2.9 | 1.9 | 19 | 1.7 |
| 5 | 1.6 | 1.6 | 53 | 23 | 7.9 | 62 | 96 | 53 | 2.6 | 1.7 | 14 | 1.6 |
| 6 | 1.9 | 1.6 | 31 | 20 | 7.4 | 40 | 47 | 32 | 2.3 | 1.6 | 10 | 1.5 |
| 7 | 1.8 | 1.6 | 71 | 19 | 6.9 | 31 | 33 | 23 | 28 | 1.5 | 8.1 | 1.3 |
| 8 | 1.8 | 1.5 | 901 | 16 | 6.6 | 25 | 37 | 18 | 154 | 1.5 | 5.5 | 1.1 |
| 9 | 1.8 | 1.5 | 212 | 14 | 6.3 | 21 | 84 | 14 | 988 | 1.7 | 4.5 | 1.2 |
| 10 | 1.8 | 1.4 | 58 | 12 | 6.1 | 18 | 44 | 12 | 87 | 1.6 | 4.2 | 1.2 |
| 11 | 2.3 | 1.4 | 35 | 10 | 6.4 | 16 | 35 | 10 | 34 | 1.5 | 8.5 | 1.1 |
| 12 | 3.4 | 1.4 | 27 | 9.5 | 5.4 | 14 | 180 | 9.2 | 21 | 3.9 | 6.5 | 1.1 |
| 13 | 13 | 1.4 | 22 | 11 | 5.2 | 13 | 104 | 9.5 | 16 | 42 | 4.3 | 1.5 |
| 14 | 6.2 | 1.5 | 18 | 21 | 4.8 | 12 | 94 | 7.9 | 12 | 13 | 3.5 | 19 |
| 15 | 3.7 | 14 | 16 | 18 | 29 | 10 | 48 | 23 | 9.1 | 12 | 3.0 | 5.3 |
| 16 | 2.7 | 19 | 14 | 16 | 62 | 9.1 | 34 | 14 | 6.7 | 6.9 | 2.7 | 3.1 |
| 17 | 2.2 | 280 | 11 | 25 | 27 | 8.7 | 26 | 9.9 | 5.6 | 4.6 | 2.6 | 2.5 |
| 18 | 1.9 | 51 | 9.8 | 35 | 20 | 8.5 | 21 | 7.0 | 4.8 | 3.5 | 2.4 | 2.1 |
| 19 | 1.7 | 24 | 9.4 | 23 | 16 | 31 | 19 | 6.1 | 4.2 | 3.0 | 2.4 | 1.9 |
| 20 | 1.6 | 16 | 38 | 51 | 13 | 38 | 17 | 5.4 | 4.0 | 2.6 | 2.3 | 1.8 |
| 21 | 1.5 | 13 | 62 | 164 | 87 | 27 | 15 | 4.8 | 3.6 | 2.4 | 6.3 | 23 |
| 22 | 1.4 | 10 | 31 | 54 | 419 | 22 | 13 | 4.3 | 3.4 | 2.3 | 3.5 | 83 |
| 23 | 1.3 | 11 | 23 | 38 | 590 | 86 | 11 | 4.2 | 3.1 | 2.5 | 2.9 | 19 |
| 24 | 1.3 | 11 | 20 | 234 | 113 | 82 | 10 | 4.0 | 3.6 | 3.0 | 2.5 | 11 |
| 25 | 1.4 | 8.5 | 16 | 59 | 414 | 45 | 15 | 4.1 | 3.0 | 7.1 | 2.2 | 6.6 |
| 26 | 2.8 | 134 | 13 | 36 | 123 | 32 | 18 | 3.7 | 2.6 | 1770 | 2.5 | 4.8 |
| 27 | 3.6 | 169 | 10 | 30 | 65 | 25 | 14 | 3.9 | 2.5 | 560 | 2.5 | 4.0 |
| 28 | 2.8 | 46 | 9.2 | 24 | 58 | 23 | 14 | 3.6 | 2.3 | 177 | 3.5 | 3.5 |
| 29 | 2.3 | 28 | 8.7 | 19 | --- | 20 | 13 | 3.2 | 2.9 | 81 | 3.8 | 3.1 |
| 30 | 2.1 | 20 | 9.1 | 16 | --- | 21 | 11 | 3.0 | 2.6 | 37 | 2.9 | 2.8 |
| 31 | 2.0 | --- | 149 | 13 | --- | 156 | --- | 7.0 | --- | 23 | 2.4 | --- |
| TOTAL | 78.4 | 876.4 | 2416.2 | 1764.5 | 2137.2 | 1230.3 | 2145 | 387.8 | 1425.0 | 2776.1 | 477.5 | 215.9 |
| MEAN | 2.53 | 29.2 | 77.9 | 56.9 | 76.3 | 39.7 | 71.5 | 12.5 | 47.5 | 89.6 | 15.4 | 7.20 |
| MAX | 13 | 280 | 901 | 553 | 590 | 171 | 524 | 53 | 988 | 1770 | 193 | 83 |
| MIN | 1.3 | 1.4 | 8.7 | 9.5 | 4.8 | 8.5 | 10 | 3.0 | 2.3 | 1.5 | 2.2 | 1.1 |
| CFSM | .20 | 2.28 | 6.09 | 4.45 | 5.96 | 3.10 | 5.59 | .98 | 3.71 | 7.00 | 1.20 | .56 |
| IN. | .23 | 2.55 | 7.02 | 5.13 | 6.21 | 3.58 | 6.23 | 1.13 | 4.14 | 8.07 | 1.39 | .63 |

CAL YR 1978 TOTAL 10429.2 MEAN 28.6 MAX 901 MIN 1.0 CFSM 2.23 IN 30.31
WTR YR 1979 TOTAL 15930.3 MEAN 43.6 MAX 1770 MIN 1.1 CFSM 3.41 IN 46.29

03374498 PATOKA LAKE NEAR CUZCO, IN

LOCATION.--Lat 38°25'58", long 86°42'30", in SW¼NE¼ sec.14, T.1 S., R.3 W., Dubois County, Hydrologic Unit 05120109, in discharge tower of reservoir on Patoka River, 2.9 miles south of Cuzco and 5.0 miles upstream from Dillon Creek.

DRAINAGE AREA.--168 mi² (435 km²).

PERIOD OF RECORD.--February 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earth and rock fill dam. Releases normally controlled by two gates, 8.0 ft (2.44 m) wide and 12.0 ft (3.66 m) high, in an oblong concrete conduit through dam. Minimum pool capacity is 12,211 acre-ft (15.1 hm³), elevation 506 ft (154.2 m). Seasonal pool capacity is 178,730 acre-ft (220.4 hm³), elevation 536 (163.4 m). Capacity at uncontrolled spillway elevation, 548 ft (167.0 m) is 298,380 acre-ft (367.9 hm³). Reservoir is used for flood control, water supply, water quality, and recreation. Reservoir put in operation on Feb. 13, 1978.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 275,300 acre-ft (339 hm³) Aug. 3, 4, 1979, elevation, 545.97 ft (166.412 m); minimum, 26,330 acre-ft (32.5 hm³) June 12, 1978, elevation, 511.57 ft (155.926 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 275,300 acre-ft (339 hm³) Aug. 3, 4, elevation, 545.97 ft (166.412 m); minimum, 33,640 acre-ft (41.5 hm³) Oct. 5, elevation, 513.67 ft (156.567 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 513.72 | 33,840 | |
| Oct. 31..... | 513.99 | 34,880 | +1,040 |
| Nov. 30..... | 516.50 | 45,150 | +10,270 |
| Dec. 31..... | 522.25 | 75,770 | +30,620 |
| CAL YR 1978..... | | | |
| Jan. 31..... | 524.27 | 88,480 | +12,710 |
| Feb. 28..... | 529.59 | 126,000 | +37,520 |
| Mar. 31..... | 533.21 | 154,900 | +28,900 |
| Apr. 30..... | 535.61 | 175,100 | +20,200 |
| May 31..... | 535.90 | 177,700 | +2,600 |
| June 30..... | 539.00 | 205,800 | +28,100 |
| July 31..... | 545.57 | 271,000 | +65,200 |
| Aug. 31..... | 545.35 | 268,600 | -2,400 |
| Sept. 30..... | 543.33 | 247,600 | -21,000 |
| WTR YR 1979..... | | | +213,960 |

03374500 PATOKA RIVER NEAR ELLSWORTH, IN

LOCATION.--Lat 38°26'29", long 86°43'31", in SW¼SE¼ sec.10, T.1 S., R.3 W., Dubois County, Hydrologic Unit 05120209, on right bank 200 ft (61 m) upstream from county road bridge, 1.0 mile (1.6 km) northwest of Ellsworth, 2.8 miles (4.5 km) upstream from Dillon Creek, 4 miles (6 km) east of Dubois, and at mile 116.1 (186.8 km).

DRAINAGE AREA.--171 mi² (443 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft (145.390 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft (61 m) downstream at same datum.

REMARKS.--Records fair except those for periods of backwater from Dillon Creek, which are poor. Flow regulated by Patoka Lake (See sta 03374498).

AVERAGE DISCHARGE.--18 years, 195 ft³/s (5.522 m³/s), 17.39 in/yr (442 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft³/s (416 m³/s) Mar. 10, 1964, gage height, 20.02 ft (6.102 m); no flow Oct. 30, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.1 ft (5.82 m) according to information by local resident, discharge, 12,300 ft³/s (348 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 844 ft³/s (23.9 m³/s) Jan. 9; maximum gage height, 11.04 ft (3.365 m) July 26; minimum daily, 0.13 ft³/s (0.004 m³/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|--------|------|-------|------|------|-------|------|------|------|-------|-------|
| 1 | .84 | 1.4 | 88 | 200 | 29 | 47 | 58 | 253 | 28 | 140 | 170 | 477 |
| 2 | .40 | 1.2 | 88 | 157 | 28 | 38 | 134 | 131 | 28 | 204 | 175 | 477 |
| 3 | .30 | 1.1 | 172 | 107 | 28 | 55 | 44 | 147 | 28 | 204 | 120 | 477 |
| 4 | .26 | 1.1 | 188 | 335 | 28 | 107 | 120 | 174 | 28 | 206 | 118 | 507 |
| 5 | .24 | 1.1 | 93 | 760 | 28 | 42 | 51 | 139 | 28 | 206 | 118 | 530 |
| 6 | .35 | 1.1 | 91 | 763 | 28 | 37 | 136 | 134 | 28 | 249 | 172 | 530 |
| 7 | .72 | 1.4 | 110 | 762 | 28 | 36 | 253 | 132 | 70 | 293 | 280 | 530 |
| 8 | .47 | 1.2 | 280 | 792 | 28 | 35 | 265 | 131 | 150 | 295 | 338 | 530 |
| 9 | .39 | 1.2 | 135 | 844 | 26 | 34 | 333 | 131 | 70 | 262 | 361 | 528 |
| 10 | .35 | 1.1 | 98 | 841 | 26 | 34 | 455 | 131 | 27 | 249 | 410 | 527 |
| 11 | .72 | 1.1 | 95 | 839 | 26 | 34 | 397 | 131 | 25 | 296 | 436 | 525 |
| 12 | 1.5 | 1.0 | 93 | 836 | 28 | 33 | 364 | 137 | 24 | 218 | 434 | 445 |
| 13 | 10 | 1.0 | 93 | 835 | 28 | 34 | 122 | 132 | 24 | 109 | 452 | 204 |
| 14 | 2.0 | 2.2 | 93 | 820 | 28 | 34 | 116 | 131 | 24 | 55 | 471 | 195 |
| 15 | .84 | 19 | 93 | 709 | 48 | 34 | 110 | 131 | 140 | 47 | 495 | 318 |
| 16 | .52 | 16 | 93 | 584 | 42 | 34 | 288 | 122 | 374 | 56 | 519 | 427 |
| 17 | .38 | 139 | 93 | 361 | 32 | 34 | 587 | 114 | 376 | 95 | 518 | 510 |
| 18 | .29 | 112 | 93 | 451 | 30 | 35 | 747 | 88 | 285 | 150 | 516 | 527 |
| 19 | .23 | 262 | 128 | 608 | 29 | 59 | 750 | 67 | 200 | 202 | 516 | 462 |
| 20 | .19 | 479 | 188 | 413 | 29 | 44 | 750 | 67 | 200 | 232 | 588 | 261 |
| 21 | .16 | 530 | 186 | 110 | 56 | 40 | 751 | 53 | 200 | 264 | 262 | 193 |
| 22 | .15 | 522 | 264 | 64 | 101 | 47 | 751 | 38 | 202 | 261 | 93 | 179 |
| 23 | .14 | 488 | 454 | 65 | 190 | 78 | 750 | 38 | 202 | 238 | 131 | 313 |
| 24 | .13 | 277 | 425 | 125 | 52 | 58 | 748 | 39 | 204 | 170 | 217 | 446 |
| 25 | 1.1 | 86 | 264 | 65 | 128 | 43 | 751 | 39 | 204 | 100 | 306 | 522 |
| 26 | 3.2 | 125 | 123 | 61 | 58 | 39 | 638 | 41 | 168 | 150 | 349 | 524 |
| 27 | 2.4 | 131 | 103 | 61 | 43 | 38 | 459 | 41 | 80 | 150 | 350 | 524 |
| 28 | 2.0 | 93 | 103 | 59 | 42 | 38 | 458 | 41 | 80 | 130 | 310 | 524 |
| 29 | 1.8 | 90 | 101 | 59 | --- | 37 | 457 | 35 | 82 | 80 | 152 | 524 |
| 30 | 1.8 | 88 | 103 | 45 | --- | 38 | 445 | 28 | 82 | 73 | 232 | 525 |
| 31 | 1.6 | --- | 170 | 29 | --- | 70 | --- | 30 | --- | 91 | 392 | --- |
| TOTAL | 35.47 | 3474.2 | 4701 | 12760 | 1267 | 1366 | 12288 | 3046 | 3661 | 5475 | 10001 | 13261 |
| MEAN | 1.14 | 116 | 152 | 412 | 45.3 | 44.1 | 410 | 98.3 | 122 | 177 | 323 | 442 |
| MAX | 10 | 530 | 454 | 844 | 190 | 107 | 751 | 253 | 376 | 296 | 588 | 530 |
| MIN | .13 | 1.0 | 88 | 29 | 26 | 33 | 44 | 28 | 24 | 47 | 93 | 179 |

CAL YR 1978 TOTAL 51308.17 MEAN 141 MAX 1050 MIN .13
WTR YR 1979 TOTAL 71335.67 MEAN 195 MAX 844 MIN .13

03375500 PATOKA RIVER AT JASPER, IN

LOCATION.--Lat 38°24'49", long 86°52'36", in NW¼SE¼ sec.20, T.1 S., R.4 W., Dubois County, Hydrologic Unit 05120209, on left bank 0.3 mile (0.5 km) upstream from unnamed outlet of Jasper Lake, 1.0 mile (1.6 km) downstream from Coon Seitz bridge, 1.2 miles (1.9 km) downstream from Beaver Creek, 3.3 miles (5.3 km) northeast of Jasper, and at mile 91.5 (147.2 km).

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--November 1947 to current year.

REVISED RECORDS.--WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 446.00 ft (135.941 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Nonrecording gage at bridge 5.6 miles (9.0 km) downstream, used for high-water periods when flow exceeds about 2,500 ft³/s (70.8 m³/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.

REMARKS.--Records fair. Flow regulated by Beaver Creek Reservoir beginning Oct. 11, 1955, and by Patoka Lake beginning Feb. 13, 1978 (See sta 03374498).

AVERAGE DISCHARGE.--31 years (1948 to current year), 363 ft³/s (10.28 m³/s), 18.82 in/yr (478 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s (399 m³/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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 ft³/s (453 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,640 ft³/s (103 m³/s) June 10, gage height, 16.35 ft (4.983 m); minimum daily, 6.6 ft³/s (0.187 m³/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1 | 22 | 14 | 203 | 1210 | 105 | 628 | 732 | 496 | 120 | 106 | 681 | 429 |
| 2 | 26 | 13 | 180 | 1370 | 95 | 452 | 1120 | 326 | 66 | 147 | 1170 | 500 |
| 3 | 21 | 12 | 571 | 1000 | 91 | 332 | 1210 | 386 | 51 | 203 | 989 | 494 |
| 4 | 16 | 12 | 1140 | 700 | 88 | 1010 | 1100 | 779 | 46 | 203 | 387 | 489 |
| 5 | 12 | 12 | 1090 | 460 | 80 | 1120 | 1210 | 865 | 44 | 202 | 226 | 520 |
| 6 | 14 | 11 | 516 | 700 | 71 | 583 | 827 | 529 | 42 | 200 | 182 | 537 |
| 7 | 18 | 10 | 357 | 900 | 72 | 284 | 465 | 361 | 63 | 245 | 229 | 536 |
| 8 | 20 | 9.1 | 1190 | 900 | 72 | 216 | 508 | 297 | 608 | 278 | 331 | 534 |
| 9 | 16 | 8.3 | 1440 | 900 | 68 | 183 | 882 | 261 | 2480 | 282 | 368 | 532 |
| 10 | 14 | 8.5 | 1600 | 950 | 64 | 159 | 807 | 239 | 3220 | 247 | 394 | 530 |
| 11 | 19 | 8.8 | 1250 | 1000 | 64 | 137 | 816 | 226 | 2070 | 247 | 489 | 528 |
| 12 | 27 | 9.3 | 542 | 1000 | 68 | 120 | 1240 | 304 | 1180 | 340 | 503 | 524 |
| 13 | 74 | 9.6 | 281 | 1000 | 69 | 111 | 1350 | 451 | 420 | 1010 | 462 | 419 |
| 14 | 105 | 18 | 222 | 1000 | 66 | 108 | 1220 | 302 | 135 | 728 | 475 | 441 |
| 15 | 51 | 80 | 198 | 1000 | 115 | 99 | 703 | 257 | 83 | 326 | 491 | 360 |
| 16 | 28 | 192 | 182 | 940 | 567 | 89 | 381 | 245 | 211 | 159 | 520 | 362 |
| 17 | 20 | 597 | 171 | 900 | 409 | 84 | 517 | 207 | 366 | 94 | 538 | 461 |
| 18 | 16 | 991 | 160 | 720 | 194 | 82 | 740 | 182 | 370 | 105 | 536 | 537 |
| 19 | 14 | 536 | 156 | 800 | 150 | 212 | 831 | 141 | 274 | 162 | 535 | 551 |
| 20 | 12 | 468 | 230 | 882 | 132 | 601 | 846 | 105 | 207 | 200 | 612 | 439 |
| 21 | 11 | 586 | 428 | 1160 | 360 | 353 | 840 | 100 | 204 | 229 | 1170 | 320 |
| 22 | 9.3 | 602 | 378 | 988 | 851 | 247 | 838 | 83 | 202 | 252 | 1300 | 439 |
| 23 | 8.3 | 599 | 432 | 414 | 1510 | 739 | 833 | 61 | 202 | 258 | 692 | 382 |
| 24 | 7.1 | 564 | 536 | 1010 | 1790 | 955 | 825 | 60 | 204 | 239 | 261 | 394 |
| 25 | 6.6 | 356 | 502 | 1100 | 2010 | 624 | 825 | 59 | 205 | 238 | 273 | 508 |
| 26 | 8.0 | 374 | 356 | 800 | 1700 | 322 | 833 | 58 | 199 | 1170 | 387 | 557 |
| 27 | 13 | 1010 | 208 | 450 | 1380 | 224 | 693 | 59 | 162 | 2180 | 428 | 556 |
| 28 | 18 | 797 | 160 | 250 | 818 | 188 | 563 | 61 | 63 | 2940 | 469 | 556 |
| 29 | 18 | 360 | 153 | 180 | --- | 168 | 539 | 58 | 119 | 2350 | 611 | 552 |
| 30 | 16 | 244 | 150 | 140 | --- | 165 | 523 | 56 | 155 | 1770 | 300 | 548 |
| 31 | 14 | --- | 453 | 120 | --- | 420 | --- | 72 | --- | 949 | 296 | --- |
| TOTAL | 674.3 | 8511.6 | 15435 | 24944 | 13059 | 11015 | 24817 | 7686 | 13771 | 18059 | 16305 | 14535 |
| MEAN | 21.8 | 284 | 498 | 805 | 466 | 355 | 827 | 248 | 459 | 583 | 526 | 485 |
| MAX | 105 | 1010 | 1600 | 1370 | 2010 | 1120 | 1350 | 865 | 3220 | 2940 | 1300 | 557 |
| MIN | 6.6 | 8.3 | 150 | 120 | 64 | 82 | 381 | 56 | 42 | 94 | 182 | 320 |
| CFSM | .08 | 1.08 | 1.90 | 3.07 | 1.78 | 1.36 | 3.16 | .95 | 1.75 | 2.23 | 2.01 | 1.85 |
| IN. | .10 | 1.21 | 2.19 | 3.54 | 1.85 | 1.56 | 3.52 | 1.09 | 1.96 | 2.56 | 2.32 | 2.06 |
| CAL YR 1978 | TOTAL | 100827.7 | MEAN | 276 | MAX | 1600 | MIN | 6.6 | CFSM | 1.05 | IN | 14.32 |
| WTR YR 1979 | TOTAL | 168811.9 | MEAN | 462 | MAX | 3220 | MIN | 6.6 | CFSM | 1.76 | IN | 23.97 |

03375800 HALL CREEK NEAR ST. ANTHONY, IN

LOCATION.--Lat 38°21'45", long 86°49'43", in NW¼NW¼ sec.11, T.2 S., R.4 W., Dubois County, Hydrologic Unit 05120209, on downstream side of right pier of bridge on County Road 125 South, 0.7 mile (1.1 km) upstream from Grassy Fork, 3.3 miles (5.3 km) north of St. Anthony, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--21.8 mi² (56.5 km²).

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

REVISED RECORDS.--WDR IN-75-1: 1971-74.

GAGE.--Water-stage recorder. Datum of gage is 459.22 ft (139.969 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

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

AVERAGE DISCHARGE.--9 years, 34.5 ft³/s (0.977 m³/s), 21.49 in/yr (546 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) July 26, 1979, gage height, 15.30 ft (4.663 m) from contracted-opening and flow-over-the road measurements at gage height of 15.30 ft (4.663 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 950 ft³/s (26.9 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Nov. 17 | 1500 | 1450 41.1 | 11.05 3.368 | Apr. 4 | 1100 | 1270 36.0 | 10.92 3.328 |
| Dec. 8 | 1700 | 1420 40.2 | 11.03 3.362 | Apr. 12 | 0700 | 1250 35.4 | 10.90 3.322 |
| Jan. 1 | 1400 | 1030 29.2 | 10.73 3.270 | June 8 | 1300 | 1110 31.4 | 10.99 3.350 |
| Feb. 23 | 1200 | 1720 48.7 | 11.22 3.420 | June 9 | 0800 | 2880 81.6 | 11.99 3.654 |
| Feb. 25 | 1600 | 1340 37.9 | 10.97 3.344 | July 26 | 1300 | *11500 326 | *15.30 4.663 |
| Apr. 2 | 0700 | 1380 39.1 | 11.00 3.353 | Aug. 28 | 1700 | 1720 48.7 | 11.47 3.496 |

Minimum daily discharge, 0.94 ft³/s (0.027 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|--------|------|--------|--------|--------|------|-------|--------|---------|--------|-------|
| 1 | 7.1 | 3.3 | 23 | 658 | 17 | 93 | 185 | 9.0 | 3.3 | 7.8 | 183 | 16 |
| 2 | 4.0 | 2.8 | 19 | 115 | 16 | 52 | 602 | 8.2 | 2.4 | 3.5 | 110 | 12 |
| 3 | 3.2 | 2.7 | 408 | 45 | 15 | 146 | 90 | 79 | 2.0 | 2.4 | 41 | 8.6 |
| 4 | 2.9 | 2.6 | 258 | 15 | 14 | 453 | 510 | 156 | 1.7 | 2.1 | 24 | 6.5 |
| 5 | 2.5 | 2.5 | 69 | 11 | 13 | 88 | 107 | 74 | 1.5 | 1.5 | 16 | 5.3 |
| 6 | 2.2 | 2.2 | 41 | 9.4 | 12 | 49 | 52 | 39 | 1.4 | 1.2 | 11 | 4.0 |
| 7 | 2.1 | 2.4 | 140 | 10 | 12 | 34 | 36 | 25 | 45 | 1.0 | 8.7 | 3.2 |
| 8 | 2.2 | 2.4 | 1110 | 9.0 | 12 | 30 | 62 | 17 | 364 | .94 | 6.6 | 2.5 |
| 9 | 2.9 | 2.2 | 274 | 5.9 | 11 | 25 | 242 | 13 | 1460 | 7.8 | 5.2 | 2.0 |
| 10 | 3.0 | 2.1 | 65 | 4.9 | 11 | 22 | 63 | 11 | 115 | 26 | 4.2 | 2.3 |
| 11 | 4.2 | 1.9 | 38 | 4.4 | 10 | 18 | 50 | 9.0 | 43 | 16 | 32 | 1.6 |
| 12 | 5.6 | 1.9 | 30 | 5.0 | 9.8 | 15 | 465 | 32 | 25 | 84 | 11 | 1.3 |
| 13 | 18 | 1.9 | 25 | 8.8 | 9.4 | 14 | 113 | 17 | 17 | 379 | 6.0 | 18 |
| 14 | 8.1 | 2.2 | 20 | 47 | 9.0 | 13 | 81 | 11 | 14 | 67 | 4.1 | 84 |
| 15 | 5.4 | 64 | 17 | 18 | 148 | 9.5 | 47 | 9.4 | 10 | 33 | 2.9 | 15 |
| 16 | 4.6 | 28 | 15 | 12 | 111 | 8.6 | 33 | 7.0 | 8.1 | 17 | 2.1 | 8.6 |
| 17 | 3.4 | 655 | 12 | 66 | 45 | 8.3 | 26 | 5.8 | 6.5 | 8.9 | 1.7 | 5.8 |
| 18 | 2.7 | 116 | 11 | 41 | 39 | 8.1 | 20 | 5.0 | 5.2 | 5.9 | 1.5 | 4.6 |
| 19 | 2.5 | 59 | 10 | 25 | 35 | 139 | 16 | 4.5 | 4.4 | 3.9 | 1.3 | 3.7 |
| 20 | 2.2 | 40 | 54 | 117 | 30 | 84 | 14 | 4.2 | 3.9 | 2.8 | 129 | 2.8 |
| 21 | 2.1 | 31 | 54 | 242 | 169 | 53 | 16 | 4.1 | 3.7 | 2.1 | 222 | 98 |
| 22 | 2.0 | 26 | 28 | 52 | 429 | 113 | 16 | 3.6 | 3.0 | 1.7 | 41 | 196 |
| 23 | 2.1 | 42 | 21 | 51 | 952 | 280 | 14 | 3.7 | 3.3 | 1.5 | 26 | 42 |
| 24 | 2.1 | 36 | 20 | 352 | 131 | 158 | 13 | 3.5 | 3.8 | 20 | 17 | 22 |
| 25 | 2.2 | 28 | 17 | 65 | 578 | 69 | 17 | 3.7 | 3.7 | 114 | 8.0 | 14 |
| 26 | 17 | 302 | 14 | 50 | 156 | 43 | 15 | 4.1 | 2.4 | 5110 | 17 | 9.7 |
| 27 | 8.7 | 237 | 12 | 38 | 79 | 34 | 13 | 4.5 | 2.1 | 907 | 36 | 7.9 |
| 28 | 5.6 | 71 | 12 | 32 | 63 | 29 | 16 | 4.2 | 1.9 | 296 | 451 | 6.9 |
| 29 | 4.3 | 41 | 10 | 26 | --- | 25 | 12 | 3.5 | 11 | 293 | 136 | 5.6 |
| 30 | 3.8 | 29 | 13 | 22 | --- | 28 | 10 | 3.5 | 42 | 181 | 46 | 4.8 |
| 31 | 3.5 | --- | 318 | 19 | --- | 371 | --- | 9.2 | --- | 65 | 26 | --- |
| TOTAL | 142.2 | 1838.1 | 3158 | 2176.4 | 3136.2 | 2512.5 | 2956 | 583.7 | 2210.3 | 7663.04 | 1627.3 | 614.7 |
| MEAN | 4.59 | 61.3 | 102 | 70.2 | 112 | 81.0 | 98.5 | 18.8 | 73.7 | 247 | 52.5 | 20.5 |
| MAX | 18 | 655 | 1110 | 658 | 952 | 453 | 602 | 156 | 1460 | 5110 | 451 | 196 |
| MIN | 2.0 | 1.9 | 10 | 4.4 | 9.0 | 8.1 | 10 | 3.5 | 1.4 | .94 | 1.3 | 1.3 |
| CFSM | .21 | 2.81 | 4.68 | 3.22 | 5.14 | 3.72 | 4.52 | .86 | 3.38 | 11.3 | 2.41 | .94 |
| IN. | .24 | 3.14 | 5.39 | 3.71 | 5.35 | 4.29 | 5.04 | 1.00 | 3.77 | 13.08 | 2.78 | 1.05 |

CAL YR 1978 TOTAL 13535.34 MEAN 37.1 MAX 1110 MIN .10 CFSM 1.70 IN 23.10
WTR YR 1979 TOTAL 28618.44 MEAN 78.4 MAX 5110 MIN .94 CFSM 3.60 IN 48.83

03376260 FLAT CREEK NEAR OTWELL, IN

LOCATION.--Lat 38°26'12", long 87°07'52", in SE¼SE¼ sec.12, T.1 S., R.7 W., Pike County, Hydrologic Unit 05120209, on right bank at upstream side of bridge on State Highway 56, 2.2 miles (3.5 km) west of intersection of State Highways 56 and 257, 2.5 miles (4.0 km) southeast of Otwell, 6.2 miles (10.0 km) east of intersection of State Highways 56 and 61, and at mile 10.9 (17.5 km).

DRAINAGE AREA.--21.3 mi² (55.2 km²).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 448.00 ft (136.550 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--15 years, 22.9 ft³/s (0.649 m³/s), 14.60 in/yr (371 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft³/s (47.6 m³/s) May 12, 1978, gage height, 12.34 ft (3.761 m); no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 12.58 ft (3.834 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 31 | 2000 | 912 25.8 | 11.81 3.600 | June 9 | 0300 | 1100 31.2 | 12.31 3.752 |
| Jan. 24 | 0500 | 821 23.3 | 11.60 3.536 | July 26 | 1500 | *1100 31.2 | *12.31 3.752 |
| Feb. 23 | 0900 | 930 26.3 | 11.97 3.648 | | | | |

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|--------|--------|--------|------|------|-------|--------|--------|-------|-------|
| 1 | .14 | 1.9 | 4.5 | 365 | 18 | 272 | 122 | 9.0 | 6.7 | 9.2 | 133 | 6.5 |
| 2 | .14 | 1.7 | 3.8 | 85 | 16 | 106 | 295 | 9.9 | 5.2 | 6.5 | 74 | 12 |
| 3 | .66 | 1.5 | 166 | 45 | 14 | 153 | 65 | 58 | 5.0 | 5.2 | 36 | 11 |
| 4 | .66 | 1.4 | 111 | 33 | 12 | 438 | 286 | 178 | 5.3 | 5.0 | 24 | 9.0 |
| 5 | .66 | 1.3 | 28 | 24 | 11 | 85 | 78 | 60 | 4.5 | 4.3 | 21 | 4.9 |
| 6 | .47 | 1.2 | 16 | 18 | 10 | 52 | 34 | 28 | 3.9 | 4.0 | 22 | 3.4 |
| 7 | .28 | 1.7 | 111 | 16 | 9.4 | 32 | 24 | 19 | 28 | 3.6 | 34 | 2.7 |
| 8 | .19 | 1.8 | 425 | 14 | 8.7 | 40 | 67 | 13 | 379 | 13 | 14 | 2.1 |
| 9 | .11 | 1.6 | 113 | 11 | 8.1 | 32 | 128 | 10 | 741 | 103 | 12 | 2.1 |
| 10 | .04 | 1.4 | 48 | 9.1 | 7.4 | 28 | 39 | 8.8 | 92 | 21 | 11 | 2.6 |
| 11 | .01 | 1.3 | 29 | 7.8 | 7.0 | 21 | 60 | 11 | 39 | 12 | 53 | 2.2 |
| 12 | .07 | 1.2 | 16 | 7.0 | 6.6 | 21 | 336 | 179 | 22 | 327 | 27 | 1.7 |
| 13 | 24 | 1.2 | 13 | 8.6 | 6.3 | 19 | 71 | 55 | 16 | 313 | 15 | 1.8 |
| 14 | 2.2 | 1.5 | 9.7 | 12 | 6.0 | 17 | 44 | 24 | 11 | 152 | 9.7 | 7.4 |
| 15 | 1.5 | 5.0 | 8.4 | 15 | 18 | 13 | 29 | 14 | 9.0 | 113 | 7.2 | 2.7 |
| 16 | 1.9 | 3.7 | 8.6 | 12 | 64 | 13 | 23 | 10 | 8.0 | 41 | 5.7 | 2.0 |
| 17 | 1.7 | 66 | 8.6 | 17 | 54 | 13 | 18 | 9.0 | 8.6 | 22 | 5.2 | 2.1 |
| 18 | 1.2 | 18 | 9.0 | 25 | 31 | 14 | 15 | 8.0 | 8.4 | 15 | 5.3 | 2.0 |
| 19 | 1.1 | 8.6 | 8.0 | 18 | 20 | 72 | 13 | 7.4 | 6.0 | 10 | 6.7 | 1.7 |
| 20 | .95 | 6.2 | 34 | 161 | 13 | 45 | 13 | 7.2 | 5.5 | 8.0 | 8.0 | 1.5 |
| 21 | .90 | 4.0 | 35 | 206 | 54 | 36 | 11 | 8.0 | 4.6 | 7.2 | 82 | 5.0 |
| 22 | .90 | 3.0 | 14 | 56 | 247 | 37 | 12 | 6.7 | 4.2 | 5.8 | 37 | 9.9 |
| 23 | .95 | 3.3 | 9.7 | 73 | 572 | 182 | 13 | 6.2 | 4.3 | 6.7 | 16 | 4.0 |
| 24 | 1.7 | 4.0 | 13 | 443 | 134 | 88 | 13 | 5.8 | 5.8 | 18 | 15 | 2.9 |
| 25 | 1.7 | 2.9 | 12 | 86 | 438 | 37 | 22 | 5.8 | 6.0 | 44 | 6.7 | 2.6 |
| 26 | 1.7 | 54 | 9.2 | 64 | 123 | 24 | 17 | 6.0 | 4.6 | 726 | 87 | 2.1 |
| 27 | 1.6 | 60 | 6.8 | 47 | 85 | 19 | 14 | 7.6 | 4.1 | 881 | 40 | 2.0 |
| 28 | 1.7 | 16 | 6.0 | 38 | 100 | 18 | 16 | 8.0 | 4.3 | 309 | 51 | 2.1 |
| 29 | 1.5 | 8.4 | 5.0 | 31 | --- | 16 | 13 | 7.6 | 47 | 125 | 44 | 2.2 |
| 30 | 1.5 | 6.0 | 6.2 | 25 | --- | 39 | 11 | 6.2 | 16 | 69 | 20 | 2.2 |
| 31 | 2.1 | --- | 453 | 21 | --- | 237 | --- | 9.0 | --- | 43 | 11 | --- |
| TOTAL | 54.23 | 289.8 | 1740.5 | 1993.5 | 2093.5 | 2219 | 1902 | 795.2 | 1505.0 | 3422.5 | 933.5 | 116.4 |
| MEAN | 1.75 | 9.66 | 56.1 | 64.3 | 74.8 | 71.6 | 63.4 | 25.7 | 50.2 | 110 | 30.1 | 3.88 |
| MAX | 24 | 66 | 453 | 443 | 572 | 438 | 336 | 179 | 741 | 881 | 133 | 12 |
| MIN | .01 | 1.2 | 3.8 | 7.0 | 6.0 | 13 | 11 | 5.8 | 3.9 | 3.6 | 5.2 | 1.5 |
| CFSM | .08 | .45 | 2.63 | 3.02 | 3.51 | 3.36 | 2.98 | 1.21 | 2.36 | 5.16 | 1.41 | .18 |
| IN. | .09 | .51 | 3.04 | 3.48 | 3.66 | 3.88 | 3.32 | 1.39 | 2.63 | 5.98 | 1.63 | .20 |
| CAL YR 1978 | TOTAL | 8508.48 | MEAN | 23.3 | MAX | 943 | MIN | .01 | CFSM | 1.09 | IN | 14.86 |
| WTR YR 1979 | TOTAL | 17079.43 | MEAN | 46.8 | MAX | 881 | MIN | .01 | CFSM | 2.20 | IN | 29.83 |

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

LOCATION.--Lat 38°17'50", long 87°15'39", in SE¼NE¼ sec.35, T.2 S., R.8 W., Pike County, Hydrologic Unit 05120209, on right bank at downstream side of bridge on State Highway 61, 0.5 mile (0.8 km) north of Enos Corner, 3.1 miles (5.0 km) north of Spurgeon, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--42.8 mi² (110.9 km²).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-75-1: 1965-74(P).

GAGE.--Water-stage recorder. Datum of gage is 420.88 ft (128.284 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Regulation by coal-washing operation and strip-mining above gage.

AVERAGE DISCHARGE.--15 years, 51.1 ft³/s (1.447 m³/s), 16.21 in/yr (412 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,900 ft³/s (167 m³/s) June 9, 1979, gage height, 15.07 ft (4.593 m) from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of contracted-opening and flow over-the-road measurements at gage height of 15.07 ft (4.593 m); no flow Jan. 20-31, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 13.09 ft (3.99 m), from floodmarks, discharge, 4,000 ft³/s (113 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.32 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 24 | 0400 | 1590 45.0 | 10.50 3.200 | June 9 | 1100 | *5900 167 | *15.07 4.593 |
| Feb. 23 | 1000 | 2700 76.5 | 12.05 3.673 | July 13 | 0400 | 1250 35.4 | 9.76 2.975 |
| Feb. 25 | 1300 | 1370 38.8 | 10.04 3.060 | July 27 | 0200 | 3850 109 | 13.32 4.060 |
| Mar. 4 | 0700 | 1010 28.6 | 8.81 2.685 | Aug. 1 | 1500 | 1120 31.7 | 9.34 2.847 |
| Apr. 2 | 0400 | 1180 33.4 | 9.45 2.880 | Aug. 21 | 0200 | 1060 30.0 | 9.15 2.789 |
| Apr. 12 | 0400 | 1140 32.3 | 9.31 2.838 | Aug. 26 | 0700 | 1060 30.0 | 9.12 2.780 |

Minimum daily discharge, 3.5 ft³/s (0.099 m³/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1 | 9.9 | 3.8 | 12 | 353 | 50 | 273 | 256 | 52 | 30 | 135 | 453 | 52 |
| 2 | 5.5 | 3.5 | 11 | 114 | 43 | 135 | 513 | 59 | 25 | 75 | 212 | 51 |
| 3 | 7.2 | 3.9 | 210 | 91 | 38 | 201 | 155 | 238 | 25 | 70 | 135 | 42 |
| 4 | 6.9 | 4.3 | 149 | 71 | 34 | 494 | 378 | 327 | 22 | 66 | 107 | 39 |
| 5 | 5.8 | 4.9 | 41 | 59 | 30 | 172 | 172 | 151 | 20 | 55 | 93 | 36 |
| 6 | 5.4 | 6.1 | 24 | 48 | 28 | 122 | 110 | 94 | 19 | 53 | 83 | 33 |
| 7 | 4.4 | 5.9 | 140 | 40 | 25 | 100 | 95 | 75 | 100 | 50 | 75 | 31 |
| 8 | 4.1 | 5.6 | 633 | 33 | 24 | 132 | 147 | 60 | 90 | 110 | 68 | 28 |
| 9 | 4.0 | 6.2 | 182 | 28 | 22 | 100 | 328 | 48 | 3640 | 204 | 62 | 25 |
| 10 | 5.3 | 7.5 | 67 | 25 | 20 | 86 | 128 | 45 | 508 | 77 | 61 | 27 |
| 11 | 8.7 | 5.3 | 45 | 23 | 19 | 77 | 158 | 60 | 229 | 59 | 344 | 31 |
| 12 | 6.9 | 4.1 | 67 | 29 | 18 | 70 | 490 | 306 | 181 | 340 | 108 | 29 |
| 13 | 30 | 5.4 | 35 | 37 | 17 | 69 | 178 | 130 | 156 | 527 | 73 | 46 |
| 14 | 8.1 | 6.7 | 30 | 45 | 16 | 67 | 143 | 77 | 140 | 235 | 61 | 66 |
| 15 | 5.8 | 42 | 27 | 35 | 106 | 57 | 107 | 58 | 125 | 296 | 55 | 32 |
| 16 | 5.3 | 17 | 28 | 45 | 141 | 51 | 90 | 47 | 123 | 99 | 49 | 29 |
| 17 | 4.4 | 150 | 27 | 70 | 106 | 47 | 78 | 42 | 113 | 67 | 44 | 29 |
| 18 | 4.3 | 32 | 26 | 60 | 105 | 49 | 70 | 39 | 104 | 54 | 46 | 27 |
| 19 | 7.4 | 17 | 26 | 56 | 50 | 135 | 66 | 38 | 94 | 47 | 44 | 27 |
| 20 | 7.1 | 12 | 53 | 291 | 36 | 109 | 61 | 44 | 92 | 45 | 62 | 27 |
| 21 | 6.4 | 8.9 | 58 | 356 | 273 | 87 | 89 | 40 | 95 | 41 | 403 | 117 |
| 22 | 6.0 | 7.4 | 30 | 150 | 355 | 102 | 86 | 34 | 89 | 38 | 113 | 105 |
| 23 | 5.1 | 14 | 25 | 142 | 1100 | 336 | 74 | 34 | 89 | 41 | 86 | 43 |
| 24 | 8.2 | 11 | 28 | 693 | 223 | 191 | 72 | 32 | 97 | 123 | 157 | 34 |
| 25 | 9.1 | 8.2 | 27 | 272 | 632 | 105 | 153 | 26 | 84 | 170 | 65 | 31 |
| 26 | 14 | 125 | 23 | 200 | 246 | 80 | 94 | 25 | 77 | 1420 | 422 | 29 |
| 27 | 8.7 | 102 | 20 | 150 | 183 | 70 | 76 | 28 | 71 | 1770 | 121 | 28 |
| 28 | 7.1 | 29 | 19 | 110 | 201 | 63 | 79 | 27 | 69 | 1760 | 117 | 27 |
| 29 | 7.2 | 19 | 17 | 84 | --- | 68 | 62 | 25 | 134 | 318 | 89 | 27 |
| 30 | 6.4 | 14 | 19 | 68 | --- | 125 | 55 | 22 | 158 | 227 | 66 | 28 |
| 31 | 4.9 | --- | 352 | 58 | --- | 449 | --- | 31 | --- | 197 | 54 | --- |
| TOTAL | 229.6 | 681.7 | 2451 | 3836 | 4141 | 4222 | 4563 | 2314 | 6799 | 8769 | 3928 | 1176 |
| MEAN | 7.41 | 22.7 | 79.1 | 124 | 148 | 136 | 152 | 74.6 | 227 | 283 | 127 | 39.2 |
| MAX | 30 | 150 | 633 | 693 | 1100 | 494 | 513 | 327 | 3640 | 1770 | 453 | 117 |
| MIN | 4.0 | 3.5 | 11 | 23 | 16 | 47 | 55 | 22 | 19 | 38 | 44 | 25 |
| CFSM | .17 | .53 | 1.85 | 2.90 | 3.46 | 3.18 | 3.55 | 1.74 | 5.30 | 6.61 | 2.97 | .92 |
| IN. | .20 | .59 | 2.13 | 3.33 | 3.60 | 3.67 | 3.97 | 2.01 | 5.91 | 7.62 | 3.41 | 1.02 |

CAL YR 1978 TOTAL 15154.2 MEAN 41.5 MAX 995 MIN 3.5 CFSM .97 IN 13.17
WTR YR 1979 TOTAL 43110.3 MEAN 118 MAX 3640 MIN 3.5 CFSM 2.76 IN 37.47

WABASH RIVER BASIN

03376500 PATOKA RIVER NEAR PRINCETON, IN

LOCATION.--Lat 38°23'30", long 87°32'55", in Location 107, T.1 S., R.10 W., Gibson County, Hydrologic Unit 05120209, on left bank 75 ft (23 m) upstream from dam of Princeton Water and Lighting Co., 0.1 mile (0.2 km) downstream from bridge on State Highway 65, 0.6 mile (1.0 km) downstream from Indian Creek, 2 miles (3 km) northeast of Princeton, and at mile 21.5 (34.6 km).

DRAINAGE AREA.--822 mi² (2,129 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1934 to current year. Published as "at Patoka" August 1934 to September 1940. Records published for both sites October 1939 to September 1940 (monthly discharge only at present site, for October, November 1939, published in WSP 1305).

REVISED RECORDS.--WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1949(M), 1940-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.14 ft (120.134 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). See WSP 1725 for history of changes prior to Jan. 21, 1941.

REMARKS.--Records good except those for winter periods and period of no gage-height record, May 29 to June 29, which are fair. Flow regulated by Patoka Lake (See sta 03374498).

AVERAGE DISCHARGE.--45 years, 1,012 ft³/s (28.66 m³/s), 16.72 in/yr (425 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 26, 1937, gage height, 26.80 ft (8.169 m), site and datum then in use; no flow Aug. 29 to Sept. 12, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,530 ft³/s (270 m³/s) Aug. 2, gage height, 19.57 ft (5.965 m); minimum daily, 32 ft³/s (0.91 m³/s) Oct. 11.

NOTE.--No gage-height record May 29 to June 29.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: November 1963 to April 1975, October 1977 to current year (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|--------|-------|
| 1 | 35 | 82 | 1280 | 1750 | 2500 | 7210 | 2550 | 1820 | 210 | 688 | 9050 | 2270 |
| 2 | 41 | 67 | 1290 | 1730 | 2390 | 7570 | 2870 | 1680 | 250 | 766 | 9450 | 2160 |
| 3 | 88 | 58 | 1440 | 1820 | 2260 | 7580 | 2950 | 1600 | 230 | 687 | 9440 | 2040 |
| 4 | 125 | 55 | 1540 | 1900 | 2100 | 7880 | 3150 | 1750 | 220 | 565 | 9010 | 1920 |
| 5 | 87 | 51 | 1570 | 1960 | 1900 | 7400 | 3340 | 1790 | 210 | 420 | 8220 | 1800 |
| 6 | 55 | 44 | 1610 | 2070 | 1500 | 6630 | 3370 | 1820 | 210 | 374 | 7260 | 1670 |
| 7 | 48 | 41 | 1730 | 2140 | 1230 | 5820 | 3410 | 1850 | 250 | 354 | 6110 | 1530 |
| 8 | 42 | 41 | 2090 | 2250 | 1000 | 5050 | 3640 | 1860 | 600 | 334 | 4990 | 1340 |
| 9 | 38 | 39 | 2240 | 2420 | 840 | 4540 | 4100 | 1840 | 1500 | 644 | 4250 | 1140 |
| 10 | 34 | 38 | 2360 | 2560 | 700 | 4190 | 4250 | 1790 | 3000 | 744 | 3750 | 996 |
| 11 | 32 | 40 | 2480 | 2600 | 590 | 3830 | 4360 | 1740 | 5500 | 724 | 3390 | 899 |
| 12 | 40 | 40 | 2600 | 2530 | 508 | 3580 | 4940 | 1720 | 7500 | 782 | 3140 | 830 |
| 13 | 112 | 39 | 2700 | 2370 | 458 | 3320 | 4710 | 1710 | 7800 | 1300 | 2910 | 776 |
| 14 | 142 | 38 | 2820 | 2240 | 407 | 3030 | 4450 | 1690 | 7600 | 1490 | 2640 | 765 |
| 15 | 178 | 48 | 2970 | 2190 | 457 | 2760 | 4250 | 1680 | 7200 | 1760 | 2400 | 791 |
| 16 | 234 | 127 | 3100 | 2090 | 859 | 2510 | 4070 | 1630 | 6400 | 1930 | 2150 | 828 |
| 17 | 209 | 452 | 3140 | 2000 | 951 | 2220 | 3870 | 1530 | 5400 | 2060 | 1900 | 842 |
| 18 | 158 | 791 | 3150 | 1970 | 1060 | 1910 | 3730 | 1350 | 4500 | 2110 | 1670 | 803 |
| 19 | 101 | 875 | 3090 | 1930 | 1110 | 1640 | 3550 | 1100 | 3800 | 2090 | 1400 | 735 |
| 20 | 77 | 916 | 2980 | 2060 | 1160 | 1400 | 3380 | 874 | 3300 | 2020 | 1200 | 697 |
| 21 | 65 | 952 | 2790 | 2270 | 1450 | 1280 | 3190 | 715 | 2800 | 1900 | 2060 | 702 |
| 22 | 55 | 988 | 2580 | 2290 | 1820 | 1280 | 3020 | 595 | 2400 | 1690 | 2050 | 772 |
| 23 | 51 | 1020 | 2340 | 2350 | 2520 | 1550 | 2880 | 510 | 2100 | 1400 | 2170 | 854 |
| 24 | 41 | 1040 | 2130 | 2770 | 2660 | 1840 | 2740 | 429 | 1900 | 1100 | 2550 | 896 |
| 25 | 39 | 1070 | 1910 | 2810 | 3420 | 1900 | 2640 | 322 | 1700 | 1000 | 2550 | 926 |
| 26 | 40 | 1160 | 1700 | 2820 | 4030 | 1960 | 2490 | 233 | 1500 | 2060 | 2650 | 955 |
| 27 | 44 | 1230 | 1490 | 2800 | 4880 | 2000 | 2340 | 212 | 1300 | 3710 | 2690 | 975 |
| 28 | 47 | 1240 | 1290 | 2780 | 6010 | 2020 | 2220 | 211 | 1000 | 4340 | 2690 | 974 |
| 29 | 136 | 1260 | 1090 | 2740 | --- | 2020 | 2080 | 198 | 650 | 5600 | 2660 | 950 |
| 30 | 147 | 1280 | 907 | 2700 | --- | 2060 | 1950 | 198 | 617 | 6900 | 2540 | 901 |
| 31 | 112 | --- | 1310 | 2600 | --- | 2440 | --- | 198 | --- | 8160 | 2410 | --- |
| TOTAL | 2653 | 15122 | 65717 | 71510 | 50770 | 110420 | 100490 | 36645 | 81647 | 59702 | 121350 | 33737 |
| MEAN | 85.6 | 504 | 2120 | 2307 | 1813 | 3562 | 3350 | 1182 | 2722 | 1926 | 3915 | 1125 |
| MAX | 234 | 1280 | 3150 | 2820 | 6010 | 7880 | 4940 | 1860 | 7800 | 8160 | 9450 | 2270 |
| MIN | 32 | 38 | 907 | 1730 | 407 | 1280 | 1950 | 198 | 210 | 334 | 1200 | 697 |
| CFSM | .10 | .57 | 2.40 | 2.62 | 2.06 | 4.04 | 3.80 | 1.34 | 3.09 | 2.18 | 4.44 | 1.28 |
| IN. | .11 | .64 | 2.77 | 3.02 | 2.14 | 4.66 | 4.24 | 1.55 | 3.44 | 2.52 | 5.12 | 1.42 |
| CAL YR 1978 | TOTAL | 364280 | MEAN | 998 | MAX | 6550 | MIN | 32 | CFSM | 1.13 | IN | 15.36 |
| WTR YR 1979 | TOTAL | 749763 | MEAN | 2054 | MAX | 9450 | MIN | 32 | CFSM | 2.33 | IN | 31.62 |

03377500 WABASH RIVER AT MOUNT CARMEL, IL

LOCATION.--Lat 38°24'07", long 87°45'10", in SE¼NW¼ sec.28, T.1 S., R.12 W., Wabash County, Illinois. Hydrologic Unit 05120113, on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.2 mile (0.3 km) downstream from Patoka River, and at mile 94.4 (151.9 km).

DRAINAGE AREA.--28,635 mi² (74,165 km²).

PERIOD OF RECORD.--January 1908 to September 1913 (gage heights only), October 1927 to current year. Gage-height records collected in this vicinity November 1874 to December 1878, are contained in files of Louisville office of the Corps of Engineers and since June 1884, are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ind. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 369.46 ft (112.611 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1949, to Feb. 8, 1977, datum 2.00 ft (0.610 m) higher. See WSP 1725 for history of changes prior to Sept. 30, 1949.

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

AVERAGE DISCHARGE.--52 years, 27,150 ft³/s (768.9 m³/s), 12.87 in/yr (327 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 305,000 ft³/s (8,640 m³/s) May 25, 1943, maximum gage height, 30.62 ft (9.333 m) Feb. 5, 6, 1969, present datum; minimum daily discharge, 1,650 ft³/s (46.7 m³/s) Sept. 27, 28, 1941. 1874-78, 1884 to current year: Maximum discharge, 428,000 ft³/s (12,100 m³/s), from rating curve extended above 310,000 ft³/s (8,780 m³/s) Mar. 30, 1913, gage height, 33.0 ft (10.06 m), present site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 169,000 ft³/s (4,786 m³/s) Mar. 11, gage height, 29.06 ft (8.857 m); minimum daily, 5,640 ft³/s (159.7 m³/s) Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|----------|--------|---------|--------|---------|---------|--------|--------|---------|---------|--------|
| 1 | 6360 | 7510 | 19100 | 35000 | 25200 | 111000 | 65300 | 46600 | 17600 | 12000 | 107000 | 44300 |
| 2 | 6200 | 7410 | 18400 | 49000 | 22800 | 124000 | 69600 | 44500 | 18500 | 11600 | 119000 | 42100 |
| 3 | 6130 | 7310 | 17900 | 51000 | 21200 | 134000 | 72900 | 42900 | 18800 | 12000 | 127000 | 39500 |
| 4 | 6170 | 7200 | 21900 | 53000 | 20000 | 145000 | 75100 | 43200 | 18400 | 12200 | 132000 | 35900 |
| 5 | 6170 | 7140 | 26800 | 55000 | 19000 | 152000 | 76900 | 45000 | 17800 | 11200 | 136000 | 32500 |
| 6 | 6050 | 6990 | 30200 | 56000 | 18000 | 155000 | 78600 | 44600 | 16600 | 11400 | 139000 | 29100 |
| 7 | 5910 | 6770 | 31600 | 57000 | 16500 | 153000 | 79600 | 43600 | 15200 | 18500 | 140000 | 26400 |
| 8 | 5840 | 6700 | 36100 | 56000 | 15000 | 154000 | 79200 | 42400 | 16800 | 22000 | 135000 | 24200 |
| 9 | 5750 | 6590 | 44600 | 52000 | 14000 | 159000 | 78700 | 40400 | 23800 | 21400 | 124000 | 22500 |
| 10 | 5640 | 6370 | 48100 | 46700 | 13500 | 164000 | 77700 | 37900 | 33900 | 19900 | 109000 | 21100 |
| 11 | 5640 | 6260 | 49300 | 42500 | 12800 | 168000 | 77600 | 35100 | 38000 | 16700 | 94600 | 20000 |
| 12 | 5790 | 6180 | 49500 | 36900 | 12300 | 167000 | 81800 | 32800 | 35900 | 15300 | 82900 | 19100 |
| 13 | 6500 | 6250 | 49100 | 32000 | 12700 | 158000 | 86200 | 32600 | 31100 | 20900 | 70200 | 18400 |
| 14 | 10500 | 6350 | 47400 | 29000 | 12700 | 143000 | 90600 | 32900 | 27800 | 31600 | 56300 | 17900 |
| 15 | 15600 | 6480 | 45100 | 27000 | 12500 | 126000 | 94400 | 32700 | 25800 | 37900 | 41800 | 17500 |
| 16 | 18200 | 7720 | 42500 | 25000 | 13200 | 105000 | 99300 | 34100 | 24900 | 41900 | 33900 | 17300 |
| 17 | 17200 | 10600 | 39300 | 24000 | 14800 | 87000 | 105000 | 34800 | 24200 | 45100 | 31000 | 16800 |
| 18 | 16100 | 14900 | 34800 | 23000 | 15800 | 75300 | 109000 | 33000 | 23000 | 46000 | 28900 | 16800 |
| 19 | 15000 | 20500 | 30300 | 24000 | 15800 | 68000 | 110000 | 30200 | 21400 | 45700 | 26800 | 16400 |
| 20 | 13600 | 25400 | 27000 | 25000 | 15100 | 63700 | 108000 | 27500 | 19900 | 45400 | 27700 | 15400 |
| 21 | 12000 | 26100 | 25000 | 28000 | 15300 | 61100 | 102000 | 25300 | 18300 | 45900 | 40400 | 14900 |
| 22 | 10600 | 25400 | 24700 | 30600 | 21400 | 58900 | 90800 | 23700 | 17100 | 46500 | 48800 | 14500 |
| 23 | 9570 | 24500 | 25100 | 31800 | 38700 | 58600 | 76400 | 22200 | 16900 | 44300 | 53700 | 13900 |
| 24 | 9050 | 23400 | 25100 | 37300 | 58500 | 62600 | 63600 | 20900 | 16900 | 33400 | 57600 | 13600 |
| 25 | 8790 | 21500 | 24800 | 43900 | 71600 | 65100 | 55200 | 19700 | 16900 | 24400 | 58800 | 14200 |
| 26 | 8520 | 19600 | 23800 | 44700 | 82200 | 66400 | 51500 | 18700 | 17100 | 25800 | 59400 | 15000 |
| 27 | 8290 | 19400 | 22000 | 43600 | 91100 | 67000 | 49600 | 18300 | 16100 | 44300 | 58700 | 15200 |
| 28 | 8020 | 19800 | 20200 | 40900 | 99100 | 66600 | 48600 | 18200 | 14200 | 63100 | 54700 | 15100 |
| 29 | 7690 | 19300 | 18700 | 37000 | --- | 64900 | 48500 | 18500 | 12800 | 75900 | 50900 | 14600 |
| 30 | 7690 | 19300 | 17500 | 32800 | --- | 62500 | 48000 | 18300 | 12300 | 86600 | 49200 | 13600 |
| 31 | 7660 | --- | 19100 | 28700 | --- | 62700 | --- | 17800 | --- | 97300 | 47200 | --- |
| TOTAL | 282230 | 398930 | 955000 | 1198400 | 800800 | 3308400 | 2349700 | 978400 | 628000 | 1086200 | 2341500 | 637800 |
| MEAN | 9104 | 13300 | 30810 | 38660 | 28600 | 106700 | 78320 | 31560 | 20930 | 35040 | 75530 | 21260 |
| MAX | 18200 | 26100 | 49500 | 57000 | 99100 | 168000 | 110000 | 46600 | 38000 | 97300 | 140000 | 44300 |
| MIN | 5640 | 6180 | 17500 | 23000 | 12300 | 58600 | 48000 | 17800 | 12300 | 11200 | 26800 | 13600 |
| CFSM | .32 | .46 | 1.08 | 1.35 | 1.00 | 3.73 | 2.74 | 1.10 | .73 | 1.22 | 2.64 | .74 |
| IN. | .37 | .52 | 1.24 | 1.56 | 1.04 | 4.30 | 3.05 | 1.27 | .82 | 1.41 | 3.04 | .83 |
| CAL YR 1978 | TOTAL | 11360360 | MEAN | 31120 | MAX | 178000 | MIN | 5640 | CFSM | 1.09 | IN | 14.76 |
| WTR YR 1979 | TOTAL | 14965360 | MEAN | 41000 | MAX | 168000 | MIN | 5640 | CFSM | 1.43 | IN | 19.44 |

WABASH RIVER BASIN

03378000 BONPAS CREEK AT BROWNS, IL

LOCATION.--Lat 38°23'11", long 87°58'32", in NW¼SE¼ sec.33, T.1 S., R.14 W., Wabash County, Illinois, Hydrologic Unit 05120114, near center of span on downstream side of bridge on State Highway 15, 0.5 mi (0.8 km) north of Browns, and 0.7 mi (1.1 km) upstream from Southern Railway bridge, and at mile 14.6 (23.6).

DRAINAGE AREA.--228 mi² (591 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 372.92 ft (113.666 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mi (0.6 km) downstream at datum 2.0 ft (0.61 m) higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mi (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.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--39 years, 222 ft³/s (6.287 m³/s), 13.22 in/yr (336 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft³/s (212 m³/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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,420 ft³/s (125 m³/s) Feb. 25, gage height, 21.04 ft (6.413 m); no flow Oct. 6-12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1978 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-----------|-------|------|-------|-------|-------|--------|-------|----------|---------|--------|
| 1 | .04 | .57 | 19 | 2000 | 60 | 2870 | 1190 | 92 | 9.0 | 1.8 | 2040 | 9.7 |
| 2 | .03 | .53 | 13 | 400 | 60 | 2890 | 1770 | 70 | 7.2 | 1.5 | 1810 | 34 |
| 3 | .03 | .53 | 248 | 250 | 60 | 3200 | 1730 | 455 | 5.6 | 1.2 | 1540 | 15 |
| 4 | .01 | .57 | 728 | 170 | 55 | 4070 | 1610 | 887 | 4.8 | 1.1 | 1210 | 7.0 |
| 5 | .01 | .66 | 671 | 130 | 55 | 4110 | 1290 | 913 | 4.4 | .99 | 652 | 5.2 |
| 6 | .00 | .76 | 394 | 100 | 55 | 3580 | 818 | 758 | 4.8 | .87 | 305 | 4.3 |
| 7 | .00 | 2.2 | 334 | 90 | 50 | 2890 | 347 | 338 | 8.8 | .66 | 250 | 3.6 |
| 8 | .00 | 3.6 | 1110 | 80 | 50 | 2200 | 226 | 125 | 126 | .66 | 220 | 2.7 |
| 9 | .00 | 4.8 | 1280 | 75 | 50 | 1550 | 755 | 69 | 297 | .66 | 200 | 2.1 |
| 10 | .00 | 4.9 | 1200 | 70 | 45 | 963 | 794 | 51 | 194 | .66 | 235 | 1.9 |
| 11 | .00 | 4.3 | 1030 | 65 | 45 | 534 | 885 | 41 | 105 | .93 | 546 | 1.8 |
| 12 | .00 | 2.7 | 493 | 60 | 45 | 507 | 2120 | 65 | 36 | 6.4 | 739 | 1.7 |
| 13 | .23 | 1.5 | 266 | 60 | 43 | 486 | 2570 | 133 | 18 | 46 | 718 | 1.6 |
| 14 | 2.1 | 1.1 | 238 | 55 | 43 | 417 | 2490 | 102 | 12 | 131 | 262 | 1.6 |
| 15 | 25 | 3.1 | 153 | 55 | 43 | 323 | 1930 | 60 | 9.8 | 220 | 43 | 1.4 |
| 16 | 10 | 2.1 | 99 | 55 | 300 | 230 | 1260 | 37 | 7.6 | 128 | 19 | 1.3 |
| 17 | 3.0 | 102 | 71 | 50 | 100 | 147 | 524 | 27 | 6.1 | 29 | 13 | .96 |
| 18 | 1.0 | 194 | 56 | 50 | 80 | 97 | 220 | 22 | 5.2 | 10 | 9.9 | .90 |
| 19 | .53 | 135 | 49 | 50 | 70 | 208 | 179 | 19 | 4.5 | 5.8 | 7.9 | .80 |
| 20 | .44 | 48 | 89 | 50 | 60 | 366 | 165 | 17 | 3.9 | 3.8 | 6.2 | .74 |
| 21 | .40 | 14 | 498 | 50 | 493 | 406 | 139 | 15 | 7.0 | 2.6 | 202 | 1.6 |
| 22 | .40 | 6.2 | 361 | 60 | 1330 | 248 | 110 | 13 | 14 | 1.8 | 310 | 2.0 |
| 23 | .37 | 4.2 | 146 | 80 | 2780 | 883 | 76 | 12 | 7.9 | 3.6 | 78 | 1.8 |
| 24 | .34 | 3.0 | 148 | 100 | 3620 | 1630 | 643 | 11 | 5.2 | 22 | 125 | 1.7 |
| 25 | .34 | 2.9 | 317 | 100 | 4130 | 1790 | 929 | 9.7 | 4.0 | 301 | 34 | 1.6 |
| 26 | .34 | 95 | 208 | 90 | 3520 | 1630 | 971 | 8.8 | 3.2 | 883 | 23 | 1.2 |
| 27 | .29 | 333 | 93 | 90 | 3180 | 1160 | 882 | 10 | 2.4 | 1450 | 44 | .99 |
| 28 | .26 | 200 | 46 | 80 | 2760 | 523 | 583 | 15 | 1.9 | 1520 | 18 | .87 |
| 29 | .29 | 87 | 34 | 80 | --- | 224 | 278 | 20 | 2.6 | 1840 | 19 | .76 |
| 30 | .44 | 38 | 60 | 70 | --- | 598 | 146 | 16 | 2.2 | 2140 | 14 | .71 |
| 31 | .57 | --- | 1020 | 70 | --- | 986 | --- | 12 | --- | 2200 | 8.1 | --- |
| TOTAL | 46.46 | 1296.22 | 11472 | 4785 | 23182 | 41716 | 27630 | 4423.5 | 920.1 | 10955.03 | 11701.1 | 111.53 |
| MEAN | 1.50 | 43.2 | 370 | 154 | 828 | 1346 | 921 | 143 | 30.7 | 353 | 377 | 3.72 |
| MAX | 25 | 333 | 1280 | 2000 | 4130 | 4110 | 2570 | 913 | 297 | 2200 | 2040 | 34 |
| MIN | .00 | .53 | 13 | 50 | 43 | 97 | 76 | 8.8 | 1.9 | .66 | 6.2 | .71 |
| CFSM | .007 | .19 | 1.62 | .68 | 3.63 | 5.90 | 4.04 | .63 | .14 | 1.55 | 1.65 | .02 |
| IN. | .01 | .21 | 1.87 | .78 | 3.78 | 6.81 | 4.51 | .72 | .15 | 1.79 | 1.91 | .02 |
| CAL YR 1978 | TOTAL | 57219.77 | MEAN | 157 | MAX | 3830 | MIN | .00 | CFSM | .69 | IN | 9.34 |
| WTR YR 1979 | TOTAL | 138238.94 | MEAN | 379 | MAX | 4130 | MIN | .00 | CFSM | 1.66 | IN | 22.55 |

03378500 WABASH RIVER AT NEW HARMONY, IN
(National stream-quality accounting network station)

LOCATION.--Lat 38°07'55", long 87°56'25", in SE¼SE¼ sec.35, T.4 S., R.14 W., Posey County, Hydrologic Unit 05120113, at bridge on U.S. Highway 460 at New Harmony, at Indiana-Illinois State Line, and at mile 51.5 (82.9 km).

DRAINAGE AREA.--29,234 mi² (75,716 km²). Flood of March 1913 reached a stage of 27.7 ft (8.44 m). Flood of Jan. 31, 1937, reached a stage of 24.4 ft (7.44 m).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1974 to current year.
WATER TEMPERATURE: October 1974 to current year.
SEDIMENT DISCHARGE: October 1974 to current year.
WATER DISCHARGE: October 1938 to September 1947.

REMARKS.--Water discharge obtained from station Wabash River at Mount Carmel, Ill. (See sta 03377500).

EXTREMES FOR PERIOD OF RECORD.--

WATER DISCHARGE: Maximum, 339,000 ft³/s (9,600 m³/s) May 26, 1943, gage height, 23.84 ft (7.266 m); minimum daily discharge, 1,800 ft³/s (51.0 m³/s) Sept. 29, 30, 1941.
SPECIFIC CONDUCTANCE: Maximum conductance, 805 micromhos Feb. 15, 1977; minimum, 260 micromhos Mar. 17, 20, 22, 1978.
WATER TEMPERATURE: Maximum, 32.0°C June 28, 1978; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum conductance, 680 micromhos, Nov. 17-19; minimum 200 micromhos Mar. 3.
WATER TEMPERATURE: Maximum, 30.0°C Aug. 8-10; minimum, 1.0 °C Jan. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TEMPERATURE (DEG C) | TIME | STREAM-FLOW, INSTANTANEOUS (CFS) | TURBIDITY (NTU) | SPECIFIC CONDUCTANCE (MICRO- MHOS) | OXYGEN, DIS- SOLVED (MG/L) | PH (UNITS) | CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) | ALKA- LINITY (MG/L AS CACO3) | ACIDITY (MG/L AS CACO3) | NITRO- GEN, TOTAL (MG/L AS N) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) |
|-----------|------------------------|------|--|--------------------|---|-------------------------------------|---------------|---|--|----------------------------------|---|--|
| OCT 09... | 16.5 | 1430 | 5750 | 9.0 | 640 | 10.5 | 7.6 | -- | 200 | -- | 1.6 | .82 |
| NOV 08... | 12.0 | 1030 | 6700 | 15 | -- | 10.5 | 9.1 | -- | 230 | -- | 2.1 | .78 |
| DEC 13... | -- | 1200 | 49100 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 10... | 2.0 | 1330 | 46500 | 54 | 395 | 8.3 | 8.4 | -- | 130 | -- | 4.3 | .73 |
| FEB 08... | -- | 1230 | 16000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR 07... | 4.0 | 1400 | 153100 | 400 | 240 | -- | -- | -- | 73 | -- | 3.2 | .82 |
| APR 03... | 11.0 | 1130 | 73000 | 85 | 400 | 10.1 | 7.8 | -- | 110 | -- | 4.8 | 1.4 |
| MAY 02... | 14.5 | 1330 | 44400 | 50 | 530 | 10.1 | 7.6 | -- | 160 | -- | 4.7 | .45 |
| 21... | 20.8 | 1200 | 24930 | -- | 600 | 9.2 | 8.1 | -- | 170 | .0 | -- | -- |
| JUN 05... | 23.5 | 1200 | 17800 | 35 | 530 | 8.2 | 8.4 | 1.2 | 160 | -- | 2.7 | 1.1 |
| JUL 11... | 25.0 | 1300 | 16600 | 200 | 460 | 5.8 | 7.7 | -- | 130 | -- | 5.1 | 2.6 |
| AUG 02... | 25.0 | 1430 | 121000 | 50 | 270 | 4.9 | 7.3 | 8.1 | 83 | -- | 1.9 | .72 |
| SEP 07... | 25.0 | 1100 | 26500 | 45 | 575 | 8.3 | 7.7 | 7.4 | 190 | -- | 3.0 | .91 |

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHATE, TOTAL (MG/L AS P04) | PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) | PHOS- PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P) | PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) | CARBON, ORGANIC TOTAL (MG/L AS C) | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) |
|-------|--|---|--|---|--|---|---|--|---|--|---|--|
| OCT | | | | | | | | | | | | |
| 09... | .14 | .96 | .62 | -- | -- | -- | .10 | .01 | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 08... | .08 | .86 | 1.2 | -- | -- | -- | .12 | .03 | -- | -- | 4.4 | -- |
| DEC | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 10... | .16 | .89 | 3.4 | -- | -- | -- | .20 | .02 | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 07... | .28 | 1.1 | 2.1 | -- | -- | -- | .32 | .03 | -- | -- | 9.3 | -- |
| APR | | | | | | | | | | | | |
| 03... | .08 | 1.5 | 3.3 | -- | -- | -- | .30 | .06 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 02... | .03 | .48 | 4.2 | -- | .61 | -- | .20 | -- | -- | -- | 9.7 | -- |
| 21... | -- | -- | -- | 8.4 | -- | .11 | -- | .03 | 570 | .03 | -- | 6.3 |
| JUN | | | | | | | | | | | | |
| 05... | .02 | 1.1 | 1.6 | -- | .52 | -- | .17 | .01 | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 11... | .05 | 2.6 | 2.5 | -- | -- | -- | .62 | .04 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 02... | .05 | .77 | 1.1 | -- | -- | -- | .18 | .06 | -- | -- | 9.0 | -- |
| SEP | | | | | | | | | | | | |
| 07... | .08 | .99 | .09 | .87 | -- | -- | .19 | .06 | -- | -- | -- | -- |

| DATE | CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) | HARD- NESS (MG/L AS CACO3) | HARD- NESS, NONCAR- BONATE (MG/L CACO3) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | SODIUM AD- SORP- TION RATIO | SODIUM PERCENT | SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|-------|---|--|--|--|--|--|---|-------------------|--|---|---|---|
| OCT | | | | | | | | | | | | |
| 09... | -- | 290 | 85 | 68 | 28 | 24 | .6 | 15 | -- | 3.0 | 34 | 76 |
| NOV | | | | | | | | | | | | |
| 08... | -- | 290 | 59 | 73 | 26 | 22 | .6 | 14 | -- | 3.3 | 35 | 73 |
| DEC | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 10... | -- | 200 | 67 | 51 | 17 | 11 | .3 | 11 | -- | 3.5 | 22 | 47 |
| FEB | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 07... | -- | 110 | 33 | 29 | 8.2 | 7.7 | .3 | 13 | -- | 2.7 | 12 | 29 |
| APR | | | | | | | | | | | | |
| 03... | -- | 180 | 69 | 47 | 15 | 9.6 | .3 | 10 | -- | 3.5 | 18 | 48 |
| MAY | | | | | | | | | | | | |
| 02... | -- | 240 | 84 | 63 | 21 | 11 | .3 | 9 | -- | 2.4 | 21 | 63 |
| 21... | .4 | 270 | 100 | -- | 30 | 22 | .6 | 15 | -- | 2.0 | 48 | 47 |
| JUN | | | | | | | | | | | | |
| 05... | -- | 240 | 83 | 61 | 22 | 15 | .4 | 12 | 18 | 2.5 | 26 | 76 |
| JUL | | | | | | | | | | | | |
| 11... | -- | 200 | 74 | 52 | 18 | 14 | .4 | 13 | -- | 2.8 | 21 | 63 |
| AUG | | | | | | | | | | | | |
| 02... | -- | 110 | 27 | 31 | 8.0 | 5.3 | .2 | 9 | 8.4 | 3.1 | 7.9 | 32 |
| SEP | | | | | | | | | | | | |
| 07... | -- | 260 | 66 | 68 | 21 | 13 | .4 | 10 | 16 | 2.6 | 18 | 48 |

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible][illegible]

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible][illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | SELE- NIUM, TOTAL (UG/L AS SE) | SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G) | IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) | COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) | COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) | PHYTO- PLANK- TON, TOTAL (CELLS PER ML) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER DAY) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | ACIDITY TOTAL HEATED (MG/L AS H) |
|-----------|--|---|--|--|---|--|--|--|---|---|---|--|
| OCT 09... | -- | -- | -- | 12100 | K114 | K71 | 32000 | 363 | 355 | 5620 | .49 | -- |
| NOV 08... | 0 | -- | -- | 4560 | 143 | K60 | 36000 | 368 | 374 | 6660 | .50 | -- |
| DEC 13... | -- | -- | -- | K57500 | 1650 | K7400 | -- | -- | -- | -- | -- | -- |
| JAN 10... | -- | -- | -- | 3730 | 2700 | 1210 | -- | 285 | 236 | 35800 | .39 | -- |
| FEB 08... | -- | -- | -- | 1750 | K62 | K300 | -- | -- | -- | -- | -- | -- |
| MAR 07... | 0 | -- | -- | 13000 | K124 | 3000 | 140 | 180 | 139 | 74400 | .24 | -- |
| APR 03... | -- | -- | -- | 29000 | 2100 | K6800 | -- | 263 | 214 | 51800 | .36 | -- |
| MAY 02... | 0 | -- | -- | 18000 | 179 | 157 | 8100 | 321 | 284 | 38500 | .44 | -- |
| 21... | 1 | 0 | 19000 | -- | -- | -- | -- | 380 | 357 | 25600 | .52 | .0 |
| JUN 05... | -- | -- | -- | K667 | K52 | K71 | 33000 | 365 | 302 | 17500 | .50 | -- |
| JUL 11... | -- | -- | -- | K4700 | K1920 | 1940 | 1300 | 293 | 255 | 13100 | .40 | -- |
| AUG 02... | 0 | -- | -- | 12900 | 480 | 6600 | 13000 | 187 | 144 | 61100 | .25 | -- |
| SEP 07... | -- | -- | -- | 3400 | 400 | K114 | 33000 | 331 | 296 | 23700 | .45 | -- |

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) | NITRO- GEN, NITRATE TOTAL (MG/L AS NO3) | PHOS- PHORUS TOTAL (MG/L AS PO4) | NITRO- GEN, TOTAL (MG/L AS NO3) | MERCURY DIS- SOLVED (UG/L AS HG) | MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) | MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) | POTAS- SIUM 40 TOTAL (PCI/L) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|-----------|--|--|--|---|--|---|---|--|---------------------------------------|---|--|
| OCT 09... | -- | -- | -- | 7.0 | -- | -- | -- | -- | -- | 46 | 714 |
| NOV 08... | -- | -- | -- | 9.1 | <.5 | .0 | <.5 | -- | -- | -- | -- |
| DEC 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 10... | -- | -- | -- | 19 | -- | -- | -- | -- | -- | -- | -- |
| FEB 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR 07... | -- | -- | -- | 14 | <.5 | .0 | <.5 | -- | -- | -- | -- |
| APR 03... | -- | -- | -- | 21 | -- | -- | -- | -- | -- | -- | -- |
| MAY 02... | .04 | -- | .61 | 21 | <.5 | .0 | <.5 | -- | 1.8 | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | <.5 | .00 | 1.5 | -- | -- |
| JUN 05... | .02 | -- | .52 | 12 | -- | -- | -- | -- | 1.9 | -- | -- |
| JUL 11... | .06 | -- | 1.9 | 23 | -- | -- | -- | -- | 2.1 | -- | -- |
| AUG 02... | .06 | -- | .55 | 8.3 | <.5 | .0 | <.5 | -- | 2.3 | -- | -- |
| SEP 07... | .10 | 13 | .58 | -- | -- | -- | -- | -- | 1.9 | -- | -- |

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued
(National stream-quality accounting network station)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 600 | 660 | 530 | 335 | 460 | 260 | 420 | 515 | 525 | 580 | 320 | 380 |
| 2 | 600 | 615 | 510 | 335 | 480 | 270 | 395 | 515 | 525 | 580 | 235 | 425 |
| 3 | 600 | 645 | 530 | 305 | 505 | 200 | 395 | 525 | 525 | 580 | 260 | 435 |
| 4 | 620 | 645 | 540 | 345 | 525 | 230 | 395 | 525 | 525 | 580 | 260 | 445 |
| 5 | 615 | 650 | 510 | 345 | 550 | 260 | 410 | 515 | 525 | 580 | 260 | 465 |
| 6 | 615 | 660 | 510 | 345 | 515 | 290 | 410 | 515 | 525 | 580 | 270 | 465 |
| 7 | 615 | 615 | 425 | 345 | 580 | 270 | 420 | 505 | 525 | 580 | 280 | 465 |
| 8 | 615 | 645 | 395 | 345 | 605 | 270 | 420 | 505 | 525 | 580 | 295 | 465 |
| 9 | 615 | 660 | 415 | 345 | 605 | 280 | 420 | 505 | 525 | 480 | 305 | 465 |
| 10 | 615 | 660 | 425 | 375 | 505 | 280 | 420 | 505 | 505 | 480 | 325 | 465 |
| 11 | 615 | 670 | 405 | 420 | 525 | 280 | 410 | 505 | 350 | 480 | 330 | 465 |
| 12 | 605 | 670 | 405 | 430 | 550 | 280 | 385 | 505 | 375 | 480 | 350 | 465 |
| 13 | 425 | 625 | 400 | 370 | 630 | 300 | 360 | 505 | 395 | --- | 370 | 465 |
| 14 | 415 | 670 | 400 | --- | 630 | 280 | 330 | 505 | 420 | --- | 390 | 465 |
| 15 | 440 | 670 | 400 | --- | 640 | 265 | 310 | 490 | 440 | --- | 400 | 475 |
| 16 | 415 | 660 | 400 | --- | 640 | 385 | 280 | 470 | 450 | --- | 435 | 475 |
| 17 | 425 | 680 | 420 | --- | 630 | 430 | 310 | 430 | 460 | --- | 465 | 475 |
| 18 | 425 | 680 | 430 | --- | 580 | 460 | 330 | 490 | 460 | --- | 475 | 475 |
| 19 | 405 | 680 | 430 | --- | 525 | 460 | 340 | 490 | 480 | --- | 445 | 475 |
| 20 | 415 | 595 | 450 | --- | 580 | 340 | 345 | 490 | 490 | --- | 360 | 475 |
| 21 | 450 | 540 | 450 | 360 | 605 | 460 | 395 | 505 | 505 | --- | 340 | 475 |
| 22 | 415 | 530 | 450 | 450 | 580 | 460 | 420 | 515 | 525 | --- | 320 | 485 |
| 23 | 500 | 530 | 490 | 450 | 340 | 460 | 440 | 525 | 545 | --- | 330 | 485 |
| 24 | 500 | 540 | 480 | 325 | 310 | 450 | 460 | 535 | 555 | --- | 330 | 485 |
| 25 | 615 | 520 | 470 | 345 | 300 | 420 | 480 | 545 | 565 | --- | 340 | 485 |
| 26 | 595 | 510 | 470 | 345 | 270 | 410 | 490 | 555 | 580 | --- | 340 | 485 |
| 27 | 615 | 530 | 470 | 360 | 225 | 395 | 480 | 565 | 580 | --- | 340 | 485 |
| 28 | 615 | 540 | 470 | 410 | 240 | 410 | 480 | 580 | 580 | --- | 350 | 485 |
| 29 | 615 | 530 | 490 | 420 | --- | 430 | 480 | 580 | 580 | --- | 350 | 495 |
| 30 | 615 | 540 | 490 | 320 | --- | 450 | 490 | 550 | 580 | --- | 360 | 495 |
| 31 | 670 | --- | 400 | 440 | --- | 410 | --- | 550 | --- | --- | 360 | --- |
| MEAN | 545 | 612 | 454 | 369 | 505 | 350 | 404 | 517 | 505 | 547 | 342 | 468 |
| MAX | 670 | 680 | 540 | 450 | 640 | 460 | 490 | 580 | 580 | 580 | 475 | 495 |
| MIN | 405 | 510 | 395 | 305 | 225 | 200 | 280 | 430 | 350 | 480 | 235 | 380 |
| WTR YR 1979 | MEAN | 465 | MAX | 680 | MIN | 200 | | | | | | |

03378500 WABASH RIVER AT NEW HARMONY, IN--Continued
(National stream-quality accounting network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-----|------|-----|------|------|------|------|------|------|------|
| 1 | 22.0 | | --- | 4.0 | 2.0 | 4.0 | 13.0 | 16.0 | 24.0 | 28.0 | 27.0 | 26.0 |
| 2 | 21.0 | | --- | 4.0 | 2.0 | 5.0 | 13.0 | 17.0 | 24.0 | 28.0 | 27.0 | 26.0 |
| 3 | 21.0 | | --- | 3.0 | 2.0 | 7.0 | 13.0 | 18.0 | 24.0 | 28.0 | 27.0 | 26.0 |
| 4 | 20.0 | | --- | 2.0 | 3.0 | 6.0 | 12.0 | 17.0 | 25.0 | 28.0 | 28.0 | 27.0 |
| 5 | 20.0 | | --- | 2.0 | 3.0 | 6.0 | 13.0 | 15.0 | 26.0 | 27.0 | 28.0 | 27.0 |
| 6 | --- | | --- | 2.0 | 2.0 | 7.0 | 12.0 | 16.0 | 27.0 | 26.0 | 29.0 | 27.0 |
| 7 | --- | | --- | 2.0 | 2.0 | 8.0 | 13.0 | 17.0 | 27.0 | 26.0 | 29.0 | 27.0 |
| 8 | --- | | --- | 2.0 | 2.0 | 7.0 | 12.0 | 18.0 | 27.0 | 26.0 | 30.0 | 27.0 |
| 9 | --- | | --- | 2.0 | 2.0 | 8.0 | 12.0 | 20.0 | 27.0 | 27.0 | 30.0 | 26.0 |
| 10 | --- | | --- | 1.0 | 3.0 | 7.0 | 11.0 | 23.0 | 26.0 | 27.0 | 30.0 | 26.0 |
| 11 | --- | | --- | 2.0 | 3.0 | 5.0 | 12.0 | 22.0 | 25.0 | 27.0 | 29.0 | 26.0 |
| 12 | --- | | --- | 2.0 | 4.0 | 8.0 | 15.0 | 22.0 | 25.0 | 27.0 | 28.0 | 26.0 |
| 13 | --- | | --- | 2.0 | 4.0 | 7.0 | 15.0 | 22.0 | 25.0 | 27.0 | 27.0 | 26.0 |
| 14 | --- | | 5.0 | --- | 5.0 | 9.0 | 16.0 | 22.0 | 26.0 | --- | 26.0 | 26.0 |
| 15 | --- | | 4.0 | --- | 6.0 | 8.0 | 16.0 | 22.0 | 26.0 | --- | 25.0 | 25.0 |
| 16 | --- | | 4.0 | --- | 6.0 | 8.0 | 16.0 | 22.0 | 27.0 | --- | 25.0 | 25.0 |
| 17 | --- | | 5.0 | --- | 6.0 | 9.0 | 17.0 | 22.0 | 27.0 | --- | 25.0 | 24.0 |
| 18 | --- | | 5.0 | --- | 4.0 | 10.0 | 17.0 | 22.0 | 28.0 | --- | 25.0 | 24.0 |
| 19 | --- | | 5.0 | --- | 3.0 | 10.0 | 18.0 | 22.0 | 28.0 | --- | 25.0 | 24.0 |
| 20 | --- | | 8.0 | --- | 4.0 | 11.0 | 18.0 | 22.0 | 28.0 | --- | 25.0 | 24.0 |
| 21 | --- | | 7.0 | 4.0 | 5.0 | 11.0 | 18.0 | 22.0 | 28.0 | --- | 26.0 | 24.0 |
| 22 | --- | | 7.0 | 5.0 | 6.0 | 13.0 | 18.0 | 22.0 | 28.0 | --- | 26.0 | 23.0 |
| 23 | --- | | 7.0 | 5.0 | 8.0 | 13.0 | 18.0 | 22.0 | 27.0 | --- | 26.0 | 23.0 |
| 24 | --- | | 6.0 | 2.0 | 6.0 | 12.0 | 18.0 | 22.0 | 26.0 | --- | 26.0 | 23.0 |
| 25 | --- | | 5.0 | 3.0 | 5.0 | 10.0 | 17.0 | 22.0 | 25.0 | --- | 26.0 | 23.0 |
| 26 | --- | | 5.0 | 3.0 | 2.0 | 10.0 | 17.0 | 21.0 | 25.0 | --- | 26.0 | 23.0 |
| 27 | --- | | 4.0 | 3.0 | 4.0 | 10.0 | 16.0 | 20.0 | 25.0 | --- | 26.0 | 23.0 |
| 28 | --- | | 4.0 | 2.0 | 4.0 | 10.0 | 15.0 | 20.0 | 26.0 | --- | 26.0 | 23.0 |
| 29 | --- | | 6.0 | 2.0 | --- | 11.0 | 16.0 | 22.0 | 27.0 | --- | 26.0 | 23.0 |
| 30 | --- | | 6.0 | 2.0 | --- | 13.0 | 16.0 | 23.0 | 28.0 | --- | 26.0 | 23.0 |
| 31 | --- | | 5.0 | 3.0 | --- | 13.0 | --- | 23.0 | --- | --- | 26.0 | --- |
| MEAN | 21.0 | | 5.5 | 2.5 | 4.0 | 9.0 | 15.0 | 20.5 | 26.0 | 27.0 | 27.0 | 25.0 |
| MAX | 22.0 | | 8.0 | 5.0 | 8.0 | 13.0 | 18.0 | 23.0 | 28.0 | 28.0 | 30.0 | 27.0 |
| MIN | 20.0 | | 4.0 | 1.0 | 2.0 | 4.0 | 11.0 | 15.0 | 24.0 | 26.0 | 25.0 | 23.0 |
| WTR YR 1979 | MEAN | 16.5 | MAX | 30.0 | MIN | 1.0 | | | | | | |

WABASH RIVER BASIN

03378550 BIG CREEK NEAR WADESVILLE, IN

LOCATION.--Lat 38°04'58", long 87°46'10", in SW¼SW¼ sec.16, T.5 S., R.12 W., Posey County, Hydrologic Unit 05120113, on left bank at downstream side of bridge on State Highway 66, 0.6 mile (1.0 km) northwest of Blairsville, and 1.6 miles (2.6 km) southeast of Wadesville.

DRAINAGE AREA.--104 mi² (269 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 370.00 ft (112.776 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 114 ft³/s (3.228 m³/s), 14.89 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,610 ft³/s (216 m³/s) Apr. 24, 1975, gage height, 19.72 ft (6.011 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Dec. 31 | 2300 | 2460 69.7 | 17.82 5.432 | Mar. 4 | 1100 | 2600 73.6 | 17.91 5.459 |
| Jan. 24 | 0900 | 2810 79.6 | 18.04 5.499 | Mar. 31 | 1200 | 2500 70.8 | 17.85 5.441 |
| Feb. 23 | 1400 | 3110 88.1 | 18.22 5.553 | Aug. 28 | 0700 | 3080 87.2 | 18.20 5.547 |
| Feb. 25 | 1700 | *3620 103 | *18.49 5.636 | | | | |

Minimum daily discharge, 0.07 ft³/s (0.002 m³/s) Oct. 30, 31, Nov. 2-6, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|--------|--------|------|-------|-------|------|--------|--------|---------|--------|-------|
| 1 | .20 | .08 | 3.6 | 1610 | 42 | 1430 | 1100 | 44 | 25 | 11 | 183 | 33 |
| 2 | .26 | .07 | 3.0 | 311 | 36 | 492 | 1700 | 40 | 12 | 2.8 | 71 | 74 |
| 3 | .28 | .07 | 214 | 95 | 34 | 474 | 327 | 182 | 8.2 | 5.3 | 27 | 26 |
| 4 | .23 | .07 | 218 | 60 | 31 | 1930 | 741 | 561 | 7.2 | 3.1 | 17 | 17 |
| 5 | .21 | .07 | 43 | 41 | 29 | 536 | 347 | 376 | 6.3 | 1.7 | 13 | 12 |
| 6 | .18 | .07 | 21 | 35 | 28 | 183 | 169 | 155 | 5.7 | 1.2 | 9.9 | 9.6 |
| 7 | .16 | .08 | 144 | 32 | 25 | 142 | 122 | 99 | 44 | .78 | 7.9 | 7.4 |
| 8 | .14 | .08 | 1450 | 29 | 23 | 123 | 232 | 70 | 361 | .97 | 6.3 | 5.7 |
| 9 | .13 | .08 | 711 | 28 | 22 | 111 | 782 | 53 | 578 | 143 | 5.4 | 4.8 |
| 10 | .12 | .07 | 117 | 27 | 21 | 94 | 215 | 43 | 270 | 40 | 4.3 | 4.3 |
| 11 | .14 | .07 | 66 | 27 | 20 | 78 | 327 | 38 | 45 | 36 | 937 | 3.9 |
| 12 | .17 | .09 | 57 | 35 | 20 | 73 | 1550 | 195 | 27 | 304 | 210 | 3.5 |
| 13 | 5.5 | .09 | 59 | 41 | 19 | 71 | 322 | 245 | 19 | 444 | 33 | 4.2 |
| 14 | 4.5 | .13 | 50 | 53 | 19 | 68 | 182 | 82 | 15 | 426 | 19 | 8.1 |
| 15 | .96 | 11 | 44 | 40 | 100 | 54 | 110 | 56 | 12 | 441 | 11 | 4.0 |
| 16 | .47 | 24 | 37 | 38 | 422 | 50 | 80 | 41 | 10 | 109 | 8.2 | 3.0 |
| 17 | .46 | 215 | 29 | 96 | 96 | 50 | 66 | 34 | 8.9 | 30 | 6.4 | 2.6 |
| 18 | .34 | 53 | 27 | 82 | 64 | 49 | 53 | 29 | 7.6 | 16 | 5.3 | 2.3 |
| 19 | .20 | 6.1 | 28 | 170 | 50 | 432 | 47 | 26 | 6.3 | 11 | 4.5 | 2.2 |
| 20 | .17 | 2.5 | 35 | 421 | 44 | 340 | 42 | 25 | 5.4 | 7.8 | 5.1 | 2.0 |
| 21 | .14 | 1.6 | 102 | 764 | 624 | 362 | 47 | 23 | 5.6 | 5.9 | 386 | 14 |
| 22 | .10 | 1.2 | 51 | 173 | 840 | 180 | 105 | 20 | 5.8 | 4.8 | 79 | 43 |
| 23 | .09 | 1.3 | 38 | 175 | 2620 | 880 | 96 | 19 | 4.5 | 29 | 20 | 13 |
| 24 | .09 | 1.3 | 38 | 2070 | 1210 | 667 | 92 | 18 | 4.9 | 37 | 74 | 5.9 |
| 25 | .09 | 1.1 | 36 | 300 | 2660 | 198 | 254 | 15 | 6.1 | 62 | 17 | 4.5 |
| 26 | .11 | 84 | 28 | 120 | 1440 | 135 | 147 | 13 | 4.1 | 1140 | 13 | 3.6 |
| 27 | .09 | 189 | 20 | 90 | 374 | 110 | 95 | 13 | 3.0 | 298 | 392 | 3.2 |
| 28 | .08 | 22 | 19 | 74 | 448 | 102 | 94 | 12 | 2.7 | 437 | 2380 | 3.1 |
| 29 | .08 | 8.9 | 19 | 64 | --- | 92 | 68 | 11 | 20 | 177 | 518 | 3.0 |
| 30 | .07 | 5.2 | 20 | 55 | --- | 180 | 55 | 9.3 | 33 | 58 | 82 | 3.2 |
| 31 | .07 | --- | 847 | 46 | --- | 1980 | --- | 20 | --- | 96 | 42 | --- |
| TOTAL | 15.83 | 628.32 | 4574.6 | 7202 | 11361 | 11666 | 9567 | 2567.3 | 1563.3 | 4379.35 | 5587.3 | 326.1 |
| MEAN | .51 | 20.9 | 148 | 232 | 406 | 376 | 319 | 82.8 | 52.1 | 141 | 180 | 10.9 |
| MAX | 5.5 | 215 | 1450 | 2070 | 2660 | 1980 | 1700 | 561 | 578 | 1140 | 2380 | 74 |
| MIN | .07 | .07 | 3.0 | 27 | 19 | 49 | 42 | 9.3 | 2.7 | .78 | 4.3 | 2.0 |
| CFSM | .005 | .20 | 1.42 | 2.23 | 3.90 | 3.62 | 3.07 | .80 | .50 | 1.36 | 1.73 | .11 |
| IN. | .01 | .22 | 1.64 | 2.58 | 4.06 | 4.17 | 3.42 | .92 | .56 | 1.57 | 2.00 | .12 |

| CAL YR 1978 | TOTAL | 36158.51 | MEAN | 99.1 | MAX | 3300 | MIN | .02 | CFSM | .95 | IN | 12.93 |
|-------------|-------|----------|------|------|-----|------|-----|-----|------|------|----|-------|
| WTR YR 1979 | TOTAL | 59438.10 | MEAN | 163 | MAX | 2660 | MIN | .07 | CFSM | 1.57 | IN | 21.26 |

03378550 BIG CREEK NEAR WADESVILLE, IN--Continued

WATER-DISCHARGE RECORDS--Continued

REVISIONS.--Revised daily discharges, in cubic feet per second, for 1977 water year are given below. These figures supersede those published in WRD for Indiana 1977.

| | | | | | |
|--------------|-----|--------------|-----|--------------|------|
| July 19..... | 3.9 | July 29..... | 425 | Aug. 7..... | 0.2 |
| July 20..... | 2.9 | July 30..... | 230 | Aug. 8..... | .982 |
| July 21..... | 30 | July 31..... | 25 | Aug. 9..... | .889 |
| July 22..... | 178 | Aug. 1..... | 9.9 | Aug. 10..... | .493 |
| July 23..... | 16 | Aug. 2..... | 4.8 | Aug. 11..... | .108 |
| July 24..... | 24 | Aug. 3..... | 2.5 | Aug. 12..... | .370 |
| July 25..... | 99 | Aug. 4..... | 1.4 | Aug. 13..... | .460 |
| July 26..... | 50 | Aug. 5..... | 0.6 | Aug. 14..... | .842 |
| July 27..... | 7.8 | Aug. 6..... | 0.4 | Aug. 15..... | .200 |
| July 28..... | 4.0 | | | | |

| Month | Total | Mean | Max | Min | CFSM | In. |
|-------------|----------|------|------|-----|------|-------|
| July 1977 | 1947.7 | 62.8 | 425 | 2.9 | .60 | .69 |
| August 1977 | 10563.8 | 341 | 3300 | .2 | 3.28 | 3.78 |
| Cal Yr 1977 | 49903.00 | 137 | 3600 | .00 | 1.32 | 17.85 |
| Wtr Yr 1977 | 35553.77 | 97.4 | 3600 | .00 | .94 | 12.70 |

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|--------------|------|-----------------------------|---|---|--|
| DEC 19... | 1420 | 4.5 | 27 | 11 | .80 |
| FEB 06... | 1205 | .5 | 29 | 20 | 1.5 |
| 24... | 1200 | -- | 982 | 939 | 2490 |
| MAR 07... | 1520 | 7.0 | 139 | 342 | 128 |
| JUL 28... | 1100 | -- | 292 | 2240 | 1770 |
| AUG 15... | 1030 | -- | 12 | 46 | 1.5 |
| SEP 25... | 1200 | -- | 4.3 | 79 | .92 |

WABASH RIVER BASIN

03381500 LITTLE WABASH RIVER AT CARMI, IL
(National stream-quality accounting network station)

LOCATION.--Lat 38°03'40", long 88°09'35", near center of E4 sec.25, T.5 S., R.9 E., White County, Hydrologic Unit 05120114, on right bank at upstream side of Possum Bridge, 2.3 mi (3.7 km) south of Main Street Bridge in Carmi, 7.8 mi (12.6 km) downstream from Skillet Fork, and at mile 30.5 (49.1 km).

DRAINAGE AREA.--3,102 mi² (8,034 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1908 to December 1912 (gage heights only), October 1939 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 339.91 ft (103.605 m) National Geodetic Vertical Datum of 1929. Prior to December 1912, nonrecording gage at site 3.1 mi (5.0 km) upstream at datum 0.4 ft (0.1 m) higher. Oct 1 to Nov. 9, 1939, nonrecording gage at present site and datum. Since Nov. 14, 1939, auxiliary water-stage recorder 3.1 mi (5.0 km) upstream.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. There was no diversion through McHenry Slough during the year.

AVERAGE DISCHARGE.--40 years, 2,521 ft³/s (71.39 m³/s), 11.04 in/yr (280 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,900 ft³/s (1,330 m³/s) May 12, 1961; maximum gage height, 36.70 ft (11.186 m) May 13, 1961; no flow Sept. 16-17, 1952, result of temporary dam upstream; minimum unregulated discharge, 0.6 ft³/s (0.017 m³/s) Sept. 9, 1953, July 31, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,900 ft³/s (847 m³/s) Mar. 6, maximum gage height, 33.52 ft (10.217 m) Mar. 7; minimum discharge, 19 ft³/s (0.54 m³/s) Nov. 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|--------|-------|--------|--------|-------|-------|-------|--------|-------|
| 1 | 46 | 24 | 797 | 6500 | 2300 | 15800 | 11900 | 10000 | 235 | 224 | 6470 | 1110 |
| 2 | 44 | 23 | 553 | 8000 | 1700 | 17700 | 12700 | 9350 | 246 | 206 | 7210 | 928 |
| 3 | 44 | 24 | 802 | 9000 | 1300 | 21100 | 13000 | 8870 | 254 | 184 | 7990 | 787 |
| 4 | 43 | 26 | 3340 | 10000 | 995 | 26600 | 13100 | 9110 | 256 | 423 | 8470 | 616 |
| 5 | 41 | 28 | 4320 | 9500 | 779 | 28700 | 13100 | 9100 | 251 | 620 | 8490 | 576 |
| 6 | 36 | 30 | 3530 | 8500 | 664 | 29700 | 12700 | 8610 | 238 | 369 | 8560 | 512 |
| 7 | 33 | 24 | 2810 | 6000 | 581 | 29700 | 12300 | 7850 | 150 | 215 | 8820 | 411 |
| 8 | 29 | 21 | 4530 | 4000 | 502 | 29400 | 12000 | 6840 | 1120 | 189 | 9090 | 323 |
| 9 | 27 | 20 | 5480 | 3000 | 469 | 28500 | 12400 | 5640 | 1330 | 202 | 9320 | 214 |
| 10 | 25 | 20 | 5220 | 2000 | 441 | 27500 | 12100 | 4480 | 1220 | 206 | 9450 | 189 |
| 11 | 27 | 22 | 4410 | 1500 | 397 | 26000 | 11800 | 2850 | 1160 | 213 | 9550 | 170 |
| 12 | 29 | 24 | 3240 | 1100 | 381 | 24100 | 12800 | 1810 | 1460 | 292 | 9710 | 147 |
| 13 | 103 | 24 | 2540 | 900 | 361 | 20300 | 13200 | 1770 | 1520 | 459 | 9780 | 132 |
| 14 | 138 | 27 | 1950 | 750 | 351 | 17500 | 13500 | 1450 | 1200 | 622 | 9530 | 119 |
| 15 | 694 | 59 | 1360 | 650 | 498 | 16600 | 14100 | 1250 | 710 | 310 | 8890 | 104 |
| 16 | 891 | 62 | 1050 | 550 | 1200 | 15400 | 14800 | 1060 | 438 | 394 | 8170 | 95 |
| 17 | 598 | 326 | 1180 | 500 | 1800 | 14200 | 15200 | 835 | 319 | 696 | 7300 | 146 |
| 18 | 361 | 857 | 1280 | 600 | 1800 | 13300 | 15600 | 675 | 270 | 808 | 6240 | 134 |
| 19 | 250 | 1340 | 1370 | 800 | 1500 | 12700 | 15700 | 561 | 218 | 773 | 5070 | 81 |
| 20 | 186 | 1030 | 1610 | 1000 | 1400 | 12000 | 15400 | 486 | 187 | 562 | 3290 | 70 |
| 21 | 145 | 761 | 3120 | 1000 | 1800 | 11600 | 14800 | 432 | 240 | 376 | 1680 | 94 |
| 22 | 112 | 715 | 3820 | 1100 | 3500 | 10800 | 14100 | 375 | 310 | 271 | 2080 | 95 |
| 23 | 82 | 684 | 3030 | 2870 | 7000 | 10700 | 13300 | 334 | 312 | 318 | 2740 | 86 |
| 24 | 61 | 548 | 2000 | 4680 | 10000 | 11200 | 13100 | 296 | 740 | 1060 | 2740 | 125 |
| 25 | 51 | 422 | 2620 | 5900 | 11800 | 11000 | 12900 | 268 | 798 | 764 | 2370 | 147 |
| 26 | 47 | 622 | 2460 | 5940 | 13100 | 10900 | 12400 | 242 | 550 | 1240 | 2370 | 206 |
| 27 | 38 | 1790 | 1820 | 5590 | 13700 | 10900 | 12000 | 234 | 383 | 2260 | 2480 | 224 |
| 28 | 33 | 2340 | 1290 | 5200 | 14500 | 10900 | 11600 | 235 | 310 | 3330 | 2820 | 229 |
| 29 | 30 | 1920 | 857 | 4800 | --- | 10900 | 11200 | 223 | 295 | 4320 | 2250 | 199 |
| 30 | 27 | 1290 | 643 | 4000 | --- | 10900 | 10600 | 215 | 281 | 4880 | 2150 | 181 |
| 31 | 25 | --- | 2500 | 3200 | --- | 11500 | --- | 221 | --- | 5490 | 1670 | --- |
| TOTAL | 4296 | 15103 | 75532 | 119130 | 94819 | 548100 | 393400 | 95672 | 17001 | 32276 | 186750 | 8450 |
| MEAN | 139 | 503 | 2437 | 3843 | 3386 | 17680 | 13110 | 3086 | 567 | 1041 | 6024 | 282 |
| MAX | 891 | 2340 | 5480 | 10000 | 14500 | 29700 | 15700 | 10000 | 1520 | 5490 | 9780 | 1110 |
| MIN | 25 | 20 | 553 | 500 | 351 | 10700 | 10600 | 215 | 150 | 184 | 1670 | 70 |
| CFSM | .05 | .16 | .79 | 1.24 | 1.09 | 5.70 | 4.23 | 1.00 | .18 | .34 | 1.94 | .09 |
| IN. | .05 | .18 | .91 | 1.43 | 1.14 | 6.57 | 4.72 | 1.15 | .20 | .39 | 2.24 | .10 |
| CAL YR 1978 | TOTAL | 817488 | MEAN | 2240 | MAX | 18300 | MIN | 20 | CFSM | .72 | IN | 9.80 |
| WTR YR 1979 | TOTAL | 1590529 | MEAN | 4358 | MAX | 29700 | MIN | 20 | CFSM | 1.41 | IN | 19.07 |

04093000 DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN

LOCATION.--Lat 41°32'10", long 87°15'25", in NW¼NW¼ sec.32, T.36 N., R.7 W., Lake County, Hydrologic Unit 04040001, on left bank at upstream side of bridge on Center Street in Hobart, 300 ft (91 m) upstream from Duck Creek, and 400 ft (122 m) downstream from Lake George Dam.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--April 1947 to current year.

REVISED RECORDS.--WSP 1337: 1953. WSP 1507: 1956. WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 588.17 ft (179.274 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft (122 m) upstream at datum 11.80 ft (3.597 m) higher.

REMARKS.--Records good. Flow occasionally regulated by Lake George Dam.

AVERAGE DISCHARGE.--32 years, 103 ft³/s (2.917 m³/s), 11.28 in/yr (287 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,880 ft³/s (110 m³/s) Oct. 11, 1954, gage height, 19.48 ft (5.938 m) present datum, site then in use; no flow Nov. 5, 1978, due to regulation of Lake George Dam.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 5 | 0600 | *2540 71.9 | *14.33 4.368 | Apr. 13 | 1100 | 720 20.4 | 8.40 2.560 |
| Mar. 30 | 2400 | 969 27.4 | 9.48 2.890 | Apr. 27 | 0900 | 1040 29.5 | 9.75 2.972 |
| Apr. 2 | 2400 | 757 21.4 | 8.57 2.612 | May 4 | 0800 | 727 20.6 | 8.43 2.565 |

NOTE.--No flow Nov. 5, 1978, due to regulation of Lake George Dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|----------|------|------|------|-------|-------|------|------|------|------|-------|
| 1 | 3.2 | 7.5 | 26 | 224 | 22 | 135 | 727 | 569 | 44 | 29 | 89 | 64 |
| 2 | .06 | .90 | 28 | 260 | 21 | 180 | 682 | 472 | 50 | 25 | 55 | 48 |
| 3 | 21 | .60 | 43 | 173 | 21 | 246 | 712 | 582 | 41 | 21 | 39 | 36 |
| 4 | 21 | .03 | 73 | 119 | 22 | 1260 | 567 | 709 | 35 | 23 | 36 | 30 |
| 5 | 16 | .00 | 74 | 86 | 21 | 2390 | 459 | 578 | 31 | 21 | 34 | 26 |
| 6 | 16 | .06 | 56 | 62 | 20 | 1700 | 353 | 429 | 34 | 19 | 28 | 24 |
| 7 | 15 | .06 | 50 | 48 | 21 | 1360 | 279 | 334 | 36 | 17 | 26 | 20 |
| 8 | 14 | .22 | 41 | 42 | 21 | 1180 | 243 | 266 | 41 | 16 | 21 | 18 |
| 9 | 5.0 | .40 | 33 | 33 | 21 | 1110 | 223 | 213 | 40 | 15 | 58 | 18 |
| 10 | 8.9 | .70 | 28 | 28 | 20 | 1000 | 201 | 184 | 40 | 16 | 97 | 17 |
| 11 | 12 | 1.2 | 25 | 22 | 21 | 797 | 204 | 181 | 34 | 15 | 132 | 15 |
| 12 | 17 | 2.0 | 25 | 20 | 22 | 663 | 498 | 164 | 34 | 14 | 122 | 15 |
| 13 | 8.5 | 3.5 | 25 | 26 | 21 | 555 | 703 | 148 | 32 | 14 | 70 | 14 |
| 14 | 18 | 5.6 | 27 | 28 | 21 | 602 | 576 | 144 | 33 | 15 | 44 | 13 |
| 15 | 24 | 10 | 27 | 22 | 21 | 598 | 412 | 153 | 29 | 16 | 35 | 13 |
| 16 | 15 | 13 | 27 | 22 | 21 | 509 | 310 | 138 | 22 | 14 | 28 | 12 |
| 17 | 16 | 18 | 25 | 22 | 20 | 429 | 250 | 115 | 17 | 12 | 53 | 12 |
| 18 | 13 | 18 | 25 | 21 | 20 | 399 | 207 | 94 | 22 | 12 | 184 | 11 |
| 19 | 10 | 18 | 25 | 22 | 21 | 459 | 177 | 84 | 31 | 12 | 248 | 10 |
| 20 | 14 | 19 | 27 | 21 | 21 | 551 | 156 | 80 | 64 | 11 | 209 | 11 |
| 21 | 14 | 19 | 30 | 22 | 22 | 518 | 152 | 68 | 100 | 12 | 187 | 9.0 |
| 22 | 8.9 | 19 | 31 | 23 | 22 | 426 | 147 | 61 | 68 | 12 | 137 | 9.4 |
| 23 | 16 | 30 | 29 | 23 | 42 | 364 | 136 | 53 | 37 | 12 | 104 | 9.7 |
| 24 | 21 | 34 | 31 | 25 | 83 | 356 | 167 | 50 | 28 | 14 | 101 | 10 |
| 25 | 13 | 33 | 28 | 23 | 139 | 409 | 341 | 46 | 22 | 34 | 77 | 10 |
| 26 | 21 | 28 | 26 | 22 | 160 | 386 | 705 | 45 | 20 | 29 | 54 | 10 |
| 27 | 57 | 32 | 22 | 22 | 140 | 316 | 1020 | 44 | 17 | 25 | 50 | 10 |
| 28 | 23 | 29 | 21 | 23 | 130 | 284 | 886 | 42 | 16 | 18 | 49 | 10 |
| 29 | 16 | 25 | 22 | 22 | --- | 379 | 709 | 40 | 19 | 20 | 65 | 10 |
| 30 | 14 | 24 | 34 | 22 | --- | 855 | 635 | 35 | 26 | 34 | 117 | 9.9 |
| 31 | 13 | --- | 92 | 22 | --- | 925 | --- | 37 | --- | 105 | 95 | --- |
| TOTAL | 484.56 | 391.77 | 1076 | 1550 | 1157 | 21341 | 12837 | 6158 | 1063 | 652 | 2644 | 525.0 |
| MEAN | 15.6 | 13.1 | 34.7 | 50.0 | 41.3 | 688 | 428 | 199 | 35.4 | 21.0 | 85.3 | 17.5 |
| MAX | 57 | 34 | 92 | 260 | 160 | 2390 | 1020 | 709 | 100 | 105 | 248 | 64 |
| MIN | .06 | .00 | 21 | 20 | 20 | 135 | 136 | 35 | 16 | 11 | 21 | 9.0 |
| CFSM | .13 | .11 | .28 | .40 | .33 | 5.55 | 3.45 | 1.61 | .29 | .17 | .69 | .14 |
| IN. | .15 | .12 | .32 | .46 | .35 | 6.40 | 3.85 | 1.85 | .32 | .20 | .79 | .16 |
| CAL YR 1978 | TOTAL | 36014.13 | MEAN | 98.7 | MAX | 1200 | MIN | .00 | CFSM | .80 | IN | 10.80 |
| WTR YR 1979 | TOTAL | 49879.33 | MEAN | 137 | MAX | 2390 | MIN | .00 | CFSM | 1.11 | IN | 14.96 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04093500 BURNS DITCH AT GARY, IN

LOCATION.--Lat 41°34'30", long 87°17'20", in SE¼NW¼ sec.13, T.36 N., R.8 W., Lake County, Hydrologic Unit 04040001, 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 mi² (414 km²). 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, October 1973 to September 1976, and October 1978 to September 1979, high-water records only).

REVISED RECORDS.--WSP 1034: 1944. WSP 1337: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 577.04 ft (175.882 m) National Geodetic Vertical Datum of 1929. Prior to July 28, 1955, nonrecording gage at same site and datum.

REMARKS.--Records good above 100 ft³/s (2.83 m³/s) and poor below. Burns ditch is an artificial channel which reverses the direction of flow of part of Little Calumet River and flows into Lake Michigan at Ogden Dunes. During high stages on Lake Michigan, only periods free from backwater are shown.

AVERAGE DISCHARGE.--27 years (1943-50, 1955-73, 1977, 1978), 137 ft³/s (3.880 m³/s), 11.63 in/yr (295 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft³/s (97.1 m³/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 ft³/s (0.074 m³/s) Oct. 14, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) Mar. 6, gage height, 14.40 ft (4.389 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|--------|------|------|------|-------|-------|------|-----|-----|-----|-----|
| 1 | 50 | 16 | 52 | 349 | 41 | 200 | 1050 | 733 | | | | |
| 2 | 20 | 11 | 63 | 453 | 41 | 240 | 936 | 610 | | | | |
| 3 | 24 | 8.0 | 88 | 315 | 41 | 330 | 953 | 670 | | | | |
| 4 | 24 | 7.0 | 107 | 220 | 41 | 1100 | 835 | 789 | | | | |
| 5 | 24 | 14 | 111 | 160 | 41 | 1900 | 666 | 739 | | | | |
| 6 | 19 | 28 | 96 | 120 | 41 | 2380 | 553 | 581 | | | | |
| 7 | 19 | 12 | 83 | 94 | 41 | 2020 | 401 | 440 | | | | |
| 8 | 18 | 11 | 71 | 80 | 41 | 1750 | 343 | 330 | | | | |
| 9 | 17 | 12 | 60 | 77 | 41 | 1620 | 333 | 268 | | | | |
| 10 | 16 | 13 | 51 | 55 | 41 | 1480 | 281 | 228 | | | | |
| 11 | 30 | 14 | 45 | 47 | 40 | 1270 | 278 | 223 | | | | |
| 12 | 19 | 16 | 45 | 41 | 40 | 1070 | 508 | 204 | | | | |
| 13 | 34 | 17 | 52 | 39 | 40 | 899 | 759 | 180 | | | | |
| 14 | 108 | 23 | 50 | 36 | 40 | 852 | 757 | 186 | | | | |
| 15 | 58 | 18 | 47 | 35 | 40 | 815 | 600 | 194 | | | | |
| 16 | 28 | 37 | 44 | 36 | 40 | 724 | 445 | 174 | | | | |
| 17 | 28 | 54 | 42 | 36 | 40 | 608 | 341 | 146 | | | | |
| 18 | 26 | 63 | 40 | 37 | 39 | 550 | 276 | 119 | | | | |
| 19 | 23 | 46 | 39 | 38 | 39 | 589 | 231 | 98 | | | | |
| 20 | 20 | 53 | 44 | 40 | 40 | 684 | 196 | 83 | | | | |
| 21 | 24 | 59 | 50 | 43 | 42 | 702 | 192 | 74 | | | | |
| 22 | 24 | 44 | 55 | 45 | 47 | 623 | 180 | 66 | | | | |
| 23 | 18 | 59 | 57 | 45 | 89 | 521 | 169 | 60 | | | | |
| 24 | 31 | 66 | 54 | 44 | 250 | 524 | 197 | 56 | | | | |
| 25 | 27 | 60 | 51 | 43 | 280 | 559 | 322 | 55 | | | | |
| 26 | 38 | 68 | 47 | 43 | 270 | 522 | 664 | 53 | | | | |
| 27 | 51 | 81 | 42 | 42 | 230 | 431 | 1070 | 52 | | | | |
| 28 | 64 | 58 | 40 | 42 | 200 | 361 | 1120 | 49 | | | | |
| 29 | 32 | 45 | 44 | 42 | --- | 421 | 953 | 47 | | | | |
| 30 | 21 | 46 | 77 | 42 | --- | 849 | 821 | 45 | | | | |
| 31 | 17 | --- | 162 | 42 | --- | 1130 | --- | 43 | | | | |
| TOTAL | 952 | 1059.0 | 1909 | 2781 | 2216 | 27724 | 16430 | 7595 | | | | |
| MEAN | 30.7 | 35.3 | 61.6 | 89.7 | 79.1 | 894 | 548 | 245 | | | | |
| MAX | 108 | 81 | 162 | 453 | 280 | 2380 | 1120 | 789 | | | | |
| MIN | 16 | 7.0 | 39 | 35 | 39 | 200 | 169 | 43 | | | | |
| CFSM | .19 | .22 | .39 | .56 | .49 | 5.59 | 3.43 | 1.53 | | | | |
| IN. | .22 | .25 | .44 | .65 | .52 | 6.45 | 3.82 | 1.77 | | | | |

CAL YR 1978 TOTAL 49120.0 MEAN 135 MAX 1270 MIN 7.0 CFSM .84 IN 11.42

04094000 LITTLE CALUMET RIVER AT PORTER, IN

LOCATION.--Lat 41°37'18", long 87°05'13", in NE¼NE¼ sec.34, T.37 N., R.6 W., Porter County, Hydrologic Unit 04040001, 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 mi² (171.5 km²).

PERIOD OF RECORD.--May 1945 to current year.

REVISED RECORDS.--WSP 1084: 1945. WSP 1337: 1946-47. WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 603.48 ft (183.941 m) National Geodetic Vertical Datum of 1929. Prior to June 26, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 72.1 ft³/s (2.042 m³/s), 14.79 in/yr (376 mm/yr).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,110 ft³/s (88.1 m³/s) Oct. 10, 1954, gage height, 11.66 ft (3.554 m); minimum daily, 17 ft³/s (0.48 m³/s) Aug. 24, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 4 | 2400 | *1680 47.6 | *9.50 2.896 |

Minimum daily discharge, 27 ft³/s (0.76 m³/s) Oct. 2, 10, 11, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 28 | 39 | 50 | 250 | 44 | 118 | 244 | 146 | 46 | 38 | 32 | 36 |
| 2 | 27 | 38 | 53 | 150 | 45 | 141 | 209 | 103 | 41 | 35 | 34 | 34 |
| 3 | 30 | 38 | 69 | 100 | 47 | 184 | 299 | 191 | 39 | 34 | 33 | 33 |
| 4 | 30 | 38 | 112 | 78 | 48 | 955 | 174 | 244 | 37 | 34 | 34 | 32 |
| 5 | 32 | 38 | 80 | 69 | 50 | 1320 | 138 | 131 | 35 | 34 | 52 | 32 |
| 6 | 34 | 41 | 66 | 63 | 51 | 668 | 109 | 97 | 35 | 32 | 41 | 32 |
| 7 | 30 | 46 | 61 | 58 | 54 | 474 | 90 | 83 | 41 | 31 | 35 | 31 |
| 8 | 28 | 43 | 60 | 55 | 57 | 404 | 93 | 73 | 58 | 31 | 33 | 30 |
| 9 | 28 | 41 | 55 | 52 | 58 | 311 | 138 | 66 | 45 | 33 | 62 | 30 |
| 10 | 27 | 39 | 52 | 50 | 56 | 285 | 110 | 62 | 44 | 32 | 63 | 30 |
| 11 | 27 | 40 | 60 | 49 | 53 | 195 | 108 | 62 | 44 | 31 | 60 | 29 |
| 12 | 29 | 39 | 55 | 50 | 51 | 142 | 262 | 61 | 39 | 32 | 42 | 29 |
| 13 | 28 | 41 | 54 | 50 | 50 | 137 | 324 | 60 | 41 | 31 | 36 | 29 |
| 14 | 49 | 66 | 52 | 52 | 49 | 215 | 197 | 68 | 39 | 31 | 34 | 29 |
| 15 | 63 | 54 | 51 | 50 | 48 | 187 | 124 | 85 | 36 | 32 | 30 | 28 |
| 16 | 49 | 47 | 51 | 48 | 48 | 118 | 92 | 68 | 34 | 31 | 31 | 29 |
| 17 | 44 | 49 | 51 | 48 | 48 | 111 | 80 | 61 | 32 | 30 | 34 | 28 |
| 18 | 38 | 67 | 49 | 49 | 48 | 117 | 73 | 55 | 35 | 30 | 64 | 28 |
| 19 | 37 | 54 | 49 | 51 | 48 | 154 | 68 | 52 | 35 | 30 | 53 | 28 |
| 20 | 35 | 48 | 50 | 52 | 50 | 167 | 65 | 53 | 51 | 29 | 55 | 28 |
| 21 | 33 | 45 | 60 | 53 | 55 | 119 | 64 | 49 | 102 | 29 | 56 | 28 |
| 22 | 33 | 45 | 55 | 53 | 68 | 94 | 64 | 46 | 58 | 28 | 43 | 28 |
| 23 | 38 | 57 | 50 | 52 | 83 | 92 | 62 | 45 | 44 | 29 | 39 | 28 |
| 24 | 42 | 66 | 50 | 52 | 133 | 112 | 76 | 44 | 40 | 28 | 47 | 29 |
| 25 | 41 | 54 | 51 | 52 | 157 | 116 | 134 | 45 | 38 | 31 | 40 | 30 |
| 26 | 53 | 50 | 48 | 50 | 142 | 86 | 239 | 43 | 37 | 32 | 35 | 30 |
| 27 | 50 | 50 | 43 | 49 | 122 | 80 | 381 | 42 | 36 | 30 | 37 | 29 |
| 28 | 44 | 49 | 45 | 48 | 117 | 79 | 251 | 41 | 36 | 30 | 36 | 27 |
| 29 | 41 | 47 | 46 | 48 | --- | 114 | 183 | 40 | 39 | 29 | 41 | 28 |
| 30 | 40 | 49 | 56 | 47 | --- | 327 | 176 | 39 | 43 | 34 | 51 | 28 |
| 31 | 39 | --- | 98 | 45 | --- | 348 | --- | 42 | --- | 39 | 41 | --- |
| TOTAL | 1147 | 1418 | 1782 | 1973 | 1880 | 7970 | 4627 | 2297 | 1280 | 980 | 1324 | 890 |
| MEAN | 37.0 | 47.3 | 57.5 | 63.6 | 67.1 | 257 | 154 | 74.1 | 42.7 | 31.6 | 42.7 | 29.7 |
| MAX | 63 | 67 | 112 | 250 | 157 | 1320 | 381 | 244 | 102 | 39 | 64 | 36 |
| MIN | 27 | 38 | 43 | 45 | 44 | 79 | 62 | 39 | 32 | 28 | 30 | 27 |
| CFSM | .56 | .72 | .87 | .96 | 1.01 | 3.88 | 2.33 | 1.12 | .65 | .48 | .65 | .45 |
| IN. | .64 | .80 | 1.00 | 1.11 | 1.06 | 4.48 | 2.60 | 1.29 | .72 | .55 | .74 | .50 |
| CAL YR 1978 | TOTAL | 26874 | MEAN | 73.6 | MAX | 800 | MIN | 23 | CFSM | 1.11 | IN | 15.10 |
| WTR YR 1979 | TOTAL | 27568 | MEAN | 75.5 | MAX | 1320 | MIN | 27 | CFSM | 1.14 | IN | 15.49 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04094500 SALT CREEK NEAR MCCOOL, IN

LOCATION.--Lat 41°35'48", long 87°08'40", in SE 1/4 sec. 6, T.36 N., R.6 W., Porter County, Hydrologic Unit 04040001, on left bank on downstream side of highway bridge, 50 ft (15 m) downstream from New York Central Railroad bridge, 1.2 miles (1.9 km) north of McCool, 1.5 miles (2.4 km) upstream from Little Calumet River, and at mile 1.6 (2.6 km).

DRAINAGE AREA.--74.6 mi² (193.2 km²).

PERIOD OF RECORD.--May 1945 to current year.

REVISED RECORDS.--WSP 1337: 1946-48(M), 1950(M). WSP 1911: 1958. WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 594.10 ft (181.082 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 25, 1955, nonrecording gage at same site and datum. July 25, 1955, to Apr. 28, 1977, water-stage recorder at same site and datum. No gage Apr. 29, 1977, to July 28, 1977. Nonrecording gage at same site and datum July 29, 1977, to Oct. 10, 1978.

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

AVERAGE DISCHARGE.--34 years, 71.8 ft³/s (2.033 m³/s), 13.07 in/yr (332 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s (90.1 m³/s) Oct. 11, 1954, gage height, 14.12 (4.304 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 4 | 2300 | *1600 45.3 | *10.41 3.173 |

Minimum daily discharge, 24 ft³/s (0.680 m³/s) Sept. 16-19, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 36 | 31 | 49 | 266 | 33 | 101 | 257 | 197 | 47 | 43 | 46 | 42 |
| 2 | 31 | 30 | 54 | 120 | 33 | 112 | 258 | 144 | 41 | 39 | 44 | 42 |
| 3 | 37 | 31 | 78 | 72 | 34 | 187 | 284 | 327 | 36 | 38 | 43 | 42 |
| 4 | 36 | 31 | 101 | 59 | 35 | 1060 | 183 | 375 | 32 | 34 | 44 | 43 |
| 5 | 38 | 32 | 67 | 50 | 36 | 1310 | 159 | 198 | 32 | 30 | 42 | 42 |
| 6 | 46 | 41 | 52 | 46 | 37 | 706 | 148 | 138 | 32 | 29 | 38 | 39 |
| 7 | 33 | 49 | 47 | 43 | 40 | 507 | 129 | 108 | 37 | 28 | 38 | 41 |
| 8 | 32 | 38 | 45 | 40 | 41 | 440 | 126 | 90 | 56 | 28 | 37 | 42 |
| 9 | 32 | 34 | 43 | 39 | 41 | 336 | 136 | 77 | 51 | 28 | 69 | 37 |
| 10 | 32 | 33 | 41 | 37 | 40 | 314 | 122 | 69 | 56 | 28 | 69 | 27 |
| 11 | 31 | 32 | 42 | 36 | 39 | 215 | 149 | 65 | 51 | 28 | 55 | 25 |
| 12 | 32 | 32 | 38 | 35 | 38 | 158 | 352 | 59 | 45 | 29 | 43 | 25 |
| 13 | 33 | 36 | 38 | 35 | 38 | 154 | 427 | 60 | 43 | 32 | 39 | 25 |
| 14 | 70 | 71 | 38 | 35 | 37 | 228 | 270 | 74 | 45 | 33 | 38 | 25 |
| 15 | 85 | 56 | 37 | 34 | 37 | 191 | 182 | 83 | 40 | 34 | 35 | 25 |
| 16 | 52 | 44 | 38 | 34 | 36 | 152 | 145 | 64 | 36 | 32 | 32 | 24 |
| 17 | 46 | 47 | 38 | 34 | 36 | 148 | 129 | 56 | 35 | 32 | 45 | 24 |
| 18 | 39 | 75 | 36 | 34 | 36 | 160 | 116 | 52 | 43 | 31 | 186 | 24 |
| 19 | 39 | 56 | 36 | 35 | 36 | 199 | 108 | 52 | 48 | 31 | 93 | 24 |
| 20 | 36 | 46 | 38 | 36 | 36 | 205 | 102 | 56 | 81 | 31 | 125 | 25 |
| 21 | 33 | 43 | 48 | 37 | 38 | 165 | 102 | 49 | 125 | 31 | 83 | 25 |
| 22 | 30 | 42 | 42 | 37 | 43 | 136 | 101 | 45 | 59 | 30 | 57 | 25 |
| 23 | 35 | 61 | 38 | 37 | 60 | 132 | 97 | 44 | 48 | 31 | 51 | 24 |
| 24 | 42 | 69 | 37 | 36 | 95 | 164 | 136 | 44 | 44 | 30 | 71 | 25 |
| 25 | 36 | 53 | 38 | 35 | 138 | 167 | 235 | 44 | 42 | 36 | 49 | 25 |
| 26 | 60 | 47 | 36 | 35 | 118 | 125 | 371 | 41 | 40 | 39 | 44 | 26 |
| 27 | 44 | 48 | 32 | 34 | 108 | 113 | 547 | 40 | 38 | 33 | 47 | 25 |
| 28 | 33 | 50 | 33 | 34 | 105 | 113 | 403 | 39 | 38 | 32 | 49 | 25 |
| 29 | 31 | 46 | 32 | 34 | --- | 195 | 266 | 39 | 44 | 31 | 52 | 25 |
| 30 | 28 | 48 | 50 | 34 | --- | 384 | 258 | 39 | 55 | 42 | 54 | 25 |
| 31 | 30 | --- | 108 | 34 | --- | 392 | --- | 42 | --- | 90 | 45 | --- |
| TOTAL | 1218 | 1352 | 1450 | 1507 | 1444 | 8969 | 6298 | 2810 | 1420 | 1063 | 1763 | 893 |
| MEAN | 39.3 | 45.1 | 46.8 | 48.6 | 51.6 | 289 | 210 | 90.6 | 47.3 | 34.3 | 56.9 | 29.8 |
| MAX | 85 | 75 | 108 | 266 | 138 | 1310 | 547 | 375 | 125 | 90 | 186 | 43 |
| MIN | 28 | 30 | 32 | 34 | 33 | 101 | 97 | 39 | 32 | 28 | 32 | 24 |
| CFSM | .53 | .61 | .63 | .65 | .69 | 3.87 | 2.82 | 1.21 | .63 | .46 | .76 | .40 |
| IN. | .61 | .67 | .72 | .75 | .72 | 4.47 | 3.14 | 1.40 | .71 | .53 | .88 | .45 |

CAL YR 1978 TOTAL 19944 MEAN 54.6 MAX 522 MIN 22 CFSM .73 IN 9.95
WTR YR 1979 TOTAL 30187 MEAN 82.7 MAX 1310 MIN 24 CFSM 1.11 IN 15.05

04095000 LITTLE CALUMET RIVER NEAR McCool, IN
(National stream-quality accounting network station)

LOCATION.--Lat 41°36'41", long 87°09'16", in NE¼SW¼ sec.31, T.37 N., R.6 W., Porter County, Hydrologic Unit 04040001, at bridge on Samuelson Road, 1200 ft (365.8 m) downstream from Salt Creek, 1.15 mi (1.85 km) up stream from Burns Waterway, and 2.3 mi (3.70 km) north of McCool.

DRAINAGE AREA.--149 mi² (385.9 km²).

PERIOD OF RECORD.--April 1978 to current year.

REMARKS.--Partial analysis collected by project personnel.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TEMPER- ATURE (DEG C) | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TUR- BID- ITY (NTU) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | OXYGEN, DIS- SOLVED (MG/L) | PH (UNITS) | CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) | ALKA- LITY (MG/L AS CACO3) | PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M | PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M | NITRO- GEN, TOTAL (MG/L AS N) |
|-------|-----------------------------|------|---|------------------------------|--|-------------------------------------|---------------|---|--|---|--|---|
| OCT | | | | | | | | | | | | |
| 04... | 21.3 | 1240 | -- | -- | 460 | 8.6 | 8.2 | -- | -- | -- | -- | -- |
| 05... | 21.5 | 1430 | 250 | 2.0 | 540 | 8.4 | 6.9 | -- | 140 | -- | -- | 1.4 |
| NOV | | | | | | | | | | | | |
| 06... | 16.0 | 1615 | 246 | 7.0 | 645 | 12.6 | 7.9 | -- | 160 | -- | -- | 1.3 |
| 17... | 14.2 | 1635 | -- | -- | 555 | 8.8 | 8.1 | -- | 160 | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 11... | 3.5 | 1100 | 235 | -- | 570 | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 27... | 5.1 | 1310 | -- | -- | 626 | 10.4 | 8.0 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 20... | 9.4 | 1100 | -- | -- | 550 | 11.1 | 7.1 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 10... | 25.5 | 1415 | -- | -- | 599 | 7.3 | 8.1 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 21... | -- | 1200 | -- | -- | -- | -- | -- | -- | -- | 15.8 | 17.4 | -- |
| 24... | 23.9 | 1320 | -- | -- | 549 | 6.9 | 8.2 | 1.8 | 150 | -- | -- | -- |

| DATE | NITRO- GEN, DIS- SOLVED (MG/L AS N) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) | NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) |
|-------|--|--|---|---|--|---|--|--|---|---|---|--|
| OCT | | | | | | | | | | | | |
| 05... | -- | .39 | -- | -- | .24 | -- | .63 | .79 | -- | -- | .05 | .02 |
| NOV | | | | | | | | | | | | |
| 06... | -- | .29 | -- | -- | .31 | -- | .60 | .69 | -- | -- | .06 | .01 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | .70 | .12 | -- | .82 | -- | -- | .95 | .00 | -- | .02 |
| AUG | | | | | | | | | | | | |
| 24... | 1.8 | -- | .50 | .27 | -- | .77 | -- | -- | .99 | .00 | -- | .07 |

| DATE | PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) | CARBON, ORGANIC TOTAL (MG/L AS C) | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) | HARD- NESS (MG/L AS CACO3) | HARD- NESS, NONCAR- BONATE (MG/L CACO3) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | SODIUM AD- SORP- TION RATIO | SODIUM PERCENT | SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) |
|-------|--|---|--|--|--|--|--|--|---|-------------------|--|---|
| OCT | | | | | | | | | | | | |
| 05... | -- | -- | -- | 210 | 71 | 55 | 18 | 17 | .5 | 15 | -- | 4.0 |
| NOV | | | | | | | | | | | | |
| 06... | -- | 6.0 | -- | 230 | 71 | 61 | 19 | 17 | .5 | 14 | -- | 5.0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | .00 | -- | 10 | 230 | 72 | 60 | 20 | 20 | .6 | 16 | -- | 3.6 |
| AUG | | | | | | | | | | | | |
| 24... | .00 | -- | 5.1 | 230 | 82 | 60 | 20 | 21 | .6 | 16 | 25 | 4.1 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095000 LITTLE CALUMET RIVER NEAR McCOOL, IN
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | CHLORIDE, DIS-SOLVED (MG/L AS CL) | SULFATE DIS-SOLVED (MG/L AS SO4) | FLUORIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SiO2) | ARSENIC DIS-SOLVED (UG/L AS AS) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC IN BOT- TOM MA- TERIAL (UG/G AS AS) | BARIUM, DIS-SOLVED (UG/L AS BA) | BARIUM, SUS-PENDED RECOVERABLE (UG/L AS BA) | BARIUM, TOTAL RECOVERABLE (UG/L AS BA) | CADMIUM DIS-SOLVED (UG/L AS CU) | CADMIUM SUS-PENDED RECOVERABLE (UG/L AS CU) |
|-----------|--|---|---|---|--|-------------------------------------|--|--|---|--|--|---|
| OCT 05... | 40 | 56 | .5 | 5.1 | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV 06... | 40 | 57 | .7 | 5.7 | 1 | 1 | -- | 0 | 0 | 0 | 2 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 33 | 61 | .8 | 5.7 | -- | -- | 1 | -- | -- | -- | -- | -- |
| AUG 24... | 34 | 52 | .6 | 8.0 | -- | -- | 3 | -- | -- | -- | -- | -- |

| DATE | CADMIUM TOTAL RECOVERABLE (UG/L AS CU) | CADMIUM RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G AS CU) | CHROMIUM, RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G) | CHROMIUM, DIS-SOLVED (UG/L AS CR) | COBALT, DIS-SOLVED (UG/L AS CO) | COBALT, SUS-PENDED RECOVERABLE (UG/L AS CO) | COBALT, TOTAL RECOVERABLE FM BOT- TOM MA- TERIAL (UG/L AS CO) | COBALT, RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G AS CO) | COPPER, DIS-SOLVED (UG/L AS CU) | COPPER, SUS-PENDED RECOVERABLE (UG/L AS CU) | COPPER, TOTAL RECOVERABLE (UG/L AS CU) | COPPER, RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G AS CU) |
|-----------|--|---|--|--|--|---|--|---|--|---|--|---|
| NOV 06... | 0 | -- | -- | 2 | 2 | 0 | 0 | -- | 2 | 520 | 520 | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | <10 | 30 | -- | -- | -- | -- | <10 | -- | -- | -- | 30 |
| AUG 24... | -- | <10 | <10 | -- | -- | -- | -- | 20 | -- | -- | -- | 20 |

| DATE | IRON, SUS-PENDED RECOVERABLE (UG/L AS FE) | IRON, TOTAL RECOVERABLE (UG/L AS FE) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LEAD, SUS-PENDED RECOVERABLE (UG/L AS PB) | LEAD, TOTAL RECOVERABLE (UG/L AS PB) | LEAD, RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G AS PB) | MANGANESE, SUS-PENDED RECOVERABLE (UG/L AS MN) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) | MANGANESE, DIS-SOLVED (UG/L AS MN) | SILVER, DIS-SOLVED (UG/L AS AG) | SILVER, SUS-PENDED RECOVERABLE (UG/L AS AG) |
|-----------|---|--|--|--|---|--|---|--|---|---|--|---|
| NOV 06... | 540 | 630 | 90 | 10 | 0 | 10 | -- | 70 | 80 | 10 | 0 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | 50 | -- | -- | -- | 300 | -- | -- | 60 | -- | -- |
| AUG 24... | -- | -- | 20 | -- | -- | -- | 20 | -- | -- | 60 | -- | -- |

| DATE | SILVER, TOTAL RECOVERABLE (UG/L AS AG) | ZINC, DIS-SOLVED (UG/L AS ZN) | ZINC, SUS-PENDED RECOVERABLE (UG/L AS ZN) | ZINC, TOTAL RECOVERABLE (UG/L AS ZN) | ZINC, RECOVERABLE FM BOT- TOM MA- TERIAL (UG/G AS ZN) | SELENIUM, DIS-SOLVED (UG/L AS SE) | SELENIUM, SUS-PENDED TOTAL (UG/L AS SE) | SELENIUM, TOTAL RECOVERABLE (UG/L AS SE) | COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) | COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) | STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) | ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) |
|-----------|--|--|---|--|---|--|---|--|---|--|---|---|
| OCT 05... | -- | -- | -- | -- | -- | -- | -- | -- | 16100 | 321 | 200 | -- |
| NOV 06... | 0 | 0 | 30 | 30 | -- | 0 | 0 | 0 | 13400 | 264 | 257 | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | K11000 | K8600 | -- |
| 17... | -- | -- | -- | -- | 100 | -- | -- | -- | -- | -- | -- | .0 |
| DEC 11... | -- | -- | -- | -- | -- | -- | -- | -- | 2600 | 1650 | 343 | -- |
| FEB 27... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4400 | 1100 | -- |
| MAR 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2900 | 1300 | -- |
| AUG 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 920 | 590 | -- |
| 24... | -- | -- | -- | -- | 70 | -- | -- | -- | -- | -- | -- | .0 |

04095000 LITTLE CALUMET RIVER NEAR McCOOL, IN
(National stream-quality accounting network station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | HEPTA- CHLOR EPOXIDE TOT. IN BOT- TOM MA- TERIAL (UG/KG) | PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) | PHYTO- PLANK- TON, TOTAL (CELLS PER ML) |
|--------------|---|---|--|--|--|--|---|---|--|---|--|--|
| OCT 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 890 |
| NOV 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2600 |
| 17... | .0 | 9 | 2.4 | .0 | .5 | 1.6 | .0 | 0 | .0 | .0 | 100 | -- |
| AUG 24... | .0 | 4 | 1.1 | 1.1 | .6 | 1.4 | .0 | 0 | .0 | .0 | 44 | -- |

| DATE | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER DAY) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS) | CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) | CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, TOTAL (MG/L AS NO3) |
|--------------|--|--|---|---|--|--|--|---|---|
| OCT 05... | 301 | 280 | 203 | .41 | -- | -- | -- | -- | 6.3 |
| NOV 06... | 329 | 302 | 219 | .45 | -- | -- | -- | -- | 5.7 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | 305 | -- | .41 | -- | -- | -- | .15 | -- |
| AUG 21... | -- | -- | -- | -- | 708 | 2.26 | .780 | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | 281 | -- | .38 | -- | -- | -- | .35 | -- |

| DATE | MERCURY DIS- SOLVED (UG/L AS HG) | MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|--------------|--|--|---|--|---|
| OCT 05... | -- | -- | -- | 11 | 7.4 |
| NOV 06... | <.5 | .0 | <.5 | 12 | 7.9 |
| DEC 11... | -- | -- | -- | 14 | 8.8 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095050 DUNES CREEK AT PORTER, IN

LOCATION.--Lat 41°39'12", long 87°03'46", in NE¼SW¼ sec.13, T.37 N., R.6 W., Porter County, Hydrologic Unit 04040001, on right bank 20 ft (6 m) upstream of culvert on State Highway 49, 200 ft (61 m) south of entrance to Indiana Dunes State Park, 800 ft (244 m) north of North Road, 0.7 mile (1.1 km) north of U.S. Highway 12, and 1.0 mile north (1.6 km) of Porter.

DRAINAGE AREA.--3.40 mi² (8.81 km²).

PERIOD OF RECORD.--Oct. 1, 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 585.00 ft (178.308 m) National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40 ft³/s (1.13 m³/s), Mar. 4, 1979, gage height, 6.63 ft (2.021 m); no flow July 3-29, and Sept. 27-30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s (1.13 m³/s), Mar. 4, 1979, gage height, 6.63 ft (2.021 m); no flow July 3-29, Sept. 27-30.

NOTE.-- No gage-height record Jan. 29 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|-------|-------|-------|-------|------|-------|------|-------|------|
| 1 | .52 | 1.1 | 2.1 | 9.0 | .47 | 6.2 | 6.2 | 5.0 | 1.6 | .08 | .01 | .71 |
| 2 | .54 | 1.0 | 2.7 | 6.0 | .47 | 6.5 | 8.5 | 4.4 | 1.5 | .03 | .01 | .59 |
| 3 | .56 | .99 | 3.2 | 4.0 | .47 | 15 | 7.3 | 11 | 1.5 | .00 | .01 | .52 |
| 4 | .58 | .95 | 7.2 | 2.5 | .47 | 36 | 5.7 | 7.3 | 1.4 | .00 | .29 | .49 |
| 5 | .61 | .95 | 4.4 | 1.6 | .47 | 31 | 5.2 | 5.1 | 1.3 | .00 | .74 | .45 |
| 6 | .58 | 1.1 | 3.4 | 1.0 | .47 | 20 | 4.3 | 3.9 | 1.2 | .00 | .55 | .40 |
| 7 | .56 | 1.4 | 2.7 | .80 | .47 | 16 | 3.6 | 3.2 | 1.4 | .00 | .39 | .34 |
| 8 | .54 | 1.4 | 2.8 | .64 | .47 | 13 | 4.7 | 2.7 | 1.5 | .00 | .26 | .27 |
| 9 | .52 | 1.3 | 2.5 | .56 | .47 | 10 | 6.2 | 2.3 | 1.4 | .00 | 1.1 | .22 |
| 10 | .49 | 1.3 | 2.3 | .50 | .47 | 8.0 | 5.3 | 2.1 | 1.3 | .00 | 1.0 | .16 |
| 11 | .46 | 1.2 | 2.1 | .47 | .47 | 6.8 | 6.2 | 2.1 | 1.1 | .00 | .98 | .13 |
| 12 | .44 | 1.1 | 2.0 | .47 | .47 | 6.8 | 10 | 2.1 | .95 | .00 | .71 | .11 |
| 13 | .42 | 1.1 | 2.2 | .47 | .47 | 9.0 | 8.8 | 2.1 | .90 | .00 | .55 | .09 |
| 14 | 1.1 | 1.7 | 2.4 | .47 | .47 | 7.0 | 6.0 | 3.6 | .86 | .00 | .47 | .07 |
| 15 | 1.4 | 1.7 | 2.1 | .47 | .47 | 5.8 | 4.4 | 5.0 | .85 | .00 | .37 | .05 |
| 16 | 1.8 | 1.6 | 2.1 | .47 | .47 | 5.8 | 3.5 | 3.7 | .83 | .00 | .29 | .04 |
| 17 | 1.6 | 1.5 | 2.1 | .47 | .47 | 6.0 | 2.9 | 2.7 | .81 | .00 | .48 | .03 |
| 18 | 1.4 | 1.8 | 2.0 | .47 | .47 | 6.3 | 2.6 | 2.2 | .87 | .00 | 1.4 | .02 |
| 19 | 1.3 | 1.5 | 1.9 | .47 | .47 | 7.6 | 2.4 | 2.1 | .96 | .00 | 1.1 | .02 |
| 20 | 1.1 | 1.4 | 1.8 | .47 | .47 | 7.3 | 2.3 | 2.0 | 1.1 | .00 | 1.8 | .01 |
| 21 | .97 | 1.3 | 2.1 | .47 | .52 | 6.4 | 2.6 | 1.7 | 1.2 | .00 | 1.5 | .01 |
| 22 | .91 | 1.2 | 2.0 | .47 | 1.2 | 5.1 | 3.0 | 1.6 | .93 | .00 | 1.1 | .01 |
| 23 | 1.2 | 1.7 | 1.7 | .47 | 4.0 | 4.9 | 3.0 | 1.6 | .77 | .00 | .90 | .01 |
| 24 | 1.3 | 3.2 | 1.7 | .47 | 12 | 5.9 | 6.1 | 1.6 | .64 | .00 | .95 | .01 |
| 25 | 1.4 | 2.9 | 2.0 | .47 | 10 | 5.5 | 9.9 | 1.5 | .50 | .00 | .72 | .01 |
| 26 | 2.3 | 2.4 | 1.8 | .47 | 9.0 | 4.5 | 16 | 1.5 | .32 | .00 | .62 | .01 |
| 27 | 2.0 | 2.2 | 1.6 | .47 | 8.0 | 4.0 | 10 | 1.5 | .22 | .00 | .75 | .00 |
| 28 | 1.8 | 2.2 | 1.4 | .47 | 7.0 | 3.7 | 8.4 | 1.5 | .15 | .00 | .69 | .00 |
| 29 | 1.5 | 2.0 | 1.2 | .47 | --- | 7.6 | 6.4 | 1.5 | .18 | .00 | 1.4 | .00 |
| 30 | 1.4 | 2.2 | 1.6 | .47 | --- | 11 | 6.3 | 1.5 | .20 | .01 | 1.2 | .00 |
| 31 | 1.2 | --- | 3.9 | .47 | --- | 8.9 | --- | 1.6 | --- | .01 | .89 | --- |
| TOTAL | 32.50 | 47.39 | 75.0 | 36.47 | 61.12 | 297.6 | 177.8 | 91.7 | 28.44 | .13 | 23.23 | 4.78 |
| MEAN | 1.05 | 1.58 | 2.42 | 1.18 | 2.18 | 9.60 | 5.93 | 2.96 | .95 | .004 | .75 | .16 |
| MAX | 2.3 | 3.2 | 7.2 | 9.0 | 12 | 36 | 16 | 11 | 1.6 | .08 | 1.8 | .71 |
| MIN | .42 | .95 | 1.2 | .47 | .47 | 3.7 | 2.3 | 1.5 | .15 | .00 | .01 | .00 |
| CFSM | .31 | .47 | .71 | .35 | .64 | 2.82 | 1.74 | .87 | .28 | .001 | .22 | .05 |
| IN. | .36 | .52 | .82 | .40 | .67 | 3.26 | 1.94 | 1.00 | .31 | .00 | .25 | .05 |

WTR YR 1979 TOTAL 876.16 MEAN 2.40 MAX 36 MIN .00 CFSM .71 IN 9.58

04095300 TRAIL CREEK AT MICHIGAN CITY, IN

LOCATION.--Lat 41°43'00", long 86°51'35", in SW¼NE¼ sec.27, T.38 N., R.4 W., LaPorte County, Hydrologic Unit 04040001, 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 mi² (140.1 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 584.02 ft (178.009 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--10 years, 68.4 ft³/s (1.937 m³/s), 17.16 in/yr (436 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Mar. 4, 1979, gage height, 11.40 ft (3.475 m); minimum daily discharge, 20 ft³/s (0.57 m³/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s (5.66 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Jan. 1 | 0200 | 292 | 8.27 | 5.13 | 1.563 | Apr. 12 | 1000 | 350 | 9.91 | 5.63 | 1.716 |
| Mar. 4 | 1700 | *1880 | 53.2 | *11.40 | 3.474 | Apr. 26 | 1600 | 357 | 10.1 | 5.69 | 1.734 |
| Mar. 30 | 0300 | 343 | 9.71 | 5.57 | 1.698 | May 2 | 1100 | 231 | 6.54 | 4.56 | 1.390 |
| Apr. 2 | 1600 | 274 | 7.76 | 4.96 | 1.512 | | | | | | |

Minimum daily discharge, 32 ft³/s (0.91 m³/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1 | 33 | 41 | 56 | 240 | 41 | 95 | 137 | 107 | 58 | 43 | 34 | 42 |
| 2 | 32 | 42 | 64 | 162 | 41 | 123 | 203 | 95 | 55 | 40 | 35 | 39 |
| 3 | 40 | 42 | 100 | 90 | 42 | 205 | 167 | 185 | 52 | 38 | 32 | 37 |
| 4 | 38 | 42 | 119 | 72 | 44 | 1290 | 122 | 131 | 50 | 39 | 41 | 36 |
| 5 | 42 | 41 | 76 | 63 | 45 | 853 | 123 | 101 | 49 | 37 | 56 | 36 |
| 6 | 42 | 46 | 64 | 58 | 47 | 295 | 107 | 89 | 50 | 37 | 41 | 36 |
| 7 | 39 | 48 | 62 | 54 | 49 | 259 | 94 | 80 | 69 | 35 | 35 | 35 |
| 8 | 38 | 43 | 61 | 52 | 52 | 211 | 106 | 76 | 70 | 35 | 33 | 34 |
| 9 | 38 | 43 | 57 | 50 | 52 | 189 | 154 | 70 | 55 | 49 | 92 | 33 |
| 10 | 37 | 42 | 57 | 49 | 48 | 150 | 110 | 70 | 63 | 36 | 115 | 33 |
| 11 | 37 | 42 | 61 | 47 | 46 | 124 | 119 | 89 | 56 | 34 | 74 | 33 |
| 12 | 38 | 42 | 54 | 46 | 46 | 111 | 278 | 83 | 50 | 33 | 44 | 33 |
| 13 | 37 | 53 | 53 | 46 | 45 | 123 | 185 | 80 | 48 | 33 | 38 | 32 |
| 14 | 65 | 65 | 53 | 45 | 45 | 148 | 129 | 103 | 48 | 33 | 38 | 32 |
| 15 | 59 | 48 | 51 | 45 | 45 | 109 | 101 | 110 | 43 | 34 | 35 | 32 |
| 16 | 54 | 46 | 52 | 44 | 44 | 94 | 89 | 85 | 42 | 33 | 33 | 32 |
| 17 | 43 | 58 | 52 | 44 | 44 | 96 | 83 | 76 | 40 | 32 | 47 | 32 |
| 18 | 42 | 58 | 51 | 44 | 44 | 102 | 80 | 68 | 45 | 33 | 94 | 32 |
| 19 | 41 | 48 | 52 | 45 | 44 | 120 | 76 | 69 | 43 | 32 | 56 | 32 |
| 20 | 41 | 44 | 57 | 46 | 45 | 112 | 74 | 69 | 60 | 32 | 70 | 32 |
| 21 | 40 | 45 | 73 | 46 | 47 | 97 | 73 | 64 | 61 | 32 | 54 | 32 |
| 22 | 40 | 45 | 57 | 47 | 51 | 88 | 73 | 62 | 44 | 32 | 43 | 32 |
| 23 | 43 | 72 | 52 | 47 | 71 | 95 | 69 | 61 | 42 | 32 | 49 | 32 |
| 24 | 42 | 62 | 53 | 46 | 97 | 115 | 88 | 62 | 41 | 32 | 59 | 32 |
| 25 | 47 | 52 | 52 | 45 | 122 | 110 | 122 | 62 | 39 | 32 | 43 | 32 |
| 26 | 69 | 49 | 50 | 44 | 108 | 92 | 246 | 59 | 38 | 32 | 39 | 32 |
| 27 | 50 | 52 | 48 | 44 | 102 | 91 | 190 | 57 | 37 | 32 | 40 | 32 |
| 28 | 44 | 51 | 48 | 43 | 99 | 87 | 160 | 56 | 38 | 32 | 39 | 32 |
| 29 | 42 | 49 | 49 | 43 | --- | 142 | 124 | 56 | 46 | 32 | 90 | 32 |
| 30 | 42 | 55 | 74 | 42 | --- | 290 | 140 | 56 | 53 | 38 | 64 | 32 |
| 31 | 41 | --- | 155 | 42 | --- | 224 | --- | 58 | --- | 35 | 45 | --- |
| TOTAL | 1336 | 1466 | 1963 | 1831 | 1606 | 6240 | 3822 | 2489 | 1485 | 1079 | 1608 | 1003 |
| MEAN | 43.1 | 48.9 | 63.3 | 59.1 | 57.4 | 201 | 127 | 80.3 | 49.5 | 34.8 | 51.9 | 33.4 |
| MAX | 69 | 72 | 155 | 240 | 122 | 1290 | 278 | 185 | 70 | 49 | 115 | 42 |
| MIN | 32 | 41 | 48 | 42 | 41 | 87 | 69 | 56 | 37 | 32 | 32 | 32 |
| CFSM | .80 | .90 | 1.17 | 1.09 | 1.06 | 3.72 | 2.35 | 1.48 | .92 | .64 | .96 | .62 |
| IN. | .92 | 1.01 | 1.35 | 1.26 | 1.10 | 4.29 | 2.63 | 1.71 | 1.02 | .74 | 1.11 | .69 |
| CAL YR 1978 | TOTAL | 24823 | MEAN 68.0 | MAX 711 | MIN 32 | CFSM 1.26 | IN 17.07 | | | | | |
| WTR YR 1979 | TOTAL | 25928 | MEAN 71.0 | MAX 1290 | MIN 32 | CFSM 1.31 | IN 17.83 | | | | | |

STREAMS TRIBUTARY TO LAKE MICHIGAN
04095300 TRAIL CREEK AT MICHIGAN CITY, IN--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.-

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| OCT | | | | | | | | | | |
| 04... | 1330 | -- | 38 | 14 | 1.4 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | |
| 08... | 1150 | 9.0 | 44 | 16 | 1.9 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | |
| 07... | 1040 | 1.5 | 62 | 12 | 2.0 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | |
| 10... | 1550 | .0 | 48 | 29 | 3.8 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | |
| 08... | 1530 | 1.5 | 55 | 20 | 3.0 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | |
| 04... | 1500 | 7.0 | 119 | 32 | 10 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 23... | 0840 | 15.0 | 59 | 23 | 3.6 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 27... | 0935 | 18.0 | 36 | 35 | 3.4 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | |
| 31... | 1445 | 22.5 | 40 | 38 | 4.1 | 76 | 82 | 88 | 94 | 100 |
| SEP | | | | | | | | | | |
| 13... | 1350 | 24.0 | 33 | 16 | 1.4 | -- | -- | -- | -- | -- |

04096100 GALENA RIVER NEAR LAPORTE, IN

LOCATION.--Lat 41°44'54", long 86°40'30", in SE¼NW¼ sec.17, T.38 N., R.2 W., LaPorte County, Hydrologic Unit 04040001, on left bank at downstream side of bridge on County Road 125 East, 1.3 miles (2.1 km) upstream from Indiana-Michigan State line, and 9.8 miles (15.8 km) north of Courthouse in LaPorte.

DRAINAGE AREA.--17.2 mi² (44.5 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 625.00 ft (190.500 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--10 years, 24.7 ft³/s (0.699 m³/s), 19.50 in/yr (495 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s (18.4 m³/s) Mar. 4, 1979, gage height, 7.02 ft (2.140 m); minimum daily, 6.7 ft³/s (0.19 m³/s) Sept. 13, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft³/s (2.83 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Jan. 1 | 0600 | 107 3.03 | 4.14 1.262 | Apr. 12 | 1200 | 115 3.26 | 4.30 1.311 |
| Mar. 4 | 1100 | *650 18.4 | *7.02 2.140 | Apr. 26 | 1900 | 102 2.89 | 4.01 1.222 |
| Mar. 30 | 0700 | 107 3.03 | 4.21 1.283 | | | | |

Minimum daily discharge, 9.9 ft³/s (0.28 m³/s) Sept 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 12 | 16 | 21 | 94 | 17 | 38 | 48 | 39 | 16 | 15 | 11 | 17 |
| 2 | 12 | 16 | 24 | 63 | 17 | 42 | 61 | 36 | 14 | 13 | 12 | 15 |
| 3 | 14 | 16 | 33 | 40 | 17 | 63 | 56 | 70 | 13 | 12 | 11 | 15 |
| 4 | 14 | 16 | 48 | 30 | 18 | 406 | 39 | 50 | 12 | 12 | 15 | 14 |
| 5 | 15 | 16 | 32 | 26 | 19 | 165 | 39 | 38 | 12 | 11 | 32 | 14 |
| 6 | 17 | 17 | 26 | 24 | 20 | 94 | 33 | 33 | 12 | 11 | 27 | 14 |
| 7 | 15 | 20 | 24 | 22 | 22 | 85 | 30 | 28 | 18 | 11 | 19 | 13 |
| 8 | 14 | 17 | 24 | 21 | 24 | 73 | 34 | 25 | 36 | 11 | 16 | 13 |
| 9 | 14 | 16 | 22 | 20 | 24 | 72 | 57 | 23 | 20 | 13 | 23 | 12 |
| 10 | 20 | 16 | 23 | 19 | 23 | 72 | 37 | 25 | 19 | 12 | 48 | 12 |
| 11 | 17 | 15 | 24 | 19 | 22 | 52 | 40 | 35 | 17 | 12 | 46 | 12 |
| 12 | 15 | 14 | 28 | 19 | 22 | 44 | 98 | 30 | 15 | 12 | 27 | 12 |
| 13 | 14 | 16 | 22 | 19 | 22 | 49 | 70 | 28 | 14 | 11 | 19 | 12 |
| 14 | 16 | 24 | 26 | 19 | 22 | 67 | 50 | 35 | 14 | 11 | 18 | 12 |
| 15 | 21 | 19 | 26 | 18 | 21 | 46 | 39 | 39 | 13 | 12 | 16 | 12 |
| 16 | 24 | 17 | 26 | 18 | 21 | 39 | 35 | 28 | 12 | 11 | 14 | 11 |
| 17 | 20 | 20 | 26 | 18 | 21 | 41 | 32 | 23 | 12 | 11 | 18 | 11 |
| 18 | 18 | 21 | 26 | 18 | 21 | 45 | 29 | 20 | 12 | 11 | 33 | 11 |
| 19 | 17 | 18 | 26 | 19 | 21 | 54 | 26 | 20 | 12 | 11 | 25 | 9.9 |
| 20 | 16 | 16 | 29 | 20 | 21 | 50 | 25 | 21 | 15 | 11 | 24 | 10 |
| 21 | 15 | 16 | 34 | 21 | 22 | 40 | 25 | 19 | 17 | 11 | 21 | 11 |
| 22 | 15 | 16 | 28 | 21 | 25 | 34 | 25 | 17 | 13 | 11 | 18 | 10 |
| 23 | 18 | 25 | 26 | 21 | 32 | 37 | 23 | 17 | 12 | 11 | 17 | 10 |
| 24 | 19 | 24 | 25 | 20 | 44 | 42 | 27 | 17 | 12 | 11 | 18 | 10 |
| 25 | 19 | 20 | 24 | 19 | 49 | 39 | 41 | 17 | 11 | 11 | 16 | 11 |
| 26 | 30 | 18 | 24 | 19 | 46 | 33 | 75 | 16 | 11 | 12 | 15 | 10 |
| 27 | 24 | 20 | 23 | 18 | 39 | 31 | 63 | 15 | 11 | 11 | 15 | 10 |
| 28 | 20 | 20 | 22 | 18 | 36 | 29 | 54 | 16 | 11 | 11 | 15 | 10 |
| 29 | 18 | 19 | 23 | 18 | --- | 42 | 43 | 16 | 12 | 11 | 28 | 10 |
| 30 | 17 | 21 | 33 | 17 | --- | 94 | 50 | 16 | 17 | 11 | 25 | 10 |
| 31 | 17 | --- | 57 | 17 | --- | 79 | --- | 16 | --- | 12 | 20 | --- |
| TOTAL | 537 | 545 | 855 | 755 | 708 | 2097 | 1304 | 828 | 435 | 357 | 662 | 353.9 |
| MEAN | 17.3 | 18.2 | 27.6 | 24.4 | 25.3 | 67.6 | 43.5 | 26.7 | 14.5 | 11.5 | 21.4 | 11.8 |
| MAX | 30 | 25 | 57 | 94 | 49 | 406 | 98 | 70 | 36 | 15 | 48 | 17 |
| MIN | 12 | 14 | 21 | 17 | 17 | 29 | 23 | 15 | 11 | 11 | 11 | 9.9 |
| CFSM | 1.01 | 1.06 | 1.61 | 1.42 | 1.47 | 3.93 | 2.53 | 1.55 | .84 | .67 | 1.24 | .69 |
| IN. | 1.16 | 1.18 | 1.85 | 1.63 | 1.53 | 4.54 | 2.82 | 1.79 | .94 | .77 | 1.43 | .77 |
| CAL YR 1978 | TOTAL | 9123.0 | MEAN | 25.0 | MAX | 170 | MIN | 10 | CFSM | 1.45 | IN | 19.73 |
| WTR YR 1979 | TOTAL | 9436.9 | MEAN | 25.9 | MAX | 406 | MIN | 9.9 | CFSM | 1.51 | IN | 20.41 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04096100 GALENA RIVER NEAR LAPORTE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|--------------|------|-----------------------------|---|---|--|---|---|
| OCT 04... | 1115 | -- | 13 | 20 | .74 | -- | -- |
| NOV 07... | 1625 | 8.5 | 18 | 22 | 1.1 | -- | -- |
| DEC 06... | 1530 | 4.0 | 23 | 28 | 1.7 | -- | -- |
| APR 03... | 1535 | 9.5 | 50 | 94 | 12 | 79 | 100 |
| MAY 22... | 1030 | 12.0 | 18 | 43 | 2.1 | -- | -- |
| JUN 27... | 1300 | 18.0 | 10 | 29 | .85 | -- | -- |
| JUL 31... | 1310 | 22.0 | 11 | 45 | 1.4 | 89 | -- |

04097970 LIME LAKE OUTLET AT PANAMA, IN

LOCATION.--Lat 41°42'46", long 85°07'10", in NW¼NW¼ sec.35, T.38 N., R.12 E., Steuben County, Hydrologic Unit 04050001, 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 mi² (45.3 km²), of which 3.68 mi² (9.53 km²) 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Occasional regulation by control structure for Lime Lake.

AVERAGE DISCHARGE.--10 years, 6.63 ft³/s (0.188 m³/s), 5.14 in/yr (131 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34 ft³/s (0.96 m³/s) Mar. 5, 1976, gage height, 4.59 ft (1.399 m); no flow at times during 1971 and 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft³/s (0.54 m³/s) Apr. 30, gage height, 3.94 ft (1.201 m); minimum daily, 0.42 ft³/s (0.012 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1 | .44 | 2.1 | 5.5 | 3.4 | 5.0 | 5.0 | 11 | 17 | 4.8 | 4.5 | 1.4 | 2.0 |
| 2 | .45 | 2.1 | 5.4 | 3.5 | 5.0 | 5.0 | 11 | 16 | 5.0 | 4.1 | 1.6 | 1.8 |
| 3 | .50 | 2.2 | 6.1 | 3.5 | 5.0 | 5.3 | 11 | 17 | 4.8 | 4.0 | 1.5 | 1.7 |
| 4 | .48 | 2.4 | 5.5 | 3.6 | 5.0 | 7.1 | 11 | 16 | 4.6 | 5.0 | 1.6 | 1.6 |
| 5 | .57 | 2.6 | 4.6 | 3.6 | 4.9 | 8.1 | 11 | 15 | 4.1 | 4.6 | 1.8 | 1.5 |
| 6 | .71 | 2.5 | 5.9 | 3.7 | 4.9 | 8.4 | 9.6 | 15 | 4.1 | 4.2 | 1.8 | 1.4 |
| 7 | .67 | 2.7 | 6.2 | 3.8 | 4.9 | 8.6 | 9.8 | 14 | 4.4 | 3.9 | 1.7 | 1.3 |
| 8 | .62 | 10 | 6.4 | 4.0 | 4.9 | 8.6 | 11 | 14 | 4.7 | 3.6 | 1.7 | 1.1 |
| 9 | .68 | 15 | 6.4 | 4.0 | 4.7 | 8.9 | 13 | 13 | 4.8 | 3.9 | 1.9 | .98 |
| 10 | .61 | 13 | 6.1 | 4.0 | 4.7 | 9.3 | 13 | 13 | 4.7 | 3.7 | 2.0 | .92 |
| 11 | .65 | 12 | 6.0 | 4.0 | 4.9 | 9.1 | 14 | 13 | 4.0 | 3.4 | 1.9 | .89 |
| 12 | .61 | 11 | 5.9 | 4.0 | 5.0 | 8.9 | 16 | 13 | 3.5 | 3.1 | 1.7 | .87 |
| 13 | .73 | 10 | 5.7 | 4.2 | 5.0 | 8.9 | 15 | 12 | 3.2 | 2.9 | 1.4 | .85 |
| 14 | .68 | 9.9 | 5.6 | 4.8 | 5.0 | 9.0 | 15 | 12 | 2.8 | 2.7 | 1.3 | .75 |
| 15 | .73 | 9.3 | 5.4 | 4.8 | 4.9 | 8.8 | 14 | 11 | 2.5 | 2.6 | 1.2 | .74 |
| 16 | .71 | 8.8 | 5.3 | 4.9 | 4.9 | 8.5 | 14 | 10 | 2.3 | 2.5 | 1.2 | .70 |
| 17 | .73 | 9.4 | 5.1 | 5.0 | 4.9 | 8.4 | 13 | 9.7 | 2.1 | 2.3 | 1.4 | .71 |
| 18 | .81 | 8.9 | 5.0 | 5.0 | 4.8 | 8.4 | 14 | 8.9 | 2.0 | 2.1 | 1.9 | .74 |
| 19 | .84 | 8.1 | 5.0 | 5.0 | 4.8 | 8.4 | 14 | 7.9 | 1.9 | 1.9 | 2.0 | .74 |
| 20 | .94 | 7.7 | 5.0 | 5.2 | 4.7 | 8.6 | 15 | 7.1 | 1.7 | 1.8 | 2.7 | .67 |
| 21 | 1.0 | 7.4 | 3.9 | 5.2 | 4.9 | 8.5 | 15 | 6.1 | 1.5 | 1.7 | 2.8 | .69 |
| 22 | 1.1 | 6.9 | 2.7 | 5.2 | 5.0 | 8.5 | 16 | 5.8 | 1.4 | 1.6 | 2.6 | .69 |
| 23 | 1.2 | 6.9 | 2.7 | 5.2 | 5.1 | 8.5 | 15 | 5.4 | 1.2 | 1.5 | 2.6 | .69 |
| 24 | 1.4 | 6.3 | 2.8 | 5.3 | 5.2 | 8.2 | 16 | 5.4 | 1.2 | 1.5 | 2.4 | .68 |
| 25 | 1.5 | 6.1 | 2.8 | 5.3 | 5.1 | 7.7 | 17 | 5.6 | 1.1 | 1.4 | 2.1 | .64 |
| 26 | 1.9 | 5.9 | 2.8 | 5.3 | 5.0 | 7.6 | 17 | 5.2 | 1.1 | 1.4 | 2.1 | .66 |
| 27 | 2.0 | 5.8 | 2.8 | 5.2 | 5.0 | 7.6 | 17 | 4.9 | 1.3 | 1.3 | 1.9 | .69 |
| 28 | 2.0 | 5.6 | 2.7 | 5.2 | 4.9 | 8.3 | 18 | 4.7 | 1.1 | 1.3 | 1.9 | .67 |
| 29 | 2.0 | 5.9 | 2.8 | 5.2 | --- | 9.4 | 18 | 4.5 | 2.2 | 1.3 | 2.0 | .48 |
| 30 | 2.0 | 5.5 | 3.0 | 5.0 | --- | 12 | 18 | 4.8 | 4.7 | 1.3 | 2.0 | .42 |
| 31 | 2.0 | --- | 3.1 | 5.1 | --- | 11 | --- | 4.9 | --- | 1.3 | 2.1 | --- |
| TOTAL | 31.26 | 212.0 | 144.2 | 141.2 | 138.1 | 258.6 | 422.4 | 311.9 | 88.8 | 82.4 | 58.2 | 28.27 |
| MEAN | 1.01 | 7.07 | 4.65 | 4.55 | 4.93 | 8.34 | 14.1 | 10.1 | 2.96 | 2.66 | 1.88 | .94 |
| MAX | 2.0 | 15 | 6.4 | 5.3 | 5.2 | 12 | 18 | 17 | 5.0 | 5.0 | 2.8 | 2.0 |
| MIN | .44 | 2.1 | 2.7 | 3.4 | 4.7 | 5.0 | 9.6 | 4.5 | 1.1 | 1.3 | 1.2 | .42 |
| CFSM | .06 | .40 | .27 | .26 | .28 | .48 | .81 | .58 | .17 | .15 | .11 | .05 |
| IN. | .07 | .45 | .31 | .30 | .29 | .55 | .90 | .66 | .19 | .18 | .12 | .06 |
| CAL YR 1978 | TOTAL | 2384.01 | MEAN | 6.53 | MAX | 19 | MIN | .12 | CFSM | .37 | IN | 5.07 |
| WTR YR 1979 | TOTAL | 1917.33 | MEAN | 5.25 | MAX | 18 | MIN | .42 | CFSM | .30 | IN | 4.08 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099000 ST. JOSEPH RIVER AT MOTTVILLE, MI

LOCATION.--41°48'03", long 85°45'22", in SW¼ sec.6, T.8 S., R.12 W., Michigan meridian, St. Joseph County, Hydrologic Unit 04050001, on right bank 500 ft (152 m) upstream from bridge on U.S. Highway 12 at Mottville, 0.4 mi (0.6 km) downstream from Michigan Power Co. hydroelectric plant, 4 mi (6 km) upstream from Pigeon River, and at mile 96 (154 km).

DRAINAGE AREA.--1,866 mi² (4,833 km²).

PERIOD OF RECORD.--October 1923 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 1387: 1930, 1932, 1938, 1940-42, 1945. WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 755.3 ft (230.22 m) Michigan Power Co. datum. Prior to Oct. 1, 1951, at site 0.4 mi (0.6 km) upstream at datum 4.2 ft (1.28 m) higher.

REMARKS.--Records good except those for the winter period, which are poor. Flow regulated by powerplants above station. Several observations of water temperature were made during the year. National Weather Service gage-height telemark at station.

AVERAGE DISCHARGE.--56 years, 1,541 ft³/s (43.64 m³/s), 11.21 in/yr (285 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Apr. 27, 1950, gage height, 10.76 ft (3.280 m), present datum; minimum daily, 39 ft³/s (1.10 m³/s) Oct. 19, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,310 ft³/s (150 m³/s) Mar. 9, gage height, 6.90 ft (2.103 m); minimum, 84 ft³/s (2.38 m³/s) Sept. 26, gage height, 1.12 ft (0.341 m); minimum daily, 526 ft³/s (14.9 m³/s) Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|-------|----------|-------|-------|-------|
| 1 | 1230 | 1130 | 1200 | 1660 | 1450 | 1880 | 3390 | 3300 | 1660 | 1840 | 965 | 1390 |
| 2 | 1240 | 1170 | 1320 | 2060 | 1400 | 1960 | 3620 | 3260 | 1740 | 1760 | 976 | 1280 |
| 3 | 1190 | 1210 | 1360 | 1870 | 1400 | 2010 | 3650 | 3360 | 1640 | 1430 | 1340 | 1310 |
| 4 | 1090 | 1170 | 1590 | 1910 | 1350 | 2150 | 3770 | 3330 | 1700 | 2110 | 1030 | 1070 |
| 5 | 1070 | 1150 | 1640 | 2210 | 1250 | 3230 | 3660 | 3310 | 1420 | 1840 | 1070 | 1480 |
| 6 | 1180 | 1180 | 1600 | 2300 | 1050 | 4330 | 3590 | 3320 | 1410 | 1800 | 1460 | 1150 |
| 7 | 1250 | 1040 | 1820 | 2290 | 1400 | 5010 | 3540 | 3370 | 1420 | 1690 | 1190 | 1090 |
| 8 | 1270 | 1120 | 2070 | 2100 | 1400 | 5050 | 3540 | 3220 | 1540 | 1670 | 1200 | 926 |
| 9 | 1290 | 1190 | 1800 | 1900 | 1300 | 5220 | 3510 | 3130 | 1490 | 1530 | 1110 | 996 |
| 10 | 1630 | 1070 | 1500 | 1700 | 1250 | 5230 | 3550 | 2930 | 1620 | 1480 | 1520 | 1350 |
| 11 | 1220 | 1150 | 1430 | 1650 | 1250 | 4940 | 3610 | 2900 | 1890 | 1610 | 1530 | 1310 |
| 12 | 1270 | 1090 | 1670 | 1550 | 1300 | 4710 | 3720 | 3110 | 1690 | 1280 | 1250 | 1140 |
| 13 | 1290 | 929 | 1660 | 1450 | 1350 | 4460 | 3750 | 3070 | 1680 | 1070 | 1010 | 1160 |
| 14 | 1280 | 1200 | 1680 | 1400 | 1200 | 4330 | 3800 | 2940 | 1620 | 1270 | 965 | 984 |
| 15 | 1490 | 1410 | 1760 | 1300 | 1100 | 3930 | 3730 | 2880 | 1520 | 1210 | 1050 | 1060 |
| 16 | 1420 | 1050 | 1420 | 1400 | 1150 | 3840 | 3550 | 2810 | 1360 | 1050 | 1020 | 620 |
| 17 | 1330 | 1430 | 1490 | 1300 | 1150 | 3770 | 3510 | 2620 | 1370 | 1260 | 1090 | 526 |
| 18 | 1190 | 1300 | 1710 | 1350 | 1150 | 3450 | 3380 | 2610 | 1000 | 981 | 956 | 690 |
| 19 | 1300 | 1300 | 1590 | 1400 | 1150 | 3500 | 3140 | 2450 | 1230 | 768 | 1450 | 692 |
| 20 | 1180 | 1280 | 1420 | 1400 | 1100 | 3480 | 3000 | 2240 | 1240 | 867 | 1730 | 712 |
| 21 | 1070 | 1370 | 1470 | 1400 | 1050 | 3410 | 2940 | 2290 | 1490 | 822 | 1780 | 864 |
| 22 | 896 | 1350 | 1600 | 1400 | 1300 | 3180 | 2820 | 2010 | 1390 | 868 | 1620 | 905 |
| 23 | 998 | 1220 | 1340 | 1500 | 1550 | 3250 | 2740 | 2070 | 1110 | 1080 | 1670 | 626 |
| 24 | 771 | 1330 | 1240 | 1550 | 1550 | 3270 | 2710 | 2020 | 1100 | 844 | 1700 | 742 |
| 25 | 859 | 1410 | 1450 | 1500 | 1360 | 3100 | 2600 | 1850 | 1020 | 845 | 1510 | 815 |
| 26 | 1020 | 1390 | 1660 | 1500 | 1530 | 2920 | 2910 | 1570 | 1160 | 837 | 1300 | 711 |
| 27 | 1020 | 1520 | 1250 | 1450 | 1510 | 2900 | 3050 | 1790 | 873 | 807 | 1590 | 780 |
| 28 | 1190 | 1400 | 1540 | 1450 | 1840 | 2820 | 3120 | 1830 | 1200 | 703 | 1840 | 715 |
| 29 | 1240 | 1370 | 1260 | 1500 | --- | 2790 | 3060 | 1630 | 1130 | 644 | 1530 | 700 |
| 30 | 1270 | 1370 | 1240 | 1500 | --- | 2800 | 3160 | 1510 | 1700 | 953 | 1480 | 716 |
| 31 | 1140 | --- | 1390 | 1500 | --- | 3180 | --- | 1630 | --- | 1170 | 1510 | --- |
| TOTAL | 36884 | 37299 | 47170 | 50450 | 36840 | 110100 | 100120 | 80360 | 42413 | 38089 | 41442 | 28510 |
| MEAN | 1190 | 1243 | 1522 | 1627 | 1316 | 3552 | 3337 | 2592 | 1414 | 1229 | 1337 | 950 |
| MAX | 1630 | 1520 | 2070 | 2300 | 1840 | 5230 | 3800 | 3370 | 1890 | 2110 | 1840 | 1480 |
| MIN | 771 | 929 | 1200 | 1300 | 1050 | 1880 | 2600 | 1510 | 873 | 644 | 956 | 526 |
| CFSM | .64 | .67 | .82 | .87 | .71 | 1.90 | 1.79 | 1.39 | .76 | .66 | .72 | .51 |
| IN. | .74 | .74 | .94 | 1.01 | .73 | 2.19 | 2.00 | 1.60 | .85 | .76 | .83 | .57 |
| CAL YR 1978 | TOTAL | 663891 | MEAN | 1819 | MAX | 5290 | MIN | 579 | CFSM .98 | IN | 13.24 | |
| WTR YR 1979 | TOTAL | 649677 | MEAN | 1780 | MAX | 5230 | MIN | 526 | CFSM .95 | IN | 12.95 | |

04099510 PIGEON CREEK NEAR ANGOLA, IN

LOCATION.--Lat 41°38'04", long 85°06'35", in NW¼SE¼ sec.26, T.37 N., R.12 E., Steuben County, Hydrologic Unit 04050001, on left bank 5 ft (2 m) upstream from bridge on U.S. Highway 20, 1.3 miles (2.1 km) downstream from outlet of Hogback Lake, 1.3 miles (2.1 km) southeast of Flint, and 5.8 miles (9.3 km) west of Angola.

DRAINAGE AREA.--106 mi² (275 km²), of which 22.5 mi² (58.3 km²) does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint". Published as Pigeon Creek at Hogback Lake Outlet near Angola, October 1947 to September 1971, and Pigeon Creek and Hogback Lake near Angola, October 1971 to September 1974.

REVISED RECORDS.--WSP 1144: 1948. WSP 2111: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 940.00 ft (286.512 m) National Geodetic Vertical Datum of 1929. Prior to October 1947, nonrecording gage at site 0.3 mile (0.5 km) downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 1.2 miles (1.9 km) upstream at same datum. Aug. 4, 1953, to Apr. 3, 1974, recording gage at site 1.3 miles (2.1 km) upstream at same datum. Apr. 18, 1974, to Sept. 2, 1974, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--34 years, 74.9 ft³/s (2.121 m³/s), 9.60 in/yr (244 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 744 ft³/s (21.1 m³/s) Apr. 8, 1950, gage height, 14.95 ft (4.557 m); minimum daily, 3.4 ft³/s (0.096 m³/s) Oct. 25-27, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 398 ft³/s (11.3 m³/s) Mar. 8, gage height, 11.06 ft (3.371 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 3-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 13 | 14 | 25 | 44 | 24 | 21 | 192 | 118 | 48 | 30 | 19 | 53 |
| 2 | 12 | 15 | 25 | 54 | 23 | 24 | 213 | 120 | 46 | 34 | 20 | 52 |
| 3 | 11 | 15 | 30 | 64 | 22 | 40 | 218 | 125 | 44 | 37 | 30 | 51 |
| 4 | 11 | 15 | 31 | 63 | 22 | 140 | 212 | 132 | 41 | 39 | 38 | 48 |
| 5 | 11 | 14 | 34 | 61 | 21 | 247 | 203 | 139 | 38 | 39 | 43 | 44 |
| 6 | 11 | 14 | 36 | 60 | 21 | 342 | 193 | 143 | 38 | 39 | 44 | 42 |
| 7 | 11 | 14 | 39 | 58 | 20 | 385 | 186 | 142 | 37 | 38 | 45 | 40 |
| 8 | 11 | 15 | 41 | 55 | 20 | 398 | 180 | 136 | 36 | 36 | 44 | 36 |
| 9 | 11 | 15 | 42 | 53 | 19 | 391 | 183 | 128 | 35 | 37 | 44 | 34 |
| 10 | 11 | 15 | 42 | 51 | 19 | 368 | 196 | 120 | 34 | 36 | 46 | 32 |
| 11 | 11 | 15 | 42 | 48 | 18 | 335 | 206 | 113 | 34 | 34 | 49 | 31 |
| 12 | 11 | 14 | 41 | 47 | 18 | 298 | 215 | 106 | 33 | 33 | 54 | 29 |
| 13 | 11 | 15 | 39 | 45 | 18 | 264 | 222 | 99 | 32 | 32 | 55 | 27 |
| 14 | 11 | 15 | 38 | 42 | 18 | 240 | 223 | 94 | 30 | 30 | 54 | 25 |
| 15 | 11 | 15 | 37 | 41 | 18 | 224 | 218 | 90 | 29 | 28 | 51 | 24 |
| 16 | 11 | 16 | 36 | 39 | 17 | 209 | 208 | 86 | 27 | 26 | 44 | 23 |
| 17 | 11 | 17 | 36 | 37 | 17 | 193 | 196 | 82 | 25 | 24 | 43 | 22 |
| 18 | 11 | 18 | 35 | 36 | 17 | 180 | 183 | 78 | 24 | 20 | 44 | 21 |
| 19 | 11 | 19 | 35 | 34 | 17 | 169 | 170 | 72 | 23 | 20 | 45 | 21 |
| 20 | 11 | 19 | 34 | 33 | 18 | 163 | 159 | 66 | 23 | 19 | 50 | 20 |
| 21 | 11 | 19 | 34 | 33 | 19 | 158 | 148 | 63 | 23 | 19 | 57 | 20 |
| 22 | 12 | 19 | 34 | 32 | 20 | 152 | 137 | 54 | 22 | 19 | 65 | 19 |
| 23 | 14 | 21 | 34 | 31 | 21 | 148 | 128 | 57 | 22 | 18 | 70 | 19 |
| 24 | 17 | 22 | 34 | 30 | 22 | 144 | 122 | 56 | 21 | 18 | 71 | 19 |
| 25 | 17 | 22 | 34 | 29 | 23 | 141 | 118 | 56 | 21 | 19 | 67 | 18 |
| 26 | 18 | 23 | 33 | 28 | 22 | 134 | 115 | 55 | 21 | 19 | 60 | 18 |
| 27 | 19 | 25 | 33 | 27 | 21 | 128 | 114 | 54 | 20 | 19 | 55 | 18 |
| 28 | 17 | 25 | 32 | 26 | 20 | 122 | 114 | 53 | 20 | 19 | 51 | 18 |
| 29 | 16 | 26 | 32 | 26 | --- | 122 | 114 | 51 | 22 | 19 | 51 | 17 |
| 30 | 15 | 25 | 32 | 25 | --- | 137 | 116 | 50 | 26 | 19 | 51 | 17 |
| 31 | 14 | --- | 35 | 24 | --- | 164 | --- | 49 | --- | 18 | 52 | --- |
| TOTAL | 393 | 536 | 1085 | 1276 | 555 | 6181 | 5202 | 2787 | 895 | 837 | 1512 | 858 |
| MEAN | 12.7 | 17.9 | 35.0 | 41.2 | 19.8 | 199 | 173 | 89.9 | 29.8 | 27.0 | 48.8 | 28.6 |
| MAX | 19 | 26 | 42 | 64 | 24 | 398 | 223 | 143 | 48 | 39 | 71 | 53 |
| MIN | 11 | 14 | 25 | 24 | 17 | 21 | 114 | 49 | 20 | 18 | 19 | 17 |
| CFSM | .12 | .17 | .33 | .39 | .19 | 1.88 | 1.63 | .85 | .28 | .26 | .46 | .27 |
| IN. | .14 | .19 | .38 | .45 | .19 | 2.17 | 1.83 | .98 | .31 | .29 | .53 | .30 |

CAL YR 1978 TOTAL 34187 MEAN 93.7 MAX 679 MIN 11 CFSM .88 IN 12.00
WTR YR 1979 TOTAL 22117 MEAN 60.6 MAX 398 MIN 11 CFSM .57 IN 7.76

STREAMS TRIBUTARY TO LAKE MICHIGAN
04099510 PIGEON CREEK NEAR ANGOLA, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|-------|------|-----------------------------|---|---|--|---|---|
| OCT | | | | | | | |
| 03... | 1230 | 15.0 | 11 | 74 | 2.2 | -- | -- |
| 10... | 1230 | 15.0 | 11 | 25 | .77 | -- | -- |
| 15... | 1230 | -- | 11 | 55 | 1.6 | -- | -- |
| 17... | 1230 | 12.0 | 10 | 34 | 1.0 | -- | -- |
| 24... | 1230 | -- | 16 | 14 | .64 | -- | -- |
| 31... | 1500 | 11.0 | 13 | 24 | .89 | -- | -- |
| NOV | | | | | | | |
| 07... | 1300 | 10.0 | 14 | 32 | 1.3 | -- | -- |
| 14... | 1300 | 8.0 | 15 | 19 | .77 | -- | -- |
| 21... | 1300 | 6.0 | 19 | 29 | 1.5 | -- | -- |
| 28... | 1600 | 2.0 | 25 | 25 | 1.7 | -- | -- |
| DEC | | | | | | | |
| 05... | 1300 | 2.0 | 34 | 38 | 3.5 | -- | -- |
| 12... | 1300 | 2.0 | 41 | 37 | 4.1 | -- | -- |
| 19... | 1300 | 4.0 | 34 | 22 | 2.0 | -- | -- |
| 26... | 1300 | 4.0 | 33 | 22 | 2.0 | -- | -- |
| JAN | | | | | | | |
| 02... | 1300 | 2.0 | 54 | 36 | 5.3 | -- | -- |
| 09... | 1515 | 2.5 | 52 | 14 | 2.0 | -- | -- |
| 16... | 1330 | 2.0 | 39 | 12 | 1.3 | -- | -- |
| 23... | 1300 | 2.0 | 32 | 15 | 1.3 | -- | -- |
| 30... | 1330 | 2.0 | 25 | 8 | .54 | -- | -- |
| FEB | | | | | | | |
| 06... | 1330 | 1.0 | 21 | 5 | .28 | -- | -- |
| 13... | 1330 | 1.0 | 18 | 6 | .29 | -- | -- |
| 20... | 1530 | 1.5 | 18 | 6 | .29 | -- | -- |
| 27... | 1330 | 4.0 | 21 | 28 | 1.6 | 90 | 100 |
| MAR | | | | | | | |
| 06... | 1330 | 3.0 | 359 | 143 | 139 | 95 | -- |
| 07... | 1500 | -- | 373 | 20 | 20 | 98 | -- |
| 13... | 1330 | 3.0 | 264 | 90 | 64 | 97 | 100 |
| 20... | 1330 | 5.0 | 158 | 52 | 22 | 90 | -- |
| 27... | 1300 | 6.0 | 122 | 42 | 14 | 99 | 100 |
| APR | | | | | | | |
| 03... | 1330 | 6.5 | 214 | 60 | 35 | -- | -- |
| 10... | 1330 | 10.0 | 196 | 17 | 9.0 | -- | -- |
| 17... | 1330 | 9.0 | 198 | 46 | 25 | -- | -- |
| 24... | 1330 | 16.0 | 122 | 34 | 11 | -- | -- |
| MAY | | | | | | | |
| 01... | 1300 | 13.0 | 119 | 38 | 12 | -- | -- |

04099510 PIGEON CREEK NEAR ANGOLA, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) |
|-------|------|-----------------------------|---|--|---|
| MAY | | | | | |
| 08... | 1330 | 16.0 | 135 | 32 | 12 |
| 15... | 1300 | 17.0 | 93 | 52 | 13 |
| 22... | 1330 | 20.0 | 60 | 28 | 4.6 |
| 22... | 1900 | 17.5 | 58 | 16 | 2.5 |
| 29... | 1300 | 18.0 | 51 | 28 | 3.9 |
| JUN | | | | | |
| 05... | 1300 | -- | 38 | 26 | 2.7 |
| 12... | 1330 | 24.0 | 31 | 41 | 3.5 |
| 19... | 1330 | 24.0 | 23 | 29 | 1.8 |
| 26... | 1400 | 22.5 | 20 | 35 | 2.0 |
| JUL | | | | | |
| 03... | 1330 | -- | 37 | 35 | 3.5 |
| 10... | 1330 | -- | 35 | 37 | 3.5 |
| 17... | 1330 | -- | 24 | 42 | 2.8 |
| 24... | 1330 | 28.0 | 21 | 25 | 1.5 |
| 31... | 1330 | 28.0 | 21 | 44 | 2.5 |
| AUG | | | | | |
| 07... | 1130 | 26.0 | 44 | 20 | 2.4 |
| 14... | 1300 | 23.0 | 53 | 10 | 1.4 |

04099610 PRETTY LAKE INLET NEAR STROH, IN

LOCATION.--Lat 41°34'49", long 85°14'59", in SW¼NW¼ sec.15, T.36 N., R.11 E., Lagrange County, Hydrologic Unit 04050001, on left bank 400 ft (122 m) upstream from mouth, 2.6 miles (4.2 km) west of Stroh.

DRAINAGE AREA.--1.96 mi² (5.08 km²), of which 1.32 mi² (3.42 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1963 to current year.

REVISED RECORDS.--WSP 1911: Drainage area.

GAGE.--Water-stage recorder with steel V-notch weir, 0.5 ft³/s (0.014 m³/s) notch capacity. Datum of gage is 960.00 ft (292.608 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--16 years, 0.48 ft³/s (0.014 m³/s), 3.33 in/yr (85 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft³/s (0.93 m³/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 at times during 1963-65.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft³/s (0.54 m³/s) Mar. 4, gage height, 7.91 ft (2.411 m); minimum daily, 0.05 ft³/s (0.001 m³/s) June 27, Sept. 23-30.

NOTE.--No gage-height record Jan. 12 to Feb. 21, Apr. 27 to June 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------------|----------|--------|---------|----------|---------|-------|-------|------|------|------|------|
| 1 | .12 | .09 | .13 | 1.4 | .14 | .74 | 1.5 | .86 | .16 | 1.2 | .13 | .11 |
| 2 | .10 | .08 | .20 | 1.1 | .13 | 2.2 | 1.3 | .90 | .15 | .85 | .12 | .09 |
| 3 | .11 | .09 | .46 | .90 | .12 | 4.9 | 1.1 | .96 | .15 | .66 | .08 | .08 |
| 4 | .10 | .09 | .43 | .70 | .12 | 13 | .99 | 1.0 | .14 | .49 | .11 | .08 |
| 5 | .11 | .10 | .28 | .58 | .11 | 3.6 | 1.1 | .90 | .14 | .33 | .18 | .08 |
| 6 | .11 | .10 | .25 | .46 | .10 | 2.4 | 1.2 | .85 | .13 | .27 | .12 | .07 |
| 7 | .10 | .12 | .30 | .37 | .10 | 2.1 | .98 | .80 | .13 | .23 | .09 | .07 |
| 8 | .09 | .12 | .41 | .30 | .09 | 1.7 | 1.2 | .74 | .12 | .17 | .10 | .06 |
| 9 | .09 | .12 | .32 | .25 | .09 | 1.7 | 1.9 | .69 | .11 | .23 | .15 | .06 |
| 10 | .09 | .11 | .27 | .23 | .09 | 1.6 | 1.2 | .64 | .11 | .11 | .36 | .06 |
| 11 | .09 | .11 | .35 | .22 | .09 | 1.3 | 1.1 | .60 | .10 | .16 | .22 | .07 |
| 12 | .09 | .12 | .31 | .20 | .08 | 1.2 | 1.4 | .62 | .10 | .17 | .16 | .07 |
| 13 | .09 | .15 | .27 | .19 | .08 | 1.2 | 1.1 | .64 | .09 | .16 | .13 | .07 |
| 14 | .09 | .18 | .24 | .18 | .08 | 1.6 | .94 | .66 | .09 | .17 | .11 | .07 |
| 15 | .09 | .10 | .22 | .18 | .08 | 1.3 | .84 | .70 | .08 | .15 | .09 | .07 |
| 16 | .10 | .08 | .21 | .17 | .08 | 1.2 | .75 | .60 | .08 | .12 | .09 | .06 |
| 17 | .08 | .17 | .20 | .16 | .08 | 1.1 | .67 | .54 | .07 | .11 | .26 | .06 |
| 18 | .08 | .24 | .18 | .15 | .08 | 1.2 | .57 | .47 | .07 | .10 | .38 | .06 |
| 19 | .08 | .24 | .20 | .15 | .09 | 1.3 | .50 | .42 | .07 | .09 | .25 | .06 |
| 20 | .08 | .21 | .27 | .14 | .09 | 1.3 | .46 | .37 | .09 | .09 | .34 | .06 |
| 21 | .08 | .21 | .23 | .14 | .09 | 1.3 | .43 | .33 | .08 | .09 | .28 | .06 |
| 22 | .09 | .21 | .21 | .14 | .10 | 1.2 | .40 | .29 | .08 | .09 | .21 | .06 |
| 23 | .09 | .23 | .20 | .15 | .16 | 1.3 | .39 | .26 | .07 | .08 | .18 | .05 |
| 24 | .09 | .22 | .19 | .15 | .25 | 1.3 | .42 | .23 | .07 | .10 | .15 | .05 |
| 25 | .10 | .21 | .18 | .16 | .21 | 1.2 | .56 | .20 | .06 | .10 | .13 | .05 |
| 26 | .11 | .18 | .17 | .16 | .18 | .89 | .62 | .20 | .06 | .09 | .12 | .05 |
| 27 | .10 | .18 | .16 | .16 | .15 | .79 | .68 | .19 | .05 | .08 | .12 | .05 |
| 28 | .10 | .13 | .15 | .16 | .30 | .85 | .73 | .18 | .07 | .07 | .12 | .05 |
| 29 | .09 | .06 | .14 | .15 | --- | 1.8 | .78 | .17 | .45 | .07 | .19 | .05 |
| 30 | .09 | .10 | .35 | .15 | --- | 2.7 | .82 | .17 | 1.7 | .08 | .21 | .05 |
| 31 | .10 | --- | 1.1 | .14 | --- | 2.1 | --- | .16 | --- | .08 | .14 | --- |
| TOTAL | 2.93 | 4.35 | 8.58 | 9.69 | 3.36 | 62.07 | 26.63 | 16.34 | 4.87 | 6.79 | 5.32 | 1.93 |
| MEAN | .095 | .15 | .28 | .31 | .12 | 2.00 | .89 | .53 | .16 | .22 | .17 | .064 |
| MAX | .12 | .24 | 1.1 | 1.4 | .30 | 13 | 1.9 | 1.0 | 1.7 | 1.2 | .38 | .11 |
| MIN | .08 | .06 | .13 | .14 | .08 | .74 | .39 | .16 | .05 | .07 | .08 | .05 |
| CFSM | .05 | .08 | .14 | .16 | .06 | 1.02 | .45 | .27 | .08 | .11 | .09 | .03 |
| IN. | .06 | .08 | .16 | .18 | .06 | 1.18 | .51 | .31 | .09 | .13 | .10 | .04 |
| CAL YR 1978 | TOTAL 184.38 | MEAN .51 | MAX 14 | MIN .01 | CFSM .26 | IN 3.50 | | | | | | |
| WTR YR 1979 | TOTAL 152.86 | MEAN .42 | MAX 13 | MIN .05 | CFSM .21 | IN 2.90 | | | | | | |

04099750 PIGEON RIVER NEAR SCOTT, IN

LOCATION.--Lat 41°44'56", long 85°34'35", in SE¼NW¼ sec.14, T.38 N., R.8 E., Lagrange County, Hydrologic Unit 04050001, 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 mi² (935 km²), of which 53.9 mi² (139.6 km²) does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 2111: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 815.00 ft (248.412 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 333 ft³/s (9.431 m³/s), 12.53 in/yr (318 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Mar. 5, 1976, gage height, 7.07 ft (2.155 m); minimum daily, 42 ft³/s (1.19 m³/s) Oct. 21, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft³/s (37.9 m³/s) Mar. 5, gage height, 6.15 ft (1.875 m); minimum daily, 114 ft³/s (3.23 m³/s) Sept. 28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|---------|----------|----------|-------|------|------|------|------|
| 1 | 135 | 139 | 182 | 387 | 150 | 200 | 685 | 524 | 270 | 328 | 135 | 253 |
| 2 | 134 | 138 | 185 | 433 | 145 | 230 | 683 | 502 | 264 | 272 | 159 | 240 |
| 3 | 137 | 137 | 210 | 400 | 145 | 361 | 701 | 541 | 255 | 245 | 157 | 232 |
| 4 | 141 | 137 | 225 | 360 | 145 | 748 | 725 | 611 | 246 | 246 | 148 | 225 |
| 5 | 146 | 137 | 245 | 325 | 145 | 1270 | 743 | 590 | 236 | 248 | 197 | 217 |
| 6 | 180 | 138 | 230 | 295 | 145 | 1170 | 739 | 545 | 227 | 226 | 195 | 210 |
| 7 | 189 | 144 | 240 | 280 | 145 | 999 | 698 | 521 | 230 | 211 | 200 | 202 |
| 8 | 176 | 146 | 250 | 240 | 145 | 966 | 683 | 500 | 251 | 203 | 237 | 190 |
| 9 | 164 | 140 | 245 | 225 | 145 | 968 | 738 | 484 | 240 | 204 | 278 | 182 |
| 10 | 154 | 139 | 240 | 210 | 140 | 980 | 799 | 467 | 232 | 199 | 343 | 180 |
| 11 | 149 | 137 | 240 | 200 | 145 | 959 | 767 | 467 | 240 | 192 | 310 | 175 |
| 12 | 149 | 135 | 230 | 195 | 145 | 886 | 768 | 467 | 226 | 185 | 268 | 168 |
| 13 | 151 | 138 | 225 | 190 | 145 | 872 | 787 | 470 | 215 | 179 | 255 | 177 |
| 14 | 151 | 155 | 220 | 180 | 145 | 832 | 768 | 458 | 208 | 176 | 237 | 196 |
| 15 | 150 | 158 | 215 | 175 | 145 | 787 | 730 | 440 | 199 | 170 | 227 | 160 |
| 16 | 146 | 151 | 210 | 175 | 145 | 716 | 700 | 416 | 189 | 161 | 210 | 150 |
| 17 | 140 | 163 | 208 | 170 | 145 | 666 | 668 | 394 | 181 | 147 | 205 | 145 |
| 18 | 142 | 194 | 205 | 165 | 145 | 637 | 629 | 374 | 177 | 140 | 255 | 141 |
| 19 | 136 | 184 | 205 | 165 | 150 | 626 | 605 | 356 | 174 | 135 | 263 | 135 |
| 20 | 141 | 170 | 205 | 165 | 155 | 605 | 575 | 345 | 181 | 134 | 318 | 131 |
| 21 | 142 | 164 | 210 | 165 | 170 | 570 | 548 | 329 | 194 | 129 | 343 | 129 |
| 22 | 140 | 161 | 208 | 160 | 180 | 541 | 526 | 316 | 182 | 127 | 310 | 127 |
| 23 | 145 | 174 | 202 | 160 | 200 | 530 | 500 | 299 | 172 | 126 | 295 | 124 |
| 24 | 149 | 187 | 200 | 160 | 190 | 534 | 491 | 294 | 165 | 123 | 295 | 121 |
| 25 | 146 | 177 | 195 | 155 | 180 | 518 | 533 | 290 | 160 | 143 | 283 | 120 |
| 26 | 160 | 169 | 190 | 155 | 180 | 491 | 560 | 269 | 153 | 146 | 270 | 119 |
| 27 | 162 | 172 | 190 | 150 | 180 | 468 | 550 | 272 | 147 | 136 | 260 | 116 |
| 28 | 152 | 174 | 185 | 150 | 185 | 455 | 545 | 270 | 146 | 128 | 255 | 114 |
| 29 | 145 | 168 | 190 | 150 | --- | 486 | 543 | 266 | 169 | 124 | 255 | 115 |
| 30 | 143 | 200 | 205 | 150 | --- | 584 | 529 | 264 | 307 | 122 | 268 | 114 |
| 31 | 141 | --- | 245 | 150 | --- | 672 | --- | 271 | --- | 125 | 263 | --- |
| TOTAL | 4636 | 4726 | 6635 | 6640 | 4380 | 21327 | 19516 | 12612 | 6236 | 5430 | 7694 | 4908 |
| MEAN | 150 | 158 | 214 | 214 | 156 | 688 | 651 | 407 | 208 | 175 | 248 | 164 |
| MAX | 189 | 200 | 250 | 433 | 200 | 1270 | 799 | 611 | 307 | 328 | 343 | 253 |
| MIN | 134 | 135 | 182 | 150 | 140 | 200 | 491 | 264 | 146 | 122 | 135 | 114 |
| CFSM | .42 | .44 | .59 | .59 | .43 | 1.91 | 1.80 | 1.13 | .58 | .49 | .69 | .45 |
| IN. | .48 | .49 | .68 | .68 | .45 | 2.20 | 2.01 | 1.30 | .64 | .56 | .79 | .51 |
| CAL YR 1978 | TOTAL | 126342 | MEAN 346 | MAX 1530 | MIN 128 | CFSM .96 | IN 13.02 | | | | | |
| WTR YR 1979 | TOTAL | 104740 | MEAN 287 | MAX 1270 | MIN 114 | CFSM .80 | IN 10.79 | | | | | |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN

LOCATION.--Lat 41°28'54", long 85°28'32", in NE¼NW¼ sec.22, T.35 N., R.9 E., Noble County, Hydrologic Unit 04050001, 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 mi² (368 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year. October 1950 to September 1971 at site 3.1 miles (5.0 km) upstream, published as North Branch Elkhart River near Cosperville. Records may not be equivalent.

GAGE.--Water-stage recorder. Datum of gage is 880.12 ft (268.261 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated at times by dam at Waldron Lake.

AVERAGE DISCHARGE.--8 years, 125 ft³/s (3.540 m³/s), 11.95 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft³/s (19.3 m³/s) Apr. 7, 1978, gage height, 7.41 ft (2.258 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Nov. 21, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 420 ft³/s (11.9 m³/s) Mar. 11, gage height, 6.68 ft (2.036 m); minimum daily, 11.0 ft³/s (0.31 m³/s) June 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 106 | 33 | 39 | 78 | 46 | 100 | 290 | 184 | 79 | 75 | 23 | 37 |
| 2 | 96 | 30 | 45 | 98 | 45 | 135 | 290 | 180 | 76 | 77 | 27 | 36 |
| 3 | 100 | 36 | 65 | 75 | 43 | 178 | 284 | 191 | 73 | 67 | 28 | 34 |
| 4 | 124 | 45 | 77 | 68 | 39 | 309 | 271 | 202 | 69 | 64 | 28 | 34 |
| 5 | 147 | 49 | 78 | 65 | 35 | 383 | 259 | 205 | 66 | 60 | 36 | 33 |
| 6 | 166 | 50 | 73 | 63 | 36 | 408 | 247 | 205 | 66 | 42 | 40 | 31 |
| 7 | 180 | 50 | 76 | 60 | 37 | 415 | 241 | 204 | 65 | 40 | 38 | 29 |
| 8 | 185 | 46 | 81 | 58 | 37 | 417 | 238 | 200 | 69 | 39 | 40 | 27 |
| 9 | 182 | 40 | 77 | 56 | 37 | 417 | 249 | 193 | 66 | 45 | 51 | 26 |
| 10 | 174 | 38 | 73 | 55 | 37 | 415 | 253 | 186 | 62 | 47 | 55 | 24 |
| 11 | 162 | 34 | 52 | 53 | 37 | 407 | 254 | 181 | 62 | 46 | 58 | 25 |
| 12 | 140 | 34 | 35 | 51 | 37 | 397 | 261 | 182 | 61 | 42 | 55 | 24 |
| 13 | 114 | 36 | 44 | 50 | 37 | 390 | 260 | 182 | 57 | 40 | 49 | 23 |
| 14 | 89 | 49 | 56 | 49 | 37 | 386 | 254 | 181 | 51 | 38 | 44 | 21 |
| 15 | 74 | 52 | 57 | 48 | 38 | 374 | 247 | 177 | 47 | 35 | 40 | 18 |
| 16 | 70 | 47 | 52 | 48 | 38 | 362 | 238 | 170 | 43 | 32 | 37 | 17 |
| 17 | 54 | 50 | 47 | 48 | 39 | 350 | 228 | 162 | 38 | 28 | 38 | 17 |
| 18 | 42 | 54 | 47 | 48 | 39 | 340 | 219 | 155 | 32 | 24 | 45 | 16 |
| 19 | 38 | 53 | 47 | 47 | 40 | 330 | 209 | 148 | 29 | 22 | 46 | 16 |
| 20 | 40 | 42 | 50 | 47 | 43 | 320 | 199 | 141 | 27 | 19 | 50 | 15 |
| 21 | 42 | 34 | 50 | 47 | 46 | 306 | 187 | 134 | 30 | 17 | 54 | 15 |
| 22 | 42 | 30 | 47 | 47 | 50 | 294 | 176 | 124 | 28 | 16 | 51 | 20 |
| 23 | 46 | 34 | 45 | 47 | 55 | 286 | 167 | 113 | 26 | 15 | 48 | 38 |
| 24 | 45 | 34 | 46 | 47 | 62 | 277 | 161 | 105 | 22 | 18 | 46 | 51 |
| 25 | 42 | 36 | 45 | 47 | 76 | 268 | 163 | 100 | 19 | 31 | 43 | 57 |
| 26 | 50 | 36 | 42 | 47 | 89 | 256 | 165 | 91 | 17 | 33 | 41 | 61 |
| 27 | 47 | 41 | 39 | 47 | 80 | 246 | 170 | 86 | 11 | 30 | 40 | 68 |
| 28 | 44 | 39 | 30 | 47 | 70 | 239 | 176 | 84 | 12 | 27 | 40 | 73 |
| 29 | 40 | 40 | 35 | 47 | --- | 247 | 180 | 80 | 16 | 24 | 40 | 73 |
| 30 | 36 | 38 | 40 | 47 | --- | 268 | 181 | 80 | 45 | 23 | 40 | 72 |
| 31 | 32 | --- | 57 | 47 | --- | 281 | --- | 80 | --- | 23 | 38 | --- |
| TOTAL | 2749 | 1230 | 1647 | 1682 | 1305 | 9801 | 6717 | 4706 | 1364 | 1139 | 1309 | 1031 |
| MEAN | 88.7 | 41.0 | 53.1 | 54.3 | 46.6 | 316 | 224 | 152 | 45.5 | 36.7 | 42.2 | 34.4 |
| MAX | 185 | 54 | 81 | 98 | 89 | 417 | 290 | 205 | 79 | 77 | 58 | 73 |
| MIN | 32 | 30 | 30 | 47 | 35 | 100 | 161 | 80 | 11 | 15 | 23 | 15 |
| CFSM | .63 | .29 | .37 | .38 | .33 | 2.23 | 1.58 | 1.07 | .32 | .26 | .30 | .24 |
| IN. | .72 | .32 | .43 | .44 | .34 | 2.57 | 1.76 | 1.23 | .36 | .30 | .34 | .27 |
| CAL YR 1978 | TOTAL | 48091.0 | MEAN | 132 | MAX | 677 | MIN | 3.0 | CFSM | .93 | IN | 12.60 |
| WTR YR 1979 | TOTAL | 34680.0 | MEAN | 95.0 | MAX | 417 | MIN | 11 | CFSM | .67 | IN | 9.09 |

04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|-------|------|-----------------------------|---|---|--|
| MAR | | | | | |
| 06... | 1725 | -- | 408 | 188 | 207 |
| APR | | | | | |
| 25... | 1430 | -- | 163 | 31 | 14 |
| JUN | | | | | |
| 06... | 1110 | 20.5 | 66 | 22 | 3.9 |
| JUL | | | | | |
| 25... | 1035 | -- | 30 | 30 | 2.4 |
| AUG | | | | | |
| 29... | 1010 | -- | 41 | 43 | 4.7 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100252 FORKER CREEK NEAR BURR OAK, IN

LOCATION.--Lat 41°19'58", long 85°25'25", in SE¼NE¼ sec.12, T.33 N., R.9 E., Noble County, Hydrologic Unit 04050001, on right bank 300 ft (91 m) downstream from bridge on State Highway 9, 400 ft (122 m) downstream from Miller Lake Outlet, 0.8 mile (1.3 km) northeast of Burr Oak, and 4.5 miles (7.2 km) south of Albion.

DRAINAGE AREA.--19.2 mi² (49.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 889.00 ft (270.967 m) National Geodetic Vertical Datum of 1929 (Indiana State Highway Commission bench mark).

REMARKS.--Records good except those for period of no gage-height record, June 7 to July 24, which are poor. Occasional regulation at Miller Lake Outlet.

AVERAGE DISCHARGE.--10 years, 15.7 ft³/s (0.445 m³/s), 11.10 in/yr (282 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 238 ft³/s (6.74 m³/s) Mar. 23, 1978, gage height, 5.67 ft (1.728 m); minimum daily, 0.13 ft³/s (0.004 m³/s) Sept. 10, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 178 ft³/s (5.04 m³/s) Mar. 5, gage height, 4.90 ft (1.494 m); minimum daily, 0.18 ft³/s (0.005 m³/s) Sept. 23, 26-29.

NOTE.--No gage-height record June 7 to July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|------|------|-------|-------|-------|--------|-------|
| 1 | .20 | 1.3 | 2.5 | 8.1 | 2.2 | 16 | 51 | 19 | 5.1 | 3.2 | .37 | 2.4 |
| 2 | .20 | 1.3 | 2.7 | 11 | 2.1 | 21 | 49 | 19 | 4.6 | 3.0 | .42 | 2.1 |
| 3 | .20 | 1.4 | 3.7 | 15 | 2.0 | 30 | 44 | 21 | 4.4 | 2.5 | .42 | 1.9 |
| 4 | .20 | 1.5 | 4.2 | 15 | 2.0 | 93 | 37 | 22 | 4.1 | 2.1 | .39 | 1.8 |
| 5 | .21 | 1.5 | 4.4 | 14 | 1.8 | 168 | 32 | 23 | 3.8 | 1.9 | .36 | 1.5 |
| 6 | .24 | 1.5 | 4.7 | 12 | 1.7 | 161 | 29 | 23 | 3.5 | 1.8 | .38 | 1.3 |
| 7 | .23 | 1.4 | 5.4 | 9.7 | 1.6 | 134 | 26 | 21 | 3.3 | 1.6 | .40 | .99 |
| 8 | .24 | 1.4 | 6.8 | 8.3 | 1.6 | 94 | 26 | 20 | 3.0 | 1.5 | .48 | .76 |
| 9 | .23 | 1.4 | 6.8 | 7.1 | 1.5 | 74 | 34 | 18 | 2.7 | 1.7 | 1.6 | .54 |
| 10 | .23 | 1.5 | 6.7 | 6.2 | 1.4 | 61 | 44 | 17 | 2.6 | 2.0 | 3.7 | .47 |
| 11 | .24 | 1.4 | 6.8 | 5.4 | 1.3 | 49 | 51 | 15 | 2.5 | 1.8 | 6.5 | .44 |
| 12 | .26 | 1.5 | 6.5 | 4.9 | 1.4 | 39 | 58 | 14 | 2.5 | 1.7 | 6.2 | .44 |
| 13 | .26 | 1.5 | 6.4 | 4.3 | 1.4 | 31 | 61 | 15 | 2.3 | 1.5 | 5.4 | .44 |
| 14 | .29 | 2.1 | 5.8 | 3.9 | 1.4 | 28 | 60 | 14 | 2.0 | 1.4 | 4.6 | .40 |
| 15 | .31 | 2.0 | 5.5 | 3.5 | 1.4 | 26 | 54 | 15 | 1.8 | 1.3 | 3.6 | .31 |
| 16 | .30 | 1.9 | 5.1 | 3.1 | 1.4 | 24 | 46 | 15 | 1.6 | 1.2 | 2.9 | .28 |
| 17 | .28 | 2.0 | 4.4 | 2.9 | 1.3 | 22 | 37 | 14 | 1.5 | 1.1 | 3.0 | .26 |
| 18 | .30 | 2.1 | 4.1 | 2.6 | 1.3 | 19 | 30 | 13 | 1.3 | .96 | 3.5 | .27 |
| 19 | .34 | 2.1 | 3.7 | 2.4 | 1.3 | 18 | 24 | 12 | 1.2 | .88 | 3.9 | .29 |
| 20 | .32 | 2.1 | 3.8 | 2.3 | 1.3 | 18 | 21 | 11 | 1.1 | .80 | 10 | .29 |
| 21 | .36 | 2.1 | 3.8 | 2.2 | 1.5 | 17 | 18 | 10 | 1.2 | .73 | 14 | .26 |
| 22 | .40 | 2.1 | 3.4 | 2.3 | 1.5 | 17 | 17 | 9.3 | 1.0 | .67 | 13 | .23 |
| 23 | .48 | 2.5 | 3.3 | 2.2 | 1.8 | 17 | 16 | 8.6 | .90 | .61 | 11 | .18 |
| 24 | .52 | 2.5 | 3.2 | 2.6 | 3.4 | 17 | 15 | 7.8 | .72 | .68 | 9.7 | .19 |
| 25 | .64 | 2.5 | 3.1 | 2.6 | 6.0 | 17 | 15 | 7.2 | .62 | 1.0 | 7.4 | .20 |
| 26 | 1.1 | 2.7 | 2.9 | 2.5 | 8.2 | 16 | 15 | 6.6 | .52 | 1.4 | 6.0 | .18 |
| 27 | 1.1 | 3.1 | 2.6 | 2.4 | 13 | 14 | 14 | 6.5 | .45 | .96 | 5.9 | .18 |
| 28 | 1.1 | 2.6 | 2.3 | 2.6 | 16 | 14 | 16 | 6.5 | .50 | .40 | 4.9 | .18 |
| 29 | 1.2 | 2.5 | 2.2 | 2.6 | --- | 18 | 16 | 6.1 | .60 | .40 | 4.1 | .18 |
| 30 | 1.3 | 2.6 | 2.5 | 2.4 | --- | 30 | 18 | 5.7 | 1.3 | .41 | 3.4 | .19 |
| 31 | 1.3 | --- | 4.0 | 2.4 | --- | 45 | --- | 5.4 | --- | .38 | 2.9 | --- |
| TOTAL | 14.58 | 58.1 | 133.3 | 168.5 | 82.8 | 1348 | 974 | 420.7 | 62.71 | 41.58 | 140.42 | 19.15 |
| MEAN | .47 | 1.94 | 4.30 | 5.44 | 2.96 | 43.5 | 32.5 | 13.6 | 2.09 | 1.34 | 4.53 | .64 |
| MAX | 1.3 | 3.1 | 6.8 | 15 | 16 | 168 | 61 | 23 | 5.1 | 3.2 | 14 | 2.4 |
| MIN | .20 | 1.3 | 2.2 | 2.2 | 1.3 | 14 | 14 | 5.4 | .45 | .38 | .36 | .18 |
| CFSM | .02 | .10 | .22 | .28 | .15 | 2.27 | 1.69 | .71 | .11 | .07 | .24 | .03 |
| IN. | .03 | .11 | .26 | .33 | .16 | 2.61 | 1.89 | .82 | .12 | .08 | .27 | .04 |
| CAL YR 1978 | TOTAL | 5869.30 | MEAN | 16.1 | MAX | 230 | MIN | .16 | CFSM | .84 | IN | 11.37 |
| WTR YR 1979 | TOTAL | 3463.84 | MEAN | 9.49 | MAX | 168 | MIN | .18 | CFSM | .49 | IN | 6.71 |

04100465 TURKEY CREEK AT SYRACUSE, IN

LOCATION.--Lat 41°25'35", long 85°45'16", in NE¼SE¼ sec.6, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001, 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 mi² (113.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 848.00 ft (258.470 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow occasionally regulated by dam on Syracuse Lake.

AVERAGE DISCHARGE.--10 years, 33.6 ft³/s (0.952 m³/s), 10.42 in/yr (265 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151 ft³/s (4.28 m³/s) Apr. 7, 1978, gage height, 5.07 ft (1.545 m); minimum daily, 0.82 ft³/s (0.023 m³/s) Oct. 8, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft³/s (3.34 m³/s) Mar. 4, gage height, 4.32 ft (1.317 m); minimum daily, 0.82 ft³/s (0.023 m³/s) Oct 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|----------|-------|-------|------|------|------|--------|-------|-------|-------|-------|
| 1 | 1.2 | 9.1 | 5.1 | 14 | 12 | 69 | 92 | 84 | 5.3 | 3.7 | 7.2 | 8.4 |
| 2 | 1.6 | 9.3 | 4.9 | 13 | 12 | 71 | 90 | 84 | 4.2 | 3.6 | 8.1 | 7.6 |
| 3 | 1.8 | 9.4 | 6.3 | 9.4 | 12 | 77 | 87 | 89 | 4.2 | 3.3 | 7.1 | 6.9 |
| 4 | 1.5 | 9.4 | 6.6 | 7.4 | 12 | 111 | 87 | 87 | 4.6 | 3.1 | 7.1 | 6.6 |
| 5 | 2.0 | 20 | 6.2 | 6.4 | 12 | 116 | 88 | 82 | 4.5 | 2.8 | 8.5 | 6.8 |
| 6 | 1.6 | 28 | 5.6 | 5.5 | 12 | 108 | 86 | 80 | 4.3 | 2.6 | 8.6 | 6.3 |
| 7 | 1.4 | 27 | 6.6 | 5.3 | 12 | 101 | 86 | 79 | 4.5 | 2.4 | 8.0 | 5.8 |
| 8 | .82 | 27 | 6.7 | 5.8 | 12 | 94 | 89 | 78 | 4.4 | 3.2 | 8.3 | 4.8 |
| 9 | 1.2 | 13 | 6.0 | 5.8 | 12 | 93 | 97 | 77 | 3.9 | 4.3 | 13 | 4.3 |
| 10 | 1.1 | 5.3 | 5.3 | 5.5 | 26 | 99 | 93 | 75 | 4.1 | 3.9 | 12 | 4.3 |
| 11 | 1.1 | 5.7 | 5.7 | 5.5 | 45 | 96 | 95 | 76 | 4.2 | 3.7 | 11 | 4.3 |
| 12 | 1.0 | 6.3 | 5.5 | 5.6 | 49 | 91 | 99 | 76 | 4.3 | 3.6 | 10 | 4.4 |
| 13 | 1.0 | 8.8 | 16 | 6.1 | 67 | 89 | 97 | 76 | 4.5 | 3.5 | 9.2 | 4.2 |
| 14 | 1.4 | 7.9 | 78 | 7.8 | 67 | 88 | 94 | 77 | 4.0 | 3.2 | 9.1 | 3.8 |
| 15 | 1.3 | 10 | 57 | 8.4 | 67 | 87 | 92 | 27 | 3.9 | 3.3 | 8.2 | 3.1 |
| 16 | 2.5 | 17 | 4.2 | 8.4 | 67 | 85 | 90 | 7.0 | 3.6 | 3.4 | 7.5 | 3.0 |
| 17 | 2.7 | 18 | 4.1 | 8.7 | 67 | 83 | 88 | 6.5 | 2.9 | 3.4 | 9.1 | 3.3 |
| 18 | 2.8 | 17 | 4.7 | 8.5 | 67 | 81 | 87 | 6.2 | 3.9 | 3.5 | 9.8 | 3.4 |
| 19 | 3.4 | 16 | 4.6 | 8.8 | 67 | 82 | 86 | 5.5 | 3.8 | 3.3 | 9.4 | 3.4 |
| 20 | 3.6 | 16 | 4.8 | 8.5 | 67 | 82 | 85 | 5.3 | 5.0 | 3.3 | 12 | 3.4 |
| 21 | 3.7 | 16 | 4.7 | 8.7 | 65 | 80 | 83 | 5.7 | 3.8 | 2.8 | 12 | 3.4 |
| 22 | 3.9 | 16 | 4.7 | 9.5 | 61 | 79 | 82 | 5.8 | 3.4 | 2.6 | 12 | 3.1 |
| 23 | 6.2 | 15 | 4.1 | 9.5 | 67 | 81 | 81 | 6.0 | 2.9 | 3.3 | 12 | 3.3 |
| 24 | 6.3 | 14 | 4.2 | 11 | 68 | 83 | 82 | 6.2 | 2.3 | 5.1 | 10 | 3.5 |
| 25 | 7.6 | 14 | 4.3 | 11 | 71 | 83 | 85 | 5.4 | 2.8 | 4.2 | 9.3 | 3.3 |
| 26 | 7.9 | 8.9 | 4.6 | 11 | 71 | 81 | 86 | 4.9 | 2.9 | 3.7 | 8.9 | 3.3 |
| 27 | 8.2 | 5.0 | 4.6 | 11 | 70 | 80 | 86 | 5.0 | 2.8 | 3.5 | 9.1 | 3.3 |
| 28 | 8.4 | 4.9 | 4.4 | 11 | 68 | 81 | 85 | 4.9 | 2.9 | 2.9 | 9.1 | 3.4 |
| 29 | 8.2 | 5.1 | 4.5 | 12 | --- | 87 | 85 | 5.6 | 5.1 | 2.7 | 9.3 | 3.3 |
| 30 | 9.2 | 4.9 | 5.4 | 12 | --- | 95 | 86 | 5.5 | 5.1 | 5.2 | 8.9 | 3.3 |
| 31 | 9.0 | --- | 9.2 | 12 | --- | 95 | --- | 5.3 | --- | 5.1 | 8.7 | --- |
| TOTAL | 113.62 | 384.0 | 298.6 | 273.1 | 1305 | 2728 | 2649 | 1237.8 | 118.1 | 108.2 | 292.5 | 131.3 |
| MEAN | 3.67 | 12.8 | 9.63 | 8.81 | 46.6 | 88.0 | 88.3 | 39.9 | 3.94 | 3.49 | 9.44 | 4.38 |
| MAX | 9.2 | 28 | 78 | 14 | 71 | 116 | 99 | 89 | 5.3 | 5.2 | 13 | 8.4 |
| MIN | .82 | 4.9 | 4.1 | 5.3 | 12 | 69 | 81 | 4.9 | 2.3 | 2.4 | 7.1 | 3.0 |
| CFSM | .08 | .29 | .22 | .20 | 1.06 | 2.01 | 2.02 | .91 | .09 | .08 | .22 | .10 |
| IN. | .10 | .33 | .25 | .23 | 1.11 | 2.32 | 2.25 | 1.05 | .10 | .09 | .25 | .11 |
| CAL YR 1978 | TOTAL | 11675.32 | MEAN | 32.0 | MAX | 150 | MIN | .82 | CFSM | .73 | IN | 9.92 |
| WTR YR 1979 | TOTAL | 9639.22 | MEAN | 26.4 | MAX | 116 | MIN | .82 | CFSM | .60 | IN | 8.19 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100500 ELKHART RIVER AT GOSHEN, IN

LOCATION.--Lat 41°35'36", long 85°50'55", in NE¼NE¼ sec.8, T.36 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, on right bank 20 ft (6 m) downstream from River Avenue bridge at Goshen, 0.4 mile (0.6 km) upstream from Rock Run, and at mile 16.1 (25.9 km).

DRAINAGE AREA.--594 mi² (1,538 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

WATER DISCHARGE: April 1931 to current year.

REVISED RECORDS.--WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 769.43 ft (234.522 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--48 years, 502 ft³/s (14.22 m³/s), 11.48 in/yr (292 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft³/s (154 m³/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 ft³/s (0.20 m³/s) Aug. 11, 1964, result of extreme regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft³/s (51.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 0500 | *4850 137 | *10.33 3.149 |

Minimum daily discharge, 124 ft³/s (3.51 m³/s) July 24.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1963 to September 1977 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1 | 201 | 158 | 211 | 713 | 210 | 450 | 1390 | 896 | 324 | 268 | 151 | 242 |
| 2 | 203 | 156 | 199 | 786 | 210 | 560 | 1180 | 823 | 309 | 316 | 204 | 231 |
| 3 | 208 | 157 | 235 | 508 | 205 | 760 | 1080 | 987 | 297 | 296 | 214 | 228 |
| 4 | 205 | 155 | 338 | 450 | 190 | 2610 | 1030 | 1330 | 281 | 264 | 210 | 217 |
| 5 | 211 | 161 | 332 | 405 | 165 | 4470 | 1140 | 1120 | 268 | 246 | 228 | 214 |
| 6 | 232 | 170 | 294 | 365 | 180 | 2890 | 1050 | 916 | 267 | 221 | 231 | 207 |
| 7 | 237 | 188 | 299 | 335 | 185 | 2330 | 948 | 824 | 272 | 204 | 238 | 204 |
| 8 | 237 | 198 | 322 | 315 | 185 | 2130 | 913 | 763 | 303 | 184 | 260 | 194 |
| 9 | 238 | 194 | 336 | 290 | 185 | 2000 | 1220 | 722 | 288 | 217 | 288 | 181 |
| 10 | 230 | 190 | 250 | 270 | 185 | 1880 | 1420 | 693 | 272 | 221 | 413 | 181 |
| 11 | 224 | 171 | 200 | 260 | 185 | 1640 | 1200 | 695 | 276 | 210 | 388 | 175 |
| 12 | 220 | 165 | 210 | 255 | 185 | 1530 | 1360 | 735 | 264 | 204 | 320 | 160 |
| 13 | 215 | 169 | 235 | 245 | 185 | 1410 | 1480 | 772 | 257 | 197 | 264 | 160 |
| 14 | 210 | 181 | 269 | 240 | 190 | 1380 | 1270 | 763 | 246 | 178 | 253 | 162 |
| 15 | 202 | 196 | 286 | 235 | 190 | 1340 | 1090 | 727 | 235 | 178 | 228 | 160 |
| 16 | 193 | 192 | 292 | 230 | 195 | 1190 | 989 | 660 | 224 | 175 | 224 | 160 |
| 17 | 184 | 222 | 257 | 225 | 195 | 1090 | 925 | 589 | 253 | 168 | 228 | 148 |
| 18 | 178 | 234 | 238 | 225 | 200 | 1050 | 866 | 554 | 253 | 154 | 253 | 145 |
| 19 | 161 | 227 | 227 | 220 | 205 | 1050 | 815 | 527 | 246 | 142 | 324 | 136 |
| 20 | 152 | 224 | 233 | 220 | 210 | 1040 | 777 | 509 | 249 | 148 | 652 | 133 |
| 21 | 148 | 218 | 244 | 220 | 225 | 977 | 743 | 482 | 246 | 142 | 592 | 127 |
| 22 | 144 | 206 | 237 | 220 | 245 | 908 | 721 | 446 | 221 | 136 | 422 | 133 |
| 23 | 149 | 214 | 222 | 220 | 270 | 902 | 678 | 426 | 207 | 127 | 367 | 142 |
| 24 | 149 | 213 | 226 | 220 | 300 | 978 | 672 | 409 | 197 | 124 | 371 | 148 |
| 25 | 154 | 209 | 228 | 220 | 400 | 958 | 722 | 394 | 194 | 166 | 347 | 156 |
| 26 | 172 | 205 | 210 | 220 | 490 | 857 | 840 | 376 | 181 | 175 | 320 | 160 |
| 27 | 170 | 209 | 180 | 215 | 400 | 792 | 944 | 358 | 175 | 160 | 328 | 166 |
| 28 | 166 | 203 | 150 | 215 | 370 | 770 | 929 | 342 | 175 | 156 | 332 | 181 |
| 29 | 163 | 194 | 190 | 215 | --- | 922 | 889 | 331 | 166 | 151 | 312 | 194 |
| 30 | 161 | 193 | 225 | 210 | --- | 1400 | 862 | 327 | 184 | 145 | 288 | 197 |
| 31 | 163 | --- | 318 | 210 | --- | 1620 | --- | 324 | --- | 145 | 246 | --- |
| TOTAL | 5880 | 5772 | 7693 | 9177 | 6540 | 43884 | 30143 | 19820 | 7330 | 5818 | 9496 | 5242 |
| MEAN | 190 | 192 | 248 | 296 | 234 | 1416 | 1005 | 639 | 244 | 188 | 306 | 175 |
| MAX | 238 | 234 | 338 | 786 | 490 | 4470 | 1480 | 1330 | 324 | 316 | 652 | 242 |
| MIN | 144 | 155 | 150 | 210 | 165 | 450 | 672 | 324 | 166 | 124 | 151 | 127 |
| CFSM | .32 | .32 | .42 | .50 | .39 | 2.38 | 1.69 | 1.08 | .41 | .32 | .52 | .30 |
| IN. | .37 | .36 | .48 | .57 | .41 | 2.75 | 1.89 | 1.24 | .46 | .36 | .59 | .33 |
| CAL YR 1978 | TOTAL | 188203 | MEAN | 516 | MAX | 4310 | MIN | 115 | CFSM | .87 | IN | 11.79 |
| WTR YR 1979 | TOTAL | 156795 | MEAN | 430 | MAX | 4470 | MIN | 124 | CFSM | .72 | IN | 9.82 |

04101000 ST. JOSEPH RIVER AT ELKHART, IN

LOCATION.--Lat 41°41'30", long 85°58'30", in SW¼NE¼ sec.5, T.37 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, 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 mi² (8,728 km²).

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.

REVISED RECORDS.--WSP 2111: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. The flow is regulated by Elkhart Hydroelectric Plant.

AVERAGE DISCHARGE.--32 years, 3,075 ft³/s (87.08 m³/s), 12.39 in/yr (315 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s (521 m³/s) Apr. 5, 1950, gage height, 27.82 ft (8.480 m); minimum daily, 336 ft³/s (9.52 m³/s) Aug. 5, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 12,700 ft³/s (360 m³/s) Mar. 5, gage height, 25.00 ft (7.620 m); minimum daily, 1,090 ft³/s (30.9 m³/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|
| 1 | 2310 | 1620 | 1920 | 3420 | 2300 | 3380 | 6740 | 5740 | 2870 | 3290 | 1600 | 2510 |
| 2 | 2000 | 1650 | 1950 | 3810 | 2300 | 2910 | 6660 | 5670 | 2950 | 3030 | 1640 | 2140 |
| 3 | 1830 | 1700 | 2150 | 3040 | 2250 | 3840 | 6620 | 6010 | 2810 | 2630 | 1920 | 2150 |
| 4 | 1710 | 1680 | 2570 | 3130 | 2200 | 6550 | 6530 | 6400 | 2810 | 2760 | 1870 | 1890 |
| 5 | 1640 | 1630 | 2440 | 3640 | 2150 | 11400 | 6570 | 6170 | 2590 | 2890 | 1720 | 2320 |
| 6 | 1840 | 1680 | 2740 | 3880 | 2100 | 10600 | 6470 | 5880 | 2400 | 2810 | 2240 | 2020 |
| 7 | 1190 | 1970 | 2600 | 3450 | 2100 | 10100 | 6200 | 5720 | 2580 | 2530 | 2010 | 1800 |
| 8 | 1830 | 1870 | 3050 | 3100 | 2150 | 9810 | 6100 | 5500 | 2720 | 2510 | 2000 | 1570 |
| 9 | 1930 | 1810 | 2850 | 2850 | 2200 | 9610 | 6620 | 5280 | 2610 | 2530 | 2100 | 1640 |
| 10 | 2290 | 1580 | 2620 | 2600 | 2300 | 9510 | 6770 | 4990 | 2700 | 2280 | 2510 | 1910 |
| 11 | 1840 | 1690 | 2120 | 2450 | 2200 | 8830 | 6670 | 5100 | 3000 | 2450 | 2920 | 1880 |
| 12 | 1880 | 1600 | 2890 | 2300 | 2100 | 8380 | 7020 | 5340 | 2770 | 2090 | 2420 | 1790 |
| 13 | 1910 | 1690 | 2670 | 2400 | 2000 | 8160 | 7090 | 5300 | 2690 | 1810 | 2100 | 1710 |
| 14 | 1910 | 1240 | 2540 | 2300 | 2100 | 7920 | 6970 | 5150 | 2560 | 1990 | 1910 | 1770 |
| 15 | 1950 | 1860 | 2590 | 2150 | 2200 | 7430 | 6700 | 4960 | 2490 | 1960 | 1960 | 1710 |
| 16 | 2190 | 1650 | 2290 | 2300 | 2100 | 6970 | 6360 | 4780 | 2200 | 1690 | 1840 | 1330 |
| 17 | 1830 | 2070 | 2340 | 2300 | 2050 | 6740 | 6120 | 4460 | 2210 | 1900 | 1950 | 1150 |
| 18 | 1830 | 2020 | 2410 | 2500 | 2000 | 6400 | 5900 | 4290 | 1970 | 1720 | 1910 | 1110 |
| 19 | 1870 | 1980 | 2420 | 2400 | 1950 | 6260 | 5570 | 4090 | 1790 | 1360 | 2250 | 1270 |
| 20 | 1820 | 2460 | 2280 | 2400 | 1900 | 6040 | 5200 | 3890 | 2000 | 1440 | 3500 | 1240 |
| 21 | 1630 | 2340 | 2270 | 2450 | 2050 | 6040 | 5140 | 3650 | 2160 | 1360 | 3400 | 1400 |
| 22 | 1610 | 1520 | 2330 | 2400 | 2250 | 5740 | 4920 | 3530 | 2300 | 1400 | 3150 | 1510 |
| 23 | 1410 | 1610 | 2280 | 2400 | 2470 | 5710 | 4740 | 3420 | 1820 | 1590 | 2900 | 1170 |
| 24 | 1460 | 1990 | 1910 | 2400 | 3490 | 5910 | 4730 | 3330 | 1790 | 1420 | 2830 | 1110 |
| 25 | 1390 | 2080 | 2170 | 2400 | 2890 | 5660 | 4790 | 3180 | 1790 | 1420 | 2640 | 1300 |
| 26 | 1540 | 2060 | 2370 | 2400 | 2980 | 5320 | 5210 | 2940 | 1750 | 1430 | 2350 | 1480 |
| 27 | 1590 | 2190 | 2050 | 2400 | 3010 | 5080 | 5630 | 2930 | 1680 | 1380 | 2520 | 1090 |
| 28 | 1760 | 2160 | 1930 | 2400 | 3100 | 4960 | 5680 | 3070 | 1700 | 1250 | 2710 | 1520 |
| 29 | 1790 | 2020 | 1870 | 2400 | --- | 5240 | 5590 | 2840 | 2070 | 1190 | 2720 | 1210 |
| 30 | 1780 | 2030 | 2310 | 2350 | --- | 6170 | 5620 | 2710 | 2440 | 1470 | 2480 | 1300 |
| 31 | 1640 | --- | 2360 | 2350 | --- | 6570 | --- | 2760 | --- | 1720 | 2380 | --- |
| TOTAL | 55200 | 55450 | 73290 | 82770 | 64890 | 213240 | 180930 | 139080 | 70220 | 61300 | 72450 | 48000 |
| MEAN | 1781 | 1848 | 2364 | 2670 | 2318 | 6879 | 6031 | 4486 | 2341 | 1977 | 2337 | 1600 |
| MAX | 2310 | 2460 | 3050 | 3880 | 3490 | 11400 | 7090 | 6400 | 3000 | 3290 | 3500 | 2510 |
| MIN | 1190 | 1240 | 1870 | 2150 | 1900 | 2910 | 4730 | 2710 | 1680 | 1190 | 1600 | 1090 |
| CFSM | .53 | .55 | .70 | .79 | .69 | 2.04 | 1.79 | 1.33 | .70 | .59 | .69 | .48 |
| IN. | .61 | .61 | .81 | .91 | .72 | 2.35 | 2.00 | 1.54 | .78 | .68 | .80 | .53 |
| CAL YR 1978 | TOTAL | 1201870 | MEAN | 3293 | MAX | 12000 | MIN | 1010 | CFSM | .98 | IN | 13.27 |
| WTR YR 1979 | TOTAL | 1116820 | MEAN | 3060 | MAX | 11400 | MIN | 1090 | CFSM | .91 | IN | 12.33 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

04101500 ST. JOSEPH RIVER AT NILES, MI
(National stream-quality accounting network station)

LOCATION.--Lat 41°49'45", long 86°15'35", in SW¼ sec.26, T.7 S., R.17 W., Berrien County, Hydrologic Unit 04050001, on right bank 100 ft (30 m) upstream from Main Street bridge at Niles, 0.6 mi (1.0 km) downstream from dam at French Paper Co., 1 mi (2 km) upstream from Dowagiac River, and at mile 44 (71 km).

DRAINAGE AREA.--3,666 mi² (9,495 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 1387: 1931, 1933-36, 1940-43, 1945-46(M). WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 633.02 ft (192.944 m) National Geodetic Vertical Datum of 1929. 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, and Feb. 12 to June 30, 1931, nonrecording gage 50 ft (15 m) upstream from present site (gage heights referred to NGVD). Since Apr. 13, 1970, auxiliary water-stage recorder at sewage-treatment plant, 1.1 mi (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 mi (13 km) downstream from base gage at different datum.

REMARKS.--Water-discharge records good except those for the winter period, which are poor. Flow regulated by powerplants above station.

AVERAGE DISCHARGE.--49 years, 3,169 ft³/s (89.75 m³/s), 11.74 in/yr (298 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,200 ft³/s (572 m³/s) Apr. 5, 1950, gage height, 15.10 ft (4.602 m), present datum; minimum daily, 420 ft³/s (11.9 m³/s) Aug. 30, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,300 ft³/s (405 m³/s) Mar. 6, gage height, 12.36 (3.767 m); minimum daily, 1,290 ft³/s (36.5 m³/s) June 26.

WATER-QUALITY RECORDS

REMARKS.--Records published in Water Resources Data Reports for Michigan.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|
| 1 | 2270 | 1930 | 2330 | 3400 | 2720 | 3770 | 7750 | 6380 | 3150 | 3820 | 2200 | 3100 |
| 2 | 2490 | 1970 | 2470 | 3700 | 2560 | 3510 | 7200 | 6130 | 3310 | 2970 | 2160 | 2800 |
| 3 | 2370 | 1900 | 2340 | 3500 | 2320 | 4000 | 7350 | 6610 | 3070 | 3210 | 2030 | 2600 |
| 4 | 1990 | 2060 | 2730 | 3700 | 2600 | 7500 | 6940 | 7340 | 3190 | 2900 | 2490 | 2600 |
| 5 | 2120 | 2090 | 3450 | 4100 | 2210 | 13700 | 7280 | 6970 | 3200 | 3800 | 2330 | 2500 |
| 6 | 2290 | 2030 | 3340 | 4200 | 2300 | 12900 | 6970 | 6390 | 2550 | 3010 | 2450 | 2410 |
| 7 | 2210 | 2200 | 3190 | 3900 | 2120 | 11300 | 6740 | 6220 | 3060 | 2880 | 2550 | 2270 |
| 8 | 1650 | 2340 | 3880 | 3500 | 2430 | 10900 | 6610 | 5870 | 3260 | 2830 | 2230 | 2300 |
| 9 | 2130 | 2120 | 3860 | 3300 | 2450 | 10400 | 7190 | 5730 | 3140 | 2890 | 2640 | 2050 |
| 10 | 2280 | 2200 | 3440 | 3100 | 2430 | 10400 | 7350 | 5570 | 3050 | 2610 | 3010 | 1650 |
| 11 | 2670 | 1720 | 3200 | 2800 | 2490 | 9430 | 7460 | 5200 | 3200 | 2760 | 3490 | 2490 |
| 12 | 2140 | 2070 | 2980 | 2600 | 2230 | 8960 | 7700 | 5910 | 3320 | 2590 | 2890 | 2230 |
| 13 | 2180 | 1990 | 3690 | 2700 | 2100 | 8700 | 8270 | 5860 | 2880 | 2320 | 2880 | 2050 |
| 14 | 2440 | 1880 | 3130 | 2300 | 2390 | 8480 | 7220 | 5700 | 3050 | 2290 | 1970 | 2330 |
| 15 | 2210 | 1720 | 2840 | 2200 | 2510 | 7940 | 7270 | 5440 | 2940 | 2380 | 2400 | 1650 |
| 16 | 2830 | 2240 | 2980 | 2600 | 2080 | 7260 | 6770 | 5140 | 2870 | 2100 | 2460 | 2000 |
| 17 | 2130 | 2270 | 2550 | 2500 | 2220 | 7270 | 6630 | 5040 | 2470 | 2220 | 2390 | 1540 |
| 18 | 2320 | 2440 | 2800 | 2900 | 2110 | 6740 | 6330 | 4510 | 3100 | 2080 | 2560 | 1590 |
| 19 | 2140 | 2320 | 2930 | 2830 | 2320 | 6240 | 6130 | 4590 | 2590 | 1880 | 2330 | 1640 |
| 20 | 2270 | 2410 | 3000 | 2660 | 1990 | 6320 | 5720 | 4450 | 2660 | 1700 | 3560 | 1580 |
| 21 | 1930 | 2970 | 2600 | 2580 | 2460 | 6490 | 5480 | 3910 | 2470 | 1860 | 3700 | 1720 |
| 22 | 1930 | 2210 | 2490 | 2580 | 2150 | 6150 | 5460 | 4120 | 2950 | 1680 | 3800 | 1710 |
| 23 | 2130 | 1650 | 2940 | 2500 | 2530 | 5720 | 5160 | 3670 | 2430 | 1870 | 3500 | 1700 |
| 24 | 1730 | 2250 | 2460 | 2760 | 3200 | 6340 | 5130 | 3980 | 2240 | 2020 | 3600 | 1510 |
| 25 | 1810 | 2440 | 2330 | 2480 | 3330 | 6350 | 5370 | 3120 | 2070 | 1710 | 3700 | 1650 |
| 26 | 2030 | 2390 | 2550 | 2640 | 3080 | 5670 | 5700 | 3550 | 1290 | 1910 | 3100 | 1780 |
| 27 | 1920 | 2370 | 2810 | 2550 | 3250 | 5620 | 6650 | 3050 | 2230 | 1780 | 2600 | 1480 |
| 28 | 1990 | 2550 | 2330 | 2620 | 3170 | 5470 | 6400 | 3430 | 1800 | 1770 | 3000 | 1930 |
| 29 | 2140 | 2370 | 2660 | 2580 | --- | 5420 | 6200 | 3270 | 2590 | 1520 | 3500 | 1420 |
| 30 | 2370 | 2490 | 2360 | 2770 | --- | 6930 | 6300 | 3170 | 2860 | 1800 | 3000 | 1710 |
| 31 | 2340 | --- | 3000 | 2590 | --- | 7650 | --- | 3180 | --- | 1940 | 3000 | --- |
| TOTAL | 67450 | 65590 | 89660 | 91140 | 69750 | 233530 | 198730 | 153500 | 82990 | 73100 | 87520 | 59990 |
| MEAN | 2176 | 2186 | 2892 | 2940 | 2491 | 7533 | 6624 | 4952 | 2766 | 2358 | 2823 | 2000 |
| MAX | 2830 | 2970 | 3880 | 4200 | 3330 | 13700 | 8270 | 7340 | 3320 | 3820 | 3800 | 3100 |
| MIN | 1650 | 1650 | 2330 | 2200 | 1990 | 3510 | 5130 | 3050 | 1290 | 1520 | 1970 | 1420 |
| CFSM | .59 | .60 | .79 | .80 | .68 | 2.06 | 1.81 | 1.35 | .76 | .64 | .77 | .55 |
| IN. | .68 | .67 | .91 | .92 | .71 | 2.37 | 2.02 | 1.56 | .84 | .74 | .89 | .61 |
| CAL YR 1978 | TOTAL | 1315870 | MEAN | 3605 | MAX | 13000 | MIN | 1210 | CFSM | .98 | IN | 13.35 |
| WTR YR 1979 | TOTAL | 1272950 | MEAN | 3488 | MAX | 13700 | MIN | 1290 | CFSM | .95 | IN | 12.92 |

04177720 FISH CREEK AT HAMILTON, IN

LOCATION.--Lat 41°31'55", long 84°54'12", in SE¼SW¼ sec.34, T.36 N., R.14 E., Steuben County, Hydrologic Unit 04100003 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 mi² (97.1 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 876.00 ft (267.005 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--10 years, 29.2 ft³/s (0.827 m³/s), 10.57 in/yr (269 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 497 ft³/s (14.1 m³/s) Mar. 23, 1978, gage height, 10.79 ft (3.289 m); minimum daily, 0.52 ft³/s (0.015 m³/s) Aug. 31, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|------|---|------|-------------------------|-------|--------|------|---|------|-------------------------|-------|
| Mar. 5 | 0300 | *337 | 9.54 | *9.09 | 2.771 | Apr. 9 | 1400 | 162 | 4.59 | 6.67 | 2.033 |
| Mar. 31 | 1500 | 178 | 5.04 | 6.92 | 2.109 | | | | | | |

Minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|------|-------|-------|-------|------|-------|
| 1 | 5.3 | 3.9 | 8.1 | 97 | 6.8 | 22 | 158 | 35 | 9.3 | 26 | 17 | 30 |
| 2 | 9.9 | 4.1 | 9.6 | 74 | 6.8 | 50 | 127 | 30 | 8.6 | 18 | 56 | 25 |
| 3 | 7.3 | 4.4 | 19 | 50 | 6.7 | 100 | 96 | 54 | 8.1 | 13 | 38 | 21 |
| 4 | 5.7 | 4.4 | 29 | 38 | 6.7 | 259 | 80 | 57 | 8.0 | 15 | 28 | 18 |
| 5 | 5.0 | 4.3 | 24 | 29 | 6.7 | 321 | 82 | 47 | 7.4 | 13 | 27 | 15 |
| 6 | 5.0 | 4.4 | 20 | 23 | 6.7 | 251 | 80 | 40 | 7.2 | 10 | 23 | 13 |
| 7 | 4.4 | 4.8 | 23 | 19 | 6.7 | 185 | 59 | 33 | 6.9 | 8.9 | 18 | 10 |
| 8 | 3.8 | 4.6 | 30 | 16 | 6.7 | 134 | 74 | 29 | 7.5 | 7.7 | 26 | 8.1 |
| 9 | 3.4 | 4.6 | 26 | 15 | 6.7 | 107 | 156 | 29 | 7.0 | 10 | 35 | 6.8 |
| 10 | 3.2 | 4.4 | 22 | 13 | 6.7 | 91 | 145 | 25 | 7.4 | 9.3 | 47 | 6.0 |
| 11 | 3.0 | 4.4 | 16 | 12 | 6.7 | 71 | 118 | 22 | 6.7 | 8.3 | 50 | 5.4 |
| 12 | 3.1 | 4.4 | 14 | 11 | 6.7 | 57 | 128 | 22 | 5.1 | 7.5 | 35 | 4.9 |
| 13 | 3.0 | 4.4 | 12 | 10 | 6.7 | 50 | 121 | 21 | 4.4 | 7.0 | 26 | 4.9 |
| 14 | 2.8 | 6.9 | 11 | 9.5 | 6.7 | 75 | 107 | 19 | 4.0 | 6.7 | 21 | 5.2 |
| 15 | 2.8 | 5.7 | 10 | 9.2 | 6.7 | 64 | 87 | 19 | 3.8 | 6.2 | 16 | 3.7 |
| 16 | 3.2 | 5.6 | 9.7 | 9.0 | 6.7 | 52 | 68 | 15 | 3.6 | 5.8 | 12 | 3.2 |
| 17 | 3.1 | 9.7 | 9.1 | 8.8 | 6.8 | 45 | 55 | 13 | 3.5 | 5.0 | 15 | 3.0 |
| 18 | 3.3 | 11 | 8.7 | 8.6 | 6.8 | 45 | 45 | 11 | 3.2 | 4.5 | 32 | 3.1 |
| 19 | 3.3 | 8.8 | 8.8 | 8.2 | 7.0 | 52 | 38 | 9.7 | 2.9 | 4.2 | 28 | 2.8 |
| 20 | 3.0 | 7.7 | 11 | 7.9 | 7.8 | 53 | 34 | 6.6 | 4.2 | 4.0 | 79 | 2.7 |
| 21 | 3.1 | 7.1 | 14 | 7.7 | 8.6 | 51 | 34 | 5.7 | 6.3 | 4.0 | 96 | 2.6 |
| 22 | 3.1 | 6.8 | 13 | 7.6 | 9.8 | 47 | 33 | 4.3 | 4.6 | 3.9 | 69 | 2.9 |
| 23 | 4.0 | 9.5 | 12 | 7.5 | 12 | 47 | 29 | 4.2 | 3.9 | 3.7 | 53 | 2.8 |
| 24 | 4.5 | 9.6 | 11 | 7.3 | 13 | 50 | 29 | 6.6 | 3.4 | 4.0 | 44 | 2.7 |
| 25 | 5.2 | 7.4 | 10 | 7.3 | 12 | 45 | 32 | 15 | 3.0 | 4.7 | 33 | 2.6 |
| 26 | 5.6 | 6.7 | 9.0 | 7.2 | 10 | 38 | 35 | 12 | 2.8 | 4.8 | 27 | 2.9 |
| 27 | 4.9 | 8.5 | 8.4 | 7.1 | 8.2 | 33 | 35 | 11 | 2.7 | 4.4 | 22 | 3.8 |
| 28 | 4.4 | 9.1 | 7.6 | 7.0 | 10 | 34 | 36 | 9.9 | 3.4 | 4.2 | 21 | 3.1 |
| 29 | 3.9 | 7.8 | 7.2 | 6.9 | --- | 64 | 32 | 9.3 | 24 | 4.0 | 24 | 2.6 |
| 30 | 3.5 | 8.1 | 10 | 6.9 | --- | 116 | 38 | 9.2 | 53 | 4.1 | 33 | 2.5 |
| 31 | 3.5 | --- | 37 | 6.8 | --- | 167 | --- | 9.1 | --- | 4.5 | 34 | --- |
| TOTAL | 129.3 | 193.1 | 460.2 | 547.5 | 219.4 | 2776 | 2191 | 633.6 | 225.9 | 236.4 | 1085 | 220.3 |
| MEAN | 4.17 | 6.44 | 14.8 | 17.7 | 7.84 | 89.5 | 73.0 | 20.4 | 7.53 | 7.63 | 35.0 | 7.34 |
| MAX | 9.9 | 11 | 37 | 97 | 13 | 321 | 158 | 57 | 53 | 26 | 96 | 30 |
| MIN | 2.8 | 3.9 | 7.2 | 6.8 | 6.7 | 22 | 29 | 4.2 | 2.7 | 3.7 | 12 | 2.5 |
| CFSM | .11 | .17 | .40 | .47 | .21 | 2.39 | 1.95 | .54 | .20 | .20 | .93 | .20 |
| IN. | .13 | .19 | .46 | .54 | .22 | 2.75 | 2.17 | .63 | .22 | .23 | 1.08 | .22 |
| CAL YR 1978 | TOTAL | 11805.3 | MEAN | 32.3 | MAX | 491 | MIN | 2.8 | CFSM | .86 | IN | 11.71 |
| WTR YR 1979 | TOTAL | 8917.7 | MEAN | 24.4 | MAX | 321 | MIN | 2.5 | CFSM | .65 | IN | 8.85 |

STREAMS TRIBUTARY TO LAKE ERIE

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN

LOCATION.--Lat 41°23'08", long 84°48'06", in SW¼SW¼ sec.18, T.5 N., R.1 E., Defiance County, Ohio, Hydrologic Unit 04100003, 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 mi² (1,580 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 795.40 ft (242.438 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--33 years, 504 ft³/s (14.3 m³/s), 11.22 in/yr 285 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,710 ft³/s (275 m³/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 10, 16, 1964.

EXTREMES FOR CURENT YEAR.--Maximum discharge, 3,620 ft³/s (103 m³/s) Mar. 7, gage height, 13.30 ft (4.054 m); minimum daily, 46 ft³/s (1.30 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|------|------|-------|------|
| 1 | 48 | 66 | 88 | 659 | 102 | 200 | 2000 | 535 | 209 | 680 | 96 | 432 |
| 2 | 46 | 64 | 92 | 920 | 101 | 500 | 2080 | 563 | 200 | 737 | 387 | 316 |
| 3 | 50 | 63 | 157 | 720 | 101 | 1550 | 2030 | 616 | 193 | 577 | 824 | 262 |
| 4 | 56 | 63 | 311 | 550 | 100 | 2230 | 1840 | 825 | 176 | 377 | 833 | 327 |
| 5 | 53 | 64 | 375 | 445 | 100 | 2850 | 1550 | 1010 | 163 | 313 | 645 | 233 |
| 6 | 54 | 80 | 342 | 390 | 100 | 3180 | 1320 | 1040 | 152 | 398 | 523 | 187 |
| 7 | 55 | 75 | 293 | 330 | 101 | 3490 | 1190 | 961 | 143 | 322 | 498 | 159 |
| 8 | 56 | 70 | 343 | 290 | 101 | 3470 | 1140 | 776 | 137 | 227 | 370 | 140 |
| 9 | 63 | 66 | 363 | 240 | 102 | 2970 | 1700 | 615 | 132 | 180 | 425 | 122 |
| 10 | 65 | 62 | 314 | 210 | 102 | 2470 | 1950 | 509 | 131 | 157 | 406 | 111 |
| 11 | 63 | 60 | 265 | 190 | 102 | 2330 | 1950 | 436 | 129 | 153 | 441 | 103 |
| 12 | 61 | 61 | 220 | 178 | 102 | 2000 | 1960 | 386 | 127 | 143 | 428 | 97 |
| 13 | 59 | 59 | 198 | 161 | 102 | 1540 | 1980 | 361 | 120 | 122 | 293 | 91 |
| 14 | 57 | 76 | 172 | 150 | 102 | 1290 | 2000 | 347 | 109 | 108 | 216 | 93 |
| 15 | 58 | 75 | 160 | 140 | 102 | 1130 | 1880 | 345 | 100 | 101 | 171 | 101 |
| 16 | 60 | 77 | 159 | 137 | 102 | 1130 | 1680 | 320 | 93 | 96 | 144 | 117 |
| 17 | 61 | 86 | 140 | 130 | 102 | 1070 | 1460 | 294 | 81 | 89 | 126 | 95 |
| 18 | 61 | 97 | 133 | 126 | 102 | 797 | 1170 | 270 | 75 | 81 | 214 | 83 |
| 19 | 63 | 106 | 128 | 119 | 102 | 791 | 881 | 247 | 77 | 74 | 680 | 76 |
| 20 | 65 | 110 | 123 | 114 | 102 | 847 | 706 | 229 | 75 | 68 | 933 | 71 |
| 21 | 65 | 102 | 120 | 111 | 107 | 845 | 603 | 210 | 88 | 64 | 1210 | 67 |
| 22 | 64 | 94 | 117 | 110 | 120 | 784 | 539 | 194 | 144 | 60 | 1660 | 64 |
| 23 | 62 | 92 | 114 | 109 | 131 | 712 | 491 | 180 | 150 | 57 | 1680 | 62 |
| 24 | 68 | 91 | 111 | 108 | 160 | 697 | 450 | 174 | 117 | 59 | 1230 | 60 |
| 25 | 80 | 92 | 106 | 108 | 189 | 694 | 433 | 231 | 92 | 66 | 740 | 59 |
| 26 | 82 | 96 | 100 | 107 | 170 | 633 | 442 | 359 | 79 | 76 | 511 | 57 |
| 27 | 75 | 99 | 96 | 105 | 161 | 545 | 467 | 404 | 71 | 81 | 380 | 62 |
| 28 | 74 | 96 | 94 | 103 | 150 | 478 | 501 | 349 | 67 | 74 | 312 | 68 |
| 29 | 70 | 92 | 91 | 103 | --- | 699 | 517 | 288 | 69 | 64 | 281 | 77 |
| 30 | 69 | 92 | 92 | 102 | --- | 1400 | 527 | 247 | 216 | 61 | 323 | 80 |
| 31 | 69 | --- | 161 | 102 | --- | 1820 | --- | 224 | --- | 81 | 487 | --- |
| TOTAL | 1932 | 2426 | 5578 | 7367 | 3218 | 45142 | 37437 | 13545 | 3715 | 5746 | 17467 | 3872 |
| MEAN | 62.3 | 80.9 | 180 | 238 | 115 | 1456 | 1248 | 437 | 124 | 185 | 563 | 129 |
| MAX | 82 | 110 | 375 | 920 | 189 | 3490 | 2080 | 1040 | 216 | 737 | 1680 | 432 |
| MIN | 46 | 59 | 88 | 102 | 100 | 200 | 433 | 174 | 67 | 57 | 96 | 57 |
| CFSM | .10 | .13 | .30 | .39 | .19 | 2.39 | 2.05 | .72 | .20 | .30 | .92 | .21 |
| IN. | .12 | .15 | .34 | .45 | .20 | 2.75 | 2.28 | .83 | .23 | .35 | 1.07 | .24 |

CAL YR 1978 TOTAL 205516 MEAN 563 MAX 8040 MIN 46 CFSM .92 IN 12.53
WTR YR 1979 TOTAL 147445 MEAN 404 MAX 3490 MIN 46 CFSM .66 IN 8.99

04179000 ST. JOSEPH RIVER AT CEDARVILLE, IN

LOCATION.--Lat 41°11'46", long 85°01'27", in J. Hackley Reserve, T.32 N., R.13 E., Allen County, Hydrologic Unit 04100003, on left bank 700 ft (213 m) upstream from highway bridge, 0.4 mile (0.6 km) south of Cedarville, 0.5 mile (0.8 km) upstream from Cedar Creek, 0.6 mile (1.0 km) downstream from Cedarville Dam, and at mile 13.9 (22.4 km).

DRAINAGE AREA.--763 mi² (1,976 km²).

PERIOD OF RECORD.--January 1931 to May 1932, October 1955 to current year.

REVISED RECORDS.--WSP 1912: 1956. WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 757.94 ft (231.020 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records fair. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Stage-discharge relation affected at times by backwater from Cedar Creek.

AVERAGE DISCHARGE.--24 years (1955 to current year), 607 ft³/s (17.19 m³/s), 10.80 in/yr (274 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) May 1, 1956, gage height, 18.07 ft (5.508 m), from floodmarks; maximum gage height, 18.62 ft (5.675 m) Mar. 24, 1978; minimum daily discharge, 1.6 ft³/s (0.045 m³/s) May 22, 27, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,020 ft³/s (142 m³/s) Mar. 5, maximum gage height, 14.37 ft (4.380 m) Mar. 5; minimum daily discharge, 59 ft³/s (1.67 m³/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|----------|----------|-------|------|------|-------|------|
| 1 | 89 | 73 | 265 | 968 | 124 | 390 | 2380 | 525 | 268 | 407 | 134 | 422 |
| 2 | 81 | 73 | 281 | 1090 | 123 | 590 | 2380 | 624 | 215 | 756 | 419 | 437 |
| 3 | 80 | 73 | 549 | 840 | 121 | 1500 | 2290 | 654 | 254 | 525 | 792 | 319 |
| 4 | 76 | 72 | 828 | 700 | 121 | 2380 | 2260 | 788 | 244 | 496 | 840 | 252 |
| 5 | 61 | 70 | 516 | 570 | 121 | 4160 | 1810 | 1010 | 188 | 339 | 762 | 419 |
| 6 | 59 | 75 | 437 | 460 | 121 | 3870 | 1580 | 1190 | 202 | 287 | 597 | 170 |
| 7 | 68 | 75 | 372 | 400 | 121 | 3500 | 1320 | 980 | 200 | 364 | 486 | 473 |
| 8 | 70 | 76 | 681 | 350 | 122 | 2940 | 1190 | 784 | 195 | 254 | 480 | 245 |
| 9 | 72 | 78 | 567 | 310 | 123 | 2840 | 1570 | 750 | 195 | 307 | 424 | 163 |
| 10 | 76 | 80 | 432 | 264 | 123 | 2690 | 2130 | 758 | 185 | 191 | 476 | 128 |
| 11 | 78 | 80 | 350 | 230 | 126 | 2300 | 2410 | 570 | 183 | 179 | 585 | 149 |
| 12 | 83 | 80 | 310 | 210 | 127 | 1950 | 2240 | 478 | 153 | 213 | 383 | 127 |
| 13 | 83 | 75 | 278 | 198 | 128 | 1650 | 2130 | 319 | 123 | 198 | 483 | 103 |
| 14 | 80 | 134 | 250 | 189 | 127 | 1470 | 2520 | 615 | 141 | 136 | 199 | 118 |
| 15 | 78 | 146 | 222 | 180 | 125 | 1220 | 2360 | 341 | 136 | 135 | 254 | 112 |
| 16 | 83 | 104 | 200 | 169 | 129 | 1290 | 1860 | 414 | 133 | 134 | 215 | 128 |
| 17 | 75 | 115 | 190 | 152 | 129 | 1000 | 1850 | 130 | 127 | 127 | 151 | 157 |
| 18 | 73 | 220 | 178 | 148 | 129 | 1100 | 1340 | 255 | 118 | 89 | 167 | 114 |
| 19 | 75 | 148 | 169 | 124 | 129 | 948 | 1200 | 277 | 103 | 94 | 353 | 101 |
| 20 | 83 | 92 | 169 | 138 | 130 | 1030 | 1080 | 312 | 91 | 93 | 956 | 80 |
| 21 | 76 | 119 | 161 | 134 | 132 | 1040 | 687 | 279 | 152 | 86 | 904 | 83 |
| 22 | 75 | 127 | 174 | 132 | 150 | 1000 | 624 | 251 | 125 | 71 | 1570 | 86 |
| 23 | 79 | 161 | 169 | 131 | 179 | 744 | 522 | 233 | 164 | 72 | 1920 | 81 |
| 24 | 70 | 163 | 153 | 130 | 220 | 940 | 582 | 238 | 187 | 83 | 1740 | 78 |
| 25 | 70 | 146 | 145 | 129 | 370 | 771 | 475 | 296 | 160 | 135 | 1020 | 77 |
| 26 | 73 | 138 | 138 | 129 | 350 | 844 | 531 | 411 | 114 | 182 | 621 | 78 |
| 27 | 75 | 140 | 130 | 128 | 330 | 596 | 501 | 466 | 71 | 69 | 437 | 73 |
| 28 | 78 | 127 | 123 | 128 | 320 | 615 | 531 | 446 | 75 | 70 | 395 | 73 |
| 29 | 73 | 129 | 119 | 127 | --- | 1240 | 591 | 343 | 93 | 136 | 378 | 74 |
| 30 | 73 | 242 | 150 | 126 | --- | 1660 | 618 | 281 | 159 | 86 | 258 | 82 |
| 31 | 75 | --- | 233 | 125 | --- | 2160 | --- | 307 | --- | 85 | 522 | --- |
| TOTAL | 2340 | 3431 | 8939 | 9109 | 4550 | 50428 | 43562 | 15325 | 4754 | 6399 | 18921 | 5002 |
| MEAN | 75.5 | 114 | 288 | 294 | 163 | 1627 | 1452 | 494 | 158 | 206 | 610 | 167 |
| MAX | 89 | 242 | 828 | 1090 | 370 | 4160 | 2520 | 1190 | 268 | 756 | 1920 | 473 |
| MIN | 59 | 70 | 119 | 124 | 121 | 390 | 475 | 130 | 71 | 69 | 134 | 73 |
| CFSM | .10 | .15 | .38 | .39 | .21 | 2.13 | 1.90 | .65 | .21 | .27 | .80 | .22 |
| IN. | .11 | .17 | .44 | .44 | .22 | 2.46 | 2.12 | .75 | .23 | .31 | .92 | .24 |
| CAL YR 1978 | TOTAL | 252651 | MEAN 692 | MAX 8780 | MIN 59 | CFSM .91 | IN 12.32 | | | | | |
| WTR YR 1979 | TOTAL | 172760 | MEAN 473 | MAX 4160 | MIN 59 | CFSM .62 | IN 8.42 | | | | | |

STREAMS TRIBUTARY TO LAKE ERIE

04180000 CEDAR CREEK NEAR CEDARVILLE, IN

LOCATION.--Lat 41°13'08", long 85°04'35", in NW¼NW¼ sec.19, T.32 N., R.13 E., Allen County, Hydrologic Unit 04100003, 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 mi² (699 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1912: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 780.09 ft (237.771 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--33 years, 234 ft³/s (6.627 m³/s), 11.77 in/yr (299 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s (138 m³/s) Apr. 5, 1950, gage height, 11.67 ft (3.557 m); minimum daily, 13 ft³/s (0.37 m³/s) Oct. 3, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*).

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 1300 | *2890 81.8 | *8.61 2.624 |

Minimum daily discharge, 25 ft³/s (0.71 m³/s) Oct. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|------|------|------|------|------|
| 1 | 28 | 28 | 47 | 617 | 46 | 160 | 1090 | 248 | 81 | 91 | 86 | 52 |
| 2 | 27 | 26 | 52 | 474 | 46 | 350 | 730 | 224 | 76 | 72 | 257 | 47 |
| 3 | 29 | 26 | 148 | 303 | 46 | 860 | 577 | 282 | 74 | 61 | 198 | 44 |
| 4 | 31 | 27 | 349 | 225 | 46 | 2020 | 482 | 378 | 70 | 54 | 128 | 42 |
| 5 | 29 | 27 | 228 | 190 | 46 | 2790 | 553 | 306 | 63 | 51 | 117 | 41 |
| 6 | 34 | 26 | 152 | 160 | 46 | 2100 | 497 | 254 | 66 | 46 | 118 | 40 |
| 7 | 31 | 30 | 146 | 140 | 46 | 1400 | 403 | 224 | 64 | 43 | 96 | 37 |
| 8 | 30 | 30 | 286 | 118 | 46 | 946 | 376 | 200 | 65 | 42 | 80 | 35 |
| 9 | 28 | 29 | 241 | 103 | 46 | 754 | 1030 | 185 | 62 | 53 | 152 | 35 |
| 10 | 27 | 29 | 177 | 91 | 46 | 645 | 1020 | 170 | 58 | 49 | 218 | 33 |
| 11 | 28 | 29 | 135 | 82 | 46 | 493 | 711 | 161 | 60 | 44 | 255 | 33 |
| 12 | 30 | 30 | 106 | 75 | 46 | 408 | 998 | 163 | 54 | 41 | 164 | 33 |
| 13 | 31 | 29 | 98 | 69 | 46 | 367 | 947 | 173 | 51 | 39 | 114 | 33 |
| 14 | 29 | 74 | 87 | 66 | 46 | 544 | 750 | 159 | 49 | 40 | 90 | 35 |
| 15 | 28 | 52 | 81 | 63 | 46 | 480 | 594 | 175 | 46 | 37 | 74 | 33 |
| 16 | 29 | 39 | 75 | 60 | 47 | 357 | 474 | 163 | 45 | 34 | 64 | 30 |
| 17 | 28 | 52 | 70 | 56 | 47 | 314 | 399 | 145 | 42 | 34 | 59 | 29 |
| 18 | 27 | 87 | 65 | 54 | 48 | 331 | 343 | 133 | 40 | 32 | 75 | 31 |
| 19 | 27 | 60 | 64 | 52 | 50 | 411 | 301 | 129 | 42 | 31 | 73 | 30 |
| 20 | 27 | 48 | 63 | 51 | 54 | 423 | 273 | 122 | 42 | 29 | 161 | 30 |
| 21 | 27 | 43 | 69 | 50 | 61 | 382 | 224 | 118 | 105 | 28 | 258 | 30 |
| 22 | 26 | 42 | 63 | 49 | 71 | 347 | 208 | 108 | 101 | 27 | 180 | 29 |
| 23 | 25 | 45 | 58 | 48 | 82 | 322 | 200 | 103 | 70 | 26 | 133 | 29 |
| 24 | 25 | 54 | 53 | 48 | 110 | 385 | 197 | 105 | 56 | 35 | 126 | 28 |
| 25 | 27 | 48 | 50 | 47 | 130 | 347 | 202 | 152 | 49 | 50 | 104 | 28 |
| 26 | 33 | 44 | 47 | 47 | 120 | 290 | 205 | 129 | 46 | 50 | 82 | 28 |
| 27 | 33 | 45 | 45 | 46 | 112 | 251 | 210 | 112 | 45 | 40 | 72 | 28 |
| 28 | 29 | 48 | 43 | 46 | 110 | 258 | 240 | 95 | 43 | 34 | 69 | 29 |
| 29 | 26 | 44 | 40 | 46 | --- | 655 | 248 | 87 | 54 | 31 | 74 | 29 |
| 30 | 26 | 46 | 40 | 46 | --- | 1140 | 246 | 83 | 105 | 30 | 68 | 28 |
| 31 | 28 | --- | 101 | 46 | --- | 1360 | --- | 81 | --- | 58 | 59 | --- |
| TOTAL | 883 | 1237 | 3279 | 3568 | 1732 | 21890 | 14728 | 5167 | 1824 | 1332 | 3804 | 1009 |
| MEAN | 28.5 | 41.2 | 106 | 115 | 61.9 | 706 | 491 | 167 | 60.8 | 43.0 | 123 | 33.6 |
| MAX | 34 | 87 | 349 | 617 | 130 | 2790 | 1090 | 378 | 105 | 91 | 258 | 52 |
| MIN | 25 | 26 | 40 | 46 | 46 | 160 | 197 | 81 | 40 | 26 | 59 | 28 |
| CFSM | .11 | .15 | .39 | .43 | .23 | 2.62 | 1.82 | .62 | .23 | .16 | .46 | .12 |
| IN. | .12 | .17 | .45 | .49 | .24 | 3.02 | 2.03 | .71 | .25 | .18 | .52 | .14 |
| CAL YR 1978 | TOTAL | 87553 | MEAN 240 | MAX 3710 | MIN 25 | CFSM .89 | IN 12.06 | | | | | |
| WTR YR 1979 | TOTAL | 60453 | MEAN 166 | MAX 2790 | MIN 25 | CFSM .62 | IN 8.33 | | | | | |

0418000 CEDAR CREEK NEAR CEDARVILLE, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: February 1979 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|
| MAR 07... | 1130 | 1.0 | 1430 | 99 | 382 | 89 | 94 | 100 |
| APR 12... | 1410 | 9.0 | 1090 | 267 | 786 | -- | -- | -- |
| JUN 05... | 1325 | 19.5 | 67 | 31 | 5.6 | -- | -- | -- |
| JUL 12... | 1400 | -- | 40 | 43 | 4.6 | -- | -- | -- |
| AUG 22... | 1730 | -- | 158 | 73 | 31 | -- | -- | -- |

04181500 ST. MARYS RIVER AT DECATUR, IN

LOCATION.--Lat 40°50'55", long 84°56'16", in SW¼SW¼ sec.27, T.28 N., R.14 E., Adams County, Hydrologic Unit 04100004, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 27, 0.5 mile (0.8 km) upstream from Holthouse ditch, 1.3 miles (2.1 km) north of Decatur, and at mile 29.1 (46.8 km).

DRAINAGE AREA.--621 mi² (1,608 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mile (0.8 km) upstream January 1932 to November 1954, and at present site thereafter are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft (231.782 m) National Geodetic Vertical Datum of 1929. Prior to July 27, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

AVERAGE DISCHARGE.--33 years, 489 ft³/s (13.85 m³/s), 10.69 in/yr (272 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/s) Feb. 10, 11, 1959; maximum gage height, 24.22 ft (7.382 m) Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 ft³/s (0.15 m³/s) Oct. 18, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,900 ft³/s (82.1 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 0300 | *8560 242 | *22.59 6.885 |

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Nov. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|------|-------|--------|----------|----------|------|------|------|------|
| 1 | 18 | 21 | 30 | 1410 | 40 | 1580 | 477 | 291 | 720 | 87 | 421 | 296 |
| 2 | 19 | 23 | 29 | 1380 | 39 | 1700 | 437 | 263 | 430 | 73 | 1630 | 253 |
| 3 | 19 | 21 | 522 | 668 | 38 | 3360 | 406 | 257 | 245 | 103 | 1540 | 162 |
| 4 | 21 | 20 | 770 | 450 | 37 | 6550 | 320 | 232 | 166 | 94 | 930 | 108 |
| 5 | 30 | 19 | 277 | 310 | 36 | 7830 | 331 | 192 | 137 | 69 | 677 | 112 |
| 6 | 26 | 19 | 168 | 250 | 35 | 6890 | 346 | 177 | 122 | 50 | 593 | 91 |
| 7 | 22 | 19 | 224 | 200 | 35 | 5720 | 373 | 170 | 114 | 38 | 561 | 86 |
| 8 | 19 | 16 | 571 | 175 | 34 | 4270 | 486 | 157 | 432 | 33 | 473 | 85 |
| 9 | 18 | 16 | 495 | 140 | 34 | 3330 | 715 | 137 | 437 | 232 | 367 | 67 |
| 10 | 19 | 16 | 193 | 123 | 33 | 2700 | 870 | 121 | 328 | 917 | 249 | 52 |
| 11 | 22 | 23 | 168 | 115 | 33 | 1850 | 1310 | 111 | 296 | 595 | 159 | 43 |
| 12 | 23 | 29 | 162 | 104 | 33 | 1300 | 1980 | 117 | 232 | 362 | 117 | 37 |
| 13 | 25 | 25 | 142 | 95 | 33 | 1040 | 2280 | 115 | 148 | 263 | 96 | 33 |
| 14 | 26 | 34 | 90 | 86 | 33 | 1060 | 2750 | 105 | 108 | 231 | 74 | 39 |
| 15 | 26 | 30 | 86 | 80 | 33 | 847 | 2720 | 120 | 79 | 152 | 58 | 46 |
| 16 | 22 | 29 | 120 | 72 | 33 | 635 | 2510 | 119 | 63 | 138 | 46 | 72 |
| 17 | 19 | 68 | 105 | 66 | 33 | 571 | 2460 | 103 | 54 | 219 | 41 | 228 |
| 18 | 25 | 105 | 88 | 63 | 33 | 589 | 2240 | 91 | 49 | 161 | 42 | 307 |
| 19 | 29 | 63 | 70 | 61 | 33 | 667 | 1620 | 82 | 46 | 102 | 41 | 245 |
| 20 | 26 | 43 | 58 | 58 | 33 | 629 | 1070 | 77 | 46 | 70 | 57 | 140 |
| 21 | 25 | 40 | 50 | 56 | 34 | 510 | 708 | 71 | 79 | 52 | 188 | 86 |
| 22 | 20 | 45 | 46 | 54 | 39 | 372 | 490 | 62 | 52 | 44 | 146 | 62 |
| 23 | 18 | 49 | 34 | 52 | 60 | 354 | 339 | 57 | 42 | 39 | 105 | 48 |
| 24 | 17 | 43 | 32 | 50 | 250 | 324 | 263 | 103 | 39 | 100 | 142 | 40 |
| 25 | 18 | 36 | 30 | 49 | 1800 | 263 | 233 | 890 | 39 | 324 | 169 | 35 |
| 26 | 20 | 31 | 29 | 48 | 1700 | 213 | 221 | 1710 | 35 | 412 | 124 | 33 |
| 27 | 19 | 32 | 27 | 46 | 1600 | 154 | 219 | 1190 | 32 | 264 | 122 | 31 |
| 28 | 19 | 34 | 25 | 44 | 1400 | 219 | 286 | 939 | 29 | 160 | 123 | 30 |
| 29 | 18 | 34 | 26 | 43 | --- | 908 | 319 | 1100 | 29 | 143 | 113 | 29 |
| 30 | 17 | 32 | 28 | 42 | --- | 1030 | 292 | 1190 | 63 | 165 | 156 | 27 |
| 31 | 18 | --- | 145 | 41 | --- | 737 | --- | 1030 | --- | 228 | 249 | --- |
| TOTAL | 663 | 1015 | 4840 | 6431 | 7574 | 58202 | 29071 | 11379 | 4691 | 5920 | 9809 | 2923 |
| MEAN | 21.4 | 33.8 | 156 | 207 | 271 | 1877 | 969 | 367 | 156 | 191 | 316 | 97.4 |
| MAX | 30 | 105 | 770 | 1410 | 1800 | 7830 | 2750 | 1710 | 720 | 917 | 1630 | 307 |
| MIN | 17 | 16 | 25 | 41 | 33 | 154 | 219 | 57 | 29 | 33 | 41 | 27 |
| CFSM | .03 | .05 | .25 | .33 | .44 | 3.02 | 1.56 | .59 | .25 | .31 | .51 | .16 |
| IN. | .04 | .06 | .29 | .39 | .45 | 3.49 | 1.74 | .68 | .28 | .35 | .59 | .18 |
| CAL YR 1978 | TOTAL | 177581 | MEAN 487 | MAX | 10000 | MIN 16 | CFSM .78 | IN 10.64 | | | | |
| WTR YR 1979 | TOTAL | 142518 | MEAN 390 | MAX | 7830 | MIN 16 | CFSM .63 | IN 8.54 | | | | |

04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat 40°59'16", long 85°06'03", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, Hydrologic Unit 04100004, on left bank 130 ft (40 m) downstream from Anthony Boulevard Extension, 0.8 mile (1.3 km) downstream from Houk ditch, 5 miles (8 km) south of Fort Wayne, and 10.8 miles (17.4 km) upstream from mouth.

DRAINAGE AREA.--762 mi² (1,974 km²).

WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 748.97 ft (228.286 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good. The flow is sometimes regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal. During extreme floods, some water bypasses gage and flows through Houk ditch and Paul Trier ditch into the Maumee River.

AVERAGE DISCHARGE.--49 years, 568 ft³/s (16.09 m³/s), 10.12 in/yr 257 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s (385 m³/s) Feb. 11, 1959; maximum gage height, 19.42 ft (5.919 m) Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 ft³/s (0.010 m³/s) Oct. 19, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft³/s (113 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 1900 | *9840 279 | *16.39 4.996 |

Minimum daily discharge, 19 ft³/s (0.54 m³/s) Oct. 1, Nov. 11.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: May 1953 to December 1967. Partial-record station October 1977 to September 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|-----------|--------|----------|----------|-------|------|------|-------|------|
| 1 | 19 | 22 | 35 | 1470 | 92 | 1800 | 891 | 327 | 920 | 90 | 514 | 312 |
| 2 | 20 | 23 | 33 | 1850 | 90 | 2300 | 679 | 312 | 589 | 98 | 1520 | 323 |
| 3 | 20 | 27 | 205 | 1040 | 88 | 4890 | 632 | 309 | 362 | 94 | 2080 | 239 |
| 4 | 21 | 27 | 1030 | 836 | 87 | 7820 | 479 | 299 | 240 | 117 | 1260 | 148 |
| 5 | 23 | 27 | 526 | 580 | 85 | 9530 | 448 | 252 | 181 | 102 | 869 | 109 |
| 6 | 29 | 26 | 240 | 460 | 84 | 9090 | 425 | 217 | 187 | 80 | 694 | 111 |
| 7 | 32 | 25 | 205 | 375 | 82 | 7670 | 408 | 203 | 159 | 63 | 642 | 91 |
| 8 | 28 | 23 | 537 | 315 | 80 | 6420 | 476 | 191 | 281 | 52 | 568 | 89 |
| 9 | 25 | 23 | 697 | 260 | 79 | 5090 | 730 | 172 | 470 | 233 | 457 | 85 |
| 10 | 23 | 20 | 385 | 225 | 78 | 4040 | 1050 | 151 | 498 | 756 | 343 | 70 |
| 11 | 23 | 19 | 214 | 195 | 77 | 2890 | 978 | 139 | 359 | 858 | 226 | 59 |
| 12 | 26 | 20 | 170 | 178 | 75 | 1640 | 2450 | 139 | 318 | 485 | 150 | 51 |
| 13 | 30 | 31 | 150 | 163 | 75 | 1210 | 2750 | 153 | 229 | 338 | 113 | 46 |
| 14 | 32 | 47 | 125 | 150 | 75 | 1380 | 3480 | 140 | 157 | 398 | 94 | 44 |
| 15 | 32 | 48 | 110 | 140 | 75 | 1230 | 3680 | 152 | 118 | 253 | 74 | 48 |
| 16 | 35 | 36 | 95 | 135 | 75 | 864 | 3220 | 159 | 94 | 150 | 62 | 55 |
| 17 | 32 | 48 | 85 | 129 | 75 | 720 | 3040 | 143 | 80 | 181 | 53 | 110 |
| 18 | 27 | 83 | 86 | 126 | 75 | 738 | 2900 | 126 | 73 | 214 | 49 | 298 |
| 19 | 28 | 92 | 108 | 122 | 77 | 877 | 2210 | 109 | 68 | 146 | 49 | 319 |
| 20 | 36 | 59 | 65 | 118 | 78 | 857 | 1390 | 101 | 75 | 98 | 50 | 217 |
| 21 | 36 | 43 | 68 | 113 | 80 | 750 | 917 | 92 | 231 | 73 | 100 | 129 |
| 22 | 33 | 40 | 98 | 110 | 90 | 571 | 636 | 86 | 193 | 58 | 216 | 87 |
| 23 | 29 | 47 | 58 | 109 | 100 | 462 | 444 | 76 | 97 | 49 | 172 | 68 |
| 24 | 23 | 50 | 50 | 107 | 150 | 442 | 341 | 83 | 68 | 54 | 151 | 57 |
| 25 | 21 | 43 | 47 | 103 | 2100 | 386 | 295 | 584 | 62 | 207 | 179 | 40 |
| 26 | 23 | 38 | 45 | 101 | 1900 | 301 | 275 | 2010 | 58 | 466 | 162 | 36 |
| 27 | 26 | 35 | 43 | 99 | 1800 | 239 | 267 | 1650 | 52 | 398 | 126 | 34 |
| 28 | 26 | 34 | 40 | 98 | 1600 | 330 | 290 | 1090 | 48 | 235 | 129 | 32 |
| 29 | 25 | 36 | 40 | 97 | --- | 1360 | 362 | 1120 | 54 | 156 | 131 | 32 |
| 30 | 23 | 37 | 42 | 95 | --- | 2130 | 343 | 1290 | 55 | 156 | 125 | 31 |
| 31 | 22 | --- | 115 | 93 | --- | 1620 | --- | 1210 | --- | 193 | 208 | --- |
| TOTAL | 828 | 1129 | 5747 | 9992 | 9422 | 79647 | 36486 | 13085 | 6376 | 6851 | 11566 | 3370 |
| MEAN | 26.7 | 37.6 | 185 | 322 | 337 | 2569 | 1216 | 422 | 213 | 221 | 373 | 112 |
| MAX | 36 | 92 | 1030 | 1850 | 2100 | 9530 | 3680 | 2010 | 920 | 858 | 2080 | 323 |
| MIN | 19 | 19 | 33 | 93 | 75 | 239 | 267 | 76 | 48 | 49 | 49 | 31 |
| CFSM | .04 | .05 | .24 | .42 | .44 | 3.37 | 1.60 | .55 | .28 | .29 | .49 | .15 |
| IN. | .04 | .06 | .28 | .49 | .46 | 3.89 | 1.78 | .64 | .31 | .33 | .56 | .16 |
| CAL YR 1978 | TOTAL | 234270 | MEAN 642 | MAX 12800 | MIN 17 | CFSM .84 | IN 11.44 | | | | | |
| WTR YR 1979 | TOTAL | 184499 | MEAN 505 | MAX 9530 | MIN 19 | CFSM .66 | IN 9.01 | | | | | |

STREAMS TRIBUTARY TO LAKE ERIE

04182590 HARBER DITCH AT FORT WAYNE, IN

LOCATION.--Lat 41°00'27", long 85°10'58", in NE&SW¼ sec.33, T.30 N., R.12 E., Allen County, Hydrologic Unit 04100004, on left bank 50 ft (15 m) upstream from bridge on Baer Road, at Fort Wayne, 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 mi² (56.7 km²).

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--15 years, 18.2 ft³/s (0.515 m³/s), 11.29 in/yr (287 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 889 ft³/s (25.2 m³/s) Aug. 1, 1979, gage height, 10.59 ft (3.228 m); maximum gage height, 11.55 (3.520 m) Feb. 20, 1971; minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Oct. 27, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft³/s (7.08 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Feb. 23 | 2015 | 306 8.66 | 7.00 2.134 | Mar. 30 | 0045 | 329 9.32 | 7.19 2.192 |
| Mar. 4 | 0830 | 883 25.0 | 10.56 3.219 | Aug. 1 | 2215 | *889 25.2 | *10.59 3.228 |

Minimum daily discharge, 0.16 ft³/s (0.005 m³/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|-------|--------|--------|-------|-------|-------|--------|--------|-------|
| 1 | .83 | .88 | 1.8 | 86 | 1.1 | 42 | 57 | 4.6 | 3.7 | 1.8 | 197 | .94 |
| 2 | .28 | .83 | 1.8 | 25 | 1.0 | 84 | 44 | 4.9 | 3.3 | 1.5 | 149 | .87 |
| 3 | .48 | .75 | 35 | 16 | 1.0 | 239 | 32 | 12 | 2.8 | 1.3 | 32 | .87 |
| 4 | .26 | .74 | 10 | 7.6 | 1.0 | 777 | 28 | 6.2 | 2.6 | 1.0 | 10 | 1.3 |
| 5 | 1.8 | .74 | 2.7 | 4.7 | .98 | 155 | 25 | 5.1 | 2.5 | .94 | 4.6 | 1.1 |
| 6 | .52 | .79 | 1.8 | 3.6 | .96 | 79 | 19 | 5.1 | 8.0 | .94 | 3.2 | .80 |
| 7 | .23 | 1.3 | 22 | 3.0 | .95 | 55 | 14 | 5.1 | 6.6 | .80 | 2.2 | .94 |
| 8 | .16 | .99 | 25 | 2.5 | .94 | 44 | 16 | 4.6 | 6.2 | 2.3 | 3.8 | .80 |
| 9 | .16 | .95 | 7.6 | 2.1 | .94 | 32 | 30 | 4.4 | 5.6 | 60 | 2.0 | .68 |
| 10 | .32 | .92 | 2.4 | 1.9 | .94 | 24 | 21 | 4.2 | 30 | 14 | 1.5 | .80 |
| 11 | .29 | .88 | 2.0 | 1.7 | .93 | 18 | 42 | 4.6 | 18 | 4.2 | 1.3 | .87 |
| 12 | .48 | .87 | 1.8 | 1.8 | .94 | 13 | 70 | 12 | 9.1 | 5.6 | 1.2 | .80 |
| 13 | .72 | 2.0 | 1.6 | 1.9 | .94 | 19 | 48 | 5.3 | 5.1 | 8.1 | 1.2 | 1.2 |
| 14 | .42 | 21 | 1.1 | 2.0 | .94 | 58 | 92 | 9.6 | 2.7 | 3.0 | .94 | 2.3 |
| 15 | .60 | 2.1 | 1.2 | 1.8 | .94 | 26 | 42 | 13 | 2.4 | 2.6 | .87 | .74 |
| 16 | 1.3 | 1.4 | 1.1 | 1.7 | .93 | 18 | 26 | 6.2 | 2.2 | 2.2 | .94 | .56 |
| 17 | .41 | 13 | .96 | 1.6 | .93 | 18 | 19 | 4.6 | 2.2 | 1.8 | 2.2 | .68 |
| 18 | .62 | 2.5 | 1.1 | 1.7 | .94 | 30 | 14 | 4.2 | 2.4 | 1.5 | 1.8 | .62 |
| 19 | .93 | 1.7 | .89 | 1.6 | .94 | 35 | 12 | 4.2 | 2.0 | .80 | 1.1 | .74 |
| 20 | .53 | 1.3 | 1.8 | 1.6 | .96 | 27 | 9.1 | 4.6 | 23 | .74 | 3.2 | .74 |
| 21 | .57 | 1.2 | 1.5 | 1.5 | 3.0 | 21 | 7.7 | 4.2 | 23 | .62 | 1.3 | .74 |
| 22 | .52 | .98 | 1.1 | 1.4 | 9.4 | 16 | 6.6 | 3.0 | 6.6 | .74 | 2.6 | .68 |
| 23 | .88 | 3.8 | .92 | 1.4 | .89 | 18 | 5.9 | 3.0 | 3.5 | .74 | 4.6 | .68 |
| 24 | .84 | 1.3 | .88 | 1.3 | 210 | 20 | 6.6 | 3.0 | 2.4 | 32 | 2.6 | .62 |
| 25 | 1.2 | 1.0 | .93 | 1.3 | 119 | 12 | 5.9 | 8.0 | 2.2 | 21 | 1.6 | .87 |
| 26 | 2.0 | .83 | .88 | 1.3 | 52 | 7.1 | 6.2 | 20 | 1.8 | 4.6 | 1.3 | .80 |
| 27 | .80 | 1.3 | .62 | 1.2 | 20 | 5.4 | 7.7 | 8.6 | 1.7 | 2.1 | 1.3 | .87 |
| 28 | .74 | 2.0 | .54 | 1.2 | 9.3 | 58 | 9.6 | 4.5 | 1.8 | 1.5 | 1.7 | .80 |
| 29 | .63 | 2.0 | .50 | 1.2 | --- | 131 | 5.3 | 4.3 | 5.6 | 1.0 | 1.4 | .80 |
| 30 | .78 | 2.5 | 1.8 | 1.1 | --- | 225 | 6.2 | 4.2 | 3.5 | 2.6 | 1.1 | .74 |
| 31 | .76 | --- | 57 | 1.1 | --- | 121 | --- | 4.0 | --- | 1.3 | 1.0 | --- |
| TOTAL | 21.06 | 72.55 | 190.32 | 183.8 | 530.90 | 2427.5 | 727.8 | 191.3 | 192.5 | 183.32 | 440.55 | 25.95 |
| MEAN | .68 | 2.42 | 6.14 | 5.93 | 19.0 | 78.3 | 24.3 | 6.17 | 6.42 | 5.91 | 14.2 | .87 |
| MAX | 2.0 | 21 | 57 | 86 | 210 | 777 | 92 | 20 | 30 | 60 | 197 | 2.3 |
| MIN | .16 | .74 | .50 | 1.1 | .93 | 5.4 | 5.3 | 3.0 | 1.7 | .62 | .87 | .56 |
| CFSM | .03 | .11 | .28 | .27 | .87 | 3.58 | 1.11 | .28 | .29 | .27 | .65 | .04 |
| IN. | .04 | .12 | .32 | .31 | .90 | 4.12 | 1.24 | .32 | .33 | .31 | .75 | .04 |
| CAL YR 1978 | TOTAL | 5655.18 | MEAN | 15.5 | MAX | 588 | MIN | .16 | CFSM | .71 | IN | 9.61 |
| WTR YR 1979 | TOTAL | 5187.55 | MEAN | 14.2 | MAX | 777 | MIN | .16 | CFSM | .65 | IN | 8.81 |

04183000 MAUMEE RIVER AT NEW HAVEN, IN

LOCATION.--Lat 41°05'06", long 85°01'20", in SE¼NE¼ sec.2, T.30 N., R.13 E., Allen County, Hydrologic Unit 04100005, 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 mi² (5,095 km²).

PERIOD OF RECORD.--December 1946 to September 1956 (high-water records only), October 1956 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 724.51 ft (220.831 m) National Geodetic Vertical Datum of 1929. 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.

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.

AVERAGE DISCHARGE.--23 years (1956 to current year), 1.582 ft³/s (44.8 m³/s), 10.92 in/yr (277 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s (634 m³/s) Mar. 24, 1978, gage height, 23.58 ft (7.187 m); minimum daily, 48 ft³/s (1.36 m³/s) Oct. 6, 13, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 9,500 ft³/s (269 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 6 | 0300 | *15600 441 | *19.99 6.093 |

Minimum daily discharge, 97 ft³/s (2.75 m³/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|----------|----------|-------|-------|-------|
| 1 | 155 | 145 | 449 | 3200 | 230 | 3240 | 5290 | 1380 | 1520 | 406 | 902 | 955 |
| 2 | 150 | 134 | 445 | 3480 | 230 | 3720 | 4390 | 1270 | 1090 | 1110 | 3680 | 950 |
| 3 | 140 | 156 | 1240 | 2900 | 230 | 6380 | 3950 | 1520 | 812 | 956 | 3290 | 1000 |
| 4 | 137 | 159 | 2450 | 1600 | 230 | 11300 | 3680 | 1580 | 701 | 871 | 2900 | 600 |
| 5 | 176 | 280 | 1730 | 1000 | 220 | 14500 | 3380 | 1740 | 543 | 680 | 2180 | 485 |
| 6 | 119 | 169 | 1070 | 840 | 220 | 15200 | 3030 | 1760 | 559 | 480 | 1850 | 520 |
| 7 | 155 | 167 | 1160 | 720 | 220 | 13700 | 2530 | 1820 | 517 | 581 | 1460 | 380 |
| 8 | 138 | 152 | 1680 | 620 | 220 | 11800 | 2500 | 1550 | 517 | 443 | 1390 | 290 |
| 9 | 154 | 178 | 1880 | 540 | 220 | 10000 | 3370 | 1410 | 865 | 948 | 1320 | 360 |
| 10 | 128 | 149 | 1120 | 470 | 218 | 8960 | 4680 | 1250 | 865 | 915 | 1390 | 320 |
| 11 | 167 | 97 | 670 | 430 | 222 | 7080 | 4400 | 842 | 704 | 1200 | 1510 | 275 |
| 12 | 164 | 111 | 748 | 400 | 220 | 4750 | 5590 | 1070 | 639 | 894 | 923 | 240 |
| 13 | 200 | 156 | 727 | 370 | 218 | 3610 | 6360 | 1010 | 492 | 892 | 858 | 229 |
| 14 | 173 | 847 | 538 | 360 | 220 | 3830 | 6970 | 758 | 456 | 730 | 609 | 250 |
| 15 | 153 | 352 | 480 | 340 | 220 | 3530 | 6850 | 1550 | 357 | 568 | 446 | 279 |
| 16 | 205 | 255 | 471 | 320 | 220 | 2990 | 5920 | 893 | 314 | 399 | 431 | 225 |
| 17 | 203 | 580 | 411 | 310 | 220 | 2580 | 5270 | 835 | 301 | 347 | 370 | 240 |
| 18 | 345 | 374 | 338 | 300 | 220 | 2630 | 4720 | 551 | 296 | 382 | 430 | 280 |
| 19 | 146 | 436 | 445 | 290 | 220 | 2640 | 4170 | 582 | 285 | 342 | 430 | 400 |
| 20 | 138 | 300 | 213 | 280 | 220 | 2760 | 2840 | 594 | 426 | 305 | 2030 | 370 |
| 21 | 167 | 266 | 390 | 280 | 230 | 2590 | 2460 | 540 | 631 | 233 | 1660 | 318 |
| 22 | 161 | 270 | 277 | 270 | 270 | 2350 | 1680 | 590 | 577 | 191 | 2040 | 308 |
| 23 | 160 | 346 | 303 | 260 | 400 | 2060 | 1480 | 535 | 387 | 180 | 2540 | 236 |
| 24 | 162 | 346 | 322 | 260 | 1000 | 2090 | 1350 | 490 | 365 | 521 | 2720 | 179 |
| 25 | 146 | 300 | 330 | 250 | 4000 | 1810 | 1220 | 900 | 296 | 714 | 1860 | 236 |
| 26 | 187 | 259 | 284 | 250 | 3500 | 1760 | 1200 | 1700 | 254 | 805 | 1180 | 183 |
| 27 | 167 | 288 | 187 | 240 | 3200 | 1390 | 1190 | 2400 | 221 | 732 | 962 | 203 |
| 28 | 161 | 300 | 227 | 240 | 2950 | 1760 | 1310 | 1950 | 192 | 447 | 662 | 162 |
| 29 | 158 | 284 | 270 | 240 | --- | 4070 | 1340 | 1600 | 232 | 355 | 726 | 166 |
| 30 | 155 | 303 | 303 | 230 | --- | 6360 | 1460 | 1520 | 517 | 429 | 628 | 146 |
| 31 | 156 | --- | 775 | 230 | --- | 6350 | --- | 1520 | --- | 507 | 687 | --- |
| TOTAL | 5126 | 8159 | 21933 | 21520 | 19988 | 167790 | 104580 | 37710 | 15931 | 18563 | 44064 | 10785 |
| MEAN | 165 | 272 | 708 | 694 | 714 | 5413 | 3486 | 1216 | 531 | 599 | 1421 | 360 |
| MAX | 345 | 847 | 2450 | 3480 | 4000 | 15200 | 6970 | 2400 | 1520 | 1200 | 3680 | 1000 |
| MIN | 119 | 97 | 187 | 230 | 218 | 1390 | 1190 | 490 | 192 | 180 | 370 | 146 |
| CFSM | .08 | .14 | .36 | .35 | .36 | 2.75 | 1.77 | .62 | .27 | .31 | .72 | .18 |
| IN. | .10 | .15 | .41 | .41 | .38 | 3.17 | 1.98 | .71 | .30 | .35 | .83 | .20 |
| CAL YR 1978 | TOTAL | 619176 | MEAN | 1696 | MAX | 22400 | MIN 97 | CFSM .86 | IN 11.71 | | | |
| WTR YR 1979 | TOTAL | 476149 | MEAN | 1305 | MAX | 15200 | MIN 97 | CFSM .66 | IN 9.00 | | | |

STREAMS TRIBUTARY TO LAKE ERIE

04183500 MAUMEE RIVER AT ANTWERP, OH

LOCATION.--Lat 41°11'56", long 84°44'40", in sec.22, T.3 N., R.1 E., Paulding County, Ohio, Hydrologic Unit 04100005, on left bank 425 ft (130 m) downstream from bridge on State Highway 49, 1 mi (2 km) north of Antwerp, 7 mi (11 km) downstream from Indiana State line and 10 mi (16 km) upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 mi² (5,514 km²).

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

REVISED RECORDS.--WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD OH-70-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft (211.805 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft (122 m) upstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 mi (51.5 km) upstream. Flow slightly regulated by upstream reservoirs. Water quality data collected at this site 1969 to 1977.

AVERAGE DISCHARGE.--54 years, 1,680 ft³/s (47.58 m³/s), 10.72 in/yr (272 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft³/s (742 m³/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum daily, 26 ft³/s (0.74 m³/s) July 24, 1933.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 27, 1913, estimated as 40,000 ft³/s (1,130 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,100 ft³/s (456 m³/s) Mar. 6, gage height, 17.01 ft (5.185 m), above base of 8,000 ft³/s (227 m³/s); minimum daily 97 ft³/s (2.74 m³/s) Nov. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|----------|----------|-------|-------|-------|
| 1 | 166 | 153 | 350 | 2380 | 295 | 5230 | 6190 | 1420 | 1690 | 552 | 496 | 771 |
| 2 | 210 | 160 | 463 | 3610 | 290 | 7790 | 4910 | 1290 | 1340 | 521 | 3270 | 876 |
| 3 | 153 | 128 | 629 | 2970 | 285 | 9290 | 4180 | 1430 | 1000 | 1120 | 3260 | 932 |
| 4 | 142 | 148 | 1930 | 1890 | 280 | 12000 | 3770 | 1560 | 778 | 859 | 3300 | 717 |
| 5 | 126 | 160 | 2310 | 1700 | 275 | 14500 | 3520 | 1650 | 669 | 823 | 2470 | 539 |
| 6 | 172 | 250 | 1420 | 1500 | 270 | 16000 | 3110 | 1720 | 522 | 608 | 2230 | 583 |
| 7 | 126 | 208 | 1050 | 1300 | 260 | 15400 | 2660 | 1760 | 547 | 442 | 1670 | 490 |
| 8 | 155 | 170 | 1590 | 1100 | 255 | 13800 | 2410 | 1620 | 510 | 537 | 1420 | 304 |
| 9 | 121 | 160 | 1970 | 950 | 250 | 11600 | 2810 | 1400 | 601 | 534 | 1380 | 383 |
| 10 | 165 | 180 | 1610 | 840 | 245 | 10500 | 4530 | 1320 | 831 | 935 | 1490 | 361 |
| 11 | 117 | 160 | 1090 | 770 | 240 | 7800 | 4490 | 985 | 838 | 997 | 2200 | 306 |
| 12 | 167 | 119 | 703 | 720 | 235 | 5500 | 5190 | 951 | 651 | 1110 | 1480 | 266 |
| 13 | 148 | 97 | 779 | 660 | 230 | 3900 | 6620 | 1070 | 601 | 820 | 896 | 260 |
| 14 | 210 | 279 | 714 | 610 | 220 | 3000 | 7440 | 794 | 459 | 1020 | 838 | 282 |
| 15 | 193 | 738 | 570 | 570 | 220 | 3400 | 7470 | 1450 | 436 | 738 | 534 | 299 |
| 16 | 144 | 374 | 516 | 530 | 215 | 3000 | 6610 | 1070 | 351 | 524 | 432 | 232 |
| 17 | 210 | 307 | 470 | 490 | 215 | 2800 | 5470 | 883 | 315 | 385 | 406 | 251 |
| 18 | 195 | 641 | 419 | 460 | 210 | 2000 | 5090 | 648 | 303 | 345 | 390 | 274 |
| 19 | 328 | 425 | 408 | 440 | 210 | 2800 | 4400 | 553 | 296 | 364 | 407 | 421 |
| 20 | 160 | 438 | 458 | 420 | 210 | 2700 | 3370 | 571 | 297 | 329 | 1260 | 422 |
| 21 | 135 | 318 | 257 | 400 | 215 | 2550 | 2560 | 597 | 721 | 298 | 3040 | 400 |
| 22 | 160 | 285 | 438 | 390 | 220 | 2460 | 1990 | 528 | 694 | 245 | 1830 | 313 |
| 23 | 162 | 298 | 338 | 380 | 280 | 2210 | 1630 | 549 | 544 | 196 | 2210 | 291 |
| 24 | 160 | 370 | 343 | 370 | 3420 | 1990 | 1390 | 471 | 389 | 194 | 3420 | 249 |
| 25 | 172 | 365 | 345 | 360 | 6030 | 1990 | 1350 | 867 | 360 | 564 | 2460 | 178 |
| 26 | 148 | 323 | 325 | 350 | 6220 | 1720 | 1190 | 2080 | 303 | 775 | 1650 | 212 |
| 27 | 185 | 306 | 300 | 340 | 5190 | 1620 | 1230 | 2740 | 262 | 788 | 1160 | 194 |
| 28 | 180 | 318 | 290 | 330 | 4470 | 1310 | 1250 | 2230 | 235 | 652 | 889 | 194 |
| 29 | 170 | 328 | 310 | 320 | --- | 3410 | 1320 | 1740 | 208 | 417 | 712 | 183 |
| 30 | 165 | 314 | 350 | 310 | --- | 7180 | 1420 | 1670 | 374 | 358 | 713 | 180 |
| 31 | 158 | --- | 400 | 300 | --- | 7580 | --- | 1680 | --- | 490 | 589 | --- |
| TOTAL | 5203 | 8520 | 23145 | 27760 | 30955 | 187030 | 109570 | 39297 | 17125 | 18540 | 48502 | 11363 |
| MEAN | 168 | 284 | 747 | 895 | 1106 | 6033 | 3652 | 1268 | 571 | 598 | 1565 | 379 |
| MAX | 328 | 738 | 2310 | 3610 | 6220 | 16000 | 7470 | 2740 | 1690 | 1120 | 3420 | 932 |
| MIN | 117 | 97 | 257 | 300 | 210 | 1310 | 1190 | 471 | 208 | 194 | 390 | 178 |
| CFSM | .08 | .13 | .35 | .42 | .52 | 2.83 | 1.72 | .60 | .27 | .28 | .74 | .18 |
| IN. | .09 | .15 | .40 | .49 | .54 | 3.27 | 1.91 | .69 | .30 | .32 | .85 | .20 |
| CAL YR 1978 | TOTAL | 662900 | MEAN | 1816 | MAX | 21200 | MIN 97 | CFSM .85 | IN 11.58 | | | |
| WTR YR 1979 | TOTAL | 527010 | MEAN | 1444 | MAX | 16000 | MIN 97 | CFSM .68 | IN 9.21 | | | |

05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN

LOCATION.--Lat 41°33'50", long 86°29'50", in NW¼NE¼ sec.23, T.36 N., R.1 W., St. Joseph County, Hydrologic Unit 07120001, on left bank at downstream side of bridge on county highway named "New Road", 2.7 miles (4.3 km) upstream from Little Kankakee River, 4 miles (6 km) northwest of North Liberty, and at mile 126.9 (204.2 km).

DRAINAGE AREA.--174 mi² (451 km²), of which 58.2 mi² (150.7 km²) does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.04 ft (207.276 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to June 26, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods or periods of no gage-height record, Nov. 7 to Dec. 6 and Jan. 4 to Feb. 21, which are fair.

AVERAGE DISCHARGE.--28 years, 147 ft³/s (4.163 m³/s), 11.47 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 686 ft³/s (19.4 m³/s) Oct. 10, 1954; maximum gage height, 9.04 ft (2.755 m) June 27, 1968; minimum daily discharge, 46 ft³/s (1.30 m³/s) Sept. 9, 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 624 ft³/s (17.7 m³/s) Mar. 4, gage height, 8.01 ft (2.441 m); minimum daily, 71 ft³/s (2.01 m³/s) July 24.

NOTE.--No gage-height record Nov. 7 to Dec. 6 and Jan. 4 to Feb. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|---------|--------|----------|----------|------|------|------|------|------|
| 1 | 79 | 103 | 107 | 268 | 97 | 133 | 352 | 250 | 149 | 131 | 102 | 123 |
| 2 | 78 | 101 | 107 | 239 | 96 | 139 | 356 | 233 | 144 | 121 | 107 | 118 |
| 3 | 81 | 99 | 112 | 200 | 94 | 167 | 351 | 267 | 142 | 117 | 100 | 113 |
| 4 | 80 | 98 | 132 | 175 | 93 | 484 | 333 | 279 | 138 | 117 | 97 | 110 |
| 5 | 84 | 97 | 146 | 160 | 92 | 589 | 315 | 252 | 129 | 108 | 106 | 108 |
| 6 | 93 | 97 | 140 | 145 | 91 | 547 | 290 | 234 | 125 | 105 | 114 | 105 |
| 7 | 96 | 96 | 130 | 135 | 90 | 532 | 265 | 220 | 148 | 99 | 106 | 102 |
| 8 | 93 | 94 | 127 | 120 | 90 | 509 | 260 | 205 | 257 | 101 | 99 | 99 |
| 9 | 90 | 94 | 122 | 115 | 89 | 502 | 290 | 194 | 202 | 106 | 129 | 98 |
| 10 | 87 | 92 | 121 | 110 | 88 | 478 | 276 | 192 | 187 | 97 | 156 | 96 |
| 11 | 87 | 92 | 114 | 109 | 88 | 443 | 271 | 208 | 173 | 93 | 170 | 92 |
| 12 | 86 | 92 | 111 | 107 | 88 | 398 | 374 | 205 | 162 | 98 | 142 | 90 |
| 13 | 85 | 91 | 111 | 104 | 87 | 381 | 361 | 202 | 154 | 91 | 130 | 89 |
| 14 | 88 | 98 | 107 | 104 | 86 | 416 | 319 | 202 | 149 | 88 | 123 | 88 |
| 15 | 95 | 100 | 107 | 104 | 86 | 386 | 283 | 205 | 138 | 94 | 116 | 87 |
| 16 | 105 | 100 | 105 | 110 | 86 | 347 | 264 | 192 | 130 | 84 | 111 | 85 |
| 17 | 107 | 103 | 103 | 114 | 87 | 330 | 245 | 185 | 132 | 85 | 114 | 84 |
| 18 | 103 | 119 | 103 | 111 | 88 | 327 | 233 | 179 | 128 | 83 | 133 | 83 |
| 19 | 100 | 115 | 102 | 108 | 92 | 344 | 225 | 177 | 124 | 77 | 133 | 81 |
| 20 | 98 | 106 | 103 | 105 | 95 | 345 | 218 | 175 | 123 | 78 | 134 | 80 |
| 21 | 96 | 103 | 107 | 106 | 105 | 319 | 212 | 169 | 119 | 77 | 136 | 80 |
| 22 | 95 | 102 | 106 | 110 | 110 | 296 | 199 | 166 | 111 | 76 | 128 | 80 |
| 23 | 99 | 103 | 102 | 119 | 126 | 292 | 195 | 165 | 112 | 73 | 122 | 79 |
| 24 | 102 | 106 | 103 | 120 | 163 | 296 | 196 | 160 | 114 | 71 | 136 | 80 |
| 25 | 106 | 112 | 101 | 118 | 152 | 280 | 218 | 156 | 113 | 103 | 130 | 77 |
| 26 | 117 | 110 | 98 | 118 | 143 | 258 | 239 | 153 | 108 | 100 | 123 | 77 |
| 27 | 119 | 108 | 95 | 114 | 138 | 250 | 263 | 156 | 109 | 92 | 119 | 78 |
| 28 | 113 | 108 | 93 | 110 | 134 | 249 | 269 | 154 | 110 | 88 | 116 | 78 |
| 29 | 109 | 107 | 95 | 108 | --- | 278 | 258 | 149 | 117 | 76 | 128 | 78 |
| 30 | 107 | 107 | 101 | 102 | --- | 385 | 263 | 145 | 146 | 89 | 141 | 77 |
| 31 | 105 | --- | 134 | 99 | --- | 388 | --- | 144 | --- | 112 | 131 | --- |
| TOTAL | 2983 | 3053 | 3445 | 3967 | 2874 | 11088 | 8193 | 5973 | 4193 | 2930 | 3832 | 2715 |
| MEAN | 96.2 | 102 | 111 | 128 | 103 | 358 | 273 | 193 | 140 | 94.5 | 124 | 90.5 |
| MAX | 119 | 119 | 146 | 268 | 163 | 589 | 374 | 279 | 257 | 131 | 170 | 123 |
| MIN | 78 | 91 | 93 | 99 | 86 | 133 | 195 | 144 | 108 | 71 | 97 | 77 |
| CFSM | .55 | .59 | .64 | .74 | .59 | 2.06 | 1.57 | 1.11 | .81 | .54 | .71 | .52 |
| IN. | .64 | .65 | .74 | .85 | .61 | 2.37 | 1.75 | 1.28 | .90 | .63 | .82 | .58 |
| CAL YR 1978 | TOTAL | 53735 | MEAN 147 | MAX 600 | MIN 68 | CFSM .85 | IN 11.49 | | | | | |
| WTR YR 1979 | TOTAL | 55246 | MEAN 151 | MAX 589 | MIN 71 | CFSM .87 | IN 11.81 | | | | | |

05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|-------|------|-----------------------------|---|---|--|---|---|
| OCT | | | | | | | |
| 03... | 1745 | 8.5 | 83 | 26 | 5.8 | -- | -- |
| 10... | 0730 | 13.0 | 88 | 76 | 18 | -- | -- |
| 19... | 0730 | 11.0 | 101 | 82 | 22 | -- | -- |
| 27... | 1700 | 12.0 | 119 | 54 | 17 | -- | -- |
| NOV | | | | | | | |
| 03... | 1630 | 15.0 | 98 | 50 | 13 | -- | -- |
| 07... | 1400 | 8.5 | 94 | 26 | 6.6 | -- | -- |
| 11... | 1800 | 12.0 | 96 | 63 | 16 | -- | -- |
| 17... | 1230 | 9.0 | 117 | 58 | 18 | -- | -- |
| 25... | 0900 | 6.0 | 120 | 52 | 16 | -- | -- |
| DEC | | | | | | | |
| 02... | 1430 | 6.0 | 134 | 58 | 21 | -- | -- |
| 06... | 1150 | 5.0 | 134 | 62 | 22 | -- | -- |
| 09... | 1230 | 3.0 | 121 | 76 | 24 | -- | -- |
| 16... | 1700 | 7.0 | 105 | 52 | 14 | -- | -- |
| 26... | 1300 | 5.0 | 98 | 44 | 11 | -- | -- |
| 30... | 1230 | 8.0 | 100 | 64 | 17 | -- | -- |
| JAN | | | | | | | |
| 06... | 1200 | .0 | 253 | 61 | 41 | -- | -- |
| 09... | 1410 | .5 | 115 | 63 | 19 | -- | -- |
| 12... | 1730 | 2.0 | 119 | 54 | 17 | -- | -- |
| 21... | 1230 | 5.0 | 101 | 52 | 14 | -- | -- |
| 26... | 1700 | 4.0 | 95 | 31 | 8.0 | -- | -- |
| FEB | | | | | | | |
| 03... | 1340 | 6.0 | 93 | 33 | 8.3 | -- | -- |
| 11... | 1800 | 3.0 | 88 | 32 | 7.6 | -- | -- |
| 21... | 1310 | 1.0 | 104 | 23 | 6.4 | -- | -- |
| 24... | 1230 | 6.0 | 165 | 88 | 39 | -- | -- |
| MAR | | | | | | | |
| 01... | 1800 | 8.0 | 138 | 76 | 28 | -- | -- |
| 08... | 1830 | 9.0 | 502 | 50 | 67 | -- | -- |
| 15... | 1700 | 7.0 | 379 | 83 | 84 | -- | -- |
| 20... | 1745 | 12.0 | 300 | 76 | 61 | -- | -- |
| 27... | 1900 | 9.0 | 268 | 56 | 40 | -- | -- |
| APR | | | | | | | |
| 01... | 1645 | 7.0 | 346 | 59 | 55 | -- | -- |
| 03... | 1130 | -- | 374 | 66 | 66 | 87 | 100 |
| 14... | 1100 | 11.0 | 326 | 52 | 45 | -- | -- |
| 20... | 1830 | -- | 210 | 123 | 70 | 69 | -- |
| 21... | 1730 | 12.0 | 201 | 73 | 39 | -- | -- |

05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|-------|------|-----------------------------|---|---|--|---|---|---|---|---|
| APR | | | | | | | | | | |
| 30... | 1630 | 10.0 | 263 | 75 | 53 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 09... | 1430 | -- | 202 | 126 | 68 | 73 | -- | -- | -- | -- |
| 09... | 1615 | -- | 201 | 188 | 102 | 73 | -- | -- | -- | -- |
| 11... | 1630 | -- | 223 | 178 | 107 | 86 | -- | -- | -- | -- |
| 22... | 1605 | 16.0 | 163 | 50 | 22 | -- | -- | -- | -- | -- |
| 30... | 1230 | -- | 145 | 125 | 48 | 68 | -- | -- | -- | -- |
| JUN | | | | | | | | | | |
| 23... | 1230 | -- | 112 | 115 | 34 | 82 | -- | -- | -- | -- |
| 27... | 1535 | 18.5 | 109 | 113 | 33 | 93 | 97 | 98 | 100 | -- |
| 29... | 1045 | -- | 111 | 117 | 35 | 88 | -- | -- | -- | -- |
| JUL | | | | | | | | | | |
| 06... | 1845 | -- | 101 | 109 | 29 | 84 | -- | -- | -- | -- |
| 16... | 1200 | -- | 88 | 95 | 22 | 83 | -- | -- | -- | -- |
| 21... | 1630 | -- | 78 | 77 | 16 | 91 | -- | -- | -- | -- |
| 31... | 1050 | 19.5 | 111 | 63 | 18 | 73 | 80 | 85 | 91 | 100 |
| AUG | | | | | | | | | | |
| 02... | 0600 | 20.0 | 110 | 28 | 8.3 | -- | -- | -- | -- | -- |
| 18... | 1300 | 18.0 | 135 | 44 | 16 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | |
| 01... | 1700 | 24.0 | 120 | 27 | 8.7 | -- | -- | -- | -- | -- |
| 08... | 1200 | 14.0 | 100 | 33 | 8.9 | -- | -- | -- | -- | -- |
| 13... | 1035 | 22.0 | 90 | 17 | 4.1 | -- | -- | -- | -- | -- |
| 22... | 1300 | 13.5 | 77 | 26 | 5.4 | -- | -- | -- | -- | -- |
| 29... | 1115 | 15.0 | 73 | 19 | 3.7 | -- | -- | -- | -- | -- |

05515400 KINGSBURY CREEK NEAR LAPORTE, IN

LOCATION.--Lat 41°32'49", long 86°43'48", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.36 N., R.3 W., LaPorte County, Hydrologic Unit 07120001, on left bank at upstream side of bridge on County Road 400 South, 0.5 mile (0.8 km) east of State Highway 39, 1.5 miles (2.4 km) west of U.S. Highway 35, and 3 miles (5 km) south of LaPorte city limits.

DRAINAGE AREA.--7.08 mi² (18.34 km²), of which 4.07 mi² (10.54 km²) 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 4.06 ft³/s (0.115 m³/s), 7.79 in/yr (198 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft³/s (1.25 m³/s) Apr. 22, 1973, gage height, 5.44 ft (1.658 m); minimum daily, 0.83 ft³/s (0.024 m³/s) Dec. 3, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s (0.425 m³/s) and minimum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 1000 | 30 0.85 | 5.08 1.548 | June 7 | 1700 | 20 0.57 | 4.45 1.356 |
| Apr. 12 | 0300 | 19 0.54 | 4.54 1.384 | Aug. 9 | 0600 | 17 0.48 | 4.34 1.323 |
| Apr. 26 | 1000 | 17 0.48 | 4.45 1.356 | Aug. 23 | 2000 | *36 1.02 | *5.15 1.570 |
| May 3 | 0600 | 15 0.42 | 4.34 1.323 | | | | |

Minimum daily discharge, 1.5 ft³/s (0.042 m³/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|-------|------|
| 1 | 1.6 | 1.8 | 1.9 | 5.7 | 1.5 | 2.3 | 6.4 | 7.7 | 3.8 | 2.9 | 3.1 | 3.4 |
| 2 | 1.6 | 1.8 | 1.8 | 3.6 | 1.5 | 2.4 | 9.0 | 7.3 | 3.5 | 2.8 | 3.3 | 3.3 |
| 3 | 1.8 | 1.8 | 3.1 | 2.9 | 1.5 | 3.0 | 6.8 | 11 | 3.2 | 2.8 | 2.8 | 3.1 |
| 4 | 1.8 | 1.8 | 3.0 | 2.6 | 1.5 | 21 | 6.4 | 8.2 | 3.1 | 2.9 | 4.2 | 3.1 |
| 5 | 1.8 | 1.8 | 2.5 | 2.3 | 1.5 | 11 | 6.4 | 7.7 | 2.9 | 2.7 | 6.6 | 3.1 |
| 6 | 2.2 | 2.0 | 2.2 | 2.1 | 1.5 | 7.7 | 5.5 | 7.3 | 2.9 | 2.6 | 3.9 | 3.0 |
| 7 | 2.0 | 2.2 | 2.3 | 2.0 | 1.5 | 8.1 | 5.6 | 7.2 | 8.0 | 2.5 | 3.2 | 2.9 |
| 8 | 1.8 | 2.0 | 2.2 | 1.8 | 1.5 | 8.9 | 6.6 | 6.9 | 6.8 | 2.4 | 3.0 | 2.7 |
| 9 | 1.6 | 2.0 | 2.2 | 1.6 | 1.5 | 8.5 | 6.4 | 6.8 | 5.6 | 2.7 | 8.5 | 2.7 |
| 10 | 1.5 | 1.8 | 1.9 | 1.6 | 1.5 | 6.3 | 5.8 | 8.2 | 5.5 | 2.7 | 5.1 | 2.6 |
| 11 | 1.6 | 1.7 | 2.0 | 1.6 | 1.5 | 4.9 | 8.1 | 8.4 | 4.9 | 2.5 | 3.7 | 2.5 |
| 12 | 1.6 | 1.8 | 2.0 | 1.6 | 1.5 | 4.4 | 13 | 7.9 | 4.4 | 2.4 | 3.1 | 2.6 |
| 13 | 1.5 | 2.4 | 2.0 | 1.5 | 1.5 | 7.3 | 9.0 | 7.5 | 4.4 | 2.4 | 2.9 | 2.6 |
| 14 | 2.0 | 3.0 | 1.9 | 1.5 | 1.5 | 7.9 | 7.7 | 7.7 | 4.3 | 2.4 | 2.7 | 2.5 |
| 15 | 2.7 | 2.2 | 1.9 | 1.5 | 1.5 | 5.4 | 7.1 | 7.5 | 3.9 | 2.3 | 2.5 | 2.3 |
| 16 | 2.6 | 1.9 | 1.8 | 1.5 | 1.5 | 5.5 | 6.8 | 6.7 | 3.8 | 2.2 | 2.5 | 2.2 |
| 17 | 2.1 | 2.8 | 1.7 | 1.5 | 1.5 | 6.2 | 6.7 | 6.0 | 3.7 | 2.1 | 3.1 | 2.2 |
| 18 | 2.0 | 2.4 | 1.8 | 1.6 | 1.5 | 6.9 | 6.6 | 5.8 | 3.9 | 2.0 | 5.1 | 2.1 |
| 19 | 2.0 | 2.1 | 1.9 | 1.6 | 1.5 | 7.2 | 6.4 | 5.5 | 3.8 | 1.9 | 3.6 | 1.9 |
| 20 | 1.9 | 1.9 | 2.1 | 1.6 | 1.5 | 6.2 | 6.6 | 5.2 | 3.8 | 1.9 | 5.2 | 1.9 |
| 21 | 1.8 | 1.9 | 2.1 | 1.6 | 1.6 | 5.4 | 6.7 | 4.6 | 3.9 | 1.9 | 3.8 | 1.9 |
| 22 | 1.7 | 1.8 | 1.9 | 1.6 | 1.6 | 5.1 | 6.6 | 4.4 | 3.7 | 1.7 | 3.4 | 1.8 |
| 23 | 2.1 | 2.7 | 1.7 | 1.6 | 2.2 | 6.6 | 6.6 | 4.3 | 3.5 | 1.7 | 7.9 | 1.8 |
| 24 | 2.2 | 2.2 | 1.9 | 1.5 | 2.9 | 6.4 | 8.4 | 4.2 | 3.5 | 1.8 | 6.2 | 1.8 |
| 25 | 2.3 | 1.9 | 1.8 | 1.5 | 2.6 | 5.4 | 9.2 | 3.9 | 3.2 | 5.7 | 3.8 | 1.7 |
| 26 | 3.1 | 1.8 | 1.6 | 1.5 | 2.4 | 5.1 | 12 | 3.7 | 3.0 | 3.2 | 3.4 | 1.7 |
| 27 | 2.4 | 1.9 | 1.5 | 1.5 | 2.3 | 5.0 | 9.0 | 3.6 | 2.9 | 2.5 | 3.5 | 1.7 |
| 28 | 2.1 | 1.7 | 1.5 | 1.5 | 2.3 | 5.8 | 9.3 | 3.4 | 2.8 | 2.2 | 3.3 | 1.7 |
| 29 | 2.0 | 1.8 | 1.6 | 1.5 | --- | 9.2 | 8.2 | 3.1 | 3.1 | 1.9 | 5.7 | 1.6 |
| 30 | 2.0 | 1.8 | 2.2 | 1.5 | --- | 8.8 | 8.6 | 3.0 | 3.2 | 4.7 | 4.0 | 1.6 |
| 31 | 1.9 | --- | 4.5 | 1.5 | --- | 7.3 | --- | 3.6 | --- | 3.7 | 3.5 | --- |
| TOTAL | 61.3 | 60.7 | 64.5 | 58.5 | 47.9 | 211.2 | 227.5 | 188.3 | 119.0 | 80.1 | 126.6 | 70.0 |
| MEAN | 1.98 | 2.02 | 2.08 | 1.89 | 1.71 | 6.81 | 7.58 | 6.07 | 3.97 | 2.58 | 4.08 | 2.33 |
| MAX | 3.1 | 3.0 | 4.5 | 5.7 | 2.9 | 21 | 13 | 11 | 8.0 | 5.7 | 8.5 | 3.4 |
| MIN | 1.5 | 1.7 | 1.5 | 1.5 | 1.5 | 2.3 | 5.5 | 3.0 | 2.8 | 1.7 | 2.5 | 1.6 |
| CFSM | .28 | .29 | .29 | .27 | .24 | .96 | 1.07 | .86 | .56 | .36 | .58 | .33 |
| IN. | .32 | .32 | .34 | .31 | .25 | 1.11 | 1.20 | .99 | .63 | .42 | .67 | .37 |

| | | | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|-----|----|------|
| CAL YR 1978 | TOTAL | 1173.3 | MEAN | 3.21 | MAX | 14 | MIN | 1.3 | CFSM | .45 | IN | 6.16 |
| WTR YR 1979 | TOTAL | 1315.6 | MEAN | 3.60 | MAX | 21 | MIN | 1.5 | CFSM | .51 | IN | 6.91 |

05515500 KANKAKEE RIVER AT DAVIS, IN

LOCATION.--Lat 41°24'00", long 86°42'04", in SE¼NE¼ sec.13, T.34 N., R.3 W., Starke County, Hydrologic Unit 07120001, on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mile (0.8 km) downstream from Mill Creek, 4 miles (6 km) east of Hanna, and at mile 110.9 (178.4 km).

DRAINAGE AREA.--537 mi² (1,391 km²), of which 137 mi² (355 km²) 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.

REVISED RECORDS.--WSP 1338: 1953. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 664.68 ft (202.594 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--55 years, 1924 to current year, 494 ft³/s (13.99 m³/s), 12.49 in/yr (317 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) Dec. 15, 1927, gage height, 9.50 ft (2.896 m), site and datum then in use, from rating curve extended above 520 ft³/s (14.7 m³/s); maximum gage height at present site and datum, 12.47 ft (3.801 m) Apr. 8, 9, 1978; minimum daily discharge, 154 ft³/s (4.36 m³/s) Aug. 30 to Sept. 3, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,520 ft³/s (43.0 m³/s) Mar. 7, gage height, 12.33 ft (3.758 m); minimum daily, 272 ft³/s (7.70 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|---------|----------|----------|-------|-------|-------|-------|------|
| 1 | 278 | 310 | 341 | 695 | 315 | 474 | 1200 | 948 | 515 | 493 | 377 | 412 |
| 2 | 272 | 305 | 347 | 722 | 310 | 499 | 1190 | 891 | 516 | 442 | 388 | 393 |
| 3 | 278 | 303 | 366 | 651 | 300 | 545 | 1200 | 935 | 501 | 409 | 362 | 380 |
| 4 | 278 | 303 | 435 | 590 | 295 | 1260 | 1170 | 1040 | 493 | 395 | 347 | 371 |
| 5 | 280 | 305 | 452 | 530 | 290 | 1490 | 1130 | 989 | 483 | 378 | 423 | 367 |
| 6 | 295 | 304 | 428 | 490 | 290 | 1500 | 1060 | 910 | 475 | 354 | 433 | 362 |
| 7 | 296 | 312 | 415 | 440 | 290 | 1510 | 997 | 839 | 473 | 338 | 403 | 355 |
| 8 | 291 | 307 | 414 | 410 | 285 | 1500 | 950 | 778 | 591 | 338 | 374 | 348 |
| 9 | 287 | 304 | 403 | 380 | 285 | 1510 | 954 | 733 | 605 | 350 | 413 | 340 |
| 10 | 281 | 302 | 408 | 370 | 280 | 1500 | 934 | 706 | 565 | 356 | 491 | 335 |
| 11 | 279 | 300 | 418 | 360 | 280 | 1500 | 933 | 700 | 536 | 338 | 504 | 331 |
| 12 | 283 | 295 | 373 | 350 | 280 | 1480 | 1080 | 701 | 521 | 329 | 462 | 327 |
| 13 | 279 | 295 | 366 | 340 | 280 | 1350 | 1150 | 695 | 510 | 327 | 422 | 324 |
| 14 | 287 | 319 | 355 | 340 | 280 | 1320 | 1120 | 690 | 495 | 324 | 401 | 320 |
| 15 | 302 | 326 | 357 | 350 | 280 | 1270 | 1060 | 686 | 479 | 328 | 380 | 315 |
| 16 | 320 | 320 | 352 | 370 | 280 | 1210 | 995 | 666 | 461 | 321 | 364 | 310 |
| 17 | 325 | 325 | 345 | 370 | 280 | 1160 | 925 | 643 | 449 | 309 | 368 | 307 |
| 18 | 320 | 353 | 343 | 350 | 280 | 1120 | 861 | 628 | 448 | 302 | 438 | 306 |
| 19 | 315 | 353 | 343 | 340 | 290 | 1100 | 807 | 614 | 445 | 296 | 469 | 303 |
| 20 | 311 | 343 | 343 | 345 | 300 | 1110 | 763 | 606 | 438 | 291 | 462 | 301 |
| 21 | 304 | 334 | 357 | 360 | 310 | 1090 | 737 | 593 | 436 | 286 | 470 | 300 |
| 22 | 299 | 330 | 359 | 380 | 340 | 1050 | 716 | 579 | 421 | 279 | 438 | 298 |
| 23 | 304 | 344 | 349 | 390 | 380 | 1020 | 698 | 573 | 407 | 277 | 419 | 295 |
| 24 | 309 | 361 | 347 | 385 | 525 | 1030 | 698 | 561 | 404 | 274 | 433 | 295 |
| 25 | 311 | 359 | 345 | 380 | 552 | 990 | 749 | 552 | 398 | 372 | 424 | 297 |
| 26 | 339 | 352 | 337 | 380 | 515 | 937 | 839 | 547 | 395 | 391 | 401 | 294 |
| 27 | 348 | 350 | 324 | 370 | 495 | 904 | 993 | 539 | 387 | 348 | 397 | 295 |
| 28 | 340 | 346 | 318 | 360 | 480 | 881 | 1020 | 532 | 384 | 329 | 396 | 294 |
| 29 | 329 | 342 | 325 | 345 | --- | 957 | 999 | 523 | 387 | 315 | 409 | 294 |
| 30 | 322 | 341 | 345 | 335 | --- | 1140 | 972 | 515 | 471 | 320 | 458 | 295 |
| 31 | 315 | --- | 432 | 325 | --- | 1210 | --- | 508 | --- | 407 | 440 | --- |
| TOTAL | 9377 | 9743 | 11442 | 12803 | 9367 | 35617 | 28900 | 21420 | 14089 | 10616 | 12966 | 9764 |
| MEAN | 302 | 325 | 369 | 413 | 335 | 1149 | 963 | 691 | 470 | 342 | 418 | 325 |
| MAX | 348 | 361 | 452 | 722 | 552 | 1510 | 1200 | 1040 | 605 | 493 | 504 | 412 |
| MIN | 272 | 295 | 318 | 325 | 280 | 474 | 698 | 508 | 384 | 274 | 347 | 294 |
| CFSM | .56 | .61 | .69 | .77 | .62 | 2.14 | 1.79 | 1.29 | .88 | .64 | .78 | .61 |
| IN. | .65 | .67 | .79 | .89 | .65 | 2.47 | 2.00 | 1.48 | .98 | .74 | .90 | .68 |
| CAL YR 1978 | TOTAL | 187554 | MEAN 514 | MAX 1560 | MIN 260 | CFSM .96 | IN 12.99 | | | | | |
| WTR YR 1979 | TOTAL | 186104 | MEAN 510 | MAX 1510 | MIN 272 | CFSM .95 | IN 12.89 | | | | | |

ILLINOIS RIVER BASIN

05516500 YELLOW RIVER AT PLYMOUTH, IN

LOCATION.--Lat 41°20'25", long 86°18'16", in SE¼NW¼ sec.13, T.33 N., R.2 E., Marshall County, Hydrologic Unit 07120001, on left bank 50 ft (15 m) upstream from LaPorte Street footbridge in Plymouth, 1.1 miles (1.8 km) downstream from Elmer Seldenright (formerly Baker) ditch, 8.1 miles (13.0 km) upstream from Wolf Creek, and at mile 40.3 (64.8 km).

DRAINAGE AREA.--294 mi² (761 km²), of which 22 mi² (57 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1338: 1950-51. WSP 2115: Drainage area. WRD Ind. 1973: 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 764.78 ft (233.105 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--31 years, 251 ft³/s (7.108 m³/s), 11.59 in/yr (294 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,390 ft³/s (153 m³/s) Oct. 12, 13, 1954, gage height, 17.13 ft (5.221 m); minimum daily, 13 ft³/s (0.37 m³/s) Dec. 3, 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Mar. 6, gage height, 14.23 ft (4.337 m); minimum daily, 23 ft³/s (0.93 m³/s) Sept. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|-------|------|------|------|------|
| 1 | 36 | 32 | 44 | 150 | 43 | 210 | 1420 | 791 | 118 | 75 | 62 | 50 |
| 2 | 35 | 34 | 45 | 230 | 43 | 390 | 1220 | 581 | 106 | 73 | 80 | 48 |
| 3 | 36 | 46 | 62 | 210 | 42 | 646 | 984 | 777 | 100 | 68 | 71 | 46 |
| 4 | 36 | 46 | 103 | 170 | 42 | 1790 | 738 | 1130 | 95 | 66 | 66 | 45 |
| 5 | 36 | 44 | 110 | 145 | 42 | 2480 | 694 | 1170 | 91 | 66 | 69 | 44 |
| 6 | 36 | 46 | 84 | 128 | 42 | 2740 | 652 | 819 | 91 | 62 | 69 | 44 |
| 7 | 36 | 47 | 76 | 115 | 42 | 2800 | 476 | 495 | 96 | 62 | 66 | 41 |
| 8 | 34 | 46 | 84 | 102 | 42 | 2570 | 446 | 379 | 122 | 62 | 62 | 39 |
| 9 | 33 | 42 | 75 | 93 | 41 | 2230 | 828 | 317 | 133 | 65 | 84 | 37 |
| 10 | 33 | 41 | 65 | 85 | 40 | 1820 | 1010 | 276 | 116 | 65 | 87 | 37 |
| 11 | 33 | 40 | 62 | 76 | 40 | 1380 | 902 | 310 | 118 | 65 | 86 | 36 |
| 12 | 32 | 39 | 59 | 70 | 40 | 967 | 1050 | 637 | 108 | 66 | 81 | 35 |
| 13 | 33 | 39 | 57 | 65 | 41 | 652 | 1270 | 698 | 96 | 66 | 67 | 34 |
| 14 | 33 | 41 | 56 | 62 | 42 | 696 | 1190 | 616 | 90 | 69 | 58 | 34 |
| 15 | 34 | 41 | 55 | 60 | 43 | 676 | 814 | 501 | 86 | 68 | 54 | 32 |
| 16 | 38 | 39 | 53 | 59 | 43 | 489 | 505 | 378 | 81 | 68 | 51 | 31 |
| 17 | 36 | 47 | 52 | 58 | 42 | 428 | 390 | 296 | 76 | 62 | 58 | 31 |
| 18 | 34 | 50 | 51 | 57 | 42 | 437 | 325 | 246 | 81 | 62 | 86 | 30 |
| 19 | 34 | 47 | 50 | 56 | 43 | 540 | 287 | 203 | 84 | 62 | 80 | 29 |
| 20 | 33 | 44 | 52 | 56 | 45 | 587 | 259 | 193 | 84 | 62 | 75 | 28 |
| 21 | 34 | 42 | 53 | 56 | 49 | 493 | 235 | 172 | 84 | 59 | 73 | 27 |
| 22 | 32 | 40 | 54 | 58 | 53 | 399 | 220 | 155 | 80 | 57 | 67 | 26 |
| 23 | 33 | 47 | 54 | 56 | 84 | 413 | 204 | 147 | 74 | 52 | 67 | 25 |
| 24 | 33 | 47 | 55 | 54 | 160 | 672 | 217 | 145 | 71 | 56 | 72 | 24 |
| 25 | 40 | 45 | 52 | 52 | 390 | 608 | 438 | 136 | 69 | 75 | 57 | 24 |
| 26 | 44 | 44 | 48 | 50 | 420 | 415 | 747 | 126 | 65 | 69 | 54 | 23 |
| 27 | 34 | 44 | 41 | 48 | 309 | 343 | 970 | 119 | 62 | 62 | 52 | 23 |
| 28 | 37 | 45 | 44 | 47 | 227 | 345 | 1060 | 112 | 62 | 57 | 56 | 23 |
| 29 | 38 | 43 | 43 | 45 | --- | 681 | 970 | 105 | 69 | 53 | 73 | 23 |
| 30 | 33 | 42 | 49 | 44 | --- | 1070 | 812 | 104 | 74 | 64 | 65 | 23 |
| 31 | 32 | --- | 70 | 43 | --- | 1360 | --- | 106 | --- | 55 | 55 | --- |
| TOTAL | 1081 | 1290 | 1858 | 2600 | 2532 | 31327 | 21333 | 12240 | 2682 | 1973 | 2103 | 992 |
| MEAN | 34.9 | 43.0 | 59.9 | 83.9 | 90.4 | 1011 | 711 | 395 | 89.4 | 63.6 | 67.8 | 33.1 |
| MAX | 44 | 50 | 110 | 230 | 420 | 2800 | 1420 | 1170 | 133 | 75 | 87 | 50 |
| MIN | 32 | 32 | 41 | 43 | 40 | 210 | 204 | 104 | 62 | 52 | 51 | 23 |
| CFSM | .12 | .15 | .20 | .29 | .31 | 3.44 | 2.42 | 1.34 | .30 | .22 | .23 | .11 |
| IN. | .14 | .16 | .24 | .33 | .32 | 3.96 | 2.70 | 1.55 | .34 | .25 | .27 | .13 |
| CAL YR 1978 | TOTAL | 87972 | MEAN 241 | MAX 3330 | MIN 32 | CFSM .82 | IN 11.13 | | | | | |
| WTR YR 1979 | TOTAL | 82011 | MEAN 225 | MAX 2800 | MIN 23 | CFSM .77 | IN 10.38 | | | | | |

05516500 YELLOW RIVER AT PLYMOUTH, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 83 mg/L Aug. 7, 8, 17, 1979; minimum daily, 5 mg/L Sept. 22, 23, 1979.
 SEDIMENT DISCHARGE: Maximum daily load, 18 tons (16.3 tonnes) Aug. 10, 1979; minimum daily load, 0.34 tons (tonnes) Sept. 22, 1979.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 83 mg/L Aug. 7, 8, 17; minimum daily, 5 mg/L Sept. 22, 23.
 SEDIMENT DISCHARGE: Maximum daily load, 18 tons (16.3 tonnes) Aug. 10; minimum daily load, 0.34 tons (0.31 tonnes) Sept. 22.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) | MEAN CONCEN- TRATION (MG/L) | LOADS (T/DAY) |
|-------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | | | --- | --- | 30 | 6.1 | 62 | 11 | 48 | 6.5 |
| 2 | | | | | --- | --- | 29 | 5.7 | 50 | 13 | 39 | 5.1 |
| 3 | | | | | --- | --- | 26 | 4.8 | 66 | 13 | 30 | 3.7 |
| 4 | | | | | --- | --- | 24 | 4.3 | 66 | 12 | 23 | 2.8 |
| 5 | | | | | --- | --- | 24 | 4.3 | 81 | 15 | 28 | 3.3 |
| 6 | | | | | --- | --- | 27 | 4.5 | 77 | 14 | 35 | 4.2 |
| 7 | | | | | --- | --- | 26 | 4.4 | 83 | 15 | 33 | 3.7 |
| 8 | | | | | --- | --- | 24 | 4.0 | 83 | 14 | 26 | 2.7 |
| 9 | | | | | --- | --- | 24 | 4.2 | 76 | 17 | 19 | 1.9 |
| 10 | | | | | --- | --- | 23 | 4.0 | 78 | 18 | 17 | 1.7 |
| 11 | | | | | --- | --- | 19 | 3.3 | 73 | 17 | 10 | .97 |
| 12 | | | | | --- | --- | 17 | 3.0 | 68 | 15 | 11 | 1.0 |
| 13 | | | | | 14 | 3.6 | 18 | 3.2 | 64 | 12 | 13 | 1.2 |
| 14 | | | | | 17 | 4.1 | 15 | 2.8 | 60 | 9.4 | 13 | 1.2 |
| 15 | | | | | 16 | 3.7 | 13 | 2.4 | 66 | 9.6 | 13 | 1.1 |
| 16 | | | | | 17 | 3.7 | 19 | 3.5 | 79 | 11 | 13 | 1.0 |
| 17 | | | | | 16 | 3.3 | 22 | 3.7 | 83 | 13 | 11 | .90 |
| 18 | | | | | 22 | 4.9 | 23 | 3.9 | 38 | 8.8 | 10 | .80 |
| 19 | | | | | 23 | 5.2 | 21 | 3.5 | 51 | 11 | 13 | 1.0 |
| 20 | | | | | 27 | 6.2 | 23 | 3.9 | 40 | 8.1 | 11 | .80 |
| 21 | | | | | 24 | 5.4 | 32 | 5.1 | 44 | 8.7 | 7 | .50 |
| 22 | | | | | 22 | 4.8 | 49 | 7.5 | 37 | 6.7 | 5 | .40 |
| 23 | | | | | 20 | 4.0 | 57 | 8.0 | 36 | 6.8 | 5 | .40 |
| 24 | | | | | 18 | 3.5 | 54 | 8.2 | 26 | 5.1 | 7 | .40 |
| 25 | | | | | 18 | 3.4 | 33 | 6.6 | 30 | 4.6 | 9 | .60 |
| 26 | | | | | 16 | 2.8 | 19 | 4.3 | 35 | 5.1 | 10 | .60 |
| 27 | | | | | 14 | 2.3 | 14 | 2.8 | 40 | 5.6 | 10 | .60 |
| 28 | | | | | 13 | 2.2 | 12 | 2.3 | 44 | 6.7 | 8 | .50 |
| 29 | | | | | 20 | 4.0 | 31 | 5.4 | 23 | 4.5 | 9 | .50 |
| 30 | | | | | 32 | 6.4 | 60 | 10 | 38 | 6.7 | 10 | .60 |
| 31 | | | | | --- | --- | 23 | 4.2 | 50 | 7.4 | --- | --- |
| TOTAL | | | | | --- | --- | --- | 143.9 | --- | 324.8 | --- | 50.67 |

ILLINOIS RIVER BASIN

05516500 YELLOW RIVER AT PLYMOUTH, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. 1/2 FINER THAN 1.00 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|---|
| MAY 29... | 1710 | 17.0 | 110 | 179 | 53 | 97 | 98 | 100 | -- | -- |
| JUL 30... | 1515 | 28.0 | 66 | 81 | 14 | 84 | 87 | 93 | 96 | 100 |

05517000 YELLOW RIVER AT KNOX, IN

LOCATION.--Lat 41°18'10", long 86°37'14", in SW¼SW¼ sec.14, T.33 N., R.2 W., Starke County, Hydrologic Unit 07120001, on right bank 40 ft (12 m) upstream from bridge on U.S. Highway 35 in Knox, 1.4 miles (2.3 km) downstream from Eagle Creek, and 11.6 miles (18.7 km) upstream from mouth.

DRAINAGE AREA.--435 mi² (1,127 km²), of which 51 mi² (132 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1905 to July 1906, August 1943 to current year.

REVISED RECORDS.--WSP 1278: 1952. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 679.93 ft (207.243 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--36 years (1943 to current year), 385 ft³/s (10.90 m³/s), 12.02 in/yr (305 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft³/s (160 m³/s) Oct. 15, 16, 1954, gage height, 13.75 ft (4.191 m); minimum daily, 50 ft³/s (1.42 m³/s) Jan. 21-31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,150 ft³/s (89.2 m³/s) Mar. 8, gage height, 10.33 ft (3.149 m); minimum daily, 94 ft³/s (2.66 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|------|------|------|------|
| 1 | 94 | 104 | 123 | 271 | 139 | 373 | 1340 | 996 | 285 | 178 | 145 | 161 |
| 2 | 96 | 102 | 126 | 299 | 139 | 415 | 1490 | 920 | 282 | 171 | 158 | 151 |
| 3 | 98 | 102 | 139 | 304 | 138 | 596 | 1390 | 875 | 268 | 165 | 156 | 145 |
| 4 | 100 | 107 | 175 | 299 | 138 | 1290 | 1130 | 976 | 254 | 161 | 145 | 142 |
| 5 | 101 | 110 | 202 | 285 | 137 | 2360 | 914 | 1110 | 244 | 153 | 143 | 138 |
| 6 | 101 | 110 | 202 | 268 | 135 | 2900 | 825 | 1210 | 244 | 150 | 148 | 141 |
| 7 | 99 | 112 | 183 | 250 | 133 | 3070 | 763 | 1010 | 241 | 145 | 143 | 137 |
| 8 | 99 | 115 | 188 | 236 | 131 | 3120 | 656 | 719 | 251 | 143 | 135 | 133 |
| 9 | 99 | 114 | 197 | 224 | 130 | 3020 | 730 | 502 | 271 | 145 | 133 | 130 |
| 10 | 98 | 112 | 176 | 216 | 128 | 2680 | 875 | 525 | 275 | 145 | 161 | 128 |
| 11 | 99 | 110 | 167 | 208 | 126 | 2200 | 1020 | 499 | 257 | 138 | 192 | 127 |
| 12 | 97 | 110 | 160 | 200 | 125 | 1710 | 1140 | 597 | 251 | 135 | 172 | 124 |
| 13 | 97 | 110 | 156 | 194 | 127 | 1250 | 1160 | 791 | 241 | 133 | 156 | 123 |
| 14 | 99 | 114 | 149 | 188 | 129 | 920 | 1270 | 836 | 228 | 135 | 145 | 121 |
| 15 | 101 | 115 | 144 | 184 | 132 | 858 | 1290 | 786 | 219 | 143 | 135 | 117 |
| 16 | 102 | 113 | 140 | 180 | 136 | 820 | 1020 | 682 | 206 | 135 | 130 | 116 |
| 17 | 104 | 117 | 138 | 175 | 143 | 682 | 725 | 566 | 200 | 133 | 133 | 114 |
| 18 | 102 | 130 | 135 | 172 | 145 | 624 | 603 | 490 | 203 | 128 | 153 | 112 |
| 19 | 103 | 128 | 133 | 170 | 146 | 640 | 525 | 448 | 209 | 124 | 172 | 109 |
| 20 | 101 | 124 | 133 | 170 | 148 | 714 | 486 | 414 | 203 | 121 | 177 | 107 |
| 21 | 101 | 121 | 134 | 168 | 155 | 736 | 461 | 393 | 203 | 119 | 177 | 107 |
| 22 | 97 | 125 | 135 | 166 | 170 | 656 | 440 | 364 | 197 | 117 | 169 | 107 |
| 23 | 97 | 129 | 135 | 164 | 197 | 587 | 418 | 341 | 189 | 114 | 156 | 106 |
| 24 | 96 | 134 | 135 | 161 | 309 | 656 | 414 | 333 | 180 | 119 | 161 | 103 |
| 25 | 101 | 132 | 135 | 157 | 513 | 780 | 486 | 322 | 172 | 135 | 164 | 103 |
| 26 | 109 | 126 | 131 | 153 | 616 | 730 | 682 | 307 | 168 | 148 | 148 | 102 |
| 27 | 117 | 128 | 124 | 148 | 571 | 582 | 908 | 296 | 164 | 135 | 140 | 102 |
| 28 | 112 | 124 | 118 | 145 | 457 | 525 | 1040 | 289 | 163 | 126 | 145 | 101 |
| 29 | 109 | 123 | 125 | 143 | --- | 614 | 1140 | 278 | 166 | 121 | 177 | 99 |
| 30 | 107 | 123 | 138 | 140 | --- | 886 | 1120 | 271 | 189 | 126 | 200 | 99 |
| 31 | 106 | --- | 159 | 139 | --- | 1120 | --- | 271 | --- | 153 | 174 | --- |
| TOTAL | 3142 | 3524 | 4635 | 6177 | 5693 | 38114 | 26461 | 18417 | 6623 | 4294 | 4843 | 3605 |
| MEAN | 101 | 117 | 150 | 199 | 203 | 1229 | 882 | 594 | 221 | 139 | 156 | 120 |
| MAX | 117 | 134 | 202 | 304 | 616 | 3120 | 1490 | 1210 | 285 | 178 | 200 | 161 |
| MIN | 94 | 102 | 118 | 139 | 125 | 373 | 414 | 271 | 163 | 114 | 130 | 99 |
| CFSM | .23 | .27 | .35 | .46 | .47 | 2.83 | 2.03 | 1.37 | .51 | .32 | .36 | .28 |
| IN. | .27 | .30 | .40 | .53 | .49 | 3.26 | 2.26 | 1.57 | .57 | .37 | .41 | .31 |

CAL YR 1978 TOTAL 133363 MEAN 365 MAX 3880 MIN 91 CFSM .84 IN 11.40
WTR YR 1979 TOTAL 125528 MEAN 344 MAX 3120 MIN 94 CFSM .79 IN 10.73

ILLINOIS RIVER BASIN

05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN

LOCATION.--Lat 41°13'17", long 86°57'52", in NE¼SE¼ sec.15, T.32 N., R.5 W., Jasper County, Hydrologic Unit 07120001, on left bank at downstream side of county highway bridge at Dunns Bridge, 1.8 miles (2.9 km) north of Tefft, 3.6 miles (5.8 km) upstream from Davis ditch, and at mile 90.8 (146.1 km).

DRAINAGE AREA.--1,352 mi² (3,502 km²), of which 192 mi² (497 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1728: 1954(m). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 649.65 ft (198.013 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 17, 1956, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--31 years, 1,285 ft³/s (36.39 m³/s), 12.90 in/yr (327 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft³/s (150 m³/s) Oct. 22, 1954, gage height, 13.20 ft (4.023 m); minimum daily, 280 ft³/s (7.93 m³/s) Jan. 25-29, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,550 ft³/s (129 m³/s) Mar. 11, gage height, 12.20 ft (3.719 m); minimum daily, 477 ft³/s (13.5 m³/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 501 | 516 | 662 | 1140 | 640 | 1140 | 2940 | 2800 | 1140 | 843 | 691 | 924 |
| 2 | 486 | 512 | 670 | 1500 | 630 | 1190 | 3030 | 2790 | 1140 | 795 | 691 | 865 |
| 3 | 488 | 505 | 690 | 1350 | 610 | 1500 | 3150 | 2800 | 1110 | 733 | 691 | 834 |
| 4 | 490 | 501 | 754 | 1200 | 600 | 2000 | 3210 | 2850 | 1070 | 717 | 653 | 798 |
| 5 | 486 | 505 | 849 | 1100 | 580 | 2500 | 3200 | 2880 | 1140 | 697 | 674 | 777 |
| 6 | 492 | 512 | 871 | 1000 | 570 | 3400 | 3100 | 2870 | 1010 | 668 | 723 | 762 |
| 7 | 497 | 526 | 856 | 940 | 570 | 3840 | 2980 | 2850 | 998 | 639 | 707 | 745 |
| 8 | 496 | 530 | 856 | 860 | 570 | 4020 | 2900 | 2770 | 1070 | 622 | 668 | 723 |
| 9 | 496 | 530 | 856 | 820 | 570 | 4300 | 2830 | 2600 | 1170 | 628 | 642 | 699 |
| 10 | 496 | 530 | 783 | 780 | 570 | 4500 | 2770 | 2400 | 1190 | 635 | 715 | 690 |
| 11 | 484 | 521 | 780 | 750 | 570 | 4530 | 2760 | 2230 | 1150 | 622 | 812 | 679 |
| 12 | 480 | 519 | 795 | 740 | 560 | 4500 | 2900 | 2110 | 1090 | 599 | 802 | 673 |
| 13 | 482 | 516 | 868 | 730 | 560 | 4370 | 3030 | 2080 | 1060 | 581 | 731 | 664 |
| 14 | 477 | 521 | 834 | 720 | 560 | 4220 | 3110 | 2130 | 1040 | 576 | 685 | 653 |
| 15 | 484 | 539 | 828 | 730 | 560 | 4010 | 3110 | 2150 | 990 | 587 | 648 | 640 |
| 16 | 503 | 537 | 807 | 750 | 560 | 3760 | 3110 | 2100 | 940 | 588 | 619 | 638 |
| 17 | 519 | 551 | 780 | 740 | 560 | 3530 | 3020 | 1990 | 896 | 560 | 606 | 627 |
| 18 | 523 | 574 | 754 | 710 | 560 | 3310 | 2880 | 1860 | 880 | 542 | 684 | 620 |
| 19 | 528 | 592 | 742 | 690 | 560 | 3140 | 2720 | 1750 | 902 | 562 | 807 | 608 |
| 20 | 526 | 588 | 733 | 700 | 740 | 3040 | 2550 | 1650 | 896 | 507 | 959 | 597 |
| 21 | 510 | 585 | 736 | 740 | 790 | 2980 | 2380 | 1560 | 874 | 494 | 1140 | 592 |
| 22 | 501 | 578 | 719 | 770 | 860 | 2930 | 2220 | 1470 | 846 | 486 | 1110 | 534 |
| 23 | 497 | 622 | 710 | 800 | 930 | 2870 | 2090 | 1400 | 813 | 480 | 1030 | 585 |
| 24 | 499 | 651 | 712 | 780 | 1000 | 2830 | 2000 | 1350 | 783 | 479 | 962 | 581 |
| 25 | 499 | 668 | 706 | 770 | 1200 | 2790 | 2040 | 1310 | 762 | 575 | 949 | 576 |
| 26 | 519 | 668 | 686 | 780 | 1300 | 2730 | 2160 | 1260 | 742 | 679 | 899 | 569 |
| 27 | 537 | 673 | 611 | 750 | 1380 | 2650 | 2400 | 1230 | 725 | 645 | 852 | 567 |
| 28 | 544 | 664 | 648 | 720 | 1300 | 2570 | 2600 | 1200 | 716 | 595 | 840 | 570 |
| 29 | 539 | 651 | 653 | 700 | --- | 2560 | 2730 | 1170 | 723 | 562 | 943 | 544 |
| 30 | 532 | 657 | 682 | 670 | --- | 2710 | 2800 | 1130 | 753 | 561 | 1020 | 539 |
| 31 | 530 | --- | 765 | 660 | --- | 2840 | --- | 1120 | --- | 655 | 1000 | --- |
| TOTAL | 15641 | 17042 | 23396 | 26090 | 20460 | 97260 | 82720 | 61860 | 28619 | 18912 | 24953 | 19873 |
| MEAN | 505 | 568 | 755 | 842 | 731 | 3137 | 2757 | 1995 | 954 | 610 | 805 | 662 |
| MAX | 544 | 673 | 871 | 1500 | 1380 | 4530 | 3210 | 2880 | 1190 | 843 | 1140 | 924 |
| MIN | 477 | 501 | 611 | 660 | 560 | 1140 | 2000 | 1120 | 716 | 479 | 606 | 534 |
| CFSM | .37 | .42 | .56 | .62 | .54 | 2.32 | 2.04 | 1.48 | .71 | .45 | .60 | .49 |
| IN. | .43 | .47 | .64 | .72 | .56 | 2.68 | 2.28 | 1.70 | .79 | .52 | .69 | .55 |
| CAL YR 1978 | TOTAL | 435555 | MEAN | 1193 | MAX | 4500 | MIN | 403 | CFSM | .88 | IN | 11.98 |
| WTR YR 1979 | TOTAL | 436826 | MEAN | 1197 | MAX | 4530 | MIN | 477 | CFSM | .89 | IN | 12.02 |

05517530 KANKAKEE RIVER NEAR KOUTS, IN

LOCATION.--Lat 41°15'14", long 87°02'02", in SW¼NE¼ sec.6, T.32 N., R.5 W., Jasper County, Hydrologic Unit 07120001, on left bank, 20 ft (6 m) downstream from bridge on State Highway 49, 4.5 miles (7.2 km) south of Kouts, 0.7 mile (1.1 km) upstream from Cook ditch, and at mile 86.7 (139.5 km).

DRAINAGE AREA.--1,376 mi² (3,564 km²), of which 194 mi² (502 km²) does not contribute directly to surface runoff.

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

REVISED RECORDS.--WDR IN-77-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 645.00 ft (196.596 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 1,356 ft³/s (38.40 m³/s), 13.38 in/yr (340 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,610 ft³/s (131 m³/s) Mar. 12, 1979, gage height, 12.69 ft (3.868 m); maximum gage height, 13.29 ft (4.051 m) Jan. 13, 1978 (backwater from ice jam); minimum daily, 335 ft³/s (9.49 m³/s) Sept. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,610 ft³/s (131 m³/s) Mar. 12, gage height, 12.69 ft (3.868 m); minimum daily, 442 ft³/s (12.5 m³/s) Oct. 3.

NOTE.--No gage-height record Apr. 26 to June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1 | 453 | 500 | 603 | 1080 | 650 | 1200 | 3350 | 3100 | 1180 | 953 | 761 | 935 |
| 2 | 450 | 495 | 608 | 1370 | 640 | 1200 | 3460 | 3100 | 1170 | 932 | 817 | 874 |
| 3 | 442 | 490 | 631 | 1360 | 620 | 1340 | 3580 | 3150 | 1180 | 842 | 814 | 840 |
| 4 | 447 | 482 | 687 | 1280 | 610 | 3020 | 3610 | 3250 | 1170 | 800 | 753 | 806 |
| 5 | 453 | 485 | 775 | 1150 | 590 | 3730 | 3610 | 3300 | 1120 | 800 | 764 | 831 |
| 6 | 458 | 490 | 803 | 1050 | 580 | 3840 | 3530 | 3300 | 1080 | 797 | 857 | 817 |
| 7 | 474 | 502 | 794 | 980 | 580 | 3950 | 3420 | 3250 | 1030 | 769 | 831 | 817 |
| 8 | 487 | 510 | 789 | 910 | 580 | 4240 | 3320 | 3100 | 1080 | 714 | 736 | 780 |
| 9 | 516 | 507 | 792 | 850 | 580 | 4420 | 3240 | 2950 | 1130 | 690 | 690 | 692 |
| 10 | 502 | 510 | 761 | 810 | 580 | 4530 | 3150 | 2750 | 1200 | 698 | 764 | 658 |
| 11 | 455 | 500 | 698 | 780 | 580 | 4580 | 3120 | 2620 | 1260 | 679 | 923 | 642 |
| 12 | 458 | 500 | 714 | 760 | 580 | 4600 | 3350 | 2500 | 1240 | 668 | 923 | 631 |
| 13 | 450 | 497 | 769 | 750 | 570 | 4540 | 3520 | 2440 | 1200 | 660 | 828 | 642 |
| 14 | 447 | 500 | 753 | 740 | 570 | 4480 | 3570 | 2490 | 1170 | 610 | 747 | 631 |
| 15 | 452 | 517 | 750 | 750 | 560 | 4360 | 3540 | 2480 | 1180 | 600 | 703 | 605 |
| 16 | 471 | 522 | 742 | 760 | 560 | 4190 | 3530 | 2310 | 1120 | 590 | 666 | 600 |
| 17 | 482 | 529 | 756 | 750 | 560 | 3990 | 3460 | 2200 | 1060 | 590 | 647 | 574 |
| 18 | 485 | 552 | 698 | 730 | 570 | 3810 | 3340 | 2190 | 1020 | 580 | 744 | 557 |
| 19 | 502 | 569 | 690 | 710 | 580 | 3690 | 3190 | 2010 | 1040 | 550 | 883 | 542 |
| 20 | 502 | 572 | 684 | 730 | 590 | 3620 | 2990 | 1900 | 1020 | 512 | 1040 | 539 |
| 21 | 468 | 592 | 684 | 750 | 640 | 3550 | 2910 | 1760 | 986 | 500 | 1180 | 534 |
| 22 | 458 | 613 | 679 | 790 | 710 | 3450 | 2720 | 1680 | 941 | 487 | 1140 | 512 |
| 23 | 497 | 597 | 674 | 810 | 800 | 3360 | 2390 | 1580 | 920 | 492 | 1060 | 510 |
| 24 | 502 | 590 | 703 | 810 | 960 | 3310 | 2320 | 1500 | 883 | 492 | 1000 | 549 |
| 25 | 466 | 608 | 706 | 800 | 1190 | 3220 | 2280 | 1420 | 840 | 600 | 977 | 524 |
| 26 | 471 | 608 | 650 | 790 | 1350 | 3130 | 2290 | 1380 | 817 | 722 | 926 | 497 |
| 27 | 492 | 613 | 585 | 770 | 1400 | 3040 | 2400 | 1320 | 806 | 690 | 890 | 500 |
| 28 | 512 | 613 | 613 | 740 | 1370 | 2940 | 2600 | 1290 | 797 | 634 | 840 | 529 |
| 29 | 517 | 597 | 668 | 710 | --- | 2950 | 2850 | 1250 | 845 | 590 | 934 | 474 |
| 30 | 510 | 597 | 647 | 690 | --- | 3150 | 3000 | 1220 | 862 | 592 | 1010 | 460 |
| 31 | 507 | --- | 731 | 680 | --- | 3260 | --- | 1200 | --- | 695 | 1010 | --- |
| TOTAL | 14786 | 16257 | 21837 | 26640 | 20150 | 108690 | 93640 | 69990 | 31347 | 20528 | 26858 | 19102 |
| MEAN | 477 | 542 | 704 | 859 | 720 | 3506 | 3121 | 2258 | 1045 | 662 | 866 | 637 |
| MAX | 517 | 613 | 803 | 1370 | 1400 | 4600 | 3610 | 3300 | 1260 | 953 | 1180 | 935 |
| MIN | 442 | 482 | 585 | 680 | 560 | 1200 | 2280 | 1200 | 797 | 487 | 647 | 460 |
| CFSM | .35 | .39 | .51 | .62 | .52 | 2.55 | 2.27 | 1.64 | .76 | .48 | .63 | .46 |
| IN. | .40 | .44 | .59 | .72 | .54 | 2.94 | 2.53 | 1.89 | .85 | .55 | .73 | .52 |

CAL YR 1978 TOTAL 447887 MEAN 1227 MAX 4580 MIN 335 CFSM .89 IN 12.11
WTR YR 1979 TOTAL 469825 MEAN 1287 MAX 4600 MIN 442 CFSM .94 IN 12.70

ILLINOIS RIVER BASIN

05517530 KANKAKEE RIVER NEAR KOUTS, IN--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|
| JUL 19... | 1300 | -- | 532 | 66 | 95 | 90 | -- | -- | -- |
| AUG 28... | 1335 | 19.5 | 814 | 41 | 90 | 92 | 97 | 99 | 100 |
| SEP 20... | 1300 | 15.0 | 528 | 20 | 29 | 96 | 100 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | SAMPLE LOCATION, CROSS SECTION (FT FM R BANK) LOOKING UPSTREAM | BED MAT. SIEVE DIAM. % FINER THAN .062 MM | BED MAT. SIEVE DIAM. % FINER THAN .125 MM | BED MAT. SIEVE DIAM. % FINER THAN .250 MM | BED MAT. SIEVE DIAM. % FINER THAN .500 MM | BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM | BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM | BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM | BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM |
|--------------|------|---|---|---|---|---|---|---|---|---|
| JUL 19... | 1545 | 50 | 0 | 1 | 14 | 82 | 95 | 97 | 98 | 100 |
| SEP 20... | 1630 | 150 | 3 | 7 | 25 | 73 | 88 | 92 | 96 | 99 |

05517890 COBB DITCH NEAR KOUTS, IN

LOCATION (revised).--Lat 41°20'19", long 87°04'30", in NW¼SE¼ sec. 2, T.33 N., R.6 W., Porter County, Hydrologic Unit 07120001, on left bank 15 ft (4.6 m) upstream from county highway bridge, 1.6 miles (2.6 km) upstream from mouth, and 3 miles (5 km) west of Kouts.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929 (State Highway Commission bench mark). Prior to Oct. 19, 1978, water stage recorder at site 1.4 miles (2.3 km) downstream at same datum.

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

AVERAGE DISCHARGE.--11 years, 32.6 ft³/s (0.923 m³/s), 13.97 in/yr (355 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 777 ft³/s (22.0 m³/s) Mar. 5, 1976, gage height, 9.85 ft (3.002 m) from flood mark at site then in use; minimum daily, 8.9 ft³/s (0.25 m³/s) Sept. 11, 12, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Dec. 31 | 2300 | 154 | 4.36 | 10.71 | 3.264 | Mar. 30 | 0300 | 234 | 6.63 | 11.76 | 3.584 |
| Mar. 4 | 1200 | *650 | 18.4 | *16.78 | 5.115 | Apr. 12 | 1200 | 200 | 5.66 | 11.33 | 3.453 |
| Mar. 8 | 2300 | 253 | 7.16 | 12.00 | 3.658 | Apr. 26 | 1700 | 266 | 7.53 | 12.22 | 3.725 |
| Mar. 14 | unknown | 155 | 4.39 | unknown | | May 3 | 1200 | 184 | 5.21 | 11.20 | 3.414 |
| Mar. 19 | 1800 | 164 | 4.64 | 10.84 | 3.304 | | | | | | |

Minimum daily discharge, 10.0 ft³/s (0.28 m³/s) Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-----------|---------|---------|----------|----------|------|------|------|------|------|
| 1 | 13 | 11 | 14 | 83 | 13 | 20 | 72 | 54 | 20 | 16 | 18 | 15 |
| 2 | 12 | 11 | 14 | 50 | 13 | 22 | 89 | 48 | 20 | 16 | 17 | 15 |
| 3 | 13 | 11 | 17 | 30 | 12 | 41 | 76 | 119 | 18 | 16 | 17 | 15 |
| 4 | 12 | 11 | 21 | 24 | 12 | 522 | 60 | 71 | 18 | 16 | 16 | 15 |
| 5 | 12 | 11 | 18 | 21 | 12 | 452 | 56 | 53 | 18 | 16 | 16 | 14 |
| 6 | 12 | 11 | 16 | 19 | 12 | 246 | 49 | 47 | 18 | 16 | 16 | 14 |
| 7 | 12 | 11 | 16 | 18 | 12 | 190 | 45 | 42 | 20 | 16 | 16 | 14 |
| 8 | 12 | 11 | 16 | 18 | 12 | 189 | 44 | 37 | 20 | 16 | 15 | 14 |
| 9 | 12 | 11 | 15 | 17 | 12 | 208 | 43 | 33 | 18 | 16 | 16 | 14 |
| 10 | 12 | 11 | 15 | 17 | 12 | 122 | 39 | 31 | 19 | 16 | 16 | 14 |
| 11 | 12 | 11 | 20 | 16 | 12 | 110 | 48 | 29 | 18 | 16 | 18 | 13 |
| 12 | 12 | 11 | 16 | 16 | 12 | 100 | 142 | 28 | 18 | 15 | 16 | 13 |
| 13 | 12 | 12 | 14 | 16 | 12 | 100 | 82 | 28 | 18 | 15 | 15 | 13 |
| 14 | 15 | 13 | 13 | 15 | 12 | 110 | 60 | 27 | 18 | 15 | 15 | 13 |
| 15 | 19 | 12 | 14 | 15 | 12 | 78 | 49 | 26 | 17 | 15 | 14 | 13 |
| 16 | 16 | 12 | 13 | 15 | 12 | 74 | 44 | 25 | 17 | 15 | 14 | 13 |
| 17 | 14 | 15 | 13 | 15 | 12 | 80 | 39 | 25 | 17 | 14 | 17 | 13 |
| 18 | 12 | 16 | 13 | 15 | 12 | 95 | 35 | 24 | 17 | 13 | 27 | 13 |
| 19 | 11 | 14 | 13 | 15 | 12 | 148 | 33 | 24 | 17 | 13 | 20 | 13 |
| 20 | 11 | 13 | 14 | 16 | 12 | 110 | 32 | 24 | 20 | 13 | 19 | 13 |
| 21 | 11 | 13 | 14 | 16 | 13 | 56 | 31 | 22 | 18 | 13 | 18 | 13 |
| 22 | 10 | 13 | 14 | 17 | 18 | 56 | 30 | 22 | 16 | 13 | 17 | 13 |
| 23 | 11 | 15 | 13 | 17 | 25 | 64 | 29 | 22 | 16 | 12 | 17 | 13 |
| 24 | 11 | 15 | 13 | 16 | 32 | 72 | 31 | 22 | 16 | 12 | 16 | 13 |
| 25 | 12 | 14 | 13 | 15 | 27 | 64 | 52 | 21 | 16 | 16 | 15 | 13 |
| 26 | 12 | 14 | 13 | 15 | 24 | 50 | 147 | 21 | 16 | 14 | 15 | 13 |
| 27 | 12 | 14 | 13 | 15 | 22 | 46 | 165 | 21 | 16 | 13 | 16 | 13 |
| 28 | 11 | 14 | 14 | 14 | 20 | 48 | 106 | 20 | 16 | 12 | 15 | 13 |
| 29 | 11 | 14 | 15 | 14 | --- | 98 | 67 | 20 | 16 | 12 | 20 | 13 |
| 30 | 11 | 13 | 18 | 14 | --- | 176 | 72 | 20 | 16 | 26 | 18 | 13 |
| 31 | 11 | --- | 53 | 13 | --- | 111 | --- | 20 | --- | 20 | 16 | --- |
| TOTAL | 379 | 378 | 498 | 617 | 423 | 3858 | 1867 | 1026 | 528 | 467 | 521 | 404 |
| MEAN | 12.2 | 12.6 | 16.1 | 19.9 | 15.1 | 124 | 62.2 | 33.1 | 17.6 | 15.1 | 16.8 | 13.5 |
| MAX | 19 | 16 | 53 | 83 | 32 | 522 | 165 | 119 | 20 | 26 | 27 | 15 |
| MIN | 10 | 11 | 13 | 13 | 12 | 20 | 29 | 20 | 16 | 12 | 14 | 13 |
| CFSM | .40 | .42 | .53 | .66 | .50 | 4.09 | 2.05 | 1.09 | .58 | .50 | .55 | .45 |
| IN. | .47 | .46 | .61 | .76 | .52 | 4.74 | 2.29 | 1.26 | .65 | .57 | .64 | .50 |
| CAL YR 1978 | TOTAL | 9223.9 | MEAN 25.3 | MAX 427 | MIN 9.0 | CFSM .83 | IN 11.32 | | | | | |
| WTR YR 1979 | TOTAL | 10966 | MEAN 30.0 | MAX 522 | MIN 10 | CFSM .99 | IN 13.46 | | | | | |

05517890 COBB DITCH NEAR KOUTS, IN--Continued

WATER-DISCHARGE RECORDS--Continued

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: March 1979 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|--------------|------|-----------------------------|---|---|--|---|---|
| MAR 29... | 1745 | -- | 90 | 148 | 36 | -- | -- |
| JUN 13... | 1440 | 17.5 | 18 | 40 | 2.0 | -- | -- |
| JUL 17... | 1440 | -- | 13 | 71 | 2.5 | 92 | -- |

05518000 KANKAKEE RIVER AT SHELBY, IN

LOCATION.--Lat 41°10'58", long 87°20'33", in SW¼NE¼ sec.33, T.32 N., R.8 W., Lake County, Hydrologic Unit 07120001, on right bank 25 ft (7.6 m) upstream from Monon Railroad bridge, 1 mile (2 km) south of Shelby, 7.7 miles (12.4 km) upstream from Beaver Lake ditch, and at mile 67.9 (109.2 km).

DRAINAGE AREA.--1,779 mi² (4,608 km²), of which 201 mi² (521 km²) does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1005: 1928(M). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 628.13 ft (191.454 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--57 years, 1,583 ft³/s (44.83 m³/s), 12.08 in/yr (307 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s (204 m³/s) Dec. 21, 1927, gage height, 11.40 ft (3.475 m), site then in use, from rating curve extended above 3,000 ft³/s (85.0 m³/s) by gage-height relation study with site below railroad bridge; maximum gage height, 11.60 ft (3.536 m) Mar. 5, 1979; minimum daily, 260 ft³/s (7.36 m³/s) Jan. 13-15, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,420 ft³/s (153 m³/s) Mar. 5, gage height, 11.60 ft (3.536 m); minimum daily discharge, 596 ft³/s (16.9 m³/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1 | 627 | 637 | 790 | 1660 | 850 | 2000 | 4370 | 4140 | 1650 | 1110 | 974 | 1150 |
| 2 | 618 | 622 | 806 | 1880 | 840 | 2500 | 4420 | 4080 | 1640 | 1140 | 1010 | 1090 |
| 3 | 618 | 634 | 846 | 1650 | 830 | 3050 | 4480 | 4130 | 1640 | 1090 | 1020 | 1040 |
| 4 | 618 | 616 | 930 | 1450 | 820 | 4450 | 4470 | 4280 | 1600 | 1020 | 1000 | 1010 |
| 5 | 624 | 625 | 1040 | 1300 | 800 | 5320 | 4430 | 4260 | 1540 | 983 | 959 | 991 |
| 6 | 628 | 643 | 1090 | 1200 | 800 | 5070 | 4360 | 4190 | 1460 | 978 | 1030 | 1000 |
| 7 | 628 | 661 | 1100 | 1150 | 800 | 4950 | 4320 | 4090 | 1430 | 955 | 1050 | 984 |
| 8 | 635 | 652 | 1090 | 1100 | 800 | 5060 | 4260 | 4020 | 1500 | 903 | 1000 | 971 |
| 9 | 656 | 649 | 1070 | 1050 | 800 | 5140 | 4210 | 3890 | 1570 | 865 | 938 | 924 |
| 10 | 673 | 664 | 1140 | 1030 | 800 | 5260 | 4130 | 3740 | 1630 | 862 | 931 | 879 |
| 11 | 637 | 670 | 1040 | 1000 | 800 | 5390 | 4100 | 3570 | 1630 | 843 | 1100 | 865 |
| 12 | 602 | 661 | 1050 | 990 | 800 | 5370 | 4250 | 3390 | 1560 | 815 | 1150 | 849 |
| 13 | 605 | 637 | 1060 | 980 | 800 | 5350 | 4390 | 3250 | 1510 | 794 | 1100 | 837 |
| 14 | 598 | 637 | 1060 | 970 | 800 | 5290 | 4420 | 3190 | 1480 | 783 | 1030 | 820 |
| 15 | 596 | 664 | 1050 | 960 | 800 | 5200 | 4380 | 3190 | 1420 | 777 | 964 | 804 |
| 16 | 624 | 667 | 1040 | 980 | 800 | 5200 | 4340 | 3150 | 1350 | 782 | 916 | 785 |
| 17 | 621 | 676 | 1040 | 970 | 800 | 5120 | 4280 | 3020 | 1280 | 772 | 894 | 782 |
| 18 | 632 | 701 | 1010 | 950 | 800 | 5010 | 4210 | 2860 | 1260 | 748 | 996 | 771 |
| 19 | 639 | 713 | 974 | 930 | 800 | 4930 | 4120 | 2750 | 1270 | 753 | 1150 | 759 |
| 20 | 662 | 729 | 974 | 940 | 830 | 4890 | 4010 | 2630 | 1300 | 716 | 1240 | 744 |
| 21 | 622 | 716 | 975 | 960 | 870 | 4810 | 3880 | 2470 | 1320 | 695 | 1440 | 750 |
| 22 | 609 | 774 | 961 | 1000 | 940 | 4690 | 3700 | 2310 | 1240 | 679 | 1470 | 726 |
| 23 | 642 | 796 | 958 | 1040 | 1100 | 4580 | 3550 | 2190 | 1200 | 670 | 1400 | 715 |
| 24 | 658 | 780 | 968 | 1030 | 1300 | 4510 | 3430 | 2080 | 1150 | 655 | 1300 | 727 |
| 25 | 653 | 777 | 997 | 1010 | 1700 | 4440 | 3430 | 2000 | 1120 | 763 | 1220 | 740 |
| 26 | 637 | 770 | 939 | 1010 | 1900 | 4320 | 3600 | 1910 | 1080 | 882 | 1180 | 700 |
| 27 | 646 | 780 | 870 | 1000 | 2200 | 4190 | 3950 | 1860 | 1050 | 904 | 1120 | 673 |
| 28 | 667 | 777 | 851 | 970 | 2100 | 4080 | 4080 | 1790 | 1030 | 846 | 1080 | 700 |
| 29 | 664 | 758 | 850 | 940 | --- | 4120 | 4130 | 1710 | 1040 | 798 | 1100 | 671 |
| 30 | 640 | 774 | 1000 | 900 | --- | 4300 | 4130 | 1690 | 1070 | 785 | 1180 | 650 |
| 31 | 647 | --- | 1260 | 870 | --- | 4380 | --- | 1600 | --- | 928 | 1200 | --- |
| TOTAL | 19626 | 20860 | 30829 | 33870 | 28280 | 142970 | 123830 | 93430 | 41020 | 26294 | 34142 | 25107 |
| MEAN | 633 | 695 | 994 | 1093 | 1010 | 4612 | 4128 | 3014 | 1367 | 848 | 1101 | 837 |
| MAX | 673 | 796 | 1260 | 1880 | 2200 | 5390 | 4480 | 4280 | 1650 | 1140 | 1470 | 1150 |
| MIN | 596 | 616 | 790 | 870 | 800 | 2000 | 3430 | 1600 | 1030 | 655 | 894 | 650 |
| CFSM | .36 | .39 | .56 | .61 | .57 | 2.59 | 2.32 | 1.69 | .77 | .48 | .62 | .47 |
| IN. | .41 | .44 | .64 | .71 | .59 | 2.99 | 2.59 | 1.95 | .86 | .55 | .71 | .53 |
| CAL YR 1978 | TOTAL | 562134 | MEAN | 1540 | MAX | 5430 | MIN | 506 | CFSM | .87 | IN | 11.75 |
| WTR YR 1979 | TOTAL | 620258 | MEAN | 1699 | MAX | 5390 | MIN | 596 | CFSM | .96 | IN | 12.97 |

ILLINOIS RIVER BASIN

05518000 KANKAKEE RIVER AT SHELBY, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) |
|--------------|------|-----------------------------|---|---|--|
| MAR 07... | 1240 | 2.0 | 4800 | 43 | 557 |

05519000 SINGLETON DITCH AT SCHNEIDER, IN

LOCATION.--Lat 41°12'44", long 87°26'44", in SW¼NW¼ sec.22, T.32 N., R.9 W., Lake County, Hydrologic Unit 07120001, 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 mi² (319 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1915: 1956-59. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 623.67 ft (190.095 m) National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Feb. 5 to Mar. 8, which are fair.

AVERAGE DISCHARGE.--31 years, 105 ft³/s (2.974 m³/s), 11.59 in/yr (294 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,550 ft³/s (101 m³/s) Mar. 5, 1976; maximum gage height, 12.37 ft (3.770 m) June 25, 1975; minimum daily discharge, 3.6 ft³/s (0.102 m³/s) Sept. 7, 8, 10, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 730 ft³/s (20.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | | Date | Time | Discharge (ft ³ /s) (m ³ /s) | | Gage height (ft) (m) | |
|---------|---------|---|------|-------------------------|-------|---------|------|---|------|-------------------------|-------|
| Mar. 5 | unknown | *1700 | 48.1 | unknown | | Mar. 30 | 0600 | 948 | 26.8 | 6.79 | 2.070 |
| Mar. 5 | unknown | (a) | | *11.94 | 3.639 | Apr. 12 | 1200 | 790 | 22.4 | 6.11 | 1.862 |
| Mar. 9 | 0100 | 1160 | 32.9 | 7.63 | 2.326 | Apr. 26 | 1800 | 1140 | 32.3 | 7.57 | 2.307 |
| Mar. 14 | 0300 | 767 | 21.7 | 6.01 | 1.832 | | | | | | |

a Backwater from ice.

Minimum daily discharge, 20 ft³/s (0.57 m³/s) July 29.

NOTE.--No gage-height record Feb. 5 to Mar. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|----------|----------|------|------|------|------|------|
| 1 | 23 | 25 | 23 | 162 | 24 | 150 | 484 | 364 | 65 | 38 | 41 | 43 |
| 2 | 22 | 24 | 25 | 125 | 23 | 170 | 444 | 290 | 58 | 38 | 35 | 42 |
| 3 | 23 | 24 | 26 | 92 | 23 | 250 | 420 | 526 | 54 | 36 | 34 | 42 |
| 4 | 23 | 24 | 47 | 70 | 22 | 1000 | 330 | 463 | 52 | 40 | 32 | 42 |
| 5 | 23 | 24 | 39 | 50 | 22 | 1600 | 294 | 333 | 50 | 37 | 29 | 42 |
| 6 | 26 | 27 | 36 | 43 | 22 | 1100 | 249 | 270 | 49 | 36 | 53 | 41 |
| 7 | 24 | 26 | 34 | 38 | 22 | 1170 | 191 | 227 | 50 | 36 | 45 | 40 |
| 8 | 23 | 24 | 33 | 34 | 22 | 980 | 181 | 195 | 52 | 37 | 36 | 40 |
| 9 | 22 | 24 | 31 | 32 | 22 | 1050 | 186 | 170 | 50 | 41 | 34 | 40 |
| 10 | 22 | 23 | 31 | 30 | 22 | 785 | 172 | 141 | 50 | 38 | 34 | 40 |
| 11 | 23 | 23 | 34 | 29 | 22 | 735 | 196 | 130 | 48 | 38 | 46 | 40 |
| 12 | 23 | 24 | 33 | 27 | 22 | 731 | 664 | 127 | 46 | 36 | 39 | 40 |
| 13 | 22 | 23 | 31 | 28 | 22 | 494 | 558 | 121 | 46 | 35 | 33 | 40 |
| 14 | 22 | 26 | 30 | 28 | 22 | 662 | 385 | 116 | 45 | 35 | 31 | 40 |
| 15 | 22 | 26 | 29 | 29 | 22 | 444 | 286 | 109 | 43 | 34 | 29 | 40 |
| 16 | 35 | 25 | 28 | 28 | 22 | 370 | 233 | 101 | 42 | 32 | 27 | 38 |
| 17 | 46 | 25 | 42 | 27 | 22 | 349 | 196 | 95 | 42 | 30 | 28 | 39 |
| 18 | 54 | 29 | 25 | 27 | 22 | 372 | 170 | 89 | 42 | 25 | 61 | 39 |
| 19 | 56 | 27 | 24 | 28 | 22 | 595 | 155 | 86 | 44 | 24 | 78 | 38 |
| 20 | 50 | 26 | 25 | 29 | 24 | 631 | 146 | 82 | 45 | 23 | 85 | 38 |
| 21 | 46 | 25 | 36 | 30 | 33 | 487 | 139 | 77 | 52 | 23 | 90 | 38 |
| 22 | 52 | 25 | 30 | 31 | 70 | 380 | 117 | 73 | 58 | 23 | 72 | 37 |
| 23 | 44 | 27 | 27 | 30 | 140 | 332 | 107 | 70 | 44 | 23 | 66 | 36 |
| 24 | 44 | 29 | 27 | 31 | 190 | 367 | 121 | 66 | 40 | 21 | 59 | 36 |
| 25 | 37 | 28 | 27 | 30 | 140 | 395 | 265 | 64 | 38 | 30 | 51 | 36 |
| 26 | 33 | 27 | 27 | 29 | 110 | 297 | 785 | 61 | 36 | 27 | 47 | 36 |
| 27 | 29 | 27 | 27 | 28 | 120 | 259 | 828 | 58 | 36 | 23 | 44 | 36 |
| 28 | 27 | 26 | 32 | 27 | 130 | 253 | 668 | 55 | 37 | 22 | 43 | 36 |
| 29 | 26 | 28 | 36 | 27 | --- | 456 | 487 | 53 | 38 | 20 | 46 | 35 |
| 30 | 26 | 35 | 46 | 26 | --- | 865 | 473 | 51 | 42 | 44 | 50 | 35 |
| 31 | 26 | --- | 121 | 25 | --- | 674 | --- | 55 | --- | 70 | 45 | --- |
| TOTAL | 974 | 776 | 1062 | 1270 | 1379 | 18403 | 9930 | 4718 | 1394 | 1015 | 1443 | 1165 |
| MEAN | 31.4 | 25.9 | 34.3 | 41.0 | 49.3 | 594 | 331 | 152 | 46.5 | 32.7 | 46.5 | 38.8 |
| MAX | 56 | 35 | 121 | 162 | 190 | 1600 | 828 | 526 | 65 | 70 | 90 | 43 |
| MIN | 22 | 23 | 23 | 25 | 22 | 150 | 107 | 51 | 36 | 20 | 27 | 35 |
| CFSM | .26 | .21 | .28 | .33 | .40 | 4.83 | 2.69 | 1.24 | .38 | .27 | .38 | .32 |
| IN. | .29 | .23 | .32 | .38 | .42 | 5.57 | 3.00 | 1.43 | .42 | .31 | .44 | .35 |
| CAL YR 1978 | TOTAL | 38025 | MEAN 104 | MAX 1180 | MIN 17 | CFSM .85 | IN 11.50 | | | | | |
| WTR YR 1979 | TOTAL | 43529 | MEAN 119 | MAX 1600 | MIN 20 | CFSM .97 | IN 13.16 | | | | | |

05519000 SINGLETON DITCH AT SCHNEIDER, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: April 1979 to current year (partial-record stations).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDED (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM |
|--------------|------|-----------------------------|---|--|---|---|---|
| APR 25... | 1235 | 15.0 | 251 | 63 | 42 | -- | -- |
| AUG 30... | 1345 | -- | 49 | 103 | 14 | 91 | 100 |

05520500 KANKAKEE RIVER AT MOMEMCE, IL

LOCATION.--Lat 41°09'36", long 87°40'07", in NE¼ sec.24, T.31 N., R.13 E., Kankakee County, Illinois, Hydrologic Unit 07120001, on right bank at Hill Street in Momemce, 0.2 mi (0.3 km) downstream from bridge on State Highways 1 and 17, and 1.2 mi (1.9 km) upstream from Tower Creek, and at mile 47.9 (77.1 km).

DRAINAGE AREA.--2,294 mi² (5,941 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

REVISED RECORDS.--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft (185.678 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mi (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.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--64 years (water years 1916-79), 1,928 ft³/s (54.60 m³/s), 11.41 in/yr (290 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16 000 ft³/s (453 m³/s) Mar. 6, 1979, gage height, 10.51 ft (3.203 m), ice jam; minimum observed, 306 ft³/s (8.67 m³/s) Sept. 1, 6, 17, 1919.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,000 ft³/s (453 m³/s) Mar. 6, gage height, 10.51 ft (3.203 m), ice jam; minimum, 601 ft³/s (17.0 m³/s) Sept. 30.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|
| 1 | 677 | 720 | 884 | 1700 | 950 | 2500 | 6220 | 5650 | 2500 | 1180 | 1020 | 1260 |
| 2 | 648 | 710 | 917 | 1450 | 950 | 3500 | 6130 | 5350 | 2450 | 1200 | 1030 | 1210 |
| 3 | 648 | 697 | 962 | 1300 | 950 | 4000 | 6110 | 5890 | 2380 | 1210 | 1050 | 1140 |
| 4 | 648 | 700 | 1020 | 1200 | 900 | 6000 | 5850 | 5980 | 2280 | 1210 | 1050 | 1080 |
| 5 | 648 | 687 | 1160 | 1100 | 900 | 9500 | 5650 | 5700 | 2200 | 1110 | 1020 | 1050 |
| 6 | 648 | 693 | 1210 | 1100 | 900 | 13400 | 5420 | 5460 | 2070 | 1060 | 1030 | 1030 |
| 7 | 648 | 712 | 1250 | 1050 | 900 | 14800 | 5210 | 5230 | 1940 | 1040 | 1090 | 1020 |
| 8 | 648 | 715 | 1220 | 1000 | 900 | 12000 | 5120 | 5000 | 1890 | 1010 | 1060 | 1000 |
| 9 | 648 | 706 | 1150 | 1000 | 900 | 10500 | 5140 | 4840 | 1860 | 951 | 1020 | 982 |
| 10 | 677 | 703 | 1100 | 1000 | 850 | 8130 | 5040 | 4680 | 1860 | 920 | 981 | 923 |
| 11 | 687 | 718 | 1150 | 1000 | 850 | 7690 | 5100 | 4500 | 1860 | 906 | 1010 | 884 |
| 12 | 648 | 721 | 1300 | 1000 | 850 | 7040 | 6930 | 4320 | 1830 | 879 | 1130 | 862 |
| 13 | 631 | 710 | 1500 | 1000 | 800 | 6980 | 6610 | 4150 | 1810 | 852 | 1140 | 842 |
| 14 | 629 | 689 | 1400 | 1000 | 800 | 7470 | 6070 | 3990 | 1730 | 833 | 1100 | 819 |
| 15 | 625 | 698 | 1300 | 1000 | 800 | 6840 | 5700 | 3880 | 1650 | 823 | 1020 | 801 |
| 16 | 635 | 716 | 1400 | 1000 | 800 | 6610 | 5400 | 3820 | 1580 | 814 | 960 | 783 |
| 17 | 655 | 727 | 1500 | 1000 | 800 | 6650 | 5190 | 3720 | 1500 | 793 | 918 | 760 |
| 18 | 687 | 744 | 1250 | 1000 | 800 | 6810 | 5020 | 3680 | 1460 | 768 | 1040 | 753 |
| 19 | 717 | 747 | 1150 | 1000 | 800 | 7520 | 4880 | 3570 | 1440 | 747 | 1260 | 736 |
| 20 | 727 | 762 | 1080 | 1000 | 830 | 7640 | 4760 | 3460 | 1450 | 730 | 1470 | 719 |
| 21 | 727 | 765 | 1060 | 1100 | 870 | 7070 | 4640 | 3350 | 1480 | 695 | 1590 | 707 |
| 22 | 697 | 820 | 1040 | 1200 | 900 | 6540 | 4480 | 3200 | 1470 | 676 | 1620 | 700 |
| 23 | 697 | 873 | 1030 | 1200 | 1000 | 6220 | 4280 | 3090 | 1400 | 657 | 1640 | 678 |
| 24 | 717 | 884 | 1030 | 1100 | 1300 | 6090 | 4240 | 2960 | 1340 | 648 | 1600 | 665 |
| 25 | 737 | 873 | 1030 | 1000 | 1500 | 6040 | 4600 | 2840 | 1280 | 727 | 1480 | 685 |
| 26 | 737 | 873 | 1000 | 950 | 1700 | 5700 | 5700 | 2750 | 1230 | 840 | 1390 | 689 |
| 27 | 717 | 884 | 900 | 950 | 2000 | 5420 | 6330 | 2680 | 1190 | 899 | 1310 | 650 |
| 28 | 721 | 884 | 757 | 950 | 2200 | 5290 | 6240 | 2640 | 1160 | 895 | 1240 | 624 |
| 29 | 732 | 852 | 707 | 950 | --- | 5740 | 5980 | 2590 | 1130 | 840 | 1210 | 641 |
| 30 | 720 | 852 | 862 | 950 | --- | 6950 | 5960 | 2560 | 1180 | 870 | 1240 | 618 |
| 31 | 713 | --- | 1350 | 950 | --- | 6680 | --- | 2520 | --- | 1030 | 1260 | --- |
| TOTAL | 21094 | 22835 | 34669 | 33200 | 28700 | 223320 | 164000 | 124050 | 50600 | 27813 | 36979 | 25315 |
| MEAN | 680 | 761 | 1118 | 1071 | 1025 | 7204 | 5467 | 4002 | 1687 | 897 | 1193 | 844 |
| MAX | 737 | 884 | 1500 | 1700 | 2200 | 14800 | 6930 | 5980 | 2500 | 1210 | 1640 | 1260 |
| MIN | 625 | 687 | 707 | 950 | 800 | 2500 | 4240 | 2520 | 1130 | 648 | 918 | 618 |
| CFSM | .30 | .33 | .49 | .47 | .45 | 3.14 | 2.38 | 1.75 | .74 | .39 | .52 | .37 |
| IN. | .34 | .37 | .56 | .54 | .47 | 3.62 | 2.66 | 2.01 | .82 | .45 | .60 | .41 |
| CAL YR 1978 | TOTAL | 686740 | MEAN | 1881 | MAX | 7410 | MIN | 478 | CFSM | .82 | IN | 11.14 |
| WTR YR 1979 | TOTAL | 792575 | MEAN | 2171 | MAX | 14800 | MIN | 618 | CFSM | .95 | IN | 12.85 |

ILLINOIS RIVER BASIN

05521000 IROQUOIS RIVER AT ROSEBUD, IN

LOCATION.--Lat 41°02'00", long 87°10'49", in NW¼SW¼ sec.24, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, on right bank 100 ft (30 m) downstream from bridge on county road, 0.5 mile (0.8 km) north of Rosebud, 0.5 mile (0.8 km) downstream from confluence of Swain and Dexter ditches, 1.5 miles (2.4 km) upstream from Davidson ditch, 2 miles (3 km) east of Parr, and at mile 93.5 (150.4 km).

DRAINAGE AREA.--35.6 mi² (92.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1949-60. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 661.47 ft (201.616 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

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

AVERAGE DISCHARGE.--31 years, 26.1 ft³/s (0.796 m³/s), 9.96 in/yr (253 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 435 ft³/s (12.3 m³/s) May 17, 1974; maximum gage height, 8.86 ft (2.700 m) Feb. 10, 1959; minimum daily discharge, 0.5 ft³/s (0.014 m³/s) Oct. 11, 12, 19, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 4 | 2200 | *432 12.2 | *8.32 2.536 | Apr. 26 | 2100 | 168 4.76 | 4.96 1.512 |
| Mar. 30 | 0600 | 151 4.28 | 4.68 1.426 | May 3 | 1500 | 194 5.49 | 5.35 1.631 |
| Apr. 12 | 1000 | 212 6.00 | 5.61 1.710 | | | | |

Minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Nov. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-----------|---------|---------|----------|----------|------|------|-------|-------|-------|
| 1 | 4.5 | 3.6 | 4.3 | 50 | 5.2 | 61 | 97 | 82 | 24 | 13 | 11 | 8.8 |
| 2 | 4.4 | 3.6 | 4.5 | 38 | 5.2 | 88 | 92 | 68 | 22 | 12 | 11 | 8.3 |
| 3 | 4.8 | 3.4 | 10 | 32 | 5.1 | 124 | 84 | 163 | 22 | 11 | 10 | 8.3 |
| 4 | 4.5 | 3.4 | 11 | 25 | 5.1 | 387 | 72 | 140 | 21 | 13 | 9.0 | 7.8 |
| 5 | 4.5 | 3.3 | 9.3 | 20 | 5.1 | 388 | 69 | 97 | 20 | 11 | 8.8 | 7.6 |
| 6 | 4.4 | 4.0 | 6.4 | 18 | 5.1 | 298 | 56 | 77 | 19 | 10 | 9.2 | 7.6 |
| 7 | 5.0 | 4.1 | 6.2 | 15 | 5.1 | 232 | 51 | 63 | 20 | 10 | 8.8 | 7.1 |
| 8 | 4.5 | 3.6 | 6.0 | 12 | 5.2 | 178 | 56 | 53 | 20 | 10 | 8.3 | 6.9 |
| 9 | 4.2 | 3.4 | 5.9 | 10 | 5.2 | 148 | 67 | 47 | 28 | 11 | 9.0 | 7.1 |
| 10 | 4.2 | 3.2 | 5.9 | 9.0 | 5.2 | 121 | 57 | 42 | 27 | 10 | 9.2 | 6.9 |
| 11 | 4.7 | 3.3 | 6.8 | 8.0 | 5.2 | 96 | 88 | 42 | 23 | 9.2 | 12 | 6.7 |
| 12 | 4.4 | 3.4 | 6.3 | 7.1 | 5.2 | 73 | 198 | 43 | 21 | 9.0 | 9.0 | 6.7 |
| 13 | 4.0 | 3.3 | 6.0 | 6.4 | 5.2 | 72 | 159 | 43 | 25 | 9.0 | 8.0 | 6.5 |
| 14 | 4.2 | 3.4 | 6.0 | 6.1 | 5.1 | 76 | 114 | 48 | 34 | 8.8 | 7.6 | 6.3 |
| 15 | 4.1 | 3.0 | 6.6 | 6.0 | 5.1 | 66 | 84 | 48 | 26 | 8.5 | 7.4 | 6.1 |
| 16 | 4.2 | 3.0 | 6.9 | 5.9 | 5.1 | 56 | 68 | 41 | 22 | 8.3 | 6.9 | 6.1 |
| 17 | 3.8 | 5.3 | 6.3 | 5.8 | 5.1 | 54 | 58 | 36 | 21 | 7.6 | 7.4 | 5.9 |
| 18 | 4.1 | 4.8 | 5.6 | 5.8 | 5.1 | 58 | 50 | 34 | 22 | 7.6 | 14 | 5.9 |
| 19 | 4.5 | 3.8 | 4.8 | 5.7 | 5.1 | 75 | 45 | 33 | 23 | 7.4 | 15 | 5.9 |
| 20 | 4.1 | 3.5 | 6.0 | 5.7 | 5.1 | 81 | 42 | 31 | 22 | 7.1 | 29 | 6.1 |
| 21 | 3.9 | 3.3 | 5.8 | 5.6 | 8.5 | 64 | 41 | 29 | 22 | 6.9 | 23 | 5.9 |
| 22 | 3.7 | 3.3 | 5.8 | 5.6 | 15 | 54 | 38 | 28 | 19 | 6.9 | 18 | 5.9 |
| 23 | 4.5 | 5.1 | 5.6 | 5.5 | 25 | 57 | 36 | 28 | 17 | 6.7 | 15 | 5.9 |
| 24 | 4.4 | 4.8 | 5.3 | 5.4 | 40 | 74 | 49 | 27 | 15 | 6.9 | 14 | 5.7 |
| 25 | 5.2 | 4.0 | 5.0 | 5.4 | 86 | 74 | 90 | 26 | 14 | 30 | 13 | 5.7 |
| 26 | 5.9 | 3.8 | 4.8 | 5.4 | 99 | 56 | 134 | 25 | 13 | 21 | 13 | 5.7 |
| 27 | 4.5 | 4.7 | 4.6 | 5.3 | 75 | 49 | 142 | 25 | 13 | 15 | 12 | 5.7 |
| 28 | 4.5 | 5.0 | 4.3 | 5.3 | 59 | 57 | 131 | 24 | 13 | 12 | 11 | 5.9 |
| 29 | 3.8 | 5.2 | 4.1 | 5.3 | --- | 106 | 102 | 24 | 13 | 11 | 11 | 5.9 |
| 30 | 3.6 | 5.4 | 6.0 | 5.2 | --- | 141 | 106 | 23 | 16 | 11 | 9.7 | 8.3 |
| 31 | 3.8 | --- | 15 | 5.2 | --- | 128 | --- | 24 | --- | 11 | 9.0 | --- |
| TOTAL | 134.9 | 117.0 | 197.1 | 350.7 | 510.3 | 3592 | 2476 | 1514 | 617 | 331.9 | 359.3 | 199.2 |
| MEAN | 4.35 | 3.90 | 6.36 | 11.3 | 18.2 | 116 | 82.5 | 48.8 | 20.6 | 10.7 | 11.6 | 6.64 |
| MAX | 5.9 | 5.4 | 15 | 50 | 99 | 388 | 198 | 163 | 34 | 30 | 29 | 8.8 |
| MIN | 3.6 | 3.0 | 4.1 | 5.2 | 5.1 | 49 | 36 | 23 | 13 | 6.7 | 6.9 | 5.7 |
| CFSM | .12 | .11 | .18 | .32 | .51 | 3.26 | 2.32 | 1.37 | .58 | .30 | .33 | .19 |
| IN. | .14 | .12 | .21 | .37 | .53 | 3.75 | 2.59 | 1.58 | .64 | .35 | .38 | .21 |
| CAL YR 1978 | TOTAL | 9293.5 | MEAN 25.5 | MAX 212 | MIN 3.0 | CFSM .72 | IN 9.71 | | | | | |
| WTR YR 1979 | TOTAL | 10399.4 | MEAN 28.5 | MAX 388 | MIN 3.0 | CFSM .80 | IN 10.87 | | | | | |

05521000 IROQUOIS RIVER AT ROSEBUD, IN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: October 1977 to current year (partial-record station).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM |
|--------------|------|-----------------------------|---|---|--|---|---|---|---|
| OCT 31... | 1540 | 11.5 | 3.7 | 16 | .16 | -- | -- | -- | -- |
| DEC 28... | 0945 | .0 | 4.3 | 32 | .38 | -- | -- | -- | -- |
| MAR 05... | 1445 | -- | 378 | 261 | 266 | 57 | 60 | 64 | 100 |
| APR 24... | 1600 | 14.5 | 58 | 21 | 3.3 | -- | -- | -- | -- |
| JUN 13... | 1450 | -- | 29 | 38 | 3.0 | -- | -- | -- | -- |
| AUG 30... | 1155 | -- | 9.5 | 63 | 1.6 | 98 | 100 | -- | -- |

ILLINOIS RIVER BASIN

05522000 IROQUOIS RIVER NEAR NORTH MARION, IN

LOCATION.--Lat 40°58'12", long 87°06'50", in NE¼NW¼ sec.16, T.29 N., R.6 W., Jasper County, Hydrologic Unit 07120002, on downstream side of county highway bridge, 1.2 miles (1.9 km) upstream from Ryan ditch, 2 miles (3 km) east of North Marion, 3.5 miles (5.6 km) northeast of Rensselaer, and at mile 87.7 (141.1 km).

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.68 ft (197.108 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Water from Oliver ditch, an upstream tributary, can be diverted to Ryan ditch and thus enter the Iroquois River below station.

AVERAGE DISCHARGE.--30 years (1949 to current year), 127 ft³/s (3.597 m³/s), 11.98 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,040 ft³/s (57.8 m³/s) June 10, 1958, gage height, 15.09 ft (4.599 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 420 ft³/s (11.9 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 6 | 0900 | *1820 51.5 | *14.68 4.474 | Apr. 13 | 1800 | 813 23.0 | 10.28 3.133 |
| Mar. 20 | 2100 | 439 12.4 | 6.83 2.082 | Apr. 28 | 1700 | 683 19.3 | 9.30 2.835 |
| Mar. 25 | 1400 | 440 12.5 | 6.85 2.088 | May 4 | 1900 | 671 19.0 | 9.09 2.771 |
| Mar. 31 | 2400 | 674 19.1 | 9.12 2.780 | | | | |

Minimum daily discharge, 8.5 ft³/s (0.24 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1 | 13 | 13 | 25 | 150 | 17 | 230 | 655 | 580 | 142 | 48 | 40 | 46 |
| 2 | 14 | 20 | 23 | 180 | 16 | 383 | 579 | 491 | 136 | 44 | 54 | 42 |
| 3 | 14 | 13 | 36 | 130 | 16 | 529 | 503 | 488 | 116 | 32 | 51 | 38 |
| 4 | 16 | 12 | 49 | 96 | 16 | 1090 | 430 | 645 | 103 | 37 | 42 | 33 |
| 5 | 15 | 13 | 45 | 70 | 16 | 1750 | 389 | 647 | 84 | 45 | 36 | 28 |
| 6 | 17 | 14 | 41 | 56 | 16 | 1800 | 355 | 558 | 81 | 32 | 47 | 22 |
| 7 | 16 | 16 | 38 | 47 | 16 | 1660 | 302 | 451 | 87 | 27 | 70 | 24 |
| 8 | 15 | 15 | 37 | 40 | 16 | 1450 | 275 | 365 | 120 | 31 | 53 | 23 |
| 9 | 12 | 14 | 36 | 33 | 16 | 1300 | 312 | 300 | 241 | 45 | 49 | 21 |
| 10 | 8.5 | 16 | 35 | 27 | 16 | 1120 | 342 | 255 | 175 | 34 | 49 | 20 |
| 11 | 12 | 14 | 42 | 24 | 16 | 945 | 351 | 239 | 126 | 30 | 51 | 18 |
| 12 | 14 | 13 | 37 | 22 | 16 | 777 | 625 | 259 | 86 | 28 | 51 | 17 |
| 13 | 14 | 14 | 36 | 20 | 16 | 615 | 797 | 266 | 93 | 26 | 39 | 19 |
| 14 | 11 | 15 | 35 | 20 | 16 | 517 | 787 | 278 | 145 | 34 | 30 | 17 |
| 15 | 11 | 14 | 39 | 19 | 16 | 425 | 691 | 295 | 139 | 46 | 26 | 15 |
| 16 | 11 | 12 | 39 | 19 | 16 | 355 | 561 | 269 | 113 | 26 | 24 | 13 |
| 17 | 11 | 16 | 34 | 19 | 16 | 315 | 438 | 233 | 91 | 22 | 24 | 15 |
| 18 | 12 | 24 | 33 | 19 | 16 | 301 | 343 | 202 | 88 | 20 | 39 | 15 |
| 19 | 13 | 18 | 36 | 19 | 16 | 332 | 283 | 185 | 115 | 21 | 72 | 16 |
| 20 | 16 | 19 | 36 | 18 | 17 | 419 | 246 | 182 | 103 | 19 | 91 | 15 |
| 21 | 14 | 15 | 32 | 18 | 24 | 426 | 227 | 157 | 113 | 16 | 145 | 16 |
| 22 | 18 | 14 | 32 | 18 | 38 | 368 | 215 | 131 | 87 | 16 | 128 | 16 |
| 23 | 14 | 18 | 31 | 18 | 60 | 327 | 203 | 133 | 74 | 16 | 100 | 17 |
| 24 | 12 | 24 | 29 | 18 | 130 | 364 | 203 | 125 | 61 | 15 | 88 | 17 |
| 25 | 13 | 20 | 27 | 18 | 280 | 434 | 288 | 112 | 60 | 66 | 73 | 13 |
| 26 | 25 | 18 | 26 | 17 | 330 | 398 | 369 | 109 | 51 | 105 | 64 | 13 |
| 27 | 23 | 21 | 25 | 17 | 280 | 329 | 560 | 115 | 45 | 64 | 59 | 13 |
| 28 | 21 | 25 | 24 | 17 | 240 | 288 | 653 | 109 | 45 | 46 | 55 | 14 |
| 29 | 20 | 26 | 23 | 17 | --- | 397 | 663 | 99 | 47 | 34 | 54 | 14 |
| 30 | 17 | 28 | 27 | 17 | --- | 550 | 633 | 94 | 56 | 32 | 56 | 13 |
| 31 | 15 | --- | 100 | 17 | --- | 653 | --- | 100 | --- | 42 | 53 | --- |
| TOTAL | 457.5 | 514 | 1108 | 1220 | 1704 | 20847 | 13278 | 8472 | 3023 | 1099 | 1813 | 603 |
| MEAN | 14.8 | 17.1 | 35.7 | 39.4 | 60.9 | 672 | 443 | 273 | 101 | 35.5 | 58.5 | 20.1 |
| MAX | 25 | 28 | 100 | 180 | 330 | 1800 | 797 | 647 | 241 | 105 | 145 | 46 |
| MIN | 8.5 | 12 | 23 | 17 | 16 | 230 | 203 | 94 | 45 | 15 | 24 | 13 |
| CFSM | .10 | .12 | .25 | .27 | .42 | 4.67 | 3.08 | 1.90 | .70 | .25 | .41 | .14 |
| IN. | .12 | .13 | .29 | .32 | .44 | 5.39 | 3.43 | 2.19 | .78 | .28 | .47 | .16 |

| | | | | | | | |
|-------------|-------|---------|----------|----------|---------|-----------|----------|
| CAL YR 1978 | TOTAL | 42750.4 | MEAN 117 | MAX 968 | MIN 8.5 | CFSM .81 | IN 11.04 |
| WTR YR 1979 | TOTAL | 54138.5 | MEAN 148 | MAX 1800 | MIN 8.5 | CFSM 1.03 | IN 13.99 |

05522500 IROQUOIS RIVER AT RENSSELAER, IN

LOCATION.--Lat 40°56'00", long 87°07'44", in NW¼SE¼ sec.29, T.29 N., R.6 W., Jasper County, Hydrologic Unit 07120002, on right bank 20 ft (6 m) downstream from bridge on State Highway 114, 0.8 mile (1.3 km) east of Rensselaer, 1.5 miles (2.4 km) downstream from Ryan ditch, 5.5 miles (8.8 km) upstream from Slough Creek, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft (195.770 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 8, 1949, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--31 years, 163 ft³/s (4.616 m³/s), 10.90 in/yr (277 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 10, 1958, gage height, 16.54 ft (5.041 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 9, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Mar. 5, gage height, 15.15 ft (4.618 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1 | 18 | 17 | 30 | 205 | 19 | 259 | 741 | 644 | 127 | 50 | 47 | 43 |
| 2 | 17 | 23 | 29 | 200 | 19 | 414 | 633 | 531 | 121 | 46 | 63 | 40 |
| 3 | 16 | 17 | 40 | 150 | 19 | 662 | 536 | 565 | 104 | 36 | 53 | 36 |
| 4 | 20 | 16 | 53 | 105 | 19 | 1620 | 462 | 744 | 92 | 40 | 44 | 32 |
| 5 | 18 | 17 | 46 | 84 | 19 | 2060 | 415 | 717 | 79 | 47 | 39 | 26 |
| 6 | 20 | 17 | 42 | 68 | 19 | 2050 | 358 | 598 | 78 | 36 | 66 | 23 |
| 7 | 19 | 19 | 45 | 55 | 19 | 1970 | 288 | 471 | 81 | 31 | 77 | 28 |
| 8 | 18 | 20 | 43 | 44 | 19 | 1820 | 271 | 355 | 134 | 33 | 56 | 25 |
| 9 | 14 | 18 | 41 | 36 | 19 | 1670 | 336 | 272 | 299 | 47 | 54 | 24 |
| 10 | 13 | 19 | 40 | 31 | 19 | 1490 | 350 | 227 | 204 | 38 | 56 | 22 |
| 11 | 19 | 19 | 42 | 28 | 19 | 1180 | 412 | 218 | 160 | 33 | 74 | 22 |
| 12 | 20 | 17 | 44 | 25 | 19 | 899 | 860 | 246 | 114 | 31 | 59 | 20 |
| 13 | 18 | 18 | 48 | 23 | 19 | 683 | 969 | 260 | 119 | 29 | 46 | 24 |
| 14 | 16 | 20 | 40 | 22 | 19 | 564 | 925 | 277 | 153 | 31 | 34 | 22 |
| 15 | 18 | 19 | 45 | 22 | 19 | 445 | 797 | 294 | 131 | 45 | 29 | 14 |
| 16 | 17 | 17 | 44 | 22 | 19 | 347 | 620 | 255 | 108 | 30 | 26 | 18 |
| 17 | 17 | 20 | 35 | 21 | 19 | 296 | 592 | 213 | 90 | 23 | 29 | 19 |
| 18 | 15 | 28 | 40 | 21 | 19 | 296 | 337 | 182 | 86 | 22 | 66 | 18 |
| 19 | 16 | 24 | 41 | 21 | 19 | 383 | 265 | 166 | 105 | 22 | 85 | 18 |
| 20 | 20 | 24 | 41 | 21 | 19 | 481 | 226 | 161 | 101 | 21 | 106 | 17 |
| 21 | 15 | 21 | 35 | 21 | 30 | 460 | 210 | 136 | 108 | 19 | 144 | 21 |
| 22 | 15 | 18 | 38 | 20 | 43 | 373 | 196 | 116 | 87 | 19 | 108 | 18 |
| 23 | 13 | 23 | 35 | 20 | 86 | 332 | 182 | 118 | 76 | 18 | 87 | 18 |
| 24 | 15 | 31 | 33 | 20 | 220 | 429 | 194 | 109 | 63 | 17 | 77 | 17 |
| 25 | 18 | 28 | 31 | 20 | 342 | 484 | 342 | 100 | 61 | 65 | 65 | 13 |
| 26 | 28 | 25 | 29 | 20 | 380 | 405 | 563 | 97 | 53 | 104 | 59 | 15 |
| 27 | 25 | 27 | 26 | 20 | 334 | 309 | 773 | 102 | 47 | 62 | 55 | 15 |
| 28 | 22 | 29 | 26 | 19 | 267 | 312 | 838 | 94 | 48 | 44 | 53 | 19 |
| 29 | 21 | 23 | 26 | 19 | --- | 514 | 787 | 88 | 49 | 34 | 58 | 15 |
| 30 | 19 | 25 | 30 | 19 | --- | 689 | 729 | 85 | 58 | 36 | 58 | 12 |
| 31 | 18 | --- | 130 | 19 | --- | 797 | --- | 90 | --- | 50 | 50 | --- |
| TOTAL | 558 | 639 | 1268 | 1421 | 2082 | 24693 | 15207 | 8531 | 3136 | 1159 | 1923 | 654 |
| MEAN | 18.0 | 21.3 | 40.9 | 45.8 | 74.4 | 797 | 507 | 275 | 105 | 37.4 | 62.0 | 21.8 |
| MAX | 28 | 31 | 130 | 205 | 380 | 2060 | 969 | 744 | 299 | 104 | 144 | 43 |
| MIN | 13 | 16 | 26 | 19 | 19 | 259 | 182 | 85 | 47 | 17 | 26 | 12 |
| CFSM | .09 | .11 | .20 | .23 | .37 | 3.93 | 2.50 | 1.36 | .52 | .18 | .31 | .11 |
| IN. | .10 | .12 | .23 | .26 | .38 | 4.52 | 2.79 | 1.56 | .57 | .21 | .35 | .12 |

| | | | | | | | |
|-------------|-------|-------|----------|----------|--------|----------|----------|
| CAL YR 1978 | TOTAL | 54545 | MEAN 149 | MAX 1350 | MIN 11 | CFSM .73 | IN 10.00 |
| WTR YR 1979 | TOTAL | 61271 | MEAN 168 | MAX 2060 | MIN 12 | CFSM .83 | IN 11.23 |

05523000 BICE DITCH NEAR SOUTH MARION, IN

LOCATION.--Lat 40°52'00", long 87°05'32", in NE¼NW¼ sec.22, T.28 N., R.6 W., Jasper County, Hydrologic Unit 07120002, on left bank at upstream side of bridge on State Highway 16, 2.3 miles (3.7 km) upstream from mouth, 3 miles (5 km) southeast of South Marion, and 5 miles (8 km) southeast of Rensselaer.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WSP 1508: 1956. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 651.30 ft (198.516 m) National Geodetic Vertical Datum of 1929. 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.

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

AVERAGE DISCHARGE.--30 years (1949 to current year), 16.8 ft³/s (0.476 m³/s), 10.47 in/yr (266 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Mar. 4, 1979, gage height, 11.41 ft (3.478 m); no flow at times during 1952, 1955, and 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 340 ft³/s (9.63 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|--------|------|---|-------------------------|
| Mar. 4 | 1500 | *1080 30.6 | *11.41 3.478 | July 9 | 0400 | 351 9.94 | 6.53 1.990 |

Minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|------|--------|------|--------|-------|-------|-------|-------|-------|
| 1 | .58 | .96 | 1.4 | 23 | 1.1 | 45 | 54 | 45 | 4.7 | 7.5 | 9.9 | 4.3 |
| 2 | .50 | 1.0 | 1.4 | 5.6 | 1.1 | 120 | 53 | 33 | 4.5 | 5.3 | 16 | 3.3 |
| 3 | .68 | .96 | 4.6 | 3.6 | 1.1 | 287 | 43 | 56 | 4.1 | 4.7 | 7.0 | 2.6 |
| 4 | .68 | .96 | 2.4 | 2.3 | 1.1 | 912 | 45 | 44 | 3.8 | 30 | 4.7 | 2.2 |
| 5 | .68 | .96 | 1.4 | 1.9 | 1.1 | 289 | 53 | 30 | 4.0 | 21 | 3.6 | 2.1 |
| 6 | .73 | .96 | 1.3 | 1.7 | 1.0 | 101 | 37 | 21 | 4.9 | 11 | 3.6 | 1.9 |
| 7 | .63 | 1.3 | 1.3 | 1.5 | 1.0 | 72 | 28 | 16 | 4.5 | 8.1 | 3.0 | 1.7 |
| 8 | .58 | 1.1 | 1.2 | 1.4 | 1.0 | 55 | 37 | 16 | 6.8 | 7.3 | 2.5 | 1.5 |
| 9 | .58 | 1.1 | 1.2 | 1.3 | 1.0 | 57 | 55 | 9.9 | 8.7 | 216 | 2.8 | 1.4 |
| 10 | .58 | 1.1 | 1.3 | 1.2 | 1.0 | 49 | 37 | 9.3 | 8.1 | 60 | 2.5 | 1.3 |
| 11 | .73 | 1.1 | 1.4 | 1.2 | .99 | 25 | 130 | 26 | 6.5 | 31 | 3.1 | 1.3 |
| 12 | .78 | 1.1 | 1.3 | 1.1 | .98 | 17 | 243 | 37 | 5.3 | 22 | 2.2 | 1.3 |
| 13 | .73 | 1.2 | 1.3 | 1.1 | .97 | 21 | 110 | 36 | 12 | 21 | 1.9 | 1.3 |
| 14 | .73 | 1.4 | 1.3 | 1.1 | .96 | 26 | 66 | 55 | 16 | 16 | 1.8 | 1.2 |
| 15 | .77 | 1.4 | 1.3 | 1.1 | .96 | 17 | 49 | 96 | 10 | 14 | 1.7 | 1.2 |
| 16 | .78 | 1.2 | 1.3 | 1.1 | .96 | 15 | 36 | 49 | 7.8 | 9.0 | 1.6 | 1.1 |
| 17 | .78 | 1.5 | 1.2 | 1.1 | .96 | 15 | 25 | 29 | 6.3 | 6.3 | 1.7 | 1.1 |
| 18 | .90 | 2.0 | 1.1 | 1.1 | .97 | 22 | 17 | 19 | 9.3 | 4.9 | 5.6 | 1.1 |
| 19 | .96 | 1.3 | 1.0 | 1.1 | .98 | 48 | 14 | 14 | 10 | 4.1 | 5.3 | 1.0 |
| 20 | .96 | 1.1 | 1.3 | 1.1 | 1.0 | 56 | 12 | 11 | 15 | 3.6 | 6.3 | .96 |
| 21 | .90 | 1.1 | 1.2 | 1.1 | 1.1 | 54 | 11 | 8.7 | 21 | 3.1 | 5.3 | 1.0 |
| 22 | .90 | 1.1 | 1.2 | 1.1 | 1.3 | 19 | 9.6 | 7.5 | 12 | 3.0 | 4.1 | 1.0 |
| 23 | .96 | 1.7 | 1.1 | 1.1 | 21 | 44 | 8.7 | 7.0 | 7.5 | 2.6 | 3.4 | .96 |
| 24 | .96 | 1.9 | 1.1 | 1.1 | 25 | 72 | 22 | 6.0 | 5.6 | 2.6 | 3.1 | .96 |
| 25 | 1.3 | 1.3 | 1.0 | 1.1 | 80 | 53 | 53 | 5.6 | 4.5 | 4.3 | 2.5 | .96 |
| 26 | 1.6 | 1.2 | 1.0 | 1.1 | 46 | 32 | 107 | 5.1 | 4.0 | 3.8 | 2.2 | .90 |
| 27 | 1.4 | 1.8 | .95 | 1.1 | 29 | 29 | 88 | 5.1 | 3.8 | 3.0 | 2.2 | .90 |
| 28 | 1.1 | 2.0 | .91 | 1.1 | 31 | 71 | 79 | 4.3 | 3.4 | 2.6 | 11 | .90 |
| 29 | .96 | 1.4 | .88 | 1.1 | --- | 134 | 54 | 4.3 | 3.3 | 2.3 | 32 | .90 |
| 30 | .96 | 1.3 | 1.5 | 1.1 | --- | 83 | 66 | 4.3 | 5.6 | 4.3 | 12 | .90 |
| 31 | .96 | --- | 11 | 1.1 | --- | 83 | --- | 4.7 | --- | 5.3 | 6.5 | --- |
| TOTAL | 26.34 | 38.50 | 51.84 | 66.7 | 254.63 | 2923 | 1642.3 | 714.8 | 223.0 | 539.7 | 171.1 | 43.24 |
| MEAN | .85 | 1.28 | 1.67 | 2.15 | 9.09 | 94.3 | 54.7 | 23.1 | 7.43 | 17.4 | 5.52 | 1.44 |
| MAX | 1.6 | 2.0 | 11 | 23 | 80 | 912 | 243 | 96 | 21 | 216 | 32 | 4.3 |
| MIN | .50 | .96 | .88 | 1.1 | .96 | 15 | 8.7 | 4.3 | 3.3 | 2.3 | 1.6 | .90 |
| CFSM | .04 | .06 | .08 | .10 | .42 | 4.33 | 2.51 | 1.06 | .34 | .80 | .25 | .07 |
| IN. | .04 | .07 | .09 | .11 | .43 | 4.99 | 2.80 | 1.22 | .38 | .92 | .29 | .07 |
| CAL YR 1978 | TOTAL | 5809.22 | MEAN | 15.9 | MAX | 568 | MIN | .47 | CFSM | .73 | IN | 9.91 |
| WTR YR 1979 | TOTAL | 6695.15 | MEAN | 18.3 | MAX | 912 | MIN | .50 | CFSM | .84 | IN | 11.42 |

05523500 SLOUGH CREEK NEAR COLLEGEVILLE, IN

LOCATION.--Lat 40°53'30", long 87°09'17", in SE¼NE¼ sec.12, T.28 N., R.7 W., Jasper County, Hydrologic Unit 07120002, on right bank at downstream side of bridge on State Highway 53, 1.5 miles (2.4 km) south of Collegeville, 2.2 miles (3.5 km) downstream from Bice ditch, 2.9 miles (4.7 km) upstream from Carpenter Creek, and 3.2 miles (5.1 km) upstream from mouth.

DRAINAGE AREA.--83.7 mi² (216.8 km²).

PERIOD OF RECORD.--July 1948 to December 1951, October 1952 to current year. Prior to October 1965, published as Big Slough Creek near Collegeville.

REVISED RECORDS.--WSP 1558: 1955(M), 1956(M), 1957. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 634.75 ft (193.472 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1955, nonrecording gage and Aug. 5, 1955, to Oct. 8, 1958, water-stage recorder at same site at datum 3.00 ft (0.914 m) higher.

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

AVERAGE DISCHARGE.--30 years (1948-51, 1952 to current year), 69.8 ft³/s (1.977 m³/s), 11.32 in/yr (287 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,390 ft³/s (67.7 m³/s) Dec. 22, 1967, gage height, 16.88 ft (5.145 m); maximum gage height, 17.19 ft (5.240 m) Mar. 4, 1979; minimum daily, 0.7 ft³/s (0.020 m³/s) Dec. 20-26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,420 ft³/s (40.2 m³/s) Mar. 4, gage height, 17.19 ft (5.240 m); minimum daily, 3.2 ft³/s (0.091 m³/s) Sept. 26-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|--------|------|------|------|------|-------|-------|-------|
| 1 | 4.4 | 5.4 | 9.3 | 164 | 5.3 | 248 | 117 | 195 | 38 | 19 | 20 | 15 |
| 2 | 4.2 | 5.4 | 9.0 | 88 | 5.3 | 381 | 171 | 165 | 37 | 18 | 39 | 12 |
| 3 | 4.8 | 5.4 | 14 | 58 | 5.2 | 465 | 167 | 206 | 33 | 17 | 22 | 9.9 |
| 4 | 5.0 | 5.4 | 24 | 37 | 5.2 | 1240 | 149 | 113 | 30 | 20 | 17 | 8.5 |
| 5 | 4.8 | 5.2 | 21 | 25 | 5.2 | 1220 | 189 | 90 | 28 | 36 | 14 | 8.0 |
| 6 | 5.0 | 5.2 | 15 | 17 | 5.2 | 525 | 126 | 60 | 28 | 27 | 13 | 7.3 |
| 7 | 4.8 | 5.8 | 13 | 12 | 5.2 | 280 | 93 | 45 | 28 | 20 | 12 | 6.5 |
| 8 | 4.6 | 6.3 | 11 | 8.2 | 5.2 | 220 | 97 | 36 | 31 | 18 | 11 | 6.1 |
| 9 | 6.3 | 5.8 | 11 | 7.5 | 5.1 | 270 | 133 | 33 | 41 | 195 | 14 | 5.6 |
| 10 | 6.3 | 5.8 | 11 | 6.9 | 5.1 | 250 | 83 | 34 | 41 | 152 | 12 | 5.4 |
| 11 | 6.3 | 5.8 | 12 | 6.5 | 5.1 | 150 | 227 | 79 | 38 | 74 | 13 | 5.2 |
| 12 | 6.3 | 5.8 | 12 | 6.2 | 5.1 | 94 | 582 | 162 | 31 | 49 | 11 | 5.2 |
| 13 | 5.8 | 6.3 | 11 | 5.9 | 5.1 | 71 | 365 | 168 | 41 | 41 | 9.6 | 5.0 |
| 14 | 5.4 | 7.0 | 11 | 5.7 | 5.0 | 128 | 183 | 183 | 57 | 34 | 8.8 | 5.0 |
| 15 | 5.4 | 10 | 11 | 5.6 | 5.0 | 108 | 148 | 316 | 44 | 32 | 8.3 | 4.8 |
| 16 | 5.2 | 13 | 12 | 5.6 | 5.0 | 95 | 176 | 211 | 36 | 23 | 7.8 | 4.6 |
| 17 | 5.0 | 11 | 11 | 5.6 | 5.0 | 77 | 97 | 143 | 30 | 18 | 8.0 | 4.6 |
| 18 | 5.0 | 11 | 10 | 5.6 | 5.0 | 83 | 124 | 105 | 30 | 17 | 13 | 4.4 |
| 19 | 5.0 | 11 | 9.8 | 5.6 | 4.9 | 114 | 80 | 83 | 44 | 13 | 18 | 4.2 |
| 20 | 5.0 | 9.9 | 9.4 | 5.5 | 5.1 | 122 | 60 | 68 | 56 | 11 | 17 | 4.0 |
| 21 | 4.8 | 9.0 | 11 | 5.5 | 5.6 | 86 | 54 | 61 | 90 | 10 | 18 | 3.5 |
| 22 | 7.5 | 9.0 | 11 | 5.4 | 20 | 87 | 48 | 56 | 54 | 9.9 | 15 | 3.5 |
| 23 | 8.3 | 9.0 | 10 | 5.4 | 89 | 127 | 48 | 52 | 40 | 9.3 | 15 | 3.7 |
| 24 | 6.5 | 9.9 | 9.8 | 5.4 | 237 | 207 | 81 | 46 | 32 | 9.9 | 13 | 3.5 |
| 25 | 6.3 | 9.9 | 9.5 | 5.4 | 268 | 171 | 174 | 41 | 26 | 20 | 10 | 3.5 |
| 26 | 7.3 | 9.0 | 9.1 | 5.4 | 216 | 110 | 284 | 38 | 21 | 17 | 9.0 | 3.2 |
| 27 | 7.3 | 9.3 | 8.8 | 5.4 | 190 | 103 | 285 | 38 | 18 | 11 | 9.0 | 3.2 |
| 28 | 6.8 | 10 | 8.4 | 5.4 | 178 | 139 | 255 | 37 | 18 | 10 | 9.3 | 3.2 |
| 29 | 6.1 | 9.9 | 8.0 | 5.3 | --- | 383 | 128 | 35 | 17 | 9.3 | 63 | 4.0 |
| 30 | 5.8 | 9.3 | 17 | 5.3 | --- | 256 | 269 | 33 | 18 | 9.9 | 39 | 3.5 |
| 31 | 5.8 | --- | 43 | 5.3 | --- | 167 | --- | 34 | --- | 23 | 22 | --- |
| TOTAL | 177.1 | 240.8 | 393.1 | 540.6 | 1305.9 | 7977 | 4993 | 2966 | 1076 | 973.3 | 510.8 | 166.1 |
| MEAN | 5.71 | 8.03 | 12.7 | 17.4 | 46.6 | 257 | 166 | 95.7 | 35.9 | 31.4 | 16.5 | 5.54 |
| MAX | 8.3 | 13 | 43 | 164 | 268 | 1240 | 582 | 316 | 90 | 195 | 63 | 15 |
| MIN | 4.2 | 5.2 | 8.0 | 5.3 | 4.9 | 71 | 48 | 33 | 17 | 9.3 | 7.8 | 3.2 |
| CFSM | .07 | .10 | .15 | .21 | .56 | 3.07 | 1.98 | 1.14 | .43 | .38 | .20 | .07 |
| IN. | .08 | .11 | .17 | .24 | .58 | 3.55 | 2.22 | 1.32 | .48 | .43 | .23 | .07 |
| CAL YR 1978 | TOTAL | 20202.3 | MEAN | 55.3 | MAX | 690 | MIN | 2.9 | CFSM | .66 | IN | 8.98 |
| WTR YR 1979 | TOTAL | 21319.7 | MEAN | 58.4 | MAX | 1240 | MIN | 3.2 | CFSM | .70 | IN | 9.48 |

05524000 CARPENTER CREEK AT EGYPT, IN

LOCATION.--Lat 40°51'58", long 87°12'20", in SE¼SW¼ sec.15, T.28 N., R.7 W., Jasper County, Hydrologic Unit 07120002, on left bank at downstream side of bridge on State Highway 16, 0.5 mile (0.8 km) north of Egypt, 4 miles (6 km) southwest of Collegeville, and at mile 4.0 (6.4 km).

DRAINAGE AREA.--44.8 mi² (116.0 km²).

PERIOD OF RECORD.--July 1948 to December 1951, October 1952 to current year.

REVISED RECORDS.--WSP 1175: 1949(M). WSP 1558: 1955-57. WSP 1728: 1951(M). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 641.79 ft (195.618 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods and period of no gage-height record Feb. 22 to Apr. 6, which are fair.

AVERAGE DISCHARGE.--30 years, 37.8 ft³/s (1.070 m³/s), 11.46 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,720 ft³/s (105 m³/s) June 10, 1958, gage height, 11.66 ft (3.554 m); no flow at times during 1953, 1955, 1956, 1959, 1963-66, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|---------|---|-------------------------|--------|------|---|-------------------------|
| Mar. 4 | unknown | *1990 56.3 | unknown | July 9 | 1100 | 983 27.8 | 10.19 3.106 |

Minimum daily discharge, 0.95 ft³/s (0.027 m³/s) Oct. 2.

NOTE.--No gage-height record Feb. 22 to Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|-------|-------|-------|------|------|------|-------|--------|------|-------|
| 1 | .99 | 1.7 | 4.0 | 128 | 1.9 | 150 | 140 | 97 | 12 | 35 | 19 | 13 |
| 2 | .95 | 1.7 | 3.8 | 57 | 1.9 | 300 | 114 | 77 | 11 | 18 | 54 | 13 |
| 3 | 1.1 | 1.6 | 8.9 | 37 | 1.9 | 700 | 100 | 110 | 11 | 12 | 26 | 13 |
| 4 | 1.5 | 1.6 | 25 | 20 | 1.9 | 1800 | 90 | 97 | 10 | 223 | 17 | 13 |
| 5 | 1.3 | 1.6 | 15 | 12 | 1.9 | 340 | 100 | 73 | 9.7 | 345 | 13 | 12 |
| 6 | 1.4 | 1.6 | 10 | 7.0 | 1.8 | 210 | 80 | 58 | 10 | 120 | 12 | 11 |
| 7 | 1.3 | 2.1 | 5.0 | 4.5 | 1.8 | 180 | 57 | 46 | 9.2 | 63 | 12 | 10 |
| 8 | 1.1 | 2.7 | 4.5 | 3.1 | 1.8 | 150 | 62 | 37 | 178 | 51 | 12 | 9.3 |
| 9 | 1.1 | 2.4 | 4.3 | 2.8 | 1.8 | 120 | 90 | 31 | 98 | 661 | 12 | 8.8 |
| 10 | .97 | 2.3 | 4.4 | 2.5 | 1.8 | 90 | 75 | 27 | 61 | 239 | 12 | 8.6 |
| 11 | 1.2 | 2.2 | 4.8 | 2.3 | 1.7 | 60 | 175 | 38 | 43 | 96 | 12 | 8.3 |
| 12 | 1.3 | 2.2 | 4.7 | 2.2 | 1.7 | 39 | 487 | 45 | 30 | 57 | 12 | 8.1 |
| 13 | 1.2 | 2.1 | 4.5 | 2.2 | 1.7 | 42 | 347 | 51 | 33 | 53 | 12 | 7.8 |
| 14 | 1.1 | 2.7 | 4.4 | 2.1 | 1.7 | 50 | 234 | 72 | 51 | 49 | 12 | 7.3 |
| 15 | 1.2 | 3.3 | 4.5 | 2.1 | 1.7 | 39 | 156 | 156 | 36 | 38 | 12 | 6.7 |
| 16 | 1.2 | 2.8 | 4.7 | 2.1 | 1.7 | 33 | 110 | 93 | 27 | 27 | 11 | 6.4 |
| 17 | 1.3 | 3.2 | 4.4 | 2.1 | 1.7 | 43 | 82 | 62 | 23 | 20 | 11 | 6.4 |
| 18 | 1.2 | 4.6 | 4.1 | 2.1 | 1.7 | 56 | 63 | 47 | 21 | 16 | 13 | 6.3 |
| 19 | 1.2 | 3.8 | 3.9 | 2.1 | 1.8 | 76 | 50 | 38 | 20 | 14 | 15 | 5.8 |
| 20 | 1.3 | 3.3 | 3.8 | 2.1 | 1.8 | 100 | 42 | 31 | 28 | 12 | 15 | 5.5 |
| 21 | 1.2 | 2.8 | 4.4 | 2.1 | 2.0 | 80 | 36 | 25 | 39 | 10 | 14 | 5.4 |
| 22 | 1.1 | 2.7 | 4.1 | 2.1 | 2.3 | 60 | 31 | 21 | 20 | 9.2 | 12 | 5.0 |
| 23 | 1.0 | 3.3 | 3.9 | 2.1 | 25 | 100 | 27 | 20 | 14 | 8.1 | 12 | 4.6 |
| 24 | 1.1 | 4.3 | 3.8 | 2.0 | 60 | 148 | 42 | 18 | 12 | 7.4 | 12 | 4.6 |
| 25 | 1.2 | 3.7 | 3.6 | 2.0 | 155 | 118 | 87 | 17 | 9.9 | 12 | 12 | 4.5 |
| 26 | 3.7 | 3.4 | 3.4 | 2.0 | 110 | 97 | 206 | 15 | 9.0 | 11 | 12 | 4.3 |
| 27 | 3.1 | 3.8 | 3.3 | 2.0 | 76 | 78 | 233 | 15 | 8.5 | 8.1 | 12 | 4.2 |
| 28 | 2.4 | 4.5 | 3.2 | 2.0 | 70 | 120 | 197 | 13 | 8.1 | 7.8 | 18 | 4.1 |
| 29 | 2.1 | 4.1 | 3.1 | 2.0 | --- | 240 | 136 | 12 | 8.1 | 7.8 | 36 | 4.0 |
| 30 | 1.9 | 4.2 | 3.9 | 2.0 | --- | 210 | 134 | 12 | 23 | 9.2 | 19 | 3.7 |
| 31 | 1.7 | --- | 19 | 1.9 | --- | 170 | --- | 12 | --- | 11 | 14 | --- |
| TOTAL | 44.41 | 86.3 | 184.4 | 317.5 | 536.0 | 5999 | 3783 | 1466 | 873.5 | 2250.6 | 487 | 224.7 |
| MEAN | 1.43 | 2.88 | 5.95 | 10.2 | 19.1 | 194 | 126 | 47.3 | 29.1 | 72.6 | 15.7 | 7.49 |
| MAX | 3.7 | 4.6 | 25 | 128 | 155 | 1800 | 487 | 156 | 178 | 661 | 54 | 13 |
| MIN | .95 | 1.6 | 3.1 | 1.9 | 1.7 | 33 | 27 | 12 | 8.1 | 7.4 | 11 | 3.7 |
| CFSM | .03 | .06 | .13 | .23 | .43 | 4.33 | 2.81 | 1.06 | .65 | 1.62 | .35 | .17 |
| IN. | .04 | .07 | .15 | .26 | .45 | 4.98 | 3.14 | 1.22 | .73 | 1.87 | .40 | .19 |
| CAL YR 1978 | TOTAL | 13966.84 | MEAN | 38.3 | MAX | 1030 | MIN | .86 | CFSM | .86 | IN | 11.60 |
| WTR YR 1979 | TOTAL | 16252.41 | MEAN | 44.5 | MAX | 1800 | MIN | .95 | CFSM | .99 | IN | 13.50 |

05524500 IROQUOIS RIVER NEAR FORESMAN, IN

LOCATION.--Lat 40°52'14", long 87°18'24", in NE¼SE¼ sec.15, T.28 N., R.8 W., Newton County, Hydrologic Unit 07120002, on right bank at downstream side of bridge on State Highway 55, 0.2 mile (0.3 km) north of intersection of State Highways 16 and 55, 0.5 mile (0.8 km) downstream from Mosquito Creek, 0.6 mile (1.0 km) west of Foresman, 3 miles (4 km) east of Brook, and at mile 72.7 (117.0 km).

DRAINAGE AREA.--449 mi² (1,163 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 624.00 ft (190.195 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 7, 1955, nonrecording gage 2.5 miles (4.0 km) upstream at datum 3.54 ft (1.079 m) higher.

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

AVERAGE DISCHARGE.--30 years, 370 ft³/s (10.48 m³/s), 11.19 in/yr (284 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,710 ft³/s (133 m³/s) Mar. 5, gage height, 21.74 ft (6.626 m); minimum daily, 31 ft³/s (0.88 m³/s) Oct. 1.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT DISCHARGE: July 1968 to September 1978 (partial-record station).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|----------|----------|-------|------|------|------|------|
| 1 | 31 | 54 | 43 | 210 | 40 | 550 | 1480 | 1540 | 218 | 144 | 122 | 106 |
| 2 | 33 | 53 | 46 | 623 | 39 | 1120 | 1450 | 1420 | 246 | 134 | 221 | 92 |
| 3 | 34 | 57 | 46 | 400 | 39 | 1390 | 1380 | 1350 | 210 | 101 | 191 | 84 |
| 4 | 34 | 54 | 67 | 280 | 39 | 3240 | 1270 | 1360 | 179 | 421 | 135 | 76 |
| 5 | 36 | 52 | 91 | 215 | 39 | 4570 | 1160 | 1330 | 159 | 832 | 110 | 70 |
| 6 | 38 | 52 | 78 | 170 | 39 | 4590 | 1050 | 1270 | 147 | 663 | 103 | 63 |
| 7 | 37 | 54 | 76 | 130 | 39 | 4230 | 899 | 1160 | 148 | 351 | 137 | 62 |
| 8 | 35 | 54 | 81 | 100 | 39 | 3720 | 750 | 1010 | 249 | 200 | 114 | 61 |
| 9 | 35 | 52 | 78 | 78 | 39 | 3280 | 719 | 821 | 503 | 1070 | 102 | 58 |
| 10 | 33 | 50 | 77 | 65 | 39 | 2940 | 738 | 621 | 509 | 1230 | 104 | 56 |
| 11 | 34 | 49 | 84 | 58 | 39 | 2570 | 802 | 510 | 403 | 928 | 120 | 56 |
| 12 | 38 | 48 | 86 | 52 | 39 | 2110 | 1440 | 584 | 307 | 518 | 121 | 57 |
| 13 | 38 | 46 | 82 | 47 | 39 | 1750 | 1910 | 641 | 280 | 304 | 96 | 57 |
| 14 | 37 | 47 | 83 | 46 | 39 | 1540 | 2050 | 682 | 393 | 268 | 80 | 59 |
| 15 | 36 | 47 | 73 | 45 | 39 | 1340 | 1910 | 864 | 370 | 238 | 68 | 55 |
| 16 | 37 | 46 | 75 | 45 | 39 | 1120 | 1700 | 906 | 298 | 186 | 62 | 48 |
| 17 | 37 | 44 | 75 | 45 | 39 | 913 | 1490 | 813 | 247 | 132 | 61 | 52 |
| 18 | 36 | 49 | 64 | 44 | 39 | 758 | 1260 | 644 | 213 | 107 | 88 | 50 |
| 19 | 37 | 52 | 64 | 44 | 39 | 790 | 1030 | 482 | 257 | 92 | 170 | 48 |
| 20 | 39 | 48 | 66 | 44 | 40 | 973 | 966 | 396 | 258 | 81 | 189 | 47 |
| 21 | 40 | 43 | 67 | 43 | 52 | 1050 | 575 | 342 | 314 | 71 | 272 | 47 |
| 22 | 38 | 42 | 62 | 43 | 70 | 1020 | 456 | 295 | 275 | 62 | 258 | 50 |
| 23 | 38 | 39 | 61 | 43 | 90 | 936 | 400 | 278 | 200 | 56 | 192 | 52 |
| 24 | 37 | 45 | 67 | 42 | 200 | 929 | 423 | 261 | 157 | 53 | 182 | 50 |
| 25 | 39 | 48 | 60 | 42 | 500 | 1020 | 705 | 240 | 136 | 122 | 147 | 48 |
| 26 | 56 | 45 | 56 | 42 | 610 | 1010 | 1030 | 227 | 118 | 241 | 125 | 45 |
| 27 | 67 | 43 | 53 | 41 | 800 | 918 | 1390 | 229 | 101 | 168 | 119 | 46 |
| 28 | 62 | 47 | 49 | 41 | 670 | 819 | 1570 | 209 | 98 | 116 | 112 | 47 |
| 29 | 58 | 48 | 50 | 41 | --- | 1020 | 1620 | 183 | 95 | 93 | 164 | 49 |
| 30 | 56 | 43 | 49 | 40 | --- | 1270 | 1600 | 174 | 116 | 80 | 177 | 47 |
| 31 | 55 | --- | 59 | 40 | --- | 1420 | --- | 173 | --- | 101 | 132 | --- |
| TOTAL | 1261 | 1451 | 2068 | 3199 | 3774 | 54906 | 35223 | 21015 | 7204 | 9163 | 4274 | 1738 |
| MEAN | 40.7 | 48.4 | 66.7 | 103 | 135 | 1771 | 1174 | 678 | 240 | 296 | 138 | 57.9 |
| MAX | 67 | 57 | 91 | 623 | 800 | 4590 | 2050 | 1540 | 509 | 1230 | 272 | 106 |
| MIN | 31 | 39 | 43 | 40 | 39 | 550 | 400 | 173 | 95 | 53 | 61 | 45 |
| CFSM | .09 | .11 | .15 | .23 | .30 | 3.94 | 2.62 | 1.51 | .54 | .66 | .31 | .13 |
| IN. | .10 | .12 | .17 | .27 | .31 | 4.55 | 2.92 | 1.74 | .60 | .76 | .35 | .14 |
| CAL YR 1978 | TOTAL | 127827 | MEAN 350 | MAX 3160 | MIN 27 | CFSM .78 | IN 10.59 | | | | | |
| WTR YR 1979 | TOTAL | 145276 | MEAN 398 | MAX 4590 | MIN 31 | CFSM .89 | IN 12.04 | | | | | |

ILLINOIS RIVER BASIN

05525000 IROQUOIS RIVER AT IROQUOIS, IL

LOCATION.--Lat 40°49'25", long 87°34'55", in SE¼ sec.15, T.27 N., R.11 W., Iroquois County, Illinois, Hydrologic Unit 07120002, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft (152 m) upstream from Penn Central bridge, 4.5 mi (7.2 km) downstream from Indiana-Illinois State line, and at mile 50.4 (81.1 km).

DRAINAGE AREA.--686 mi² (1,777 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.34 ft (187.251 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods and those for period of no gage-height record, Jan. 2 to Feb. 1, which are poor.

AVERAGE DISCHARGE.--35 years, 536 ft³/s (15.18 m³/s), 10.61 in/yr (269 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (295 m³/s) June 13, 1958, gage height, 26.31 ft (8.019 m); minimum, 5.2 ft³/s (0.15 m³/s) Sept. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,910 ft³/s (196 m³/s) Mar. 5, gage height, 23.81 ft (7.257 m); minimum daily, 26 ft³/s (0.74 m³/s) Oct. 2, 3.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1978 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|----------|----------|--------|----------|----------|-------|-------|-------|------|------|
| 1 | 28 | 36 | 49 | 180 | 59 | 500 | 2000 | 2300 | 276 | 178 | 196 | 203 |
| 2 | 27 | 35 | 49 | 130 | 59 | 1100 | 2020 | 2140 | 308 | 193 | 296 | 160 |
| 3 | 28 | 34 | 55 | 100 | 59 | 1600 | 1970 | 2070 | 317 | 170 | 362 | 133 |
| 4 | 30 | 35 | 67 | 80 | 59 | 4500 | 1840 | 2030 | 286 | 1080 | 284 | 115 |
| 5 | 30 | 36 | 70 | 70 | 57 | 6770 | 1680 | 1930 | 255 | 1920 | 206 | 100 |
| 6 | 31 | 35 | 80 | 67 | 55 | 6460 | 1510 | 1810 | 232 | 1550 | 227 | 89 |
| 7 | 32 | 36 | 77 | 65 | 53 | 6090 | 1330 | 1660 | 217 | 1060 | 203 | 77 |
| 8 | 32 | 39 | 85 | 65 | 50 | 5500 | 1150 | 1470 | 307 | 654 | 196 | 69 |
| 9 | 31 | 40 | 78 | 65 | 50 | 4890 | 1020 | 1250 | 569 | 1490 | 171 | 65 |
| 10 | 29 | 41 | 70 | 65 | 50 | 4330 | 993 | 1020 | 739 | 1960 | 157 | 61 |
| 11 | 28 | 40 | 77 | 65 | 50 | 3930 | 1060 | 825 | 684 | 1700 | 207 | 58 |
| 12 | 27 | 39 | 84 | 65 | 50 | 3370 | 2130 | 775 | 547 | 1210 | 216 | 55 |
| 13 | 29 | 39 | 97 | 65 | 50 | 2790 | 2720 | 828 | 466 | 734 | 179 | 55 |
| 14 | 32 | 39 | 90 | 65 | 50 | 2420 | 2990 | 878 | 596 | 546 | 137 | 53 |
| 15 | 31 | 40 | 85 | 66 | 50 | 2080 | 2970 | 1140 | 626 | 465 | 105 | 51 |
| 16 | 29 | 41 | 83 | 70 | 50 | 1750 | 2740 | 1230 | 534 | 396 | 84 | 49 |
| 17 | 28 | 44 | 81 | 70 | 50 | 1400 | 2410 | 1180 | 439 | 309 | 75 | 42 |
| 18 | 29 | 45 | 80 | 70 | 50 | 1150 | 2040 | 1030 | 371 | 234 | 150 | 42 |
| 19 | 28 | 47 | 76 | 67 | 50 | 1180 | 1650 | 844 | 371 | 191 | 434 | 42 |
| 20 | 28 | 51 | 77 | 65 | 55 | 1450 | 1310 | 689 | 396 | 162 | 762 | 39 |
| 21 | 29 | 49 | 76 | 65 | 65 | 1500 | 1010 | 589 | 447 | 139 | 802 | 37 |
| 22 | 31 | 45 | 75 | 65 | 90 | 1460 | 790 | 510 | 449 | 122 | 666 | 36 |
| 23 | 31 | 46 | 66 | 65 | 130 | 1370 | 673 | 455 | 367 | 105 | 530 | 38 |
| 24 | 29 | 47 | 65 | 65 | 175 | 1300 | 709 | 425 | 284 | 100 | 515 | 37 |
| 25 | 29 | 49 | 63 | 65 | 250 | 1330 | 1050 | 394 | 229 | 304 | 465 | 37 |
| 26 | 31 | 52 | 60 | 65 | 280 | 1330 | 1580 | 359 | 197 | 562 | 346 | 34 |
| 27 | 37 | 54 | 58 | 63 | 310 | 1270 | 2090 | 343 | 170 | 500 | 286 | 31 |
| 28 | 46 | 53 | 56 | 60 | 350 | 1200 | 2310 | 331 | 151 | 371 | 260 | 31 |
| 29 | 46 | 53 | 58 | 60 | --- | 1470 | 2400 | 308 | 146 | 266 | 253 | 31 |
| 30 | 41 | 52 | 61 | 60 | --- | 1680 | 2400 | 285 | 156 | 203 | 300 | 34 |
| 31 | 38 | --- | 106 | 60 | --- | 1880 | --- | 271 | --- | 185 | 266 | --- |
| TOTAL | 975 | 1292 | 2254 | 2248 | 2706 | 79050 | 52545 | 31369 | 11132 | 19059 | 9336 | 1904 |
| MEAN | 31.5 | 43.1 | 72.7 | 72.5 | 96.6 | 2550 | 1752 | 1012 | 371 | 615 | 301 | 63.5 |
| MAX | 46 | 54 | 106 | 180 | 350 | 6770 | 2990 | 2300 | 739 | 1960 | 802 | 203 |
| MIN | 27 | 34 | 49 | 60 | 50 | 500 | 673 | 271 | 146 | 100 | 75 | 31 |
| CFSM | .05 | .06 | .11 | .11 | .14 | 3.72 | 2.55 | 1.48 | .54 | .90 | .44 | .09 |
| IN. | .05 | .07 | .12 | .12 | .15 | 4.29 | 2.85 | 1.70 | .60 | 1.03 | .51 | .10 |
| CAL YR 1978 | TOTAL | 170760 | MEAN 468 | MAX 4270 | MIN 26 | CFSM .68 | IN 9.26 | | | | | |
| WTR YR 1979 | TOTAL | 213870 | MEAN 586 | MAX 6770 | MIN 27 | CFSM .85 | IN 11.60 | | | | | |

05525500 SUGAR CREEK AT MILFORD, IL

LOCATION.--Lat 40°37'50", long 87°43'25", in N $\frac{1}{4}$ sec.16, T.25 N., R.12 W., Iroquois County, Illinois, Hydrologic Unit 07120002, on right bank at downstream side of highway bridge, 200 ft (61 m) downstream from Mud Creek, 1 mi (2 km) west of Milford, and at mile 23.9 (38.5 km).

DRAINAGE AREA.--446 mi² (1,155 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.00 ft (189.586 m) National Geodetic Vertical Datum of 1929. Prior to July 23, 1970, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods and those for period of no gage-height record, Jan. 3 to Mar. 3, which are poor.

AVERAGE DISCHARGE.--31 years, 351 ft³/s (9.940 m³/s), 10.69 in/yr (272 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft³/s (649 m³/s) Feb. 21, 1951, gage height, 20.90 ft (6.370 m), from rating curve extended above 8,200 ft³/s (232 m³/s); maximum gage height, 23.74 ft (7.236 m) Feb. 10, 1959, ice jam; minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 1, 2, 7, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) | Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|---------|------|---|-------------------------|---------|------|---|-------------------------|
| Mar. 5 | 0030 | *12000 340 | a*23.33 7.111 | Apr. 27 | 0815 | 3030 85.8 | 14.82 4.517 |
| Mar. 29 | 2015 | 3590 102 | 15.58 4.749 | July 5 | 1215 | 3000 85.0 | 14.78 4.505 |
| Apr. 12 | 1900 | 6520 185 | 18.60 5.669 | Aug. 20 | 2400 | 2520 71.4 | 13.58 4.139 |

Minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Oct. 1, 2, 3.

aIce jam.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1978 to current year (See WRD for Illinois).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|------|-------|-------|-------|------|-------|-------|------|
| 1 | 9.2 | 15 | 23 | 120 | 25 | 350 | 2250 | 1300 | 172 | 122 | 162 | 172 |
| 2 | 9.1 | 15 | 21 | 80 | 25 | 700 | 1760 | 1040 | 155 | 90 | 878 | 144 |
| 3 | 12 | 17 | 36 | 60 | 25 | 1600 | 1490 | 1140 | 134 | 72 | 788 | 124 |
| 4 | 13 | 18 | 66 | 45 | 25 | 6000 | 1280 | 1380 | 124 | 1120 | 375 | 106 |
| 5 | 12 | 17 | 46 | 35 | 25 | 10000 | 1260 | 1170 | 110 | 2800 | 194 | 93 |
| 6 | 11 | 19 | 36 | 32 | 25 | 4400 | 1170 | 943 | 112 | 1480 | 223 | 83 |
| 7 | 10 | 18 | 33 | 30 | 24 | 2600 | 902 | 754 | 107 | 633 | 177 | 72 |
| 8 | 9.9 | 19 | 40 | 30 | 23 | 2000 | 792 | 615 | 1550 | 404 | 116 | 62 |
| 9 | 9.7 | 19 | 35 | 30 | 22 | 1800 | 906 | 505 | 1600 | 812 | 93 | 56 |
| 10 | 11 | 18 | 30 | 30 | 22 | 1650 | 869 | 432 | 626 | 459 | 80 | 53 |
| 11 | 12 | 17 | 35 | 30 | 22 | 1350 | 1240 | 394 | 422 | 258 | 76 | 46 |
| 12 | 13 | 17 | 40 | 30 | 22 | 1000 | 5230 | 358 | 275 | 196 | 66 | 44 |
| 13 | 12 | 19 | 43 | 30 | 22 | 784 | 5590 | 336 | 217 | 217 | 56 | 40 |
| 14 | 13 | 24 | 38 | 30 | 22 | 1010 | 3760 | 326 | 205 | 410 | 50 | 36 |
| 15 | 12 | 24 | 42 | 30 | 22 | 844 | 2540 | 530 | 170 | 1580 | 46 | 35 |
| 16 | 12 | 23 | 38 | 30 | 22 | 639 | 1800 | 584 | 147 | 1270 | 39 | 32 |
| 17 | 12 | 27 | 33 | 29 | 22 | 528 | 1290 | 440 | 134 | 782 | 39 | 30 |
| 18 | 12 | 31 | 33 | 29 | 22 | 532 | 969 | 371 | 122 | 412 | 93 | 29 |
| 19 | 13 | 26 | 32 | 29 | 22 | 1020 | 771 | 330 | 136 | 243 | 588 | 27 |
| 20 | 14 | 21 | 32 | 29 | 25 | 1790 | 642 | 288 | 124 | 174 | 2090 | 25 |
| 21 | 13 | 19 | 31 | 29 | 30 | 1730 | 541 | 243 | 131 | 139 | 2440 | 24 |
| 22 | 13 | 17 | 28 | 29 | 40 | 1380 | 455 | 206 | 124 | 119 | 2050 | 22 |
| 23 | 13 | 22 | 29 | 29 | 60 | 1070 | 400 | 196 | 103 | 100 | 1470 | 20 |
| 24 | 11 | 28 | 30 | 28 | 80 | 1080 | 630 | 182 | 91 | 93 | 1980 | 19 |
| 25 | 14 | 26 | 28 | 28 | 120 | 1340 | 1580 | 167 | 80 | 124 | 1990 | 17 |
| 26 | 19 | 24 | 25 | 27 | 140 | 1180 | 2290 | 155 | 78 | 342 | 1230 | 17 |
| 27 | 22 | 26 | 16 | 25 | 150 | 889 | 2940 | 155 | 79 | 394 | 668 | 17 |
| 28 | 18 | 27 | 25 | 25 | 200 | 1130 | 2590 | 133 | 67 | 244 | 426 | 18 |
| 29 | 15 | 25 | 24 | 25 | --- | 2960 | 2070 | 128 | 79 | 157 | 515 | 17 |
| 30 | 16 | 25 | 28 | 25 | --- | 3270 | 1630 | 129 | 136 | 118 | 352 | 15 |
| 31 | 15 | --- | 48 | 25 | --- | 2730 | --- | 122 | --- | 133 | 226 | --- |
| TOTAL | 400.9 | 643 | 1044 | 1083 | 1284 | 59356 | 51637 | 15052 | 7610 | 15497 | 19576 | 1495 |
| MEAN | 12.9 | 21.4 | 33.7 | 34.9 | 45.9 | 1915 | 1721 | 486 | 254 | 500 | 631 | 49.8 |
| MAX | 22 | 31 | 66 | 120 | 200 | 10000 | 5590 | 1380 | 1600 | 2800 | 2440 | 172 |
| MIN | 9.1 | 15 | 16 | 25 | 22 | 350 | 400 | 122 | 67 | 72 | 39 | 15 |
| CFSM | .03 | .05 | .08 | .08 | .10 | 4.29 | 3.86 | 1.09 | .57 | 1.12 | 1.42 | .11 |
| IN. | .03 | .05 | .09 | .09 | .11 | 4.95 | 4.31 | 1.26 | .63 | 1.29 | 1.63 | .12 |

CAL YR 1978 TOTAL 80371.0 MEAN 220 MAX 3090 MIN 6.0 CFSM .49 IN 6.70
WTR YR 1979 TOTAL 174677.9 MEAN 479 MAX 10000 MIN 9.1 CFSM 1.07 IN 14.57

05536190 HART DITCH AT MUNSTER, IN

LOCATION.--Lat 41°33'40", long 87°28'50", in SE¼NW¼ sec.20, T.36 N., R.9 W., Lake County, Hydrologic Unit 07120003, 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 mi² (183.1 km²).

PERIOD OF RECORD.--September 1942 to current year.

REVISED RECORDS.--WRD Ind. 1972: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 591.27 ft (180.219 m) National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft (366 m) upstream from base gage, at same datum.

REMARKS.--Records fair, high flow occasionally in backwater from Little Calumet River.

AVERAGE DISCHARGE.--37 years, 59.2 ft³/s (1.677 m³/s), 11.37 in/yr (289 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft³/s (75.6 m³/s) Apr. 28, 1959; maximum gage height, 7.83 ft (2.387 m) Oct. 11, 1954; minimum daily discharge, 1.6 ft³/s (0.045 m³/s) Dec. 24-26, 31, 1963, Jan. 1, 2, Sept. 4-9, 14-17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximum (*):

| Date | Time | Discharge (ft ³ /s) (m ³ /s) | Gage height (ft) (m) |
|--------|------|---|-------------------------|
| Mar. 5 | 1400 | *1390 39.4 | *6.66 2.030 |

Minimum daily discharge, 5.5 ft³/s (0.156 m³/s) Oct. 2, 6, and July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|------|-------|------|------|-------|-------|--------|-------|
| 1 | 7.0 | 8.7 | 16 | 60 | 12 | 92 | 313 | 216 | 28 | 18 | 30 | 23 |
| 2 | 5.5 | 9.6 | 24 | 80 | 12 | 97 | 401 | 167 | 19 | 14 | 13 | 18 |
| 3 | 18 | 9.6 | 76 | 60 | 12 | 228 | 360 | 446 | 17 | 8.7 | 17 | 16 |
| 4 | 6.2 | 8.7 | 58 | 70 | 12 | 948 | 216 | 322 | 12 | 24 | 11 | 14 |
| 5 | 8.9 | 9.6 | 46 | 50 | 12 | 1300 | 146 | 184 | 19 | 12 | 7.4 | 12 |
| 6 | 5.5 | 18 | 33 | 40 | 12 | 833 | 105 | 126 | 14 | 10 | 21 | 12 |
| 7 | 6.2 | 8.7 | 28 | 29 | 12 | 765 | 88 | 97 | 21 | 8.7 | 17 | 12 |
| 8 | 6.2 | 7.8 | 23 | 23 | 12 | 683 | 124 | 78 | 17 | 8.7 | 10 | 10 |
| 9 | 6.2 | 7.8 | 19 | 19 | 12 | 699 | 108 | 64 | 27 | 8.7 | 93 | 9.6 |
| 10 | 6.2 | 7.0 | 16 | 16 | 12 | 588 | 84 | 54 | 25 | 7.8 | 86 | 8.7 |
| 11 | 7.8 | 7.0 | 14 | 13 | 12 | 425 | 126 | 52 | 19 | 7.0 | 62 | 10 |
| 12 | 7.0 | 7.8 | 14 | 12 | 12 | 257 | 690 | 49 | 15 | 7.0 | 30 | 9.6 |
| 13 | 7.8 | 22 | 15 | 14 | 12 | 249 | 550 | 55 | 14 | 7.0 | 22 | 9.6 |
| 14 | 16 | 18 | 15 | 15 | 12 | 436 | 272 | 63 | 12 | 7.0 | 18 | 9.6 |
| 15 | 10 | 12 | 15 | 13 | 12 | 297 | 155 | 74 | 10 | 8.7 | 15 | 9.6 |
| 16 | 8.7 | 8.7 | 15 | 12 | 12 | 199 | 105 | 54 | 8.6 | 7.8 | 14 | 12 |
| 17 | 6.2 | 18 | 14 | 12 | 11 | 249 | 86 | 42 | 8.6 | 8.7 | 47 | 10 |
| 18 | 11 | 10 | 14 | 12 | 11 | 299 | 70 | 32 | 10 | 7.8 | 208 | 9.6 |
| 19 | 7.8 | 12 | 14 | 12 | 12 | 519 | 60 | 30 | 22 | 7.0 | 129 | 9.6 |
| 20 | 7.0 | 9.6 | 15 | 12 | 12 | 620 | 56 | 26 | 18 | 6.2 | 164 | 8.7 |
| 21 | 7.0 | 9.6 | 16 | 12 | 12 | 399 | 79 | 23 | 20 | 6.2 | 155 | 10 |
| 22 | 8.6 | 10 | 17 | 13 | 15 | 232 | 74 | 20 | 16 | 6.2 | 77 | 12 |
| 23 | 22 | 34 | 17 | 13 | 25 | 193 | 60 | 20 | 10 | 5.5 | 62 | 12 |
| 24 | 10 | 17 | 17 | 13 | 58 | 249 | 95 | 19 | 9.5 | 6.4 | 56 | 12 |
| 25 | 22 | 14 | 16 | 13 | 45 | 260 | 181 | 16 | 8.6 | 17 | 43 | 10 |
| 26 | 20 | 12 | 14 | 12 | 54 | 172 | 493 | 16 | 7.8 | 10 | 33 | 9.6 |
| 27 | 16 | 16 | 13 | 13 | 63 | 140 | 474 | 16 | 7.0 | 7.8 | 41 | 8.7 |
| 28 | 11 | 14 | 12 | 12 | 81 | 156 | 368 | 15 | 6.2 | 7.0 | 29 | 8.7 |
| 29 | 9.6 | 14 | 13 | 12 | --- | 408 | 278 | 14 | 27 | 7.0 | 58 | 9.6 |
| 30 | 9.6 | 12 | 20 | 12 | --- | 751 | 339 | 14 | 28 | 58 | 49 | 8.7 |
| 31 | 9.6 | --- | 30 | 12 | --- | 555 | --- | 43 | --- | 103 | 36 | --- |
| TOTAL | 310.6 | 373.2 | 669 | 711 | 591 | 13298 | 6556 | 2447 | 476.3 | 428.9 | 1653.4 | 334.9 |
| MEAN | 10.0 | 12.4 | 21.6 | 22.9 | 21.1 | 429 | 219 | 78.9 | 15.9 | 13.8 | 53.3 | 11.2 |
| MAX | 22 | 34 | 76 | 80 | 81 | 1300 | 690 | 446 | 28 | 103 | 208 | 23 |
| MIN | 5.5 | 7.0 | 12 | 12 | 11 | 92 | 56 | 14 | 6.2 | 5.5 | 7.4 | 8.7 |
| CFSM | .14 | .18 | .31 | .32 | .30 | 6.07 | 3.10 | 1.12 | .23 | .20 | .75 | .16 |
| IN. | .16 | .20 | .35 | .37 | .31 | 7.00 | 3.45 | 1.29 | .25 | .23 | .87 | .18 |

| | | | | | | | |
|-------------|-------|---------|-----------|----------|---------|-----------|----------|
| CAL YR 1978 | TOTAL | 21141.4 | MEAN 57.9 | MAX 1040 | MIN 3.6 | CFSM .82 | IN 11.12 |
| WTR YR 1979 | TOTAL | 27849.3 | MEAN 76.3 | MAX 1300 | MIN 5.5 | CFSM 1.08 | IN 14.65 |

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

LOCATION.--Lat 41°34'07", long 87°31'18", in SE¼NW¼ sec.13, T.36 N., R.10 W., Lake County, Hydrologic Unit 07120003, 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 mi² (233 km²). 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods and no gage-height record, which are fair. Flow from eastern portion of Little Calumet River basin is diverted to Lake Michigan by Burns ditch.

AVERAGE DISCHARGE.--21 years, 70.8 ft³/s (2.001 m³/s), 10.68 in/yr (271 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/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 ft³/s (0.054 m³/s) Aug. 20, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 852 ft³/s (24.1 m³/s) Mar. 5, gage height, 13.87 ft (4.228 m); minimum daily, 6.6 ft³/s (0.187 m³/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-----------|---------|---------|----------|----------|------|------|-------|------|-------|
| 1 | 11 | 15 | 32 | 118 | 19 | 90 | 370 | 285 | 51 | 25 | 50 | 39 |
| 2 | 9.2 | 15 | 40 | 95 | 19 | 132 | 375 | 249 | 34 | 20 | 30 | 32 |
| 3 | 33 | 15 | 77 | 65 | 20 | 279 | 363 | 369 | 24 | 16 | 38 | 26 |
| 4 | 13 | 14 | 77 | 50 | 21 | 722 | 295 | 354 | 20 | 27 | 31 | 23 |
| 5 | 17 | 14 | 45 | 32 | 22 | 830 | 246 | 271 | 31 | 17 | 25 | 21 |
| 6 | 12 | 24 | 37 | 28 | 22 | 694 | 203 | 223 | 24 | 15 | 42 | 19 |
| 7 | 10 | 20 | 32 | 26 | 22 | 606 | 179 | 185 | 39 | 13 | 39 | 17 |
| 8 | 12 | 14 | 28 | 24 | 21 | 564 | 207 | 151 | 29 | 12 | 27 | 15 |
| 9 | 12 | 13 | 26 | 23 | 21 | 564 | 202 | 135 | 37 | 12 | 135 | 14 |
| 10 | 12 | 12 | 24 | 22 | 21 | 535 | 172 | 118 | 40 | 11 | 117 | 14 |
| 11 | 12 | 12 | 22 | 21 | 22 | 435 | 210 | 107 | 30 | 10 | 119 | 12 |
| 12 | 11 | 14 | 26 | 21 | 23 | 357 | 493 | 97 | 24 | 9.9 | 56 | 12 |
| 13 | 11 | 29 | 28 | 22 | 23 | 321 | 479 | 93 | 22 | 9.7 | 38 | 12 |
| 14 | 31 | 45 | 24 | 23 | 23 | 357 | 337 | 119 | 21 | 9.2 | 32 | 11 |
| 15 | 16 | 25 | 23 | 22 | 23 | 339 | 263 | 120 | 18 | 9.9 | 27 | 9.9 |
| 16 | 28 | 22 | 22 | 21 | 22 | 278 | 216 | 98 | 15 | 9.9 | 22 | 9.9 |
| 17 | 17 | 32 | 22 | 21 | 21 | 272 | 183 | 83 | 15 | 10 | 68 | 10 |
| 18 | 17 | 26 | 21 | 21 | 21 | 276 | 159 | 71 | 20 | 8.7 | 251 | 10 |
| 19 | 22 | 24 | 22 | 22 | 22 | 373 | 142 | 63 | 30 | 7.7 | 179 | 9.5 |
| 20 | 15 | 22 | 28 | 23 | 24 | 447 | 127 | 55 | 26 | 7.4 | 213 | 8.3 |
| 21 | 14 | 20 | 32 | 24 | 31 | 386 | 141 | 48 | 33 | 7.4 | 197 | 8.8 |
| 22 | 15 | 20 | 26 | 23 | 60 | 303 | 136 | 44 | 25 | 7.4 | 124 | 9.5 |
| 23 | 35 | 54 | 24 | 23 | 120 | 265 | 123 | 40 | 19 | 7.5 | 100 | 8.0 |
| 24 | 22 | 33 | 24 | 23 | 70 | 273 | 145 | 41 | 15 | 6.6 | 89 | 7.8 |
| 25 | 29 | 30 | 25 | 22 | 58 | 280 | 210 | 39 | 14 | 16 | 69 | 13 |
| 26 | 43 | 28 | 22 | 22 | 62 | 239 | 390 | 37 | 14 | 13 | 55 | 9.0 |
| 27 | 28 | 32 | 20 | 21 | 72 | 210 | 429 | 35 | 13 | 12 | 68 | 8.7 |
| 28 | 20 | 32 | 20 | 21 | 80 | 207 | 373 | 30 | 11 | 8.8 | 50 | 9.0 |
| 29 | 16 | 29 | 28 | 21 | --- | 316 | 329 | 28 | 40 | 8.3 | 77 | 7.8 |
| 30 | 15 | 31 | 111 | 20 | --- | 530 | 323 | 27 | 53 | 47 | 68 | 9.5 |
| 31 | 14 | --- | 99 | 19 | --- | 480 | --- | 43 | --- | 94 | 51 | --- |
| TOTAL | 572.2 | 716 | 1087 | 939 | 985 | 11960 | 7820 | 3658 | 787 | 488.4 | 2487 | 415.7 |
| MEAN | 18.5 | 23.9 | 35.1 | 30.3 | 35.2 | 386 | 261 | 118 | 26.2 | 15.8 | 80.2 | 13.9 |
| MAX | 43 | 54 | 111 | 118 | 120 | 830 | 493 | 369 | 53 | 94 | 251 | 39 |
| MIN | 9.2 | 12 | 20 | 19 | 19 | 90 | 123 | 27 | 11 | 6.6 | 22 | 7.8 |
| CFSM | .21 | .27 | .39 | .34 | .39 | 4.29 | 2.90 | 1.31 | .29 | .18 | .89 | .15 |
| IN. | .24 | .30 | .45 | .39 | .41 | 4.94 | 3.23 | 1.51 | .33 | .20 | 1.03 | .17 |
| CAL YR 1978 | TOTAL | 25877.2 | MEAN 70.9 | MAX 734 | MIN 5.8 | CFSM .79 | IN 10.70 | | | | | |
| WTR YR 1979 | TOTAL | 31915.3 | MEAN 87.4 | MAX 830 | MIN 6.6 | CFSM .97 | IN 13.19 | | | | | |

05536290 LITTLE CALUMET RIVER AT SOUTH HOLLAND, IL

LOCATION.--Lat 41°36'05", long 87°34'38", in SW¼SW¼ sec.13, T.36 N., R.14 E., Cook County, Illinois, Hydrologic Unit 07120003, on right bank at downstream side of bridge on U.S. Highway 6, 0.6 mi (1.0 km) downstream from Thorn Creek, 1.6 mi (2.6 km) east of South Holland, and at mile 24.4 (39.3 km).

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--October 1947 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1507: 1950, 1953.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) National Geodetic Vertical Datum of 1929 (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 mi (9.8 km) downstream; prior to Nov. 17, 1947, nonrecording gage at same site read twice daily.

REMARKS.--Records good except those for winter periods, which are poor. Flow from upper Little Calumet River is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 mi (13 km) below station, diverts the entire flow to the Mississippi River basin. Several observations of water temperature were made during the year and are published under MISCELLANEOUS TEMPERATURE MEASUREMENTS in this report.

AVERAGE DISCHARGE.--32 years, 178 ft³/s (5.041 m³/s), 11.79 in/yr (299 mm/yr).

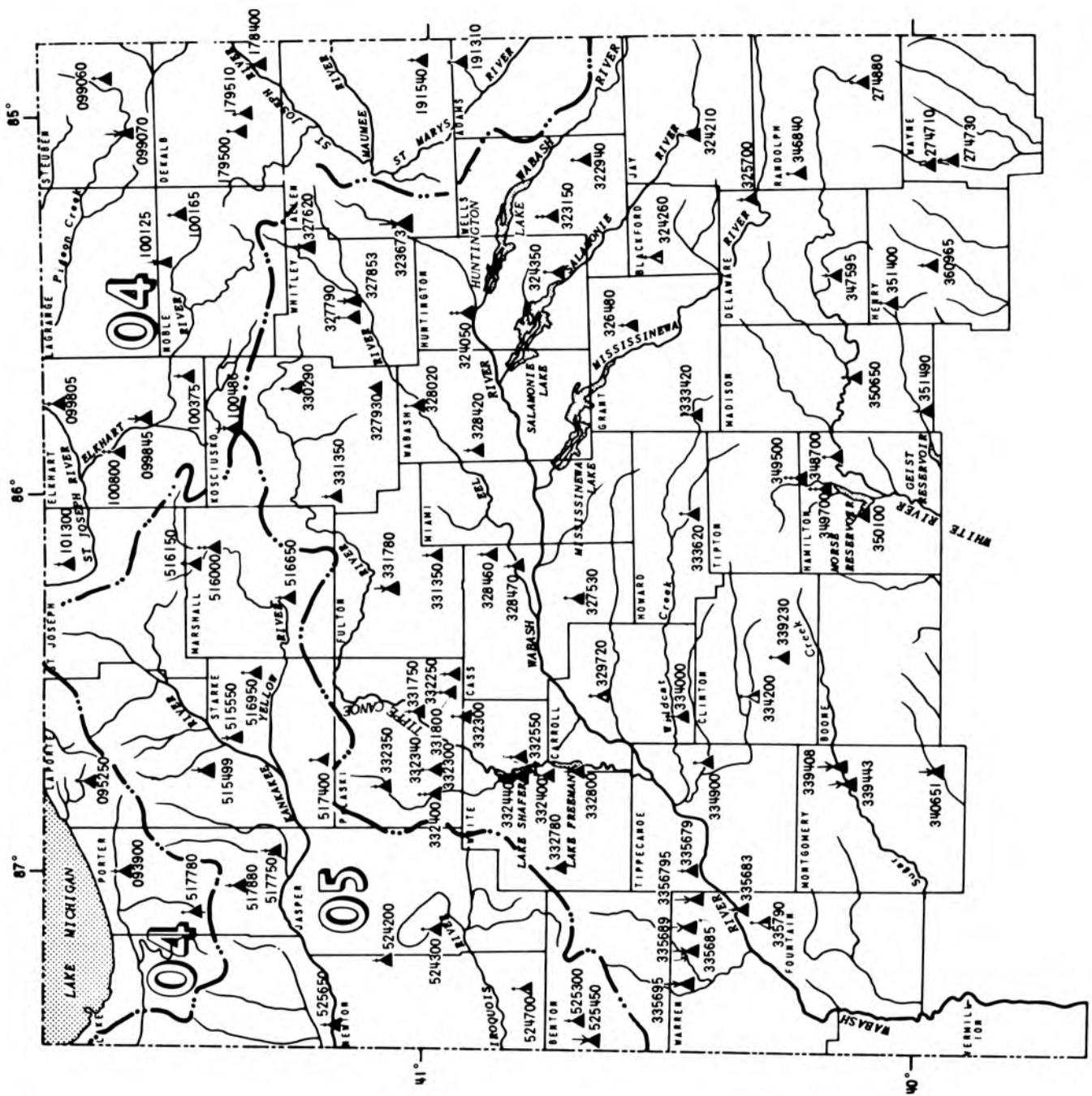
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft³/s (126 m³/s) July 14, 1957, gage height, 20.11 ft (6.130 m); minimum daily, 7.9 ft³/s (0.22 m³/s) Oct. 6, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1947, reached a stage of 19.24 ft (5.864 m), from flood-marks, discharge, 4,760 ft³/s (135 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s (87.8 m³/s) Mar. 5, gage height, 17.82 ft (5.432 m); minimum daily, 33 ft³/s (0.93 m³/s) Nov. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1 | 60 | 34 | 59 | 306 | 46 | 272 | 999 | 560 | 121 | 144 | 155 | 97 |
| 2 | 46 | 33 | 78 | 210 | 47 | 307 | 747 | 448 | 90 | 63 | 130 | 80 |
| 3 | 100 | 33 | 193 | 170 | 49 | 501 | 987 | 1100 | 80 | 46 | 190 | 67 |
| 4 | 68 | 33 | 219 | 100 | 52 | 2120 | 708 | 925 | 73 | 100 | 140 | 63 |
| 5 | 64 | 34 | 131 | 82 | 54 | 2960 | 511 | 542 | 88 | 65 | 155 | 63 |
| 6 | 63 | 67 | 94 | 72 | 57 | 1920 | 401 | 391 | 88 | 48 | 355 | 60 |
| 7 | 50 | 78 | 77 | 64 | 56 | 1480 | 309 | 303 | 152 | 45 | 170 | 59 |
| 8 | 49 | 47 | 74 | 61 | 55 | 1320 | 268 | 249 | 153 | 42 | 118 | 55 |
| 9 | 46 | 44 | 63 | 59 | 54 | 1410 | 407 | 214 | 95 | 44 | 556 | 48 |
| 10 | 43 | 42 | 62 | 56 | 52 | 1000 | 407 | 188 | 148 | 48 | 455 | 50 |
| 11 | 38 | 42 | 53 | 51 | 54 | 700 | 303 | 199 | 98 | 44 | 398 | 50 |
| 12 | 39 | 42 | 57 | 52 | 57 | 620 | 589 | 173 | 73 | 44 | 175 | 48 |
| 13 | 38 | 50 | 70 | 55 | 60 | 570 | 1170 | 161 | 68 | 46 | 123 | 48 |
| 14 | 79 | 107 | 60 | 57 | 60 | 831 | 598 | 234 | 67 | 48 | 100 | 48 |
| 15 | 51 | 61 | 58 | 55 | 59 | 656 | 422 | 268 | 59 | 49 | 89 | 49 |
| 16 | 58 | 48 | 57 | 54 | 57 | 514 | 328 | 187 | 52 | 42 | 85 | 48 |
| 17 | 47 | 70 | 56 | 53 | 55 | 509 | 270 | 153 | 49 | 39 | 184 | 47 |
| 18 | 44 | 75 | 52 | 53 | 53 | 568 | 231 | 136 | 61 | 38 | 798 | 47 |
| 19 | 56 | 57 | 52 | 55 | 54 | 966 | 205 | 126 | 81 | 36 | 450 | 47 |
| 20 | 44 | 49 | 66 | 57 | 57 | 1300 | 192 | 116 | 83 | 38 | 640 | 47 |
| 21 | 39 | 42 | 80 | 61 | 66 | 1040 | 241 | 105 | 86 | 36 | 520 | 46 |
| 22 | 37 | 39 | 67 | 60 | 100 | 677 | 220 | 98 | 70 | 35 | 290 | 48 |
| 23 | 70 | 123 | 60 | 58 | 260 | 525 | 187 | 92 | 59 | 36 | 307 | 49 |
| 24 | 59 | 82 | 61 | 60 | 325 | 525 | 230 | 84 | 54 | 39 | 233 | 48 |
| 25 | 56 | 58 | 63 | 57 | 225 | 598 | 450 | 80 | 52 | 57 | 166 | 54 |
| 26 | 99 | 47 | 55 | 55 | 189 | 482 | 1140 | 76 | 51 | 50 | 136 | 47 |
| 27 | 64 | 53 | 51 | 53 | 208 | 383 | 1220 | 75 | 49 | 44 | 164 | 44 |
| 28 | 51 | 69 | 50 | 52 | 228 | 337 | 923 | 70 | 50 | 42 | 139 | 44 |
| 29 | 42 | 54 | 54 | 54 | --- | 401 | 686 | 66 | 107 | 41 | 207 | 45 |
| 30 | 37 | 61 | 318 | 52 | --- | 1320 | 708 | 64 | 296 | 305 | 171 | 44 |
| 31 | 37 | --- | 254 | 49 | --- | 1570 | --- | 90 | --- | 270 | 126 | --- |
| TOTAL | 1674 | 1674 | 2744 | 2333 | 2689 | 28382 | 16057 | 7573 | 2653 | 2024 | 7925 | 1590 |
| MEAN | 54.0 | 55.8 | 88.5 | 75.3 | 96.0 | 916 | 535 | 244 | 88.4 | 65.3 | 256 | 53.0 |
| MAX | 100 | 123 | 318 | 306 | 325 | 2960 | 1220 | 1100 | 296 | 305 | 798 | 97 |
| MIN | 37 | 33 | 50 | 49 | 46 | 272 | 187 | 64 | 49 | 35 | 85 | 44 |
| CFSM | .26 | .27 | .43 | .37 | .47 | 4.47 | 2.61 | 1.19 | .43 | .32 | 1.25 | .26 |
| IN. | .30 | .30 | .50 | .42 | .49 | 5.15 | 2.91 | 1.37 | .48 | .37 | 1.44 | .29 |
| CAL YR 1978 | TOTAL | 62778 | MEAN 172 | MAX 2510 | MIN 31 | CFSM .84 | IN 11.39 | | | | | |
| WTR YR 1979 | TOTAL | 77318 | MEAN 212 | MAX 2960 | MIN 33 | CFSM 1.03 | IN 14.03 | | | | | |



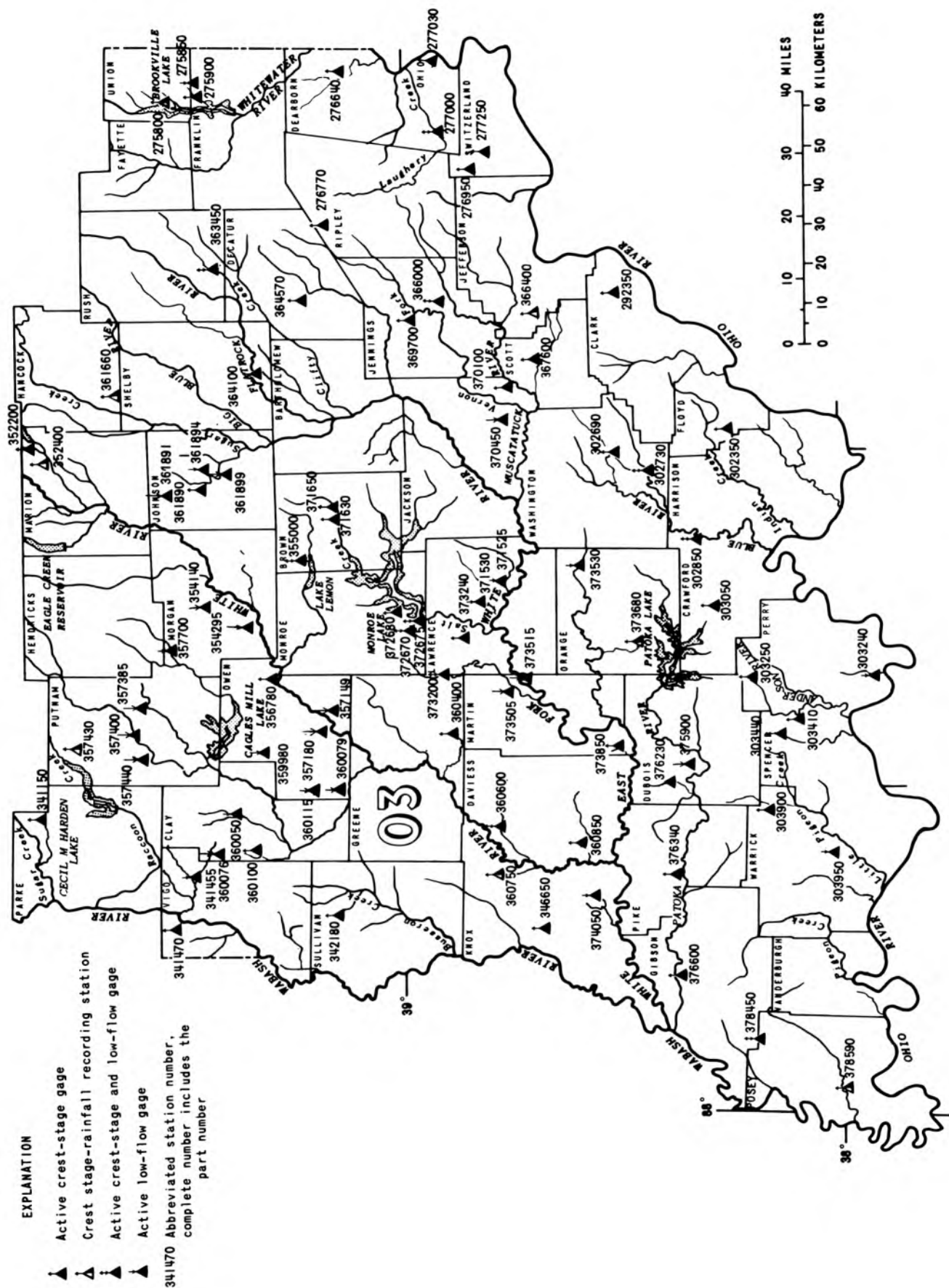


Figure 3.--Location of partial-record stations in Indiana.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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.

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 1979

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Measurements | |
|---------------------------|--|---|----------------------------------|------------------|--------------|--------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN | | | | | | |
| Great Miami River basin | | | | | | |
| 03275850 | Hannah Creek near Roseburg, Ind. | Lat 39°34'58", long 84°56'48", in SW¼SW¼ sec.25, T.11 N., R.2 W., Union County, at bridge on State Highway 101, 0.5 mile south of Roseburg. | 22.3 | 1976-79 | 10-02-78 | 1.6 |
| Blue River basin | | | | | | |
| 03302850 | Whiskey Run at Milltown, Ind. | Lat 38°21'08", long 86°17'01", in SE¼SW¼ sec.10, T.2 S., R.2 E., Crawford County, at county road bridge, 0.25 mile south of State Highway 64, and 0.8 mile north of intersection of Main Street and Station Street in Milltown. | 39.8 | 1975-79 | 10-03-78 | 2.4 |
| Little Blue River basin | | | | | | |
| 03303180 | Little Blue River tributary near Sulphur, Ind. | Lat 38°14'49", long 86°28'24", in SW¼NW¼NW¼ sec.24, T.3 S., R.1 W., at culvert on State Road 37, 0.1 mile north of I-64 and 1.5 miles north of Sulphur. | | 1979 | 09-13-79 | 0 |
| 03303205 | Little Blue River near Beechwood, Ind. | Lat 38°10'01", long 86°24'57", in SW¼NW¼SE¼ sec.16, T.4 S., R.1 E., 0.5 mile above confluence with Turkey Fork, at county road 3.0 miles south of Beechwood. | 109 | 1979 | 09-13-79 | 15.5 |
| Poison Creek basin | | | | | | |
| 03303222 | Horse Mill Branch near Derby, Ind. | Lat 38°01'23", long 86°34'09", in SE¼NE¼ sec.1, T.6 S., R.2 W., at culvert on County Road 7 (Glenn Road), 2.25 miles west of Derby. | 1.04 | 1979 | 09-12-79 | 0 |
| 03303224 | Poison Creek near Derby, Ind. | Lat 38°00'59", long 86°34'20", in SE¼SE¼ sec.1, T.6 S., R.2 W., along County Road 7 (Glenn Road), 300 feet north of Harding Cemetery, and 3 miles southwest of Derby. | 10.1 | 1979 | 09-12-79 | 0 |
| 03303226 | Trigger Branch near Derby, Ind. | Lat 38°00'47", long 86°34'12", in NE¼NE¼ sec.12, T.6 S., R.2 W., at bridge on County Road 7 (Glenn Road), 3 miles southwest of Derby. | 2.30 | 1979 | 09-12-79 | 0 |
| 03303228 | Wheatly Branch near Derby, Ind. | Lat 38°00'12", long 86°34'22", in NE¼SE¼ sec.12, T.6 S., R.2 W., at culvert on County Road 7 (Glenn Road). | 1.19 | 1979 | 09-12-79 | 0 |
| 03303230 | Caney Branch near Derby, Ind. | Lat 37°59'09", long 86°34'40", in SE¼SE¼SE¼ sec.13, T.6 S., R.2 W., at culvert on County Road 7 (Glenn Road), 4 miles southwest of Derby. | 1.14 | 1979 | 09-12-79 | 0 |
| Deer Creek basin | | | | | | |
| 03303240 | Deer Creek near Cannelton, Ind. | Lat 37°58'16", long 86°38'39", in SW¼SE¼SE¼ sec.20, T.6 S., R.2 W., Perry County, at county road bridge, 6.8 miles northeast of Cannelton. | 8.7 | 1975-79 | 10-04-78 | .14 |
| Little Pigeon River basin | | | | | | |
| 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. | 30.1 | 1974-79 | 10-04-78 | 2.4 |

| Station number | Station name | Location | Drain- age area (mi ²) | Period of record | Measurements | |
|-----------------------------|---|--|---|------------------------|--------------|--|
| | | | | | Date | Dis- charge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Wabash River basin | | | | | | |
| 033236725 | Aboite Creek near Fort Wayne, Ind. | Lat 41°03'15", long 85°17'48", between sec. 9 and sec.16, T.30 N., R.11 E., Allen County, at bridge on Covington Road, 3.1 miles west of Fort Wayne. | 4.43 | 1979 | 08-14-79 | 2.6 |
| 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 Highway 67, 1.5 miles north- east of Albany. | 19.1 | 1974-79 | 10-05-78 | .17 |
| 03327620 | Blue River near Churu- busco, Ind. | Lat 41°13'49", long 85°23'27", in E¼ sec.17, T.32 N., R.10 E., at bridge on Anderson Road, 4 miles west of Churubusco and 0.75 mile east of County Road 450 East. | 35.8 | 1979 | 08-14-79 | 5.3 |
| 03327853 | Spring Creek near Columbia City, Ind. | Lat 41°09'55", long 85°34'05", in SE¼SE¼ sec.1, T.31 N., R.8 E., at bridge on County Road 400 West, 1 mile south and 4.1 miles west of intersection of U.S. Highway 30 and State Highway 109 in Columbia City. | 8.12 | 1979 | 08-15-79 | .30 |
| 03328420 | Paw Paw Creek near Roann, Ind. | Lat 40°53'40", long 85°53'19", in SW¼NW¼NW¼ sec.8, T.28 N., R.6 E., Wabash County, at bridge on State Highway 15, 3.5 miles north- west of intersection of State Highways 115 and 15. | 31.2 | 1973-79 | 10-02-78 | .56 |
| 03328460 | East Branch Twelvemile Creek near Twelve Mile, Ind. | Lat 40°50'16", long 86°12'22", on line between secs.28 and 29, T.28 N., R.3 E., Cass County, at bridge on County Road 900 East, 2 miles southeast of Twelve Mile. | 22.7 | 1976-79 | 10-05-78 | 1.6 |
| 03328470 | Twelvemile Creek near Hoover, Ind. | Lat 40°48'03", long 86°13'22", in NE¼SW¼ of Little Charlie's Reserve, T.27 N., R.3 E., Cass County, at bridge on County Road 300 North, 1.2 miles west of Hoover. | 53.0 | 1976-79 | 10-06-78 | 8.7 |
| 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 | 1969-79 | 10-05-78 | 7.5 |
| 03331750 | Quigley Marsh ditch at Wina- mac, Ind. | Lat 42°31'10", long 86°36'12", on the line be- tween secs.11 and 12, T.30 N., R.2 E., Pulaski County, at the north edge of Winamac at the Indiana Head Motel on U.S. 35 bridge 0.3 mile north of State Highway 14 east of Winamac. | 14.8 | 1977-79 | 10-05-78 | 7.5 |
| 03331780 | Mill Creek near Fulton, Ind. | Lat 40°57'28", long 86°20'06", in S¼NW¼SW¼ sec. 17, T.29 N., R.2 E., at bridge on Fulton County Road, 1 mile north of State Road 114, and 5 miles west of Fulton and 0.75 mile north of Marstown. | 24.8 | 1979 | 09-20-79 | 3.8 |
| 03331800 | Mill Creek near Winamac, Ind. | Lat 42°01'00", long 86°34'07", in SW¼NE¼SE¼ sec. 30, T.30 N., R.1 W., Pulaski County, at bridge on County Road 175 East, about 3 miles south- east of Winamac. | 79.0 | 1977-79 | 10-02-78 | 6.2 |
| 03332400 | Honey Creek near Reynolds, Ind. | Lat 40°46'53", long 86°48'52", on line between secs.19 and 24, T.27 N., and on line between R.3 W., and 4 W., White County, at bridge on County Road 300 East, about 3 miles northwest of Monticello. | 38.4 | 1977-79 | 10-02-78 | 1.7 |
| 03332440 | Hoagland ditch near Monon, Ind. | Lat 40°48'52", long 86°48'51", in NE¼NE¼SE¼ sec. 1, on line with sec.6, T.27 N., R.4 W., at bridge on White County Road, 3.75 miles south of State Road 16, 1 mile west of confluence at Lake Shaefer, and 7 miles southeast of Monon. | 78.8 | 1979 | 09-20-79 | 3.3 |
| 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 Highway 39, 2 miles north of U.S. High- way 24. | 20.6 | 1974-79 | 10-02-78 | 6.2 |
| 03335679 | 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. | 29.0 | 1962-79 | 10-02-79 | .34 |
| 033356795 | Little Pine Creek at Green Hill, Ind. | Lat 40°21'15", long 87°06'30", in NW¼NW¼ sec.28, T.23 N., R.6 W., Warren county road bridge, 100 feet northwest of Green Hill, approximately 6 miles south of Otterbein. | 2.82 | 1979 | 09-19-79 | 1.2 |
| 03335688 | Big Pine Creek near Rains- ville, Ind. | Lat 40°24'47", long 87°19'29", in NE¼NW¼SE¼ sec. 28, T.23 N., R.8 W., below confluence with un- named tributary, 0.7 mile west of Rainsville, 0.2 mile above private bridge crossing. | 179 | 1979 | 09-19-79 | 1.2 |
| 03335695 | Mud Pine Creek near Brisco, Ind. | Lat 40°24'52", long 87°19'21", in center of NE¼ sec.29, T.23 N., R.8 W., at bridge on Warren County Road, 0.75 mile east of Brisco and Old Highway 41. | 88 | 1979 | 09-19-79 | 4.9 |

Discharge measurements made at low-flow partial-record stations during Water Year 1979--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Measurements | |
|-------------------------------|--|---|----------------------------------|------------------|----------------------|--------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Wabash River basin--Continued | | | | | | |
| 03335683 | Kickapoo Creek near Attica, Ind. | Lat 40°19'27", long 87°14'05", in SE¼NW¼ sec. 29, T.22 N., R.7 W., Warren County, at bridge on Kickapoo Road, 0.5 mile north of Independence Road. | 36.4 | 1976-78 | 09-12-78 | 4.0 |
| 03339408 | Little Potato Creek near Darlington, Ind. | Lat 40°09'48", long 86°45'08", on line between sec.21 and sec.22, T.20 N., R.3 W., at bridge on Montgomery County Road 800 East, 150 feet north of intersection with County Road 850 North, 5 miles northeast of Darlington. | 31.8 | 1979 | 10-30-79 | 3.6 |
| 03339443 | Lye Creek near Darlington, Ind. | Lat 40°07'10", long 86°48'53", in center of E¼ sec.1, T.19 N., R.4 W., at bridge on Montgomery County Road 550 North, 0.3 mile west of intersection with County Road 500 East, and 3 miles northwest of Darlington. | 78.1 | 1979 | 10-30-79 | 11.1 |
| 03340651 | Big Raccoon Creek near Ladoga, Ind. | Lat 39°54'32", long 86°47'58", in SE¼SE¼SW¼ sec. 18, T.17 N., R.3 W., at bridge on Montgomery County Road, 0.25 mile south of Ladoga, and 200 feet downstream from Monon Railroad. | 56.2 | 1979 | 10-30-79 | 9.7 |
| 03341455 | Sulphur Creek near Burnett, Ind. | Lat 39°31'26", long 87°17'25", in SE¼SW¼ sec.34, T.13 N., R.8 W., Vigo County, at triple barrel culvert on County Road 15 North, 1.5 miles south of Burnett. | 20.4 | 1976-79 | 10-06-78 | 4.2 |
| 03347595 | Bell Creek near Yorktown, Ind. | Lat 40°08'43", long 85°27'03", in SW¼NE¼ sec.36, T.20 N., R.9 E., Delaware County, at bridge on Belle Creek Road, 0.2 mile west of County Road 325 West and 3 miles southeast of Yorktown. | 44.7 | 1976-79 | 10-06-78 | 6.9 |
| 03354140 | Lambs Creek near Martinsville, Ind. | Lat 39°25'26", long 86°28'01", in the NE¼NW¼ sec. 1, T.11 N., R.1 W., on a county road parallel to and upstream from State Road 67, 2.5 miles west of Martinsville and 0.5 mile northeast of intersection with Mosier Road. | 30.9 | 1979 | 10-22-79 10-31-79 | 4.9 5.7 |
| 03354295 | Burkhart Creek near Paragon, Ind. | Lat 39°24'59", long 86°32'40", in the center of the SE¼ sec.5, T.11 N., R.1 W., along Duckworth Road, 1.5 miles north of intersection of State Road 67 and County Road 600 West, 1.2 miles northeast of Paragon. | 6.91 | 1979 | 10-22-79 10-31-79 | .65 1.2 |
| 03357149 | Raccoon Creek at Adel, Ind. | Lat 39°11'32", long 86°47'45", in SE¼NE¼NE¼ sec. 25, T.9 N., R.4 W., at bridge at Adel, 1.3 miles southeast of Pottersville and 4 miles east of Freedom. | 28.2 | 1979 | 10-22-79 10-29-79 | 3.3 4.8 |
| 03357180 | Fish Creek near Freedom, Ind. | Lat 39°17'18", long 86°53'30", in SW¼SE¼ sec.18, T.9 N., R.4 W., in Owen County at bridge on county road 2 miles west of Freedom. | 49.4 | 1979 | 11-20-79 | 8.8 |
| 03357385 | Miller Creek near Fillmore, Ind. | Lat 39°42'52", long 86°45'03", in NE¼NE¼ sec.33, T.15 N., R.3 W., 1.2 miles north of Conrail tracks just north of Fillmore, and 0.4 mile upstream from confluence with Clear Creek. | 10.9 | 1979 | 10-29-79 | 3.0 |
| 03357400 | Big Walnut Creek above Greencastle, Ind. | Lat 39°40'47", long 86°48'39", in SW¼ sec.1, T.14 N., R.4 W., at Pinhook bridge, 0.50 mile upstream from Monon Railroad bridge, and 2.50 miles northeast of Greencastle. | 198 | 1979 | 10-29-79 | 79.1 |
| 03357440 | Little Walnut Creek near Greencastle, Ind. | Lat 39°36'58", long 86°57'29", in NW¼SW¼ sec.27, T.14 N., R.5 W., at New York Central Railroad bridge, 100 feet upstream from confluence with Big Walnut Creek, and 4 miles west of Greencastle. | 64.2 | 1979 | 10-29-79 | 15.8 |
| 03359980 | Jordan Creek near Jordan, Ind. | Lat 39°24'09", long 86°55'33", in SE¼SE¼ sec.11, T.11 N., R.4 W., at bridge on an Owen County road, 0.9 miles east of Owen-Clay county line, and 0.5 mile northwest of Jordan. | 25.9 | 1979 | 10-29-79 | 10.6 |
| 03357700 | Mud Creek near Little Point, Ind. | Lat 39°34'34", long 86°37'54", on line between secs.9 and 10, T.13 N., R.2 W., Morgan County, at bridge on County Road 1100 West, 0.8 mile north of Little Point and 1.7 miles south of the Hendricks-Morgan County line. | 34.8 | 1976-79 | 10-06-78 | 4.2 |
| 03360050 | Birch Creek near Ashboro, Ind. | Lat 39°24'14", long 87°06'41", in NE¼SE¼SE¼ sec. 7, T.11 N., R.6 W., Clay County, at bridge on State Highway 59, 0.5 mile northwest of Ashboro. | 40.0 | 1974-79 | 10-06-78 | 3.5 |
| 03360076 | Birch Creek near Old Hill, Ind. | Lat 39°19'36", long 87°10'30", in NW¼SE¼NW¼ sec. 10, T.10 N., R.7 W., in Clay County, at county road bridge and 0.7 mile from the mouth. The bridge may be reached from Highway 59 by turning west on the third county road, north of Clay City, and proceeding 4 miles west to bridge. | 71.3 | 1979 | 11-21-79 | 9.7 |

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Measurements | |
|-------------------------------|---|--|----------------------------------|------------------|----------------------|--------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Wabash River basin--Continued | | | | | | |
| 03360079 | Connelly ditch near Jasonville, Ind. | Lat 39°12'45", long 87°07'40", in NE¼NE¼NE¼ sec. 24, T.9 N., R.7 W., on Clay county road, 1.75 miles above mouth and 7.5 miles northwest of Jasonville. | 31.2 | 1979 | 11-20-79 | 7.1 |
| 03360115 | Lick Creek near Coal City, Ind. | Lat 39°10'48", long 86°59'47", in SW¼SW¼ sec.19, T.9 N., R.5 W., on Owen county road, 1.5 miles upstream from confluence with Beech Creek and 3 miles southeast of Coal City. | 38.8 | 1979 | 11-20-79 | 6.5 |
| 03360850 | Veales Creek near Washington, Ind. | Lat 38°36'15", long 87°11'39", in NE¼NE¼SW¼ sec. 16, T.2 N., R.7 W., Daviess County, at bridge on State Highway 57, 3.7 miles southwest of Washington. | 29.2 | 1974-79 | 10-04-78 | .77 |
| 03360965 | Duck Creek at Greensboro, Ind. | Lat 39°52'46", long 85°28'03", in SW¼NE¼ sec.35, T.17 N., R.9 E., Henry County, at bridge on County Road 350 South at west edge of Greensboro. | 24.9 | 1976-79 | 10-06-78 | 5.1 |
| 03361891 | Grassy Creek near Greenwood, Ind. | Lat 39°35'00", long 86°05'57", in W¼SW¼ sec.9, T.13 N., R.4 E., at culvert on U.S. Highway 31, 2.3 miles south of intersection with Main Street in Greenwood. | 26.5 | 1979 | 09-11-79 | .24 |
| 03361894 | Brewer ditch at Whiteland, Ind. | Lat 39°33'00", long 86°04'33", in SW¼SW¼SW¼ sec. 22, T.13 N., R.4 E., at culvert on Johnson County Road 500 North in Whiteland. | 1.78 | 1979 | 09-11-79 | 0 |
| 03361899 | Hurricane Creek near Whiteland, Ind. | Lat 39°33'48", long 86°01'18", in NE¼NW¼ sec.19, T.13 N., R.5 E., at county road bridge, 0.2 mile east of intersection of County Roads 400 East and 500 North. | 5.32 | 1979 | 09-11-79 | .95 |
| 03370450 | Grassy Fork at Tampico, Ind. | Lat 38°47'48", long 85°57'12", in SE¼SW¼ sec.10, T.4 N., R.5 E., Jackson County, at bridge on State Highway 39, 0.25 mile south of Tampico. | 31.6 | 1976-79 | 10-02-78 | 8.1 |
| 03371525 | Guthrie Creek near Tunnelton, Ind. | Lat 38°47'22", long 86°21'33", in SE¼SE¼SW¼ sec. 12, T.4 N., R.1 E., 100 feet below county road bridge, 0.8 mile north of intersection with road that goes from Buddha to Tunnelton, 1.1 miles northwest of Tunnelton. | 68.9 | 1979 | 09-11-79 | 6.7 |
| 03371526 | Guthrie Creek tributary near Buddha, Ind. | Lat 38°48'14", long 86°23'56", in SW¼SE¼SW¼ sec. 3, T.4 N., R.1 E., in Lawrence County, 1 mile northeast of Buddha. | 0.15 | 1979 | 09-10-79 | 0 |
| 03371528 | Leatherwood Creek tributary near Bedford, Ind. | Lat 38°48'23", long 86°27'00", in SE¼SE¼ sec. 19, T.5 N., R.1 E., in Lawrence County, on County Road 50 just south of intersection with U.S. Highway 50 at confluence with Leatherwood Creek. | 0.44 | 1979 | 09-11-79 | 0 |
| 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. | 38.3 | 1972-78 | 10-02-78 | 1.5 |
| 03373505 | Beaver Creek at Huron, Ind. | Lat 38°43'07", long 86°41'07", in SE¼SE¼ sec.1, T.3 N., R.3 W., at county road bridge, 0.3 mile southwest from U.S. 50 at Martin-Lawrence county line, and 8 miles west of Huron and 7.5 miles northeast of Shoals. | 40.0 | 1979 | 09-12-79 10-20-79 | .20 .26 |
| 03373506 | Gushing Creek tributary near Shoals, Ind. | Lat 38°39'18", long 86°46'52", in NE¼NE¼ sec.31, T.3 N., R.3 W., in Martin County, at culvert on U.S. Highway 150, 1 mile southeast of Shoals. | 0.71 | 1979 | 09-11-79 | 0 |
| 03373508 | Gushing Creek near Shoals, Ind. | Lat 38°35'32", long 86°46'50", in S¼SE¼ sec.30, T.3 N., R.3 W., in Martin County, at culvert on U.S. Highway 150 just above confluence with Beaver Creek, and 1 mile southeast of Shoals. | 0.36 | 1979 | 09-11-79 | 0 |
| 03373515 | Bogg Creek near Loogootee, Ind. | Lat 38°43'51", long 86°51'29", in SW¼NW¼NE¼ sec. 4, T.3 N., R.4 W., 5 miles northeast of Loogootee. | 45.9 | 1979 | 09-12-79 | 2.2 |
| 03373525 | Little Boggs Creek tributary near Loogootee, Ind. | Lat 38°42'36", long 86°53'53", in SE¼NW¼ sec.7, T.3 N., R.4 W., in Martin County at culvert on county road, 1 mile east of U.S. Highway 231, and 2.5 miles northwest of Loogootee. | 0.45 | 1979 | 09-12-79 | 0 |
| 03373530 | Lost River near Orleans, Ind. | Lat 38°38'11", long 86°21'54", in NE¼SE¼ sec.2, T.2 N., R.1 E., Orange County, at bridge on County Road 400 East, 0.61 mile north of State Highway 337. | 35.0 | 1976-79 | 10-03-78 | 8.1 |
| 03374050 | Upper River Deshee near Monroe City, Ind. | Lat 38°37'16", long 87°23'53", in NW¼ of Survey 10, Vincennes Tract, T.2 N., R.9 W., Knox County, at bridge on State Highway 61, 1.9 miles west of intersection of State Highways 61 and 241. | 14.8 | 1976-79 | 10-05-78 | .22 |

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Measurements | |
|------------------------------------|--|---|----------------------------------|------------------|--------------|--------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Wabash River basin--Continued | | | | | | |
| 03375900 | Straight River near Jasper, Ind. | Lat 38°21'20", long 86°53'32", in NW¼SE¼ sec.7, T.2 S., R.4 W., at bridge on U.S. 162, 0.6 mile north of Maltersville, and 2 miles south of Jasper. | 62.4 | 1979 | 09-12-79 | 4.8 |
| STREAMS TRIBUTARY TO LAKE MICHIGAN | | | | | | |
| Burns ditch basin | | | | | | |
| 04093900 | Coffee Creek at Chesterton, Ind. | Lat 41°36'24", long 87°03'03", on line between secs.1, T.36 N., and sec.36, T.37 N., R.6 W., Porter County, at bridge on Porter Avenue, 0.5 mile east of State Highway 49 in Chesterton. | 15.0 | 1976-79 | 10-04-78 | 6.8 |
| St. Joseph River basin | | | | | | |
| 04099070 | Pigeon Creek near Hamilton, Ind. | Lat 41°36'16", long 84°56'32", in NW¼SW¼SE¼ sec. 5, T.36 N., R.14 E., 3.3 miles southeast of Angola, then south 1.5 miles to a "y" road, turn northeast 0.3 mile to bridge. | 43.3 | 1979 | 11-20-79 | 5.8 |
| 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 | 1972-79 | 10-02-78 | 20.2 |
| 04099845 | Pine Creek near Goshen, Ind. | Lat 41°39'12", long 85°51'38", in center of S¼S¼S¼ sec.17, T.37 N., R.6 E., at bridge on County Road 19, 0.9 mile south of intersection with U.S. Highway 20, and 4.3 miles north of Goshen. | 28.1 | 1979 | 08-15-79 | 21.8 |
| 04100125 | North Branch River near Wolcottville, Ind. | Lat 41°31'31", long 85°27'37", in SW¼SW¼ sec.35, T.35 N., R.9 E., at bridge on county line road, 5.1 miles west of Wolcottville. | 64.4 | 1979 | 08-15-79 | 15.6 |
| 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, 0.75 mile west of State Highway 13. | 33.9 | 1974-79 | 10-02-78 | 9.3 |
| 04100486 | Turkey Creek near Milford, Ind. | Lat 41°24'57", long 85°51'52", in center of W¼W¼W¼ sec.8, T.34 N., R.6 E., at bridge on Kosciusko County Road 1250 North, 0.75 mile west of State Highway 15 in Milford. | 75.9 | 1979 | 08-15-79 | 21.8 |
| 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. | 37.3 | 1973-79 | 10-03-78 | 6.2 |
| UPPER MISSISSIPPI RIVER BASIN | | | | | | |
| Illinois River basin | | | | | | |
| 05515499 | Whitham ditch near Hanna, Ind. | Lat 41°25'08", long 86°42'27", on line and centered between sec.1 and sec.12, T.34 N., R.3 W., at bridge on LaPorte County Road 1300 South, 1.25 miles north of U.S. Highway 30 and 1.5 miles east of State Road 39, and 4 miles east of Hanna. | 42.6 | 1979 | 09-20-79 | 30.8 |
| 05515550 | Robbins ditch near Brems, Ind. | Lat 41°22'25", long 86°39'33", in NE¼NE¼ sec. 29, on line with sec.28, T.34 N., R.2 W., at bridge on LaPorte County Road 200 East, 2 miles west of U.S. Highway 35, and 4 miles west of Hamlet. | 66.8 | 1979 | 09-20-79 | 22.4 |
| 05516650 | Wolf Creek near Argos, Ind. | Lat 41°15'40", long 86°18'32", on line between secs.32 and 33, T.32 N., R.2 E., Marshall County, at bridge on Muckshaw Road, 1.6 miles north of State Highway 10, 3.3 miles west of U.S. Highway 31. | 31.1 | 1976-79 | 10-03-78 | 8.0 |
| 05517750 | Crooked Creek near Kouts, Ind. | Lat 41°17'20", long 87°00'05", on line between secs.21 and 28, T.33 N., R.5 W., Porter County, at bridge on County Road 1000 South, 0.55 mile east of intersection with County Road 275 East, 2.3 miles southeast of Kouts. | 69.9 | 1976-79 | 10-04-78 | 30.5 |
| 05517880 | Wolf Creek near Kouts, Ind. | Lat 41°21'44", long 87°04'59", in SW¼SW¼ sec.26, T.34 N., R.6 W., Porter County, at culvert on County Road 100 West, 1.1 miles north of intersection with County Road 600 South, 4.2 miles northwest of Kouts. | 13.8 | 1976-79 | 10-04-78 | 3.8 |

| Station number | Station name | Location | Drain- age area (mi ²) | Period of record | Measurements | |
|--|--------------------------------------|---|---|------------------------|--------------|--|
| | | | | | Date | Dis- charge (ft ³ /s) |
| UPPER MISSISSIPPI RIVER BASIN--Continued | | | | | | |
| Illinois River basin--Continued | | | | | | |
| 05525300 | Mud Creek near Earl Park, Ind. | Lat 40°38'44", long 87°29'05", in NW¼SE¼NW¼ sec. 6, T.25 N., R.9 W., Benton County, at bridge on State Highway 71, about 4.5 miles southwest of Earl Park. | 34.3 | 1977-79 | 10-02-78 | 2.4 |
| 05525450 | Sugar Creek near Freeland Park, Ind. | Lat 40°38'54", long 87°33'48", in NW¼NW¼ sec. 12, T.25 N., R.11 W., on Iroquois County Bridge 683, 2 miles west of Illinois-Indiana state line, 6 miles northwest of Freeland Park. | 35.9 | 1979 | 09-19-79 | 15.0 |
| 05525650 | Beaver Creek near Morocco, Ind. | Lat 40°57'57", long 87°27'00", in NW¼SW¼SW¼ sec. 15, T.29 N., R.9 W., Newton County, at bridge on U.S. Highway 41, about 2 miles north of Morocco. | 41.5 | 1977-79 | 10-02-78 | 6.0 |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage and high-flow, low-flow partial-record stations

The following table contains annual maximum discharges for crest-stage stations. Some of these are former continuous record-gaging stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Discharge (ft ³ /s) |
|-------------------------|--|---|----------------------------------|---|----------------------|------------------|--------------------------------|
| OHIO RIVER BASIN | | | | | | | |
| Great Miami River basin | | | | | | | |
| 03274730 | Whitewater River tributary near Hagerstown, IN | Lat 39°54'38", long 85°08'57", in NE¼SE¼NE¼ sec.23, T.17 N., R.12 E., Wayne County, at culvert on State Highway 38, 0.7 mile east of Hagerstown. | 0.12 | 1973- | 08-01-79 | 6.65 | 23 |
| 03274880 | Greens Fork tributary near Lynn, IN | Lat 40°01'14", long 84°56'24", SW¼SW¼SW¼ sec.11, T.18 N., R.14 E., Randolph County, at culvert on U.S. Highway 27, 1.9 miles south of intersection of U.S. Highways 27 and 36 in Lynn. | .78 | 1973- | 08-01-79 | 8.86 | 305 |
| 03275800 | West Run near Liberty, IN | Lat 39°38'24", long 84°57'18", in SE¼SE¼SW¼ sec.2, T.14 N., R.2 W., Union County, at culvert on State Highway 44, 4.8 miles east of Fayette-Union County Line, 1.1 miles west of Liberty. | .26 | 1972- | 02-23-79 | 6.14 | 57 |
| 03275900 | Templeton Creek near Fairfield, IN | Lat 39°31'20", long 84°56'51", in SW¼NW¼NW¼ sec.24, T.10 N., R.2 W., Franklin County, at culvert on State Highway 101, 0.25 mile south of Franklin-Union County | 5.39 | 1973- | 02-23-79 | 13.11 | 580 |
| Tanners Creek basin | | | | | | | |
| 03276640 | Tanners Creek tributary near Lawrenceburg, IN | Lat 39°09'18", long 84°52'20", in NW¼SW¼NE¼ sec.27, T.6 N., R.1 W., Dearborn County, at culvert on State Highway 1, 0.25 mile east of Salt Fork Road. | .19 | 1973- | 07-28-79 | 14.57 | 270 |
| Laughery Creek basin | | | | | | | |
| 03276770 | Laughery Creek tributary near Napoleon, IN | Lat 39°13'18", long 85°20'07", in SE¼SE¼SE¼ sec.18, T.9 N., R.11 E., Ripley County, at culvert on U.S. Highway 421, 1.1 miles north of Napoleon. | .11 | 1973- | 09-19-79 | 7.47 | 49 |
| 03276950 | Uhlman Creek tributary near Avonburg, IN | Lat 38°53'33", long 85°11'04", in NW¼NW¼SW¼ sec.10, T.4 N., R.12 E., Switzerland County, at culvert on State Highway 129, 1.5 miles north of State Highway 250 at Pleasant. | .16 | 1973- | 07-28-79 | 7.71 | 60 |
| 03277000 | Laughery Creek near Farmers Retreat, IN | Lat 38°57'08", long 85°04'15", in NW¼SE¼ sec.2, T.4 N., R.3 W., Ohio County, on right bank, 2.4 miles southeast of Farmers Retreat, and 3.8 miles downstream from Bear Creek. | 248 | 1941 ^a , 1942-73 ^b 1974- ^a | 08-01-79 | 12.15 | 10300 |
| Buck Run basin | | | | | | | |
| 03277030 | Buck Run near Rising Sun, IN | Lat 38°59'36", long 84°51'16", in SW¼NW¼SW¼ sec.23, T.4 N., R.1 W., Ohio County, at culvert on State Highway 56, 3.3 miles north of State highway 262 in Rising Sun. | .03 | 1973- | 02-23-79 07-04-79 | 6.65 | 12 |

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|---------------------------|---|---|----------------------------------|------------------|----------|------------------|---------------------------------|
| Indian Creek basin | | | | | | | |
| 03277250 | Indian Creek tributary near ton, IN | Lat 38°52'25", long 85°07'24", in NE¼NW¼NE¼ sec.5, T.4 N., R.3 W., Switzerland County, at culvert on State Highway 250, 3.7 miles east of Pleasant. | 0.16 | 1973- | 07-28-79 | 5.94 | 34 |
| Fourteenmile Creek basin | | | | | | | |
| 03292350 | Flag Run tributary near New Washington, IN | Lat 38°31'08", long 85°32'29", in NW¼NW¼NE¼ sec.20, T.1 N., R.9 E., Clark County, at culvert on State Highway 62, 3.0 miles south of New Washington. | .16 | 1973- | 12-09-78 | 5.49 | 8 |
| Indian Creek basin | | | | | | | |
| 03302350 | Georgetown Creek near tributary Georgetown, IN | Lat 38°17'30", long 85°56'26", in SW¼NW¼SW¼ sec.35, T.25 N., R.5 E., Floyd County, at culvert on State Highway 64, 1.8 miles east of Georgetown. | .56 | 1973- | 04-02-79 | 6.93 | 105 |
| Blue River basin | | | | | | | |
| 03302690 | Middle Fork Blue River tributary near Farabee, IN | Lat 38°32'44", long 86°02'14", in NE¼SW¼SE¼ sec.2, T.1 N., R.4 E., Washington County, at culvert on State Highway 60, 3.3 miles west of State Highway 56. | .07 | 1972- | 12-08-78 | 5.27 | 8 |
| 03302730 | South Fork Blue River near Palmyra, IN | Lat 38°28'07", long 86°04'55", in NE¼NW¼ sec.4, T.15 N., R.4 E., Washington County, at bridge on Old Palmyra Road, 0.2 mile north of State Highway 135, and 4.7 miles north of the intersection of U.S. Highway 150 and State Highway 135 in Palmyra. | 64.3 | 1974- | 07-26-79 | 20.15 | 3100 |
| Little Blue River basin | | | | | | | |
| 03303050 | Bird Hollow Creek at English, IN | Lat 38°21'02", long 86°28'01", in SE¼NE¼NW¼ sec.13, T.2 S., R.1 W., Crawford County, at bridge on State Highway 37, 0.7 mile north of State Highway 64. | 9.31 | 1974- | 07-26-79 | 17.80 | 8500 |
| Anderson River basin | | | | | | | |
| 03303250 | Sigler Creek tributary at Uniontown, IN | Lat 38°13'21", long 86°41'50", in NW¼SW¼SW¼ sec.25, T.3 S., R.3 W., Perry County, at culvert on State Highway 145, 0.1 mile south of State Highway 62 and U.S. Highway 460. | .15 | 1973- | 07-26-79 | 10.56 | 170 |
| Crooked Creek basin | | | | | | | |
| 03303440 | East Fork Crooked Creek tributary near Fulda, IN | Lat 38°05'18", long 86°49'12", in NW¼NW¼NE¼ sec.14, T.5 S., R.4 W., Spencer County, at culvert on State Highway 545, 1.6 miles south of Fulda. | .26 | 1973- | 07-26-79 | 10.02 | 160 |
| Little Pigeon Creek basin | | | | | | | |
| 03303900 | Little Red Creek tributary near Heilman, IN | Lat 38°11'35", long 87°05'22", in NE¼SE¼SE¼ sec.5, T.4 S., R.6 W., Warrick County, at culvert on State Highway 161, 2.4 miles north of Heilman. | .25 ^c | 1973- | 07-26-79 | 9.38 | 102 |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Discharge (ft ³ /s) |
|--------------------|---|---|----------------------------------|------------------|----------------------|------------------|--------------------------------|
| Wabash River basin | | | | | | | |
| 03323150 | Rock Creek near Rockford, IN | Lat 40°44'31", long 85°18'24", in NW¼NE¼ sec.5, T.26 N., R.11 E., Wells County, at bridge on State Highway 124, 1.3 miles south of Rockford, and 3.5 miles east of State Highway 3. | 77 ^c | 1974- | ----- | (d) | --- |
| 03324050 | Clear Creek near Huntington, IN | Lat 40°54'57", long 85°32'42", in SE¼NE¼NW¼ sec.5, T.28 N., R.9 E., Huntington County, at bridge on State Highway 16, 0.8 mile west of State Highway 5, and 3.4 miles northwest of Huntington. | 49 ^c | 1974- | ----- | (d) | --- |
| 03324210 | Blaine Run at Blaine, IN | Lat 40°24'15", long 85°03'19", in NW¼SW¼NW¼ sec.35, T.23 N., R.13 E., Jay County, at culvert on State Highway 67, 0.1 mile northeast of Blaine. | .45 | 1972- | 07-25-79 | 7.42 | 66 |
| 03324260 | Salamonie River tributary near Montpelier, IN | Lat 40°33'06", long 85°19'25", in NW¼NW¼NE¼ sec.7, T.24 N., R.11 E., Blackford County, at culvert on State Highway 18, 2.5 miles east of State Highway 3. | .86 | 1972- | ----- | (d) | --- |
| 03324350 | Brook Creek tributary near Warren, IN | Lat 40°44'35", long 85°26'42", in SW¼SE¼SW¼ sec.31, T.27 N., R.10 E., Huntington at culvert on State Highway 5, 1.6 miles northwest of Interstate Highway 69. | .52 | 1972- | 12-04-78 | 5.38 | 12 |
| 03327530 | Minnow Creek tributary near Logansport, IN | Lat 40°43'46", long 86°17'48", in NW¼NW¼SW¼ sec.3, T.26 N., R.2 E., Cass County, at culvert on U.S. Highway 35 4.0 miles southeast of State Highway 29 in Logansport. | .50 | 1972- | 03-05-79 | 6.29 | 54 |
| 03327790 | Eel River tributary near Columbia City, IN | Lat 41°07'01", long 85°31'21", Beaver Reserve, Columbia Township, Whitley County, at culvert on State Highway 205, 3.8 miles southwest of U.S. Highway 30 in Columbia City. | .17 | 1972- | 03-05-79 | 5.69 | 9 |
| 03327930 | Koontz ditch near Sidney, IN | Lat 41°07'28", long 85°44'38", in NW¼NW¼SW¼ sec.22, T.31 N., R.7 E., Kosciusko County, at culvert on State Highway 13, 3.5 miles north of State Highway 14. | 2.5 ^c | 1972- | 03-05-79 | 6.18 | 27 |
| 03328020 | Otter Creek tributary near North Manchester, IN | Lat 40°59'59", long 85°49'37", in SW¼SE¼SW¼ sec.35, T.30 N., R.6 E., Wabash County, at culvert on State Highway 114, 1.7 miles west of State Highway 13. | .92 | 1972- | 03-04-79 | 5.87 | 55 |
| 03329720 | Robinson Branch near Delphi, IN | Lat 40°37'10", long 86°37'01", in NE¼NW¼NW¼ sec.14, T.25 N., R.2 W., Carroll County, at culvert on State Highway 25, 2.0 miles northeast of State Highway 218, 3.9 miles northeast of State Highway 39 in Delphi. | 5.62 | 1972- | 04-12-79 06-13-79 | 5.56 | 64 |
| 03330290 | Shanton ditch near Piercetown, IN | Lat 41°12'45", long 85°41'10", in NW¼NE¼SW¼ sec.22, T.32 N., R.7 E., Kosciusko County, at culvert on State Highway 13, 0.6 mile north of U.S. Highway 30. | .70 | 1972- | 12-10-78 | 5.39 | 10 |

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Discharge (ft ³ /s) |
|-------------------------------|---|---|----------------------------------|--|----------|------------------|--------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03332300 | Little Indian Creek near Royal Center, IN | Lat 40°52'53", long 86°35'26", in NE¼NW¼ sec.13, T.28 N., R.2 W., White County, on right bank at downstream side of county road bridge, 2.9 miles upstream from mouth, 3.2 miles downstream from Fredericks ditch, and 4.8 miles northwest of Royal Center Post Office. | 35 | 1959-73 ^b 1974- ^c | 03-06-79 | 4.62 | 174 |
| 03332340 | Weltzin ditch tributary near Francesville, IN | Lat 40°48'00", long 86°46'33", in SW¼NW¼NW¼ sec.16, T.29 N., R.3 W., Pulaski County, at culvert on State Highway 39, 6.1 miles south of State Highway 14. | .50 | 1973- | 03-06-79 | 5.50 | 12 |
| 03332400 | Big Monon Creek near Francesville, IN | Lat 40°59'03", long 86°51'43", in NW¼NE¼ sec.10, T.29 N., R.4 W., Pulaski County, on right bank at downstream side of county road bridge, 1.1 miles east of Francesville, 1.6 miles downstream from right bank tributary, and 10.2 miles upstream from mouth. | 152 | 1959-73 ^b 1974- ^c | 03-06-79 | 16.39 | 2100 |
| 03332780 | Big Creek near Wolcott, IN | Lat 40°41'26", long 87°02'37", in SE¼NE¼NE¼ sec.24, T.26 N., R.6 W., White County, at culvert on U.S. Highway 231, 4.4 miles south of Wolcott. | 1.35 | 1972- | 10-09-78 | 8.76 | 160 |
| 03333420 | Grassy Fork tributary at Point Isabel, IN | Lat 40°25'28", long 85°49'28", in NE¼SE¼SE¼ sec.22, T.23 N., R.6 E., Grant County, at culvert on State Highway 13, 1,100 ft north of State Highway 26 in Point Isabel. | .67 | 1973- | 03-04-79 | 5.68 | 34 |
| 03333620 | Scott Youngman ditch near Kokomo, IN | Lat 40°25'10", long 86°04'39", in NW¼NW¼NE¼ sec.28, T.23 N., R.4 E., Howard County, at culvert on State Highway 26, 2.4 miles west of State Highway 19. | .86 | 1973- | 07-13-79 | 6.81 | 31 |
| 03334000 | Wildcat Creek at Owasco, IN | Lat 40°27'50", long 86°38'15", in SE¼SE¼ sec.4, T.23 N., R.2 W., Carroll County, on left bank 500 ft downstream from bridge on State Highway 39, 0.5 mile northwest of Owasco, and 15 miles upstream from South Fork Wildcat Creek. | 396 | 1944-73 ^b 1944- ^a | 03-04-79 | 5.40 | 2000 |
| 03334200 | Prairie Creek tributary near Frankfort, IN | Lat 40°15'14", long 86°30'36", in NW¼SE¼NE¼ sec.22, T.21 N., R.1 W., Clinton County, at culvert on State Highways 38 and 39, 1.8 miles south of State Highway 28 in Frankfort. | 2.61 | 1972- | 03-04-79 | 7.62 | 90 |
| 03334900 | South Fork Wildcat Creek tributary near Monitor, IN | Lat 40°25'13", long 86°46'22", in NE¼SE¼SE¼ sec.20, T.23 N., R.3 W., Tippecanoe at culvert on State Highway 26, 0.4 mile northwest of Monitor Springs. | .10 | 1972- | 07-04-79 | 6.84 | 66 |
| 03335685 | Big Pine Creek tributary near Pine Village, IN | Lat 40°25'24", long 87°15'32", in SE¼NW¼SW¼ sec.19, T.23 N., T.7 W., Warren County, at culvert on State Highway 55, 1.9 miles south of State Highway 26 in Pine Village. | .21 | 1972- | 07-04-79 | 5.49 | 57 |
| 03335790 | Big Shawnee Creek tributary near Attica, IN | Lat 40°16'48", long 87°10'29", in NE¼NW¼SE¼ sec.11, T.21 N., R.7 W., Fountain County, at culvert on State Highway 28, 1.4 miles west of State Highway 341 and 4.3 miles east of Attica. | 1.22 | 1973- | 03-04-79 | 6.22 | 110 |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|-------------------------------|---|---|----------------------------------|--------------------------------|----------|------------------|---------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03339230 | Woods ditch near Frankfort, IN | Lat 40°13'13", long 86°27'34", in NE¼NE¼SW¼ sec.31, T.21 N., R.1 E., Clinton County, at culvert on State Highway 38, 2.2 miles southeast of State Highway 39. | 1.12 | 1972- | 03-04-79 | 5.85 | 12 |
| 03341150 | Demeree Creek tributary near Byron, IN | Lat 39°52'39", long 87°05'56", in NW¼SW¼NE¼ sec.33, T.17 N., R.6 W., Parke County, at culvert on State Highway 47, 0.5 mile west of Montgomery County Line. | .15 | 1973- | 08-21-79 | 7.99 | 110 |
| 03342180 | Kettle Creek tributary near Shelburn, IN | Lat 39°10'36", long 87°22'27", in SW¼SE¼SE¼ sec.26, T.9 N., R.9 W., Sullivan County, at culvert on State Highway 28, 1.0 mile east of U.S. Highways 41 and 150. | .48 | 1972- | 07-27-79 | 11.52 | 490 |
| 03346650 | River Deshee tributary near Fritchton, IN | Lat 38°40'33", long 87°25'47", in SW¼ survey 29, Vincennes tract, Palmyra Township, Knox County, at culvert on new U.S. Highways 50 and 150, 0.5 mile southwest of Fritchton. | .82 | 1973- | 08-03-79 | 7.62 | 98 |
| 03346840 | White River tributary at Parker City, IN | Lat 40°11'35", long 85°11'34", in SE¼SW¼SE¼ sec.9, T.20 N., R.12 E., Randolph County, at culvert on State Highway 32, 3.3 miles west of intersection of State Highways 1 and 32 in Farmland. | .20 | 1972- | 02-24-79 | 5.76 | 15 |
| 03348700 | White River tributary near Strawtown, IN | Lat 40°06'47", long 85°57'10", in NW¼SE¼NW¼ sec.10, T.19 N., R.5 E., Hamilton County, at culvert on State Highway 37, 0.9 mile south of intersection of State Highway 37 and Strawtown Avenue in Strawtown. | .42 | 1973- | 08-03-79 | 8.42 | 103 |
| 03349500 | Cicero Creek near Arcadia, IN | 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 east of Arcadia, 12.5 miles upstream from Morse Dam, and at mile 17.2. | 131 | 1955-76 ^b 1977-a | 07-13-79 | 8.61 | 1500 |
| 03349700 | Little Cicero Creek near Arcadia, IN | 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 downstream from Taylor Creek, 1.3 miles west of Arcadia, 3.9 miles upstream from mouth, and 9.3 miles northwest of Noblesville. | 40.4 | 1956-76 ^b 1977-a | 07-13-79 | 7.88 | 844 |
| 03350100 | Hinkle Creek near Cicero, IN | 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 bridge on county road, 3.7 miles above mouth, 4.0 miles upstream from Morse Reservoir Dam, 4.2 miles southwest of Cicero, and 5.7 miles northwest of Noblesville. | 18.5 | 1956-76 ^b | 07-28-79 | 6.29 | 1780 |
| 03350650 | Stony Creek tributary near Lapel, IN | Lat 40°05'18", long 85°49'22", in NE¼NW¼NW¼ sec.23, T.19 N., R.6 E., Madison County, at culvert on State Highway 32, 2.0 miles northeast of State Highways 13 and 32 in Lapel. | .46 | 1973- | 07-28-79 | 5.61 | 62 |

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|-------------------------------|--|---|----------------------------------|--------------------------------|----------|------------------|---------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03352200 | Mud Creek at Indianapolis, IN | 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 northeast of intersection of 75th Street and Sargent Road, 1.5 miles upstream from mouth, and 2.0 miles southeast of Castleton. | 42.4 | 1958-76 ^b 1977-a | 07-28-79 | 6.95 | 750 |
| 03352400 | Blue Creek near Castleton, IN | Lat 39°53'23", long 86°02'46", in NW¼NE¼SE¼ sec.26, T.17 N., R.4 E., Marion County, at culvert on State Highway 100, 0.1 mile south of 75th Street, 1.2 miles south of Castleton. | .77 | 1972- | 06-09-79 | 7.18 | 78 |
| 03353668 | White Lick Creek tributary near Brownsburg, IN | Lat 39°53'54", long 86°23'34", in SE¼NE¼SE¼ sec.22, T.17 N., R.1 E., Hendricks County, at culvert on State Highway 267, 4.0 miles north of U.S. Highway 136 in Brownsburg. | .31 | 1972- | 07-13-79 | 6.39 | 92 |
| 03355000 | Bear Creek near Trevlac, IN | Lat 39°16'40", long 86°20'45", in NE¼NE¼ sec.30, T.10 N., R.2 E., Brown County, on left bank 15 ft west of Bear Creek Road, 100 ft upstream from Slippery Elm Shoot Road ford, 1.1 miles northwest of Trevlac, and 1.3 miles upstream from mouth. | 6.94 | 1952-73 ^b 1974-a | 07-28-79 | 7.61 | 1860 |
| 03356780 | Limestone Creek tributary near Gosport, IN | Lat 39°21'12", long 86°40'58", in NE¼NW¼NW¼ sec.31, T.11 N., R.2 W., Owen County, at culvert on State Highway 67, 0.9 mile west of Gosport. | .72 | 1972- | 08-19-79 | 6.83 | 165 |
| 03357430 | Owl Creek tributary near Bainbridge, IN | Lat 39°45'46", long 86°52'53", in SW¼SE¼SW¼ sec.5, T.15 N., R.4 W., Putnam County, at culvert on U.S. Highway 36, 3.7 miles west of Bainbridge. | .58 | 1973- | 07-28-79 | 7.97 | 140 |
| 03360100 | Clear Branch at Cory, IN | Lat 39°23'20", long 87°11'58", in SE¼SW¼SW¼ sec.16, T.11 N., R.7 at W., Clay County, culvert on State Highway 46, 4.9 miles west of State Highway 59. | .27 | 1973- | 07-28-79 | 7.93 | 81 |
| 03360400 | Doans Creek tributary near Doans, IN | Lat 38°55'12", long 86°50'54", in SW¼SW¼SW¼ sec.27, T.6 N., R.4 W., Greene County, at culvert on State Highway 58 at Doans. | .20 | 1973- | 07-29-79 | 8.27 | 120 |
| 03360600 | Smothers Creek near Plainville, IN | Lat 38°48'43", long 87°07'48", in SE¼NW¼ sec.1, T.4 N., R.7 W., Daviess County, at county road bridge, 1.3 miles northeast of State Highway 57 in Plainville. | 33 ^c | 1974- | 07-29-79 | 15.91 | 930 |
| 03360750 | Miller ditch tributary near Bicknell, IN | Lat 38°47'08", long 87°18'36", in SE¼NW¼NW¼ sec.16, T.4 N., R.8 W., Knox County, at culvert on State Highway 159, 0.4 mile north of State Highway 67 in Bicknell. | .50 | 1973- | 08-16-79 | 7.62 | 120 |
| 03360850 | Veales Creek tributary at Washington, IN | Lat 38°37'16", long 87°11'00", in SW¼SW¼NW¼ sec.10, T.2 N., R.7 W., Daviess County, at culvert on State Highway 57, 2.3 miles south of U.S. Highway 50 in Washington. | .27 | 1973- | 07-26-79 | 7.70 | 160 |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Discharge (ft ³ /s) |
|-------------------------------|--|---|----------------------------------|--------------------|----------|------------------|--------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03361660 | Little Sugar Creek tributary at Carrollton, IN | Lat 39°42'22", long 85°49'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.15 N., R.6 E., Hancock County, culvert on U.S. Highway 52, 3.4 miles southeast of New Palestine. | 0.70 | 1973- | 08-02-79 | 6.48 | 105 |
| 03361890 | Gilmore Creek near Bargersville, IN | Lat 39°30'44", long 86°08'26", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.12 N., R.3 E., Johnson County, at culvert on State Highway 144, 1.0 mile southeast of State Highway 135 east of Bargersville. | .71 | 1973- | 07-14-79 | 8.13 | 160 |
| 03363450 | Little Flatrock Creek at Milroy, IN | Lat 39°29'49", long 85°28'24", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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- | ----- | (d) | --- |
| 03364100 | Tough Creek near Norristown, IN | Lat 39°22'19", long 85°45'38", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.11 N., R.7 E., Shelby County, at culvert on county road, 0.5 mile north of Norristown. | 1.46 | 1973- | 01-02-79 | 8.34 | 160 |
| 03364570 | Fall Fork Clifty Creek tributary near Horace, IN | Lat 39°16'01", long 85°34'30", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.10 N., R.9 E., Decatur County, at culvert on State Highway 3, 2.8 miles south of State Highway 46, 0.4 mile north of Horace. | .83 | 1973- | 06-20-79 | 10.29 | 270 |
| 03366400 | Lewis Creek tributary near Kent, IN | Lat 38°44'13", long 85°34'39", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.3 N., R.8 E., Jefferson County, on State Highway 256, 2.8 miles west of Kent. | .16 | 1973- | 07-28-79 | 7.71 | 130 |
| 03367600 | Flat Creek tributary at New Frankfort, IN | Lat 38°44'18", long 85°42'50", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.4 N., R.7 E., Scott County, at culvert on State Highway 256, 0.2 mile northwest of State Highway 203. | .34 | 1973- | 06-09-79 | 7.44 | 150 |
| 03369700 | Sixmile Creek tributary near North Vernon, IN | Lat 39°01'55", long 85°38'24", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.7 N., R.8 E., Jennings County, at culvert on State Highway 3, 1.2 miles north of State Highway 7 in North Vernon. | .39 | 1973- | 08-01-79 | 7.31 | 52 |
| 03370100 | Blau ditch tributary near Crothersville, IN | Lat 38°48'17", long 85°50'25", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.4 N., R.6 E., Jackson County, at culvert on U.S. Highway 31, 1.4 miles north of Crothersville. | 1.31 | 1973- | 03-19-79 | 7.03 | 33 |
| 03371630 | North Fork Salt Creek tributary near Nashville, IN | Lat 39°11'38", long 86°12'11", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.9 N., R.3 E., Brown County, at culvert on State Highway 46, 2.6 miles east of State Highway 135 in Nashville. | .22 | 1973- | 03-19-79 | 6.97 | 31 |
| 03371650 | North Fork Salt Creek at Nashville, IN | Lat 39°12'06", long 86°14'51", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.9 N., R.3 E., Brown County, on right bank 90 ft downstream from bridge on State Highway 46, 800 ft downstream from Greasy Creek, and and 0.4 mile south of center of Nashville. | 76.1 | 1962-76b 1974-a | 07-13-79 | 14.79 | 6000 |
| 03372670 | Jackson Creek near Bloomington, IN | Lat 39°07'17", long 86°30'50", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.8 N., R.1 W., Monroe County, at bridge on Rhorer Road 0.95 mile east of State Highway 37 on the south side of Bloomington. | 4.66 | 1974-76b 1977-a | ----- | (d) | --- |

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|-------------------------------|--|---|----------------------------------|--------------------------------|----------|------------------|---------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03372675 | Jackson Creek at Clear Creek, IN | Lat 39°06'01", long 86°32'18", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.8 N., R.1 W., Monroe County, at bridge on Rogers Street, 400 ft north of State Highway 37 and 0.5 mile south of Clear Creek Road in Clear Creek. | 10.8 | 1975- | ----- | (d) | --- |
| 03372680 | Clear Creek tributary near Bloomington, IN | Lat 39°04'24", long 86°32'39", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.7 N., R.1 W., Monroe County, at culvert on Old State Highway 37, 6.5 miles south of Bloomington. | .38 | 1972- | 07-13-79 | 7.74 | 110 |
| 03373200 | Indian Creek near Springville, IN | Lat 38°57'01", long 86°40'30", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.6 N., R.2 W., Lawrence County, on left bank at downstream side of bridge on State Highway 54, 0.2 mile downstream from Popcorn Creek, and 4 miles northwest of Springville. | 60.7 | 1961-73 ^b 1974-a | 06-09-79 | 5.89 | 1340 |
| 03373240 | Spring Creek tributary near Springville, IN | Lat 38°54'41", long 86°39'09", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.6 N., R.2 W., Lawrence County, at culvert on State Highway 58, 2.7 miles southwest of Springville. | .54 | 1972- | 06-09-79 | 7.54 | 140 |
| 03373680 | French Lick Creek tributary near French Lick, IN | Lat 38°30'08", long 86°36'20", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.1 N., R.2 W., Orange County, at culvert on State Highway 145, 4.3 miles south of intersection of State Highways 145 and 56 in French Lick. | .29 | 1973- | 07-27-79 | 8.84 | 215 |
| 03373850 | Slate Creek tributary near Haysville, IN | Lat 38°33'30", long 86°54'10", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.2 N., R.4 W., Martin County, at culvert on U.S. Highway 231, 5.5 miles north of intersection of U.S. Highway 231 and State Highway 56, in Haysville, 8.0 miles south of intersection of U.S. Highways 231, 150, and 50 in Loogootee. | .14 | 1973- | 06-09-79 | 6.65 | 80 |
| 03376230 | Shiloh Drain near Jasper, IN | Lat 38°24'26", long 86°58'47", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.15 N., R.5 W., Dubois County, at culvert on State Highway 56, at Ireland, 2.8 miles northwest of Jasper. | .57 | 1973- | 06-10-79 | 10.85 | 350 |
| 03376340 | Patoka River tributary near Glezen, IN | Lat 38°23'41", long 87°19'05", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.1 S., R.8 W., Pike County, at culvert on State Highway 57, 7.9 miles south of intersection of State Highways 61, 56, and 57 in Petersburg. | .84 | 1973- | 07-27-79 | 10.71 | 350 |
| 03376600 | Patoka River tributary near Patoka, IN | Lat 38°23'08", long 87°35'21", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.15 N., R.11 W., Gibson County, at culvert on old U.S. Highway 41, 1.2 miles south of Patoka River at Patoka. | .40 | 1973- | 08-16-79 | 11.98 | 170 |
| 03378450 | Black River near Poseyville, IN | Lat 38°12'00", long 87°46'51", on line between SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, and SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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- | ----- | (e) | --- |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|------------------------------------|--|--|----------------------------------|--------------------------------|----------|------------------|---------------------------------|
| Wabash River basin--Continued | | | | | | | |
| 03378590 | Olive Creek tributary near Solitude, IN | Lat 38°00'14", long 87°53'57", in NW¼SE¼NW¼ sec.17, T.6 S., R.13 W., Posey County, at culvert on State Highway 69, 0.65 mile south of Solitude. | 0.32 | 1973- | 03-30-79 | 8.41 | 120 |
| STREAMS TRIBUTARY TO LAKE MICHIGAN | | | | | | | |
| Trail Creek basin | | | | | | | |
| 04095250 | East Branch Trail Creek tributary near Springville, IN | Lat 41°41'22", long 86°46'42", in NE¼SE¼NE¼ sec.5, T.37 N., R.3 W., LaPorte County, at culvert on U.S. Highway 20, 1.4 miles east of U.S. Highway 35. | .17 | 1972- | 03-04-79 | 5.51 | 12 |
| St. Joseph River basin | | | | | | | |
| 04099060 | Pigeon Creek tributary near Ellis, IN | Lat 41°37'43", long 84°54'56", in NW¼NW¼NW¼ sec.34, T.37 N., R.14 E., Steuben County, at culvert on State Highway 1, 0.25 mile south of U.S. Highway 20. | 1.22 | 1972- | 03-05-79 | 4.27 | 29 |
| 04100165 | Wible Lake inlet near Kendallville, IN | Lat 41°29'15", long 85°16'13", in NW¼NW¼SW¼ sec.16, T.35 N., R.11 E., Noble County, at culvert on State Highway 3, 1.9 miles north of U.S. Highway 6 in Kendallville. | 2.47 | 1972- | 03-04-79 | 4.03 | 17 |
| 04100800 | Yellow Creek at Dunlap, IN | Lat 41°38'44", long 85°56'00", in NE¼NE¼ sec.27, T.37 N., R.5 E., Elkhart County, at bridge on U.S. Highway 33, at northwest edge of Dunlap. | 33 ^c | 1974- | ----- | (d) | --- |
| STREAMS TRIBUTARY TO LAKE ERIE | | | | | | | |
| Maumee River basin | | | | | | | |
| 04179500 | Cedar Creek at Auburn, IN | Lat 41°21'57", long 85°03'08", in NE¼NW¼ sec.32, T.34 N., R.13 E., DeKalb County, on right bank 15 ft downstream from Ninth Street bridge in Auburn, and 2 miles upstream from John Diehl ditch. | 87.3 | 1943-73 ^b 1974-a | ----- | (d) | --- |
| 04179510 | Cecil Metcalf ditch near Auburn, IN | Lat 41°21'55", long 85°01'07", in SW¼NE¼NW¼ sec.34, T.34 N., R.13 E., DeKalb County, culvert on State Highway 8, 2.0 miles east of State Highway 427 in Auburn. | .78 | 1972- | 08-23-79 | 7.40 | 90 |
| 04191310 | Flatrock Creek tributary near Monroeville, IN | Lat 40°53'42", long 84°51'42", in NW¼SW¼SW¼ sec.8, T.28 N., R.15 E., Adams County, at culvert on State Highway 101, 1.8 miles south of Adams-Allen County Line. | .83 | 1972- | ----- | (d) | --- |
| UPPER MISSISSIPPI RIVER BASIN | | | | | | | |
| Illinois River basin | | | | | | | |
| 05516000 | Yellow River near Bremen, IN | Lat 41°25'11", long 86°10'14", in NW¼NW¼ sec.10, T.34 N., R.3 E., Marshall County, on left bank at downstream side of bridge on East 4th Road, 0.5 mile downstream from Bunch ditch, 2 miles southwest of Bremen, and 4 miles upstream from Dausman ditch. | 135 | 1955-73 ^b 1974-a | 03-07-79 | 10.23 | 793 |

Crest-stage and high-flow, low-flow partial-record stations--Continued

| Station number | Station name | Location | Drainage area (mi ²) | Period of record | Date | Gage height (ft) | Dis-charge (ft ³ /s) |
|---------------------------------|---|--|----------------------------------|------------------|----------|------------------|---------------------------------|
| Illinois River basin--Continued | | | | | | | |
| 05516150 | Walt Kimble ditch near LaPaz, IN | Lat 41°26'59", long 86°14'16", in SW¼SE¼SE¼ sec.25, T.35 N., R.2 E., Marshall County, at culvert on U.S. Highway 6, 3.8 miles east of U.S. Highway 31. | 1.50 | 1972- | 03-07-79 | 8.53 | 130 |
| 05516950 | Eagle Creek near Grovertown, IN | Lat 41°18'44", long 86°31'27", in SE¼NE¼ sec.16, T.33 N., R.1 W., Starke County, at bridge on State Highway 23, 0.3 mile south of County Road 100 North, and 5.2 miles south of U.S. Highway 30 in Grovertown. | 32 ^c | 1973- | ----- | (e) | --- |
| 05517400 | West Arm Payne ditch near North Judson, IN | Lat 41°12'55", long 86°52'13", in SW¼SW¼SE¼ sec.16, T.32 N., R.4 W., Starke County, at bridge on State Highway 10, 1.3 miles east of U.S. Highway 421. | 2.58 | 1973- | 03-11-79 | 7.52 | 150 |
| 05517780 | Sievers Creek tributary near Valparaiso, IN | Lat 41°24'41", long 87°08'08", in NE¼NE¼SW¼ sec.8, T.34 N., R.6 W., Porter County, at culvert on State Highway 2, 5.7 miles southwest of Valparaiso. | .39 | 1972- | 03-05-79 | 9.37 | 80 |
| 05524300 | Yeoman ditch tributary near Rensselaer, IN | Lat 40°56'27", long 87°14'10", in SW¼SW¼SW¼ sec.21, T.29 N., R.7 W., Jasper County, at culvert on State Highway 114, 4.5 miles west of U.S. Highway 231 in Rensselaer. | .57 | 1972- | 04-12-79 | 6.68 | 53 |
| 05524700 | Talley ditch near Kentland, IN | Lat 40°46'02", long 87°24'31", in SW¼SW¼SE¼ sec.23, T.27 N., R.9 W., Newton County, at culvert on U.S. Highway 24, 1.6 miles east of U.S. Highways 41 and 52. | 4.16 | 1972- | 06-14-79 | 8.09 | 320 |

^aNonrecording^bRecording.^cAbout.^dInsufficient data for peaks.^eNo peak recorded.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at crest-stage and high-flow, low-flow partial-record stations

| Station No. | Station name | Location | Drainage area (mi ²) | Date | Dis-charge (ft ³ /s) |
|-------------------------|--|--|----------------------------------|----------------------------------|---------------------------------|
| 03274880 | Greens Fork tributary near Lynn, IN | Lat 40°01'14", long 84°56'24", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.18 N., R.14 E., Randolph County, at culvert on U.S. Highway 27, 1.9 miles south of intersection of U.S. Highways 27 and 36 in Lynn. | 0.78 | 08-22-79 08-22-79 | 32.0 33.4 |
| 03275800 | West Run near Liberty, IN | Lat 39°38'24", long 84°57'18", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.14 N., R.2 W., Union County, at culvert on State Highway 44, 4.8 miles east of Fayette-Union County Line, 1.1 miles west of Liberty. | .26 | 08-23-79 | 8.49 |
| 03275900 | Templeton Creek near Fairfield, IN | Lat 39°31'20", long 84°56'51", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.10 N., R.2 W., Franklin County, at culvert on State Highway 101, 0.25 mile south of Franklin-Union County line. | 5.39 | 08-23-79 08-23-79 08-23-79 | 91.2 81.1 80.2 |
| Blue River basin | | | | | |
| 03302730 | South Fork Blue River near Palmyra, IN | Lat 38°28'07", long 86°04'55", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.15 N., R.4 E., Washington County, at bridge on Old Palmyra Road, 0.2 mile north of State Highway 135, and 4.7 miles north of the intersection of U.S. Highway 150 and State Highway 135 in Palmyra. | 64.3 | 10-03-78 07-26-79 | 5.01 1360 |
| Little Blue River basin | | | | | |
| 03303050 | Bird Hollow Creek at English, IN | Lat 38°21'02", long 86°28'01", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.2 S., R.1 W., Crawford County, at bridge on State Highway 37, 0.7 mile north of State Highway 64. | 9.31 | 11-03-77 09-13-78 | 3.36 0.04 |
| Crooked Creek basin | | | | | |
| 03303440 | East Fork Crooked Creek tributary near Fulda, IN | Lat 38°05'18", long 86°49'12", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.5 S., R.4 W., Spencer County, at culvert on State Highway 545, 1.6 miles south of Fulda. | .26 | 07-27-79 | 5.52 |
| Wabash River basin | | | | | |
| 03323150 | Rock Creek near Rockford, IN | Lat 40°44'31", long 85°18'24", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.26 N., R.11 E., Wells County, at bridge on State Highway 124, 1.3 miles south of Rockford, and 3.5 miles east of State Highway 3. | 77 ^a | 10-25-77 | 4.75 |
| 03332400 | Big Monon Creek near Francesville, IN | Lat 40°59'03", long 86°51'43", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.29 N., R.4 W., Pulaski County, on right bank at downstream side of county road bridge, 1.1 miles east of Francesville, 1.6 miles downstream from right bank tributary, and 10.2 miles upstream from mouth. | 152 | 09-07-78 | 14.1 |
| 03333620 | Scott Youngman ditch near Kokomo, IN | Lat 40°25'10", long 86°04'39", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.23 N., R.4 E., Howard County, at culvert on State Highway 26, 2.4 miles west of State Highway 19. | .86 | 02-28-79 | 5.31 |
| 03341150 | Demeree Creek tributary near Byron, IN | Lat 39°52'39", long 87°05'56", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.17 N., R.6 W., Parke County, at culvert on State Highway 47, 0.5 mile west of Montgomery County Line. | .15 | 07-28-79 | 11.4 |

Discharge measurements made at crest-stage and high-flow, low-flow partial-record stations--Continued

| Station No. | Station name | Location | Drainage area (mi ²) | Date | Dis-charge (ft ³ /s) |
|--------------------------------|--|--|----------------------------------|----------------------|---------------------------------|
| Wabash River basin--Continued | | | | | |
| 03352400 | Blue Creek near Castleton, IN | Lat 39°53'23", long 86°02'46", in NW¼NE¼SE¼ sec.26, T.17 N., R.4 E., Marion County, at culvert on State Highway 100, 0.1 mile south of 75th Street, 1.2 miles south of Castleton. | 0.77 | 07-13-79 | 67.5 |
| 03353668 | White Lick Creek tributary near Brownsburg, IN | Lat 39°53'54", long 86°23'34", in SE¼NE¼SE¼ sec.22, T.17 N., R.1 E., Hendricks County, at culvert on State Highway 267, 4.0 miles north of U.S. Highway 136 in Brownsburg. | .31 | 07-13-79 | 50.5 |
| 03356780 | Limestone Creek tributary near Gosport, IN | Lat 39°21'12", long 86°40'58", in NE¼NW¼NW¼ sec.31, T.11 N., R.2 W., Owen County, at culvert on State Highway 67, 0.9 mile west of Gosport. | .72 | 07-13-79 | 84.5 |
| 03357430 | Owl Creek tributary near Bainbridge, IN | Lat 39°45'46", long 86°52'53", in SW¼SE¼SW¼ sec.5, T.15 N., R.4 W., Putnam County, at culvert on U.S. Highway 36, 3.7 miles west of Bainbridge. | .58 | 07-13-79 | 9.09 |
| 03369700 | Sixmile Creek tributary near North Vernon, IN | Lat 39°01'55", long 85°38'24", in NW¼SW¼SE¼ sec.21, T.7 N., R.8 E., Jennings County, at culvert on State Highway 3, 1.2 miles north of State Highway 7 in North Vernon. | .39 | 11-17-78 | 13.6 |
| 03371630 | North Fork Salt Creek tributary near Nashville, IN | Lat 39°11'38", long 86°12'11", in NE¼NE¼NW¼ sec.28, T.9 N., R.3 E., Brown County, at culvert on State Highway 46, 2.6 miles east of State Highway 135 in Nashville. | .22 | 07-13-79 | 20.1 |
| 03376230 | Shiloh Drain near Jasper, IN | Lat 38°24'26", long 86°58'47", in NW¼NW¼NW¼ sec.28, T.15 N., R.5 W., Dubois County, at culvert on State Highway 56, at Ireland, 2.8 miles northwest of Jasper. | .57 | 07-13-79 07-26-79 | 3.1 10.5 |
| 03376340 | Patoka River tributary near Glezen, IN | Lat 38°23'41", long 87°19'05", in NE¼SE¼SE¼ sec.29, T.1 S., R.8 W., Pike County, at culvert on State Highway 57, 7.9 miles south of intersection of State Highways 61, 56, and 57 in Petersburg. | .84 | 07-26-79 | 347 |
| 03378590 | Olive Creek tributary near Solitude, IN | Lat 38°00'14", long 87°53'57", in NW¼SE¼NW¼ sec.17, T.6 S., R.13 W., Posey County, at culvert on State Highway 69, 0.65 mile south of Solitude. | .32 | 07-27-79 | 1.81 |
| STREAMS TRIBUTARY TO LAKE ERIE | | | | | |
| Maumee River basin | | | | | |
| 05516950 | Eagle Creek near Grovertown, IN | Lat 41°18'44", long 86°31'27", in SE¼NE¼ sec.16, T.33 N., R.1 W., Starke County, at bridge on State Highway 23, 0.3 mile south of County Road 100 North, and 5.2 miles south of U.S. Highway 30 in Grovertown. | 32 ^a | 09-26-78 | 5.69 |

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Measurements at miscellaneous sites

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 1979

| Stream | Tributary to | Location | Drain- age (mi ²) | Measured previously (water years) | Measurements | |
|-------------------|-------------------|--|-------------------------------------|--|----------------------|-----------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN | | | | | | |
| Brandywine Fork | Whiskey Run | Lat 38°21'48", long 86°21'03", in NE¼NE¼ sec.12, T.2 S., R.1 E., Crawford County, at State Highway 66, 0.5 mile southwest of Marengo, and 0.9 mile above mouth. | 1.74 | | 06-09-79 07-26-79 | 2,100 2,180 |
| Whiskey Run | Blue River | Lat 38°21'01", long 86°17'55", in NW¼NE¼ sec.16, T.2 S., R.2 E., Crawford county, at Southern Railroad bridge, 1.4 miles northwest of Milltown and 1.4 miles upstream from mouth. | 34.9 | | 07-26-79 | 10,800 |
| Bird Hollow Creek | Little Blue River | Lat 38°21'30", long 86°28'00", in NW¼SE¼ sec. 12, T.2 S., R.1 W., Crawford County, 75 ft east of State Highway 37, 0.5 mile above Dog Creek, and 1.6 miles north of English. | 3.17 | | 07-26-79 | 4,000 |
| Little Blue River | Ohio River | Lat 38°19'42", long 86°28'31", in NW¼SW¼ sec.24, T.2 S., R.1 W., at Southern Railroad bridge, 0.8 mile southwest of English, and 1.2 miles below Bird Hollow Creek. | 27.2 | | 07-26-79 | 21,600 |
| Little Blue River | Ohio River | Lat 38°16'53", long 86°28'03", in SW¼SE¼ sec.1, T.3 S., R.1 W., Crawford County, at bridge on State Highway 37, 0.5 mile south of Grantsburg. | 54.4 | | 06-09-79 | 9,200 |
| Anderson River | Ohio River | Lat 38°04'31", long 86°46'42", in SW¼SE¼ sec.18, T.5 S., R.3 W., at bridge on the Spencer-Perry County line, 2 miles south of Huffman, and 7 miles south of St. Meinrad. | 125 | | 06-09-79 07-26-79 | 14,100 14,000 |
| Feather Creek | Wabash River | Lat 39°41'42", long 87°27'01", in SW¼SE¼ sec.31, T.15 N., R.9 W., Vermillion County, at culvert on County Road 1300 South, 2.8 miles northwest of Clinton. | 0.72 | | 07-28-79 | 525 |
| Feather Creek | Wabash River | Lat 39°40'35", long 87°25'38", on line between SE¼NE¼ sec.8, and SW¼NW¼ sec.9, T.14 N., R.9 W., Vermillion County, at bridge on County Road 200 East, and 1 mile northwest of Clinton. | 3.59 | | 07-28-79 | 1,350 |
| Rock Creek | Patoka River | Lat 38°18'13", long 87°04'10", in NW¼NW¼ sec.34, T.2 S., R.6 W., Dubois County, at bridge on State Highway 64, 0.15 mile east of Pike-Dubois County line, and 4.0 miles southeast of Velpen. | 4.54 | | 06-09-79 | 2,500 |
| Pine Creek | St. Joseph River | Lat 41°38'24", long 85°49'29", in SE¼SW¼ sec.22, T.37 N., R.6 E., Elkhart County, at bridge on State Highway 15, 3 miles north of Goshen. | | | 09-11-79 | 3.8 |
| Indian Creek | Pine Creek | Lat 41°39'05", long 85°50'44", in SW¼SW¼ sec.16, T.37 N., R.6 E., Elkhart County, at bridge on County Road 18, 4 miles north of Goshen. | | | 09-11-79 | 0.40 |
| Pine Creek | St. Joseph River | Lat 41°39'13", long 85°51'37", in SE¼SW¼ sec.17, T.37 N., R.6 E., Elkhart County, at bridge on County Road 19, 4 miles north of Goshen. | | | 08-15-79 09-11-79 | 6.2 8.5 |

| Stream | Tributary to | Location | Drainage (mi ²) | Measured previously (water years) | Measurements | |
|-------------------------------------|------------------|--|-----------------------------|-----------------------------------|----------------------------------|--------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Pine Creek | St. Joseph River | Lat 41°41'21", long 85°53'15", in SW¼NW¼ sec.6, T.37 N., R.6 E., Elkhart County, 300 ft upstream from bridge on County Road 17, 1.5 miles east of Elkhart. | | | 08-15-79 09-11-79 | 9.0 6.0 |
| Christiana Creek | St. Joseph River | Lat 41°46'02", long 85°59'51", in NW¼NE¼ sec.24, T.8 S., R.15 W., Cass County, MI, at bridge on Redfield Street, 4 miles north of Elkhart. | | | 10-12-78 06-26-79 | 67.1 64.0 |
| Christiana Creek | St. Joseph River | Lat 41°43'27", long 85°59'06", in SW¼SW¼ sec.20, T.38 N., R.5 E., Elkhart County, at bridge on County Road 6, 1 mile north of Elkhart. | | | 10-12-78 06-26-79 | 77.5 75.4 |
| Christiana Creek | St. Joseph River | Lat 41°41'57", long 85°58'58", in NW¼SW¼ sec.32, T.38 N., R.5 E., Elkhart County, at bridge on Simonton Street in Elkhart. | | | 10-12-78 06-26-79 | 72.3 79.4 |
| Old Mill race from Christiana Creek | St. Joseph River | Lat 41°41'39", long 85°58'52", in NW¼NW¼ sec.5, T.37 N., R.5 E., Elkhart County, at bridge on Crawford Street in Elkhart. | | | 10-12-78 06-26-79 | 0 0 |
| Christiana Creek | St. Joseph River | Lat 41°41'44", long 85°58'35", in SW¼SE¼ sec.32, T.38 N., R.5 E., Elkhart County, at the bridge on North Street in Elkhart. | | | 10-12-78 06-26-79 | 74.6 68.3 |
| Baugo Creek | St. Joseph River | Lat 41°37'59", long 86°01'30", in SE¼NE¼ sec.26, T.37 N., R.4 E., Elkhart County, at bridge on County Road 24, at southwest edge of Jamestown. | | | 10-13-78 06-26-79 | 3.0 4.8 |
| Baugo Creek | St. Joseph River | Lat 41°39'31", long 86°03'37", in NW¼SW¼ sec.15, T.37 N., R.4 E., at the Elkhart-St. Joseph County line, 0.4 mile south of U.S. Highway 33, 0.25 mile east of Osceola. | | | 10-13-78 06-26-79 | 7.4 10.4 |
| Elkhart River | St. Joseph River | Lat 41°35'37", long 85°50'58", in NE¼NE¼ sec.8, T.36 N., R.6 E., Elkhart County, at the bridge on County Road 21 in Goshen. | | | 10-12-78 06-26-79 09-12-79 | 224 181 159 |
| Elkhart River | St. Joseph River | Lat 41°37'29", long 85°53'35", in SW¼SE¼ sec.25, T.37 N., R.5 E., Elkhart County, at bridge on County Road 17, 0.4 mile north-east of U.S. Highway 33 and 0.25 mile north of Midway. | | | 10-12-78 06-26-79 09-12-79 | 288 203 174 |
| Elkhart River tributary | Elkhart River | Lat 41°37'58", long 85°53'32", in S¼NE¼ sec.25, T.37 N., R.5 E., Elkhart County, at bridge on County Road 17, 1.6 miles south-east of Dunlap. | | | 10-12-78 06-26-79 09-12-79 | 0 0 0 |
| Elkhart River | St. Joseph River | Lat 41°39'35", long 85°54'57", in SW¼NW¼ sec.14, T.37 N., R.5 E., Elkhart County, at bridge on County Road 18, 0.4 mile south of the East Side Consolidated School. | | | 10-12-78 06-26-79 09-12-79 | 284 227 182 |
| Yellow Creek | Elkhart River | Lat 41°39'34", long 85°55'56", in SW¼NE¼ sec.15, T.37 N., R.5 E., Elkhart County, at the bridge on Hively Avenue (County Road 18) in Elkhart, 0.85 mile east of U.S. Highway 33. | | | 10-12-78 06-26-79 09-11-79 | 4.6 6.5 5.7 |
| Elkhart River | St. Joseph River | Lat 41°40'27", long 85°56'45", in SW¼NW¼ sec.10, T.37 N., R.5 E., Elkhart County, at the bridge on Indiana Avenue in Elkhart, 0.92 mile east of Roosevelt School. | | | 06-26-79 09-12-79 | 221 191 |

Discharge measurements made at miscellaneous sites during water year 1979--Continued

| Stream | Tributary to | Location | Drain- age (mi ²) | Measured previously (water years) | Measurements | |
|-----------------------------|---------------------|---|-------------------------------------|--|--------------|-----------------------------------|
| | | | | | Date | Discharge (ft ³ /s) |
| OHIO RIVER BASIN--Continued | | | | | | |
| Elkhart River | St. Joseph River | Lat 41°41'17", long 85°58'10", in NE¼SE¼ sec.5, T.37 N., R.5 E., Elkhart County, at the bridge on South Elkhart Ave. in Elkhart, 0.13 mile east of Main Street. | | | 10-12-78 | 330 |
| | | | | | 06-26-79 | 248 |
| | | | | | 09-12-79 | 232 |

^aEstimate.

05517528 DAVIS DITCH NR KOUTS, IN

LOCATION.--Lat 41°13'49", long 87°01'31", at culvert on county road 1 mile (1.6 km) above mouth, and 6 miles (9.7 km) southeast of Kouts.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | TEMPER- ATURE (DEG C) | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. SIEVE DIAM. FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. FINER THAN .125 MM |
|--------------|------|-----------------------------|---|---|--|---|---|
| JUL 19... | 1545 | -- | 3.8 | 99 | 1.0 | 97 | 100 |
| AUG 28... | 1435 | 20.5 | 10 | 29 | .81 | 94 | 100 |
| SEP 20... | 0920 | 11.5 | 4.6 | 11 | .14 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | BED MAT. SIEVE DIAM. FINER THAN .062 MM | BED MAT. SIEVE DIAM. FINER THAN .125 MM | BED MAT. SIEVE DIAM. FINER THAN .250 MM | BED MAT. SIEVE DIAM. FINER THAN .500 MM | BED MAT. SIEVE DIAM. FINER THAN 1.00 MM | BED MAT. SIEVE DIAM. FINER THAN 2.00 MM | BED MAT. SIEVE DIAM. FINER THAN 4.00 MM | BED MAT. SIEVE DIAM. FINER THAN 8.00 MM | BED MAT. SIEVE DIAM. FINER THAN 16.0 MM |
|--------------|------|---|---|---|---|---|---|---|---|---|
| JUL 19... | 1545 | 0 | 1 | 30 | 97 | 100 | -- | -- | -- | -- |
| SEP 20... | 0920 | 0 | 2 | 36 | 96 | 98 | 98 | 98 | 98 | 98 |

DISCONTINUED GAGING-STATION RECORDS

The following table lists all discontinued stream-gaging stations in Indiana. Continuous daily streamflow records were collected and published for the period of record, shown in water years, for each station.

| Station no. | Station name | County | Drainage area (mi ²) | Period of Record |
|-------------|--|------------|----------------------------------|----------------------|
| 03275500 | East Fork Whitewater River at Richmond | Wayne | 121 | 1949-78 |
| 03277000 | Laughery Creek near Farmers Retreat | Ohio | 248 | 1941-73a |
| 03304000 | Little Pigeon Creek near Tennyson | Warrick | 187 | 1944-47 |
| 03323000 | Wabash River at Bluffton | Wells | 532 | 1931-71b |
| 03326000 | Mississinewa River near Eaton | Delaware | 310 | 1952-71b |
| 03329500 | Wabash River at Delphi | Carroll | 4,072 | 1940-71 |
| 03331000 | Tippecanoe River near Warsaw | Kosciusko | 126 | 1943-49 |
| 03332000 | Tippecanoe River at Pulaski | Pulaski | 1,089 | 1928-31 |
| 03332300 | Little Indian Creek near Royal Center | White | 35.0 | 1959-73a |
| 03332400 | Big Monon Creek near Francesville | Pulaski | 152 | 1959-73a |
| 03333500 | Wildcat Creek at Greentown | Howard | 168 | 1945-61 |
| 03334000 | Wildcat Creek at Owasco | Carroll | 396 | 1944-72a |
| 03339120 | Coal Creek at Coal Creek | Fountain | 214 | 1965-72 |
| 03339150 | Little Vermillion River near Newport | Vermillion | 237 | 1965-72 |
| 03340000 | Sugar Creek near Byron | Parke | 670 | 1941-71b |
| 03341000 | Big Raccoon Creek at Mansfield | Parke | 248 | 1939-58c |
| 03341200 | Little Raccoon Creek near Catlin | Parke | 134 | 1957-71c,d |
| 03341420 | Brouillets Creek near Universal | Vermillion | 321 | 1966-71b |
| 03341470 | North Coal Creek near Terre Haute | Vigo | 1.91 | 1974-76 |
| 03342350 | Buttermilk Creek near Paxton | Sullivan | 16.5 | 1966-73 |
| 03342360 | Buttermilk Creek near Sullivan | Sullivan | 17.6 | 1975-78 |
| 03342800 | South Fork Smalls Creek at Bruceville | Knox | 4.94 | 1972-75b,d |
| 03348100 | Killbuck Creek near Anderson | Madison | 97.8 | 1964-68 |
| 03348500 | White River near Noblesville | Hamilton | 828 | 1915-26 1929-74b |
| 03349500 | Cicero Creek near Arcadia | Hamilton | 131 | 1955-76a |
| 03349700 | Little Cicero Creek near Arcadia | Hamilton | 40.4 | 1956-76a |
| 03350000 | Cicero Creek near Cicero | Hamilton | 196 | 1946-54 |
| 03350100 | Hinkle Creek near Cicero | Hamilton | 18.5 | 1956-76a |
| 03352000 | Lawrence Creek at Fort Benjamin Harrison | Marion | 2.74 | 1952-56, 1958-69 |
| 03352200 | Mud Creek at Indianapolis | Marion | 42.4 | 1958-76a |
| 03355000 | Bear Creek near Trevlac | Brown | 6.94 | 1952-73a |
| 03356000 | Beanblossom Creek at Dolan | Monroe | 100 | 1946-78 |
| 03356500 | Beanblossom Creek near Bloomington | Monroe | 112 | 1931-33 |
| 03357000 | White River at Spencer | Owen | 2,988 | 1925-71c |
| 03359500 | Deer Creek near Putnamville | Putnam | 59.0 | 1955-65, 1968-72 |
| 03366000 | Graham Creek near Vernon | Jennings | 77.2 | 1955-73 |
| 03367000 | Muscatatuck River near Austin | Jackson | 359 | 1932-43 1944-71e |
| 03367500 | Stucker Creek near Austin | Scott | 127 | 1932-33 |
| 03370000 | Vernon Fork near Crothersville | Jackson | 391 | 1932-33 |
| 03370500 | Muscatatuck River near Tampico | Washington | 960 | 1939 |
| 03371000 | Muscatatuck River near Vallonia | Jackson | 1,134 | 1932-33 |
| 03371600 | South Fork Salt Creek at Kurtz | Jackson | 38.2 | 1961-71c |
| 03371650 | North Fork Salt Creek at Nashville | Brown | 76.1 | 1962-76a |
| 03372000 | North Fork Salt Creek near Belmont | Brown | 120 | 1946-71 |
| 03372700 | Clear Creek near Harrodsburg | Monroe | 55.2 | 1960-71 |
| 03373000 | Salt Creek near Peerless | Lawrence | 573 | 1939-50, 1957-71c |
| 03373200 | Indian Creek near Springville | Lawrence | 60.7 | 1961-73a |
| 03374100 | White River at Hazleton | Gibson | 11,305 | 1928-38 |
| 03376000 | Patoka River near Jasper | Dubois | 348 | 1944-47d |
| 03376300 | Patoka River at Winslow | Pike | 603 | 1964-74 |
| 03378500 | Wabash River at New Harmony | Posey | 29,234 | 1939-47b |

STREAMS TRIBUTARY TO LAKE MICHIGAN

| | | | | |
|----------|---|---------|------|---------------------|
| 04093200 | Little Calumet River at Gary | Lake | 5.82 | 1958-67, 1969-71 |
| 04098000 | Fawn River at Orland | Steuben | 86.4 | 1943-47 |
| 04099500 | Pigeon Creek and Hogback Lake near Angola | Steuben | 103 | 1946-74 |
| 04100000 | Christiana Creek at Elkhart | Elkhart | 127 | 1947-52 |
| 04100220 | North Branch Elkhart River near Cosperville | Noble | 134 | 1951-71 |

STREAMS TRIBUTARY TO LAKE ERIE

| | | | | |
|----------|---------------------------------|--------|-------|---------------------|
| 04178500 | St. Joseph River at Hursh | Allen | 734 | 1950-54 |
| 04179500 | Cedar Creek near Auburn | DeKalb | 87.3 | 1943-73a |
| 04180500 | St. Joseph River near Ft. Wayne | Allen | 1,057 | 1905-06, 1941-55 |
| 04182700 | St. Marys River at Ft. Wayne | Allen | 810 | 1905-06 |

| Station no. | Station name | County | Drainage area (mi ²) | Period of Record |
|-------------|---------------------------------|--------------|--|------------------------|
| 05516000 | Yellow River near Bremen | Marshall | 135 | 1955-73 ^a |
| 05518500 | Singleton ditch near Hebron | Lake | 34.2 | 1949-51 |
| 05519500 | West Creek near Schneider | Lake | 54.7 | 1948-52, 1954-72 |
| 05520000 | Singleton ditch at Illinois, Il | Kankakee, Il | 220 | 1945-77 |
| 05521500 | Oliver ditch near Aix | Jasper | 79.6 | 1948-51 |

^aContinued as a crest-stage and low-flow partial-record station.

^bSome quality of water data available.

^cContinued as a stage only station.

^dSome record fragmentary.

^eHigh-water records only.

RECORDS AVAILABLE ON LAKES

For many years records of the water-surface elevations of many of the lakes in Indiana have been collected by the Geological Survey under cooperative agreement with the Indiana Department of Natural Resources. Basic data for a few selected lakes have been published in WSP 1363, entitled "Hydrology of Indiana Lakes." Records which have not been published are available in the files of the District Office of the Geological Survey in Indianapolis, Indiana. In general, the records before 1976 were based on once-daily readings of a staff gage by a local observer and consist of daily, monthly, and yearly mean water-surface elevations. Starting in 1976, water-stage recorders were installed at many stations which had previously been non-recording gages. 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 Water Resources Division of the Geological Survey. The inclusive years that records of stage have been collected at a lake are shown in the last column. If records are still being collected on a current basis, there is no closing date shown.

Lakes in the Ohio River basin for which records are available

| Lake | County | Drain- age (square mile) | Surface Area (acres) | Estab- lished Levelxx | Capa- city (acre feet) | Contour Map avail- able | Records avail- able |
|--|-----------|-----------------------------------|----------------------------|-----------------------------|---------------------------------|----------------------------------|--------------------------------|
| LAUGHERY CREEK BASIN | | | | | | | |
| 03276800 Versailles Lake near Versailles | Ripley | 168.0 | 232 | - | - | - | 1957- |
| BAYOU DRAIN BASIN | | | | | | | |
| 03322300 Hovey Lake near Mount Vernon | Posey | 6.36 | 253 | - | - | - | 1950-69 |
| WABASH RIVER BASIN | | | | | | | |
| 03327550 Everett Lake at Levert | Allen | 1.07 | 43 | 835.13 | 650 | + | 1946-66 |
| 03327600 Blue Lake near Churubusco | Whitley | 3.58 | 239 | 850.28 | 5,010 | + | 1946-69, 1976- |
| 03327650 Shriner Lake at Tri-Lakes | Whitley | .94 | 111 | 907.04 | - | - | 1943- |
| 03327700 Cedar Lake at Tri-Lakes | Whitley | .79 | 131 | 901.90 | - | - | 1943-49 |
| 03327750 Round Lake at Tri-Lakes | Whitley | 3.36 | 125 | 901.90 | - | - | 1943-53 |
| 03327800 Wilson Lake near Larwill | Whitley | .46 | 29 | 865.39 | 390 | + | 1946-52 |
| 03327850 Little Wilson Lake near Larwill | Whitley | .52 | 8 | 865.39 | 130 | + | 1946-52 |
| 03328100 Long Lake at Laketon | Wabash | .55 | 48 | 751.19 | 760 | + | 1946-51, 1959- |
| 03328250 North Little Lake at Silver Lake | Kosciusko | 2.89 | 12 | 861.73 | 170 | + | 1947- |
| 03328350 Silver Lake at Silver Lake | Kosciusko | 6.31 | 102 | 861.73 | 1,520 | + | 1947- |
| 03328400 Likens Lake near Disko | Wabash | 1.76 | 46 | 763.60 | 1,010 | + | 1948-49, 1959- |
| 03330020 Crooked Lake near Wolflake | Noble | 1.51 | 206 | 905.69 | 9,040 | + | 1943-53 |
| 03330040 Big Lake near Wolflake | Noble | 8.89 | 228 | 898.18 | 5,630 | + | 1943-75 1976- |
| 03330060 Goose Lake near Lorane | Whitley | 1.51 | 84 | 910.96 | 2,180 | + | 1945-53 |
| 03330080 Loon Lake at Ormas | Whitley | 11.1 | 222 | 895.14 | 5,730 | + | 1943-66 |
| 03330100 New Lake near Etna | Whitley | .29 | 50 | 903.91 | 880 | + | 1945-53 |
| 03330120 Old Lake near Etna | Whitley | 2.81 | 32 | 898.07 | 620 | + | 1949-66 |
| 03330140 Smalley Lake near Washington Center | Noble | 27.1 | 69 | - | 1,520 | + | 1943- |
| 03330160 Gilbert Lake near Washington Center | Noble | .37 | 28 | - | 490 | + | 1954- |
| 03330180 Horseshoe Lake nr Washington Center | Noble | 1.62 | 18 | 901.80 | 250 | + | 1945-66 |
| 03330200 Baugher Lake near Washington Center | Noble | 31.0 | 32 | 878.52 | 390 | + | 1945-51 |
| 03330220 Wilmot Pond at Wilmot ^a | Noble | 35.2 | 10 | - | - | - | 1945-51 |
| 03330240 Webster Lake at North Webster | Kosciusko | 49.2 | 774 | 852.75 | - | - | 1943- |
| 03330243 James Lake at Oswego | Kosciusko | 55.9 | 282 | 836.40 | 7,580 | + | 1943- |
| 03330260 Robinson Lake near Pierceton | Kosciusko | 7.15 | 59 | 851.09 | 1,170 | + | 1946-51 |
| 03330280 Troy Cedar Lake near Lorane | Whitley | 5.33 | 93 | 905.41 | 2,540 | + | 1945-52 |
| 03330300 Ridinger Lake near Pierceton | Kosciusko | 34.6 | 136 | 843.12 | 2,900 | + | 1943- |
| 03330320 Kuhn Lake near North Webster | Kosciusko | 3.85 | 137 | 837.50 | 1,290 | + | 1945- |
| 03330340 Big Barbee Lake near North Webster | Kosciusko | 44.7 | 304 | 837.50 | 5,640 | + | 1945- |
| 03330360 Little Barbee Lake nr North Webster | Kosciusko | 49.0 | 74 | 837.50 | 960 | + | 1945- |
| 03330380 Shoe Lake near Oswego | Kosciusko | .34 | 40 | 841.57 | - | - | 1946-53, 1972, 74, 1976- |
| 03330400 Banning Lake near North Webster | Kosciusko | .48 | 12 | 837.50 | 110 | + | 1945- |
| 03330420 Irish Lake near North Webster | Kosciusko | 50.9 | 182 | 837.50 | 2,330 | + | 1945- |
| 03330440 Sechrist Lake near North Webster | Kosciusko | .58 | 105 | 837.50 | 2,490 | + | 1945- |
| 03330460 Sawmill Lake near North Webster | Kosciusko | 51.8 | 36 | 837.50 | 370 | + | 1945- |
| 03330480 Tippecanoe Lake at Oswego | Kosciusko | 113 | 768 | 836.40 | 28,380 | + | 1943- |
| 03330495 Oswego Lake at Oswego | Kosciusko | 113 | 83 | 836.40 | 780 | + | 1943- |
| 03331010 Big Chapman Lake near Warsaw ^b | Kosciusko | 4.17 | 581 | 827.75 | 6,080 | + | 1945-72, 1976- |
| 03331020 Little Chapman Lake near Warsaw | Kosciusko | 7.13 | 177 | 827.75 | 1,990 | + | 1945-72, 1976- |
| 03331040 Pike Lake at Warsaw | Kosciusko | 41.5 | 203 | 805.64 | 2,830 | + | 1954- |
| 03331060 Fish Lake near Warsaw | Kosciusko | 4.93 | 15 | 845.52 | - | - | 1951-66 |
| 03331080 Muskegon Lake near Warsaw | Kosciusko | 11.8 | 32 | 842.67 | 300 | + | 1943-53, 1959-71 |
| 03331100 Carr Lake near Claypool | Kosciusko | 2.27 | 79 | 848.88 | 1,340 | + | 1947-53 |
| 03331120 Sherburn Lake near Pierceton ^c | Kosciusko | 5.51 | 15 | 881.00 | 230 | + | 1954- |
| 03331140 Winona Lake at Warsaw | Kosciusko | 32.1 | 562 | 811.06 | 16,680 | + | 1943- |

Lakes in the Ohio River basin for which records are available--Continued

| | Lake | County | Drain- age (square mile) | Surface Area (acres) | Estab- lished Levelxx | Capa- city (acre feet) | Contour Map avail- able | Records avail- able |
|----------|------------------------------------|-----------|-----------------------------------|----------------------------|-----------------------------|---------------------------------|----------------------------------|---------------------------|
| | WABASH RIVER BASIN--Continued | | | | | | | |
| 03331160 | Center Lake at Warsaw | Kosciusko | .73 | 120 | 803.86 | 2,060 | + | 1945- |
| 03331180 | Palestine Lake at Palestine | Kosciusko | 32.4 | 290 | - | 1,170 | + | 1954- |
| 03331200 | Crystal Lake near Atwood | Kosciusko | .45 | 76 | 789.69 | 930 | + | 1945-51 |
| 03331220 | Hoffman Lake at Atwood | Kosciusko | 8.07 | 180 | 785.85 | 3,160 | + | 1945-53 |
| 03331240 | Beaver Dam Lake near Silver Lake | Kosciusko | 2.83 | 146 | 868.95 | 3,280 | + | 1947-53 |
| 03331260 | Loon Lake near Silver Lake | Kosciusko | 3.59 | 40 | 865.74 | 670 | + | 1947-53 |
| 03331280 | McClures Lake near Silver Lake | Kosciusko | 1.29 | 32 | 865.85 | 410 | + | 1945-52 |
| 03331300 | Hill Lake near Silver Lake | Kosciusko | 0.85 | 67 | 871.50 | 1,300 | + | 1952- |
| 03331320 | Diamond Lake near Silver Lake | Kosciusko | 3.92 | 79 | - | 1,280 | + | 1954- |
| 03331340 | Yellow Creek Lake near Silver Lake | Kosciusko | 11.1 | 151 | 860.50 | 4,730 | + | 1945-53 |
| 03331360 | Rock Lake near Akron | Kosciusko | 2.74 | 56 | 847.29 | 360 | + | 1946-66 |
| 03331370 | Town Lake near Akron | Fulton | 2.77 | 23 | - | 220 | + | 1949-50 |
| 03331380 | Lake Manitou at Rochester | Fulton | 44.2 | 1,158 | 778.41 | 10,165 | + | 1943- |
| 03331390 | Zink Lake near Rochester | Fulton | 1.11 | 19 | 810.68 | - | - | 1952-55 |
| 03331400 | Nyona Lake near Greenoak | Fulton | 7.59 | 104 | 793.91 | 1,340 | + | 1946- |
| 03331420 | South Mud Lake near Fulton | Fulton | 4.53 | 94 | 793.42 | 1,020 | + | 1946-66 |
| 03331438 | King Lake near Delong | Fulton | 1.98 | 18 | - | 180 | + | 1971- |
| 03331440 | Maxinkuckee Lake at Cylver | Marshall | 13.7 | 1,864 | 733.12 | 45,600 | + | 1943- |
| 03331460 | Lost Lake near Culver ^d | Marshall | 14.2 | 40 | 732.00 | - | - | 1954- |
| 03331480 | Langenbaum Lake near Monterey | Starke | .72 | 48 | 717.96 | 260 | + | 1954-66 |
| 03331700 | Bruce Lake at Bruce Lake | Pulaski | 6.38 | 245 | 723.69 | 1,790 | + | 1943-53 |
| 03332200 | Fletcher Lake at Fletcher | Fulton | .67 | 45 | 783.20 | 880 | + | 1946-53 |
| 03370900 | Starve Hollow Lake near Vallonia | Jackson | 6.67 | 145 | - | 980 | + | 1946-61, 1963-71 |
| 03371700 | Ogle Lake near Nashville | Brown | 1.03 | 20 | - | 250 | + | 1954- |

Lakes in the St. Lawrence River basin for which records are available

STREAMS TRIBUTARY TO LAKE MICHIGAN

| | | | | | | | | |
|----------|---|----------|-------|-------|----------|--------|---|---------------------|
| 04092500 | Wolf Lake at Hammond ^j | Lake | 5.72 | 999 | - | - | - | 1946-49 |
| 04092990 | Lake George at Hobart | Lake | 124 | 282 | 602.23 | - | - | 1946- |
| 04097520 | Lake Pleasant near Nevada Mills | Steuben | 3.18 | 424 | - | 3,490 | + | 1954-71, 1976- |
| 04097550 | Lake George at Jamestown | Steuben | h14.7 | 488 | 985.28 | - | - | 1946- |
| 04097596 | Marsh Lake near Fremont | Steuben | 14.9 | - | - | - | - | 1967-69 |
| 04097600 | Little Otter Lake near Fremont | Steuben | 15.7 | 34 | 965.18 | 740 | + | 1946-53 |
| 04097640 | Big Otter Lake near Fremont | Steuben | 21.3 | 69 | 965.18 | 1,780 | + | 1946-53 |
| 04097650 | Snow Lake at Lake James | Steuben | h40.2 | 310 | 964.96 | 7,998 | + | 1943-49 |
| 04097660 | Lake James at Lake James | Steuben | h47.8 | 1,034 | 964.96 | 33,585 | + | 1943-49 |
| 04097680 | Jimmerson Lake at Nevada Mills ^e | Steuben | h51.6 | 434 | 964.66 | 4,394 | + | 1946- |
| 04097780 | Loon Lake near Angola | Steuben | 2.13 | 138 | 1,011.98 | 630 | + | 1954-66 |
| 04097850 | Crooked Lake at Crooked Lake | Steuben | 10.4 | 828 | 988.17 | 10,555 | + | 1946- |
| 04097950 | Lake Gage at Panama | Steuben | h17.3 | 332 | 954.25 | 10,140 | + | 1946- |
| 04097960 | Lime Lake at Panama | Steuben | h17.5 | 57 | 954.25 | 427 | + | 1946- |
| 04098100 | Wall Lake near Orland | Lagrange | 1.61 | 141 | 942.25 | 1,640 | + | 1953-54 |
| 04098110 | Mud Lake near Orland | Steuben | 1.85 | 25 | 939.01 | - | - | 1956-67 |
| 04098300 | Cedar Lake near Ontario | Lagrange | 1.60 | 120 | 871.90 | 1,020 | + | 1948-51 |
| 04099050 | Pigeon Lake near Angola | Steuben | h35.2 | 61 | 988.24 | 930 | + | 1954-63 |
| 04099100 | Fox Lake near Angola | Steuben | h1.25 | 142 | 1,018.83 | 3,150 | + | 1946-53 |
| 04099190 | Pleasant Lake at Pleasant Lake | Steuben | h1.12 | 53 | 963.52 | 1,190 | + | 1946-66 |
| 04099200 | Long Lake at Moonlight | Steuben | h67.9 | 92 | - | 1,540 | + | 1946- |
| 04099250 | Bower Lake near Pleasant Lake | Steuben | h84.6 | 25 | 948.50 | 280 | + | 1946-71, 1976- |
| 04099260 | Golden Lake near Pleasant Lake | Steuben | h88.8 | 119 | 948.50 | 1,810 | + | 1946-71, 1976- |
| 04099400 | Silver Lake near Angola | Steuben | h3.79 | 238 | 959.40 | 2,540 | + | 1945-53 |
| 04099430 | Bass Lake near Angola | Steuben | h.39 | 61 | 979.68 | 450 | + | 1954-66 |
| 04099440 | Howard Lake near Angola | Steuben | h3.90 | 27 | 977.34 | 130 | + | 1954-63 |
| 04099500 | Hogback Lake near Angola | Steuben | h103 | 146 | 948.50 | 1,450 | + | 1946- |
| 04099520 | Otter Lake near Flint | Steuben | h6.91 | 118 | 934.15 | 1,960 | + | 1954-66 |
| 04099540 | Story Lake near Hudson | DeKalb | 3.16 | 77 | 942.20 | 1,020 | + | 1946- 1954-66 |
| 04099560 | Big Turkey Lake at Stroh | Lagrange | 35.8 | 450 | 926.61 | 7,300 | + | 1945-66 |
| 04099575 | McClish Lake near Helmer | Lagrange | 1.28 | 35 | 951.09 | 1,210 | + | 1951-74, 1976- |
| 04099580 | Lake of the Woods near Helmer | Lagrange | 5.25 | 136 | 951.09 | 5,470 | + | 1951-74, 1976- |
| 04099600 | Big Long Lake near Stroh | Lagrange | 4.77 | 388 | 956.21 | - | - | 1954- |
| 04099620 | Pretty Lake near Stroh | Lagrange | 2.89 | 184 | 965.50 | 4,720 | + | 1949-53, 1963-65 |
| 04099640 | Little Turkey Lake at Elmira | Lagrange | 56.5 | 135 | 925.72 | 1,550 | + | 1945-66 |
| 04099660 | Royer Lake near Plato | Lagrange | 4.69 | 69 | 936.50 | 1,630 | + | 1952- |
| 04099670 | Fish Lake near Plato | Lagrange | h10.6 | 100 | 936.50 | 4,050 | + | 1945- |
| 04099700 | North Twin Lake near Howe | Lagrange | 1.54 | 135 | 843.56 | 2,120 | + | 1953- |
| 04099710 | South Twin Lake near Howe | Lagrange | 2.22 | 116 | 843.56 | 3,600 | + | 1953-70 |
| 04099740 | Shipshewana Lake near Shipshewana | Lagrange | h6.74 | 202 | 852.04 | 1,350 | + | 1951- |
| 04099760 | Fish Lake near Scott | Lagrange | h6.21 | 139 | 814.42 | 2,560 | + | 1954-73, 1976- |
| 04099780 | Stone Lake near Scott | Lagrange | 1.51 | 152 | 818.76 | 2,060 | + | 1954-73, 1976- |

Lakes in the St. Lawrence River basin for which records are available--Continued

| | Lake | County | Drain- age (square mile) | Surface Area (acres) | Estab- lished Levelxx | Capa- city (acre feet) | Contour Map avail- able | Records avail- able |
|---|--|-----------|-----------------------------------|----------------------------|-----------------------------|---------------------------------|----------------------------------|-------------------------------|
| STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued | | | | | | | | |
| 04099800 | Emma Lake near Emma | Lagrange | 13.6 | 42 | 880.87 | 700 | + | 1954-66 |
| 04099810 | Cass Lake near Shipshewana | Lagrange | .68 | 89 | - | 873 | + | 1970- |
| 04099820 | Hunter lake near Middleburg | Elkhart | .51 | 99 | 856.90 | 1,120 | + | 1946-53 |
| 04099840 | Wolf lake near Goshen | Elkhart | h1.29 | 100 | 813.00 | - | - | 1947-57 |
| 04099860 | Heaton Lake near Elkhart | Elkhart | 9.33 | 87 | 767.30 | 640 | + | 1946-53, 1969-74, 1976- |
| 04099880 | Simonton Lake near Elkhart | Elkhart | 7.44 | 282 | 772.19 | 1,560 | + | 1946- |
| 04099950 | Indiana Lake near Bristol | Elkhart | .62 | 122 | 759.73 | 3,400 | + | 1946-53 |
| 04100010 | Cree Lake near Kendallville | Noble | 4.85 | 58 | 945.23 | 910 | + | 1949-66 |
| 04100020 | Blackman Lake near Wolcottville | Lagrange | .98 | 67 | 974.20 | 1,210 | + | 1953-59 |
| 04100030 | Adams Lake near Wolcottville | Lagrange | 5.62 | 308 | 953.59 | 7,690 | + | 1946- |
| 04100040 | Atwood Lake near Wolcottville | Lagrange | 1.23 | 170 | 899.99 | 1,560 | + | 1948-53 |
| 04100050 | Witmer Lake near Wolcottville | Lagrange | 36.1 | 204 | 897.36 | 7,040 | + | 1945- |
| 04100060 | Westler Lake near Wolcottville | Lagrange | 37.8 | 88 | 897.36 | 1,770 | + | 1945- |
| 04100070 | Dallas Lake near Wolcottville | Lagrange | 39.8 | 283 | 897.36 | 9,970 | + | 1945- |
| 04100080 | Martin Lake near Valentine | Lagrange | 4.93 | 26 | 899.45 | 890 | + | 1945- |
| 04100090 | Olin Lake near Valentine | Lagrange | 5.81 | 103 | 899.45 | 9,180 | + | 1945- |
| 04100100 | Oliver Lake near Valentine | Lagrange | 11.1 | 362 | 899.45 | - | - | 1945- |
| 04100110 | Hackenburg Lake near Wolcottville | Lagrange | 55.4 | 42 | 897.36 | 510 | + | 1945- |
| 04100120 | Messick Lake near Wolcottville | Lagrange | 56.4 | 68 | 897.36 | 1,450 | + | 1945- |
| 04100130 | Jones Lake near Cosperville ^f | Noble | 70.3 | 114 | 885.55 | 960 | + | 1948- |
| 04100140 | Bixler Lake at Kendallville | Noble | 5.28 | 120 | 963.65 | 2,090 | + | 1945- |
| 04100150 | Round Lake at Kendallville | Noble | 3.47 | 99 | 954.50 | 2,140 | + | 1954- |
| 04100160 | Little Long Lake at Kendallville | Noble | 4.55 | 71 | 954.50 | 1,750 | + | 1954- |
| 04100170 | Latta Lake near Rome City | Noble | 2.52 | 42 | 918.71 | 900 | + | 1954-66 |
| 04100180 | Sylvan Lake at Rome City | Noble | 33.8 | 669 | 916.20 | 5,986 | + | 1943- |
| 04100190 | Sacarider Lake near Kendallville | Noble | 1.43 | 33 | - | 740 | + | 1954-63 |
| 04100200 | Tamarack Lake near Cosperville | Noble | 15.9 | 50 | 885.55 | 880 | + | 1948- |
| 04100210 | Steinharger Lake near Cosperville | Noble | 24.3 | 73 | 885.55 | 1,590 | + | 1948- |
| 04100220 | Waldron Lake near Cosperville | Noble | 134 | 216 | 885.55 | 3,120 | + | 1948- |
| 04100230 | Lone Lake near Burr Oak | Noble | 12.0 | 40 | 895.82 | 630 | + | 1954-71 |
| 04100240 | Sand Lake near Burr Oak | Noble | 14.9 | 47 | 893.56 | 1,270 | + | 1946-51 |
| 04100250 | Rivir Lake near Burr Oak | Noble | 18.6 | 24 | - | 380 | + | 1954-65 |
| 04100258 | High Lake near Wolflake | Noble | 4.43 | 123 | 896.35 | 1,240 | + | 1961- |
| 04100260 | Bear Lake near Wolflake | Noble | 6.98 | 136 | 894.60 | 3,030 | + | 1943- |
| 04100280 | Muncie Lake near Burr Oak | Noble | 42.8 | 47 | - | 580 | + | 1954- |
| 04100290 | Silver Lake near Wolflake | Noble | .28 | 34 | - | 220 | + | 1953-63 |
| 04100300 | Skinner Lake near Albion | Noble | 14.0 | 125 | 927.74 | 1,750 | + | 1945-72, 1977- |
| 04100310 | Pleasant Lake near Wolflake | Noble | .29 | 20 | - | 540 | + | 1952-53 |
| 04100320 | Upper Long Lake near Wolflake | Noble | 2.08 | 86 | 891.19 | 1,900 | + | 1956- |
| 04100330 | Lower Long Lake near Albion | Noble | 4.35 | 66 | 889.81 | 1,560 | + | 1946-52 |
| 04100340 | Eagle Lake near Kimmel | Noble | 3.22 | 81 | - | 1,050 | + | 1946-48 |
| 04100350 | Diamond Lake near Wawaka | Noble | 4.80 | 105 | - | 2,580 | + | 1946- |
| 04100360 | Sparta Lake at Kimmel | Noble | .69 | 31 | 888.50 | 170 | + | 1946-51 |
| 04100370 | Engle Lake near Ligonier | Noble | h4.19 | 48 | - | 670 | + | 1956-71, 1977- |
| 04100380 | Harper Lake near Washington Center | Noble | 2.76 | 11 | 878.25 | 160 | + | 1946- |
| 04100390 | Knapp Lake near Washington Center | Noble | 6.02 | 88 | 878.25 | 3,040 | + | 1946- |
| 04100400 | Moss Lake near Washington Center | Noble | 6.12 | 9 | 878.25 | 80 | + | 1946- |
| 04100410 | Hindman Lake near Washington Center | Noble | 8.66 | 13 | 878.25 | 140 | + | 1946- |
| 04100420 | Gordy Lake near Cromwell | Noble | 9.40 | 31 | 876.68 | 680 | + | 1953-66 |
| 04100425 | Rider Lake near Cromwell | Noble | 10.9 | 5 | 876.68 | 30 | + | 1953-66 |
| 04100430 | Duely Lake near Cromwell ⁸ | Noble | 11.2 | 21 | 876.68 | 180 | + | 1953-66 |
| 04100440 | Village Lake near Cromwell | Noble | 12.0 | 12 | 876.68 | 160 | + | 1953-66 |
| 04100446 | Flatbelly Lake near Syracuse | Kosciusko | 4.66 | 326 | - | - | - | 1964-69 |
| 04100448 | Papakeeche Lake near Syracuse | Kosciusko | 5.52 | 300 | - | - | - | 1964-69 |
| 04100450 | Wawasee Lake at Wawasee | Kosciusko | 36.9 | 3,060 | 858.89 | 67,210 | + | 1943-66 |
| 04100460 | Syracuse Lake at Syracuse | Kosciusko | 38.2 | 414 | 858.87 | 5,360 | + | 1943- |
| 04100470 | Dewart Lake near Leesburg | Kosciusko | h8.05 | 551 | 867.70 | 9,000 | + | 1945- |
| 04100480 | Wabee Lake near Milford | Kosciusko | h14.6 | 187 | 829.79 | 4,750 | + | 1946-53 |
| STREAMS TRIBUTARY TO LAKE ERIE | | | | | | | | |
| 04177200 | Clear Lake at Clear Lake | Steuben | 6.86 | 800 | 1,037.38 | 24,990 | + | 1943- |
| 04177210 | Round Lake at Clear Lake | Steuben | 7.25 | 30 | 1,037.38 | 340 | + | 1943- |
| 04177300 | Long Lake near Ray | Steuben | 2.80 | 154 | - | 1,840 | + | 1961-63 |
| 04177680 | Ball Lake near Hamilton | Steuben | 11.6 | 87 | 894.76 | 3,520 | + | 1961- |
| 04177700 | Hamilton Lake at Hamilton | Steuben | 16.5 | 802 | 898.83 | 16,600 | + | 1943- |
| 04179200 | Indian Lake near Corunna | DeKalb | 3.76 | 56 | - | 1,220 | + | 1957 |
| 04179300 | 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

| | | | | | | | | |
|----------|-----------------------------------|------------|-------|-----|--------|-------|---|---------|
| 05514740 | Saugany Lake near Rolling Prairie | LaPorte | h2.34 | 74 | 781.21 | 2,190 | + | 1946-50 |
| 05514741 | Hudson Lake at Hudson Lake | LaPorte | 7.92 | 432 | 763.09 | 5,060 | + | 1946- |
| 05514750 | North Chain Lake at Lydick | St. Joseph | h3.89 | 88 | 721.17 | 1,400 | + | 1946-53 |
| 05514760 | South Chain Lake at Westfield | St. Joseph | h6.32 | 90 | 717.04 | 270 | - | 1946-53 |
| 05514770 | Wharton Lake near South Bend | St. Joseph | h1.85 | - | - | - | - | 1960- |

Lakes in the St. Lawrence River basin for which records are available--Continued

| Lake | County | Drain- age (square mile) | Surface Area (acres) | Estab- lished Levelxx | Capa- city (acre feet) | Contour Map avail- able | Records avail- able |
|---|------------|-----------------------------------|----------------------------|-----------------------------|---------------------------------|----------------------------------|---------------------------|
| ILLINOIS RIVER BASIN--Continued | | | | | | | |
| 05514900 Silver Lake near Rolling Prairie | LaPorte | 1.72 | 54 | 795.20 | - | - | 1946-66 |
| 05515200 Upper Fish Lake near Stillwell | LaPorte | h9.65 | 139 | 688.22 | 1,040 | + | 1946-53 |
| 05515210 Lower Fish Lake near Stillwell | LaPorte | h10.4 | 134 | 688.22 | 870 | + | 1946-53 |
| 05515220 Pine Lake at LaPorte | LaPorte | h10.7 | 564 | 796.20 | - | - | 1946-75 |
| 05515230 Stone Lake at LaPorte | LaPorte | h10.7 | 140 | 796.20 | - | - | 1946-75 |
| 05515240 Clear Lake at LaPorte | LaPorte | .65 | 106 | 798.20 | 760 | + | 1942-49, 1952-75 |
| 05515600 Koontz Lake at Koontz Lake | Starke | h6.25 | 346 | 714.56 | 3,170 | + | 1943- |
| 05515800 Riddles Lake near Lakeville | St. Joseph | h11.7 | 77 | 817.50 | 640 | + | 1946-73, 1976- |
| 05516200 Lake of the Woods near Bremen | Marshall | h9.45 | 416 | 803.85 | 6,810 | + | 1945- |
| 05516600 Pretty Lake near Plymouth | Marshall | .85 | 97 | 787.36 | 2,140 | + | 1954-66 |
| 05516700 Myers Lake near Twin Lakes | Marshall | 1.41 | 96 | 768.69 | 2,000 | + | 1945-53 |
| 05516800 Mill Pond and Kreighbaum Lake near Twin Lakes | Marshall | h5.34 | 168 | 767.75 | 1,020 | + | 1945-53 |
| 05516900 Eagle Lake near Ober | Starke | h25.5 | 24 | 713.25 | 160 | + | 1946-53 |
| 05517100 Skitz Lake near Knox | Starke | - | 1,000 | - | - | - | 1949-53 |
| 05517200 Bass Lake at Bass Lake | Starke | 5.18 | 1,400 | 713.65 | - | - | 1943- |
| 05517600 Wauhob Lake near Valparaiso | Porter | .40 | 21 | - | - | - | 1946- |
| 05517650 Long Lake near Valparaiso | Porter | 1.31 | 65 | 797.66 | 520 | + | 1947-52 |
| 05517670 Spectacle Lake near Valparaiso | Porter | .53 | 62 | 812.82 | 540 | + | 1946-53 |
| 05517700 Flint Lake near Valparaiso | Porter | 2.62 | 86 | 797.66 | - | - | 1946- |
| 05517800 Lake Eliza near Beatrice | Porter | 1.70 | 45 | - | - | - | 1954-74, 1976- |
| 05518700 Cedar Lake at Cedar Lake | Lake | 8.14 | 781 | - | 6,750 | + | 1943- |
| 05518800 Dalecarlia Lake near Creston | Lake | 20.1 | 193 | - | - | - | 1947-52 |
| 05521300 Ringneck Lake near Medaryville | Jasper | 1.94 | 1,400 | - | - | - | 1949-55 |
| 05525700 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.

**Elevation, in feet, above mean sea level.

aFormerly published as Rider Lake at Wilmot.

bFormerly published as Chapman Lake near Warsaw.

cFormerly published as Johnson Lake near Piercetown.

dFormerly published as Hawks Lake near Culver.

eFormerly published as Jimerson Lake at Nevada Mills.

fFormerly published as Sanford Lake near Cosperville.

gFormerly published as Duley Lake near Cromwell, and Druley Lake near Cromwell.

hContains drainage area (5 percent or greater) that does not contribute directly to
surface-water runoff.

jSame as Wolf Lake at Chicago, Illinois WRD District.

OTHER LAKE MAPS AVAILABLE

The lakes in Indiana which are not included in the cooperative stabilization program but which have been mapped for recreational purposes are shown in the following table. Surface area and capacities are related to reference mean sea level elevation at time of mapping. Additional data is shown on map which are available for sale by the Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.

| Lake | County | Surface Area (acres) | Capacity (acre-feet) | Lake | County | Surface Area (acres) | Capacity (acre-feet) |
|--------------------|-----------|----------------------|----------------------|-------------------|-----------|----------------------|----------------------|
| OHIO RIVER BASIN | | | | | | | |
| Barr Lake | Fulton | 22 | 470 | Lake 16 | Fulton | 27 | 220 |
| Bischoff Reservoir | Ripley | 200 | 1,920 | Larwill Lake | Whitley | 9 | 170 |
| Black Lake | Whitley | 24 | 400 | Lenape Lake | Greene | 36 | 330 |
| Bowen Lake | Scott | 7 | 60 | Lincoln Park Lake | Spencer | 58 | 520 |
| Brown Lake | Whitley | 23 | 580 | Little Pike Lake | Kosciusko | 25 | 140 |
| Caldwell Lake | Kosciusko | 45 | 800 | McColley Lake | Wabash | 28 | 410 |
| Crane Lake | Noble | 28 | 360 | Round Lake | Wabash | 48 | 540 |
| Crosley Lake | Jennings | 14 | 130 | Scales Lake | Warrick | 66 | 520 |
| Ferdinand Lake | Dubois | 42 | 440 | Schlamm Lake | Clark | 19 | 170 |
| Franke Lake | Clark | 9 | 70 | Sellers Lake | Kosciusko | 32 | 340 |
| Hartz Lake | Starke | 28 | 370 | Shakamak Lake | Sullivan | 56 | 610 |
| Kunkel Lake | Wells | 25 | 150 | Twin Lakes | Wabash | 18 | 190 |
| Lake Freeman | Carroll | 1,547 | 26,000 | Whitewater Lake | Union | 199 | 3,650 |
| Lake Shafer | White | 1,291 | 13,120 | Yellowwood Lake | Brown | 133 | 1,890 |

STREAMS TRIBUTARY TO LAKE MICHIGAN

| | | | | | | | |
|--------------------|-----------|----|-------|--------------------|-----------|----|-------|
| Appleman Lake | Lagrange | 52 | 590 | Mateer Lake | Lagrange | 18 | 150 |
| Bartley Lake | Noble | 34 | 430 | Miller Lake | Noble | 11 | 160 |
| Barton Lake | Steuben | 94 | 1,340 | Millers Lake | Noble | 28 | 410 |
| Bell Lake | Steuben | 38 | 510 | Mud Lake | Noble | 8 | 70 |
| Boner Lake | Kosciusko | 40 | 370 | Norman Lake | Noble | 14 | 280 |
| Bowen Lake | Noble | 30 | 1,080 | Pigeon Lake | Lagrange | 61 | 1,160 |
| Bristol Lake | Noble | 27 | 740 | Port Mitchell Lake | Noble | 15 | 180 |
| Buck Lake | Lagrange | 18 | 150 | Rainbow Lake | Lagrange | 16 | 250 |
| Center Lake | Steuben | 46 | 390 | Schockopee Lake | Noble | 21 | 280 |
| Cline Lake | Lagrange | 20 | 350 | Shock Lake | Kosciusko | 37 | 1,210 |
| Deer Lake | Noble | 36 | 420 | Smith Hole | Lagrange | 2 | 10 |
| Dock Lake | Noble | 16 | 230 | Still Lake | Lagrange | 30 | 620 |
| Eve Lake | Lagrange | 31 | 670 | Sweet Lake | Noble | 16 | 210 |
| Fish Lake | Steuben | 59 | 750 | Tamarack Lake | Noble | 84 | 1,340 |
| Hog Lake | LaPorte | 59 | 690 | Walters Lake | Steuben | 53 | 550 |
| Hog Lake | Steuben | 48 | 570 | Weir Lake | Lagrange | 6 | 70 |
| Lime Lake | Steuben | 30 | 330 | Wible Lake | Noble | 49 | 650 |
| Little Turkey Lake | Steuben | 58 | 780 | Williams Lake | Noble | 46 | 1,070 |
| Marl Lake | Noble | 30 | 510 | Wyland Lake | Kosciusko | 6 | 100 |

STREAMS TRIBUTARY TO LAKE ERIE

| | | | | | | | |
|-------------|---------|----|-----|-------------|---------|----|-----|
| Dunton Lake | DeKalb | 21 | 340 | Mirror Lake | Steuben | 9 | 120 |
| Handy Lake | Steuben | 16 | 290 | Terry Lake | DeKalb | 17 | 160 |
| Lake Anne | Steuben | 17 | 280 | | | | |

UPPER MISSISSIPPI RIVER BASIN

| | | | | | | | |
|------------|----------|----|-------|---------------|----------|----|-------|
| Cook Lake | Marshall | 93 | 1,650 | Gilbert Lake | Marshall | 37 | 490 |
| Dixon Lake | Marshall | 33 | 480 | Holem Lake | Marshall | 40 | 390 |
| Flat Lake | Marshall | 26 | 210 | Lawrence Lake | Marshall | 69 | 1,580 |

EXPLANATION

MY7● Ground-water observation well

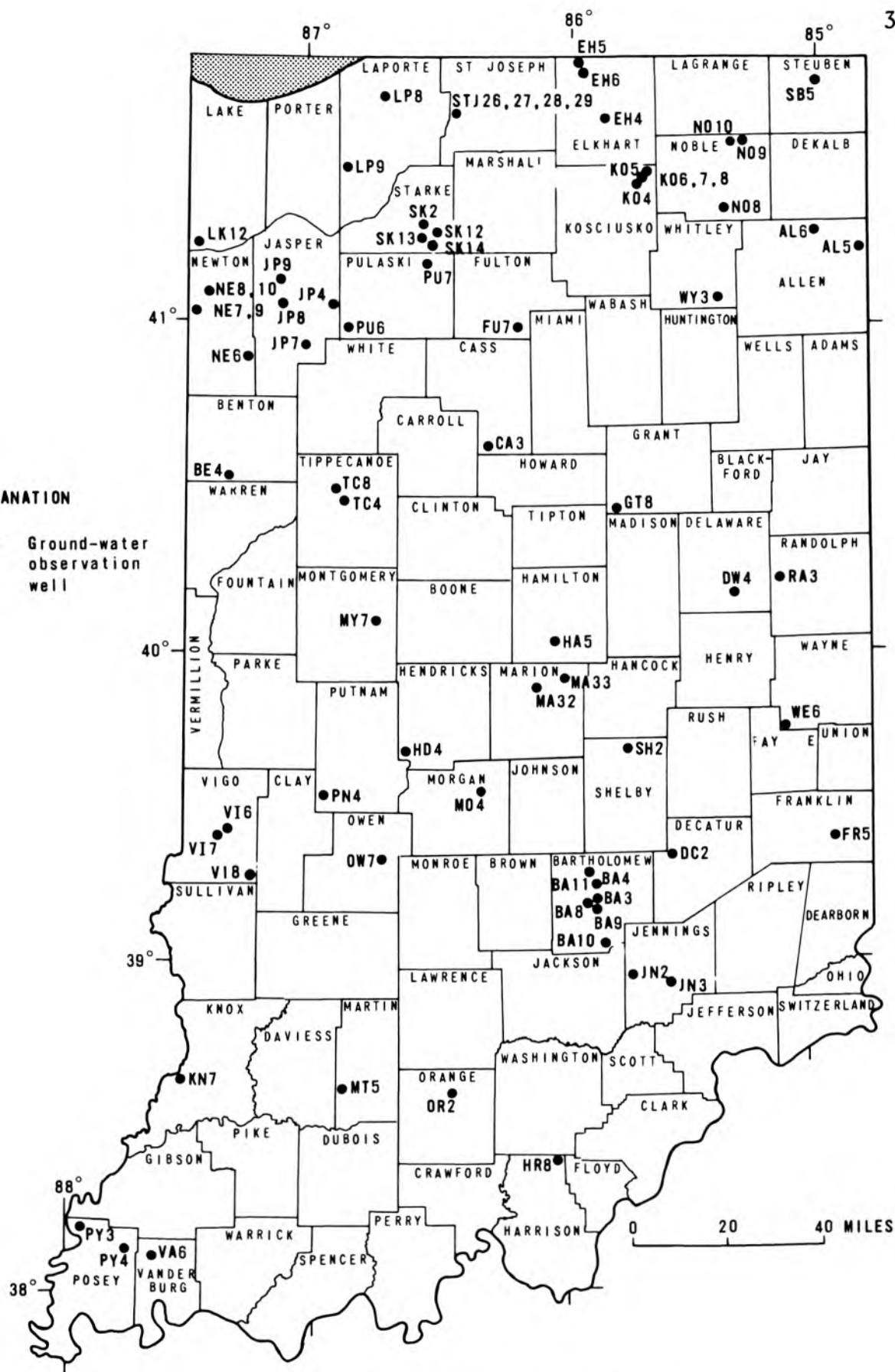


Figure 4. -- Location of ground-water observation wells.

GROUND-WATER LEVELS

ALLEN COUNTY

410426084495201. Local number, AL 5.

LOCATION.--Lat 41°04'26", long 84°49'52", in NW¼NE¼SE¼ sec.9, T.30 N., R.15 E., Allen County, Hydrologic Unit 04100005, 1.3 mi (2.1 km) west of Edgerton.
Owner: Noel Gerig.

AQUIFER.--Salina Formation.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 4 in (0.1 m), depth 97 ft (30 m), cased to 40 ft (12.2 m), open end.
Instrumentation: Water-level recorder.

DATUM.--Altitude of land-surface datum is 760 ft (232 m). Measuring point: Top of floor of shelter 0.17 ft (0.05 m) above land-surface datum.

REMARKS.--Water level affected by nearby quarry operations.

PERIOD OF RECORD.--July 1962 to December 1971. January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.04 ft (3.06 m) below land-surface datum, July 8, 9, 1962; lowest, 38.41 ft (11.71 m) below land-surface datum, May 4, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------------------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 34.36 | 34.47 | 34.41 | 35.20 | 34.93 | 34.33 | 33.57 | 33.28 | 33.76 | 34.05 | 34.15 | 33.63 |
| 10 | 34.54 | 34.85 | 34.92 | 35.09 | 34.91 | 34.20 | 33.62 | 33.53 | 33.80 | 33.95 | 33.90 | 33.68 |
| 15 | 34.27 | 34.98 | 34.74 | --- | 34.42 | 34.38 | 33.47 | 33.81 | 34.02 | 33.99 | 34.20 | 33.72 |
| 20 | 34.39 | 35.21 | 34.13 | 34.11 | 34.60 | 34.06 | 33.61 | 33.75 | 33.96 | 34.10 | 33.88 | 33.63 |
| 25 | 34.22 | 34.90 | 34.49 | 34.27 | 34.42 | 33.42 | 33.40 | 33.72 | 34.28 | 33.86 | 33.94 | 33.71 |
| EOM | 34.77 | 34.70 | 34.65 | 34.62 | 34.46 | 33.72 | 33.24 | 33.94 | 33.73 | 33.97 | 33.81 | 33.51 |
| MIN | 34.96 | 35.30 | 35.38 | 35.48 | 35.35 | 34.79 | 34.06 | 34.20 | 34.42 | 34.26 | 34.29 | 34.00 |
| MAX | 34.19 | 34.33 | 34.13 | 34.01 | 34.37 | 33.16 | 33.00 | 33.03 | 33.73 | 33.75 | 33.64 | 33.35 |
| WTR YR 1979 | HIGH 33.00 APR 26 | | | LOW 35.48 JAN 4 | | | | | | | | |

ALLEN COUNTY

410932084561101. Local number, AL 6.

LOCATION.--Lat 41°09'32", long 84°56'11", in SW¼SW¼NE¼ sec.10, T.31 N., R.14 E., Allen County, Hydrologic Unit 04100005, at the intersection of Ehle and Thimler Roads, 10 mi (16.1 km) northeast of New Haven.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 84 ft (26 m), cased to 81.5 ft (24.8 m), screened to 83.5 ft (25.5 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 760 ft (232 m). Measuring point: Top of floor of shelter 2.50 ft (0.76 m) above land-surface datum.

REMARKS.--Water level affected by pumpage.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.20 ft (2.50 m) below land-surface datum, May 1, 1970; lowest, 14.77 ft (4.50 m) below land-surface datum, Oct. 29, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-----------------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 13.98 | 14.31 | 13.71 | 12.75 | 12.80 | 11.46 | 9.44 | 10.69 | 10.81 | 11.56 | 10.77 | 10.51 |
| 10 | 14.10 | 14.35 | 13.38 | 12.65 | 12.98 | 10.81 | 9.74 | 10.91 | 11.07 | 11.69 | 10.28 | 10.89 |
| 15 | 14.09 | 14.28 | 13.18 | 12.67 | 12.96 | 10.83 | 9.19 | 10.97 | 11.35 | 11.72 | 9.98 | 11.20 |
| 20 | 14.15 | 14.21 | 13.09 | 12.61 | 13.04 | 10.56 | 9.70 | 10.90 | 11.46 | 11.94 | 9.65 | 11.42 |
| 25 | 14.16 | 14.17 | 13.20 | 12.68 | 12.76 | 10.38 | 10.11 | 10.73 | 11.19 | 12.00 | 9.34 | 11.67 |
| EOM | 14.28 | 14.17 | 13.18 | 12.79 | 12.63 | 9.30 | 10.41 | 10.57 | 11.32 | 12.04 | 10.01 | 11.86 |
| MIN | 14.77 | 14.43 | 14.22 | 13.19 | 13.18 | 12.63 | 10.64 | 11.21 | 11.73 | 12.28 | 12.07 | 11.98 |
| MAX | 13.98 | 14.10 | 13.09 | 12.51 | 12.63 | 9.30 | 9.18 | 10.41 | 10.79 | 11.32 | 9.32 | 10.12 |
| WTR YR 1979 | HIGH 9.18 APR 2 | | | LOW 14.77 OCT 29 | | | | | | | | |

GROUND-WATER LEVELS

BARTHOLOMEW COUNTY

391320085534601. Local number, BA 3.

LOCATION.--Lat 39°13'20", long 85°53'46", in NE¼NE¼SE¼ sec.18, T.9 N., R.6 E., Bartholomew County, Hydrologic Unit 05120205, in northeast corner of Lincoln Park in the city of Columbus.
Owner: City of Columbus.

AQUIFER.--Sand and Gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 123 ft (37.5 m), cased to 116 ft (35 m), screened to 121 ft (37 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 639.8 ft (195.0 m). Measuring point: Top of floor of shelter 2.50 ft (0.76 m) above land-surface datum.

REMARKS.--Water level affected by pumpage for water and sewage utilities.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.75 ft (5.11 m) below land-surface datum, Feb. 24, 25, 1975; lowest, 28.74 ft (8.76 m) below land-surface datum, Oct. 9, 1971.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| 5 | 18.31 | 18.49 | 18.23 | 17.71 | 18.08 | --- | 17.76 | 18.04 | 18.82 | 18.96 | 18.29 | 19.10 |
| 10 | 18.39 | 18.68 | 17.80 | 17.92 | 18.17 | --- | 17.88 | 18.25 | 18.83 | 18.99 | 18.89 | 19.05 |
| 15 | 18.07 | 18.62 | 17.90 | 17.98 | 18.19 | --- | 17.57 | 18.38 | 19.10 | 18.40 | 19.33 | 19.30 |
| 20 | 18.22 | 18.36 | 17.98 | 17.94 | --- | --- | 17.85 | 18.60 | 19.43 | 19.29 | 18.50 | 19.17 |
| 25 | 18.32 | 18.46 | 18.06 | 17.78 | --- | --- | 17.93 | 18.51 | 19.21 | 19.53 | 18.86 | 19.46 |
| EOM | 18.44 | 18.49 | 18.05 | 17.94 | --- | 17.99 | 18.09 | 18.73 | 19.28 | 17.98 | 18.97 | 19.35 |
| MIN | 18.66 | 18.90 | 18.54 | 18.07 | 18.22 | 18.01 | 18.14 | 19.71 | 20.10 | 20.05 | 19.97 | 20.21 |
| MAX | 18.07 | 18.36 | 17.80 | 17.53 | 17.98 | 17.99 | 17.57 | 18.04 | 18.68 | 17.94 | 18.19 | 18.82 |
| WTR YR 1979 | HIGH | 17.53 | JAN 2 | LOW | 20.21 | SEPT 12 | | | | | | |

BARTHOLOMEW COUNTY

391627085534401. Local number, BA 4.

LOCATION.--Lat 39°16'27", long 85°53'44", in NE¼NE¼NE¼ sec.31, T.10 N., R.6 E., Bartholomew County, Hydrologic Unit 05120205, by a cemetery on the north side of Bakalar AFB at the northern city limits of Columbus.
Owner: Bartholomew County.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 93 ft (28 m), cased to 85 ft (26 m), screened to 90 ft (27 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 646 ft (197 m). Measuring point: Top of floor of shelter 2.60 ft (0.79 m) above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.25 ft (4.34 m) below land-surface datum, Mar. 23, 1979; lowest, 21.15 ft (6.47 m) below land-surface datum, Feb. 11, 12, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
| 5 | 17.05 | 17.63 | 18.05 | 17.11 | 16.59 | 15.18 | 14.68 | 15.00 | 15.71 | 16.47 | 15.57 | 15.38 |
| 10 | 17.17 | 17.72 | 18.05 | 16.91 | 16.68 | 14.62 | 14.82 | 15.06 | 15.86 | 16.56 | 15.15 | 15.50 |
| 15 | 17.29 | 17.82 | 17.66 | 16.70 | 16.73 | 14.36 | 14.92 | 15.17 | 16.01 | 16.61 | 15.05 | 15.63 |
| 20 | 17.37 | 17.92 | 17.31 | 16.55 | 16.85 | 14.28 | 14.93 | 15.27 | 16.14 | 16.63 | 15.07 | 15.77 |
| 25 | 17.43 | 17.98 | 14.00 | 16.53 | 15.84 | 14.34 | 14.86 | 15.41 | 16.27 | 16.65 | 15.19 | 15.93 |
| EOM | 17.56 | 18.00 | 17.11 | 16.50 | 15.73 | --- | 14.93 | 15.57 | 16.35 | 16.06 | 15.32 | 16.08 |
| MIN | 17.57 | 18.02 | 18.09 | 17.14 | 16.88 | 15.72 | 14.98 | 15.60 | 16.37 | 16.67 | 16.03 | 16.10 |
| MAX | 16.95 | 17.57 | 17.11 | 16.47 | 15.73 | 14.25 | 14.57 | 14.94 | 15.61 | 16.06 | 15.06 | 15.85 |
| WTR YR 1979 | HIGH | 14.25 | MAR 23 | LOW | 18.09 | DEC 6, 7 | | | | | | |

GROUND-WATER LEVELS

BARTHOLOMEW COUNTY

390950085553501. Local number, BA 8.

LOCATION.--Lat 39°09'50", long 85°55'35", in NE¼NW¼SW¼ sec.1, T.8 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, on property of Meadows Metal Products Co. about 4 mi (6.4 km) south of Columbus.
Owner: Meadows Metal Products Co., Inc.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 49 ft (15 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 618.5 ft (188.5 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.06 ft (2.46 m) below land-surface datum, June 3, 1968;
lowest, 23.17 ft (7.06 m) below land-surface datum, Nov. 30, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 19.17 | 19.92 | 20.24 | 18.58 | 17.40 | 14.70 | 13.90 | 14.12 | 15.78 | 17.16 | 14.28 | 14.58 |
| 10 | 19.38 | 20.04 | 20.06 | 17.94 | 17.52 | 13.28 | 14.04 | 14.29 | 16.06 | 17.30 | 13.43 | 14.85 |
| 15 | 19.49 | 20.17 | 19.57 | 17.58 | 17.63 | 12.98 | 13.97 | 14.55 | 16.35 | 17.37 | 13.42 | 15.14 |
| 20 | 19.56 | 20.25 | 19.08 | 17.46 | 17.81 | 13.02 | 13.75 | 14.80 | 16.60 | 17.24 | 13.62 | 15.45 |
| 25 | 19.66 | 20.27 | 18.89 | 17.42 | 16.90 | 13.24 | 13.68 | 15.14 | 16.84 | 17.15 | 13.95 | 15.79 |
| EOM | 19.80 | 20.28 | 18.80 | 17.32 | 16.19 | 13.67 | 13.90 | 15.50 | 17.01 | 16.32 | 14.33 | 16.09 |
| MIN | 19.82 | 20.30 | 20.28 | 18.79 | 17.85 | 16.11 | 14.07 | 15.56 | 17.03 | 17.38 | 16.25 | 16.13 |
| MAX | 19.02 | 19.82 | 18.80 | 17.32 | 16.19 | 12.92 | 13.68 | 13.96 | 15.57 | 16.32 | 13.36 | 14.38 |
| WTR YR 1979 | HIGH | 12.92 | MAR 14 | LOW | 20.30 | NOV 28 | | | | | | |

BARTHOLOMEW COUNTY

391035085560401. Local number, BA 9.

LOCATION.--Lat 39°10'35", long 85°56'04", in SW¼NE¼SW¼ sec.35, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, at the Bartholomew County Home on the 4-H Fairgrounds 3.0 mi (4.8 km) south of Columbus.
Owner: City of Columbus.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 115 ft (35 m), cased to 106 ft (32 m), screened to 111 ft (34 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 621.5 ft (189.4 m). Measuring point: Top of floor of shelter 1.65 ft (0.50 m) above land-surface datum.

REMARKS.--Water level affected by pumpage from municipal supply well field.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.75 ft (3.89 m) below land-surface datum, Apr. 27-30, 1973; lowest, 38.75 ft (11.81 m) below land-surface datum, Sept. 15, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 32.45 | 32.82 | 32.87 | 31.36 | 30.17 | 27.38 | --- | 26.22 | 27.45 | 29.42 | 24.98 | --- |
| 10 | 32.68 | 32.98 | 32.83 | 31.13 | 30.38 | 26.12 | --- | 26.76 | 28.33 | 29.76 | 24.93 | 25.78 |
| 15 | 32.48 | 32.80 | 32.65 | 30.79 | 30.38 | 25.62 | --- | 26.77 | 29.18 | 29.32 | 25.50 | 25.74 |
| 20 | 32.77 | 32.83 | 32.34 | 30.72 | 30.65 | 25.60 | --- | --- | 28.19 | 28.93 | --- | 26.00 |
| 25 | 32.63 | 32.66 | 31.93 | 30.21 | 29.29 | --- | 26.07 | 24.02 | 28.45 | 28.80 | --- | 26.06 |
| EOM | 32.80 | 32.89 | 31.69 | 30.25 | 28.12 | --- | 26.03 | 27.00 | 29.21 | 26.16 | --- | 26.32 |
| MIN | 34.13 | 34.50 | 34.46 | 32.93 | 31.91 | 29.55 | 27.43 | 28.48 | 30.66 | 31.13 | 27.73 | 28.17 |
| MAX | 32.35 | 32.66 | 31.69 | 30.15 | 28.12 | 25.50 | 26.03 | 24.00 | 25.00 | 26.16 | 24.86 | 25.71 |
| WTR YR 1979 | HIGH | 24.00 | MAY 24 | LOW | 34.50 | NOV 21 | | | | | | |

BARTHOLOMEW COUNTY

390317085523701. Local number, BA 10.

LOCATION.--Lat 39°03'17", long 85°52'37", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.7 N., R.6 E., Bartholomew County, Hydrologic Unit 05120207, 0.8 mi (1.3 km) east of U.S. Highway 31A and 1.0 mi (1.6 km) southeast of Jonesville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (152 mm), depth 85 ft (22.9 m), cased to 80 ft (24.4 m), screened to 85 ft (25.9 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 580 ft (177 m). Measuring point: Top of floor of shelter 3.5 ft (1.1 m) above land-surface datum.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.67 ft (0.204 m) below land-surface datum, Apr. 14, 1979;
lowest, 9.45 ft (2.880 m) below land-surface datum, Nov. 14, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|------------|------|------|------|-------------|------|------|------|------|------|
| 5 | 8.95 | 9.01 | 7.67 | 3.78 | 7.32 | 1.94 | 4.96 | 6.36 | 8.21 | 8.64 | 2.69 | 7.01 |
| 10 | 9.12 | 9.16 | 4.98 | 6.03 | 7.65 | 4.38 | 5.62 | 6.83 | 8.35 | 8.62 | 5.36 | 7.56 |
| 15 | 7.98 | 9.30 | 6.15 | 6.64 | 7.88 | 5.74 | .80 | 7.12 | 8.57 | 5.22 | 6.27 | 7.84 |
| 20 | 8.27 | 8.66 | 6.78 | 6.71 | 8.10 | 6.15 | 4.70 | 7.43 | 8.72 | --- | --- | 8.09 |
| 25 | 8.48 | 8.65 | 7.08 | 6.20 | 1.74 | 6.41 | 6.21 | 7.73 | 8.61 | 7.12 | --- | 8.40 |
| EOM | 8.78 | 8.61 | 6.84 | 6.82 | 2.97 | 6.83 | 6.67 | 8.05 | 8.77 | 2.04 | --- | 8.63 |
| MIN | 9.28 | 9.45 | 8.78 | 7.01 | 8.17 | 7.01 | 6.92 | 8.11 | 8.87 | 8.99 | 6.48 | 8.72 |
| MAX | 7.98 | 8.52 | 4.98 | 3.24 | 1.54 | 1.90 | .67 | 6.36 | 8.09 | 2.04 | 1.79 | 7.00 |
| WTR YR 1979 | HIGH | | .67 APR 14 | | LOW | | 9.45 NOV 14 | | | | | |

BARTHOLOMEW COUNTY

391752085571001. Local number, BA 11.

LOCATION.--Lat 39°17'52", long 85°57'10", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.10 N., R.5 E., Bartholomew County, Hydrologic Unit 05120205, at end of pavement on Mill Street, 100 ft (30 m) west of Fifth Street, in Taylorsville.
Owner: City of Taylorsville.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in (50.8 mm), depth 18 ft (5.5 m), cased to 15.5 ft (4.7 m), screened to 18 ft (5.5 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 655 ft (200 m). Measuring point: Lip of coupling at ground level.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.88 ft (0.27 m) below land-surface datum, Mar. 8, 1979;
lowest, 7.23 ft (2.20 m) below land-surface datum, Dec. 13, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-----------|-----|-----|------|-------------|------|------|------|------|------|
| 5 | 5.43 | --- | 7.04 | | | --- | 1.98 | 2.79 | 3.56 | 4.47 | 5.07 | 5.20 |
| 10 | 5.61 | --- | 7.18 | | | .93 | 2.13 | 2.92 | 3.72 | 4.61 | 5.08 | 5.27 |
| 15 | 5.75 | 6.60 | --- | | | --- | 2.30 | 3.04 | 3.86 | 4.73 | 5.12 | 5.33 |
| 20 | 5.87 | 6.72 | --- | | | 1.36 | 2.42 | 3.26 | 4.04 | 4.87 | 5.12 | 5.42 |
| 25 | 6.00 | 6.84 | --- | | | 1.56 | 2.53 | 3.36 | 4.20 | 4.96 | 5.14 | 5.48 |
| EOM | --- | 6.95 | --- | | | 1.80 | 2.66 | 3.48 | 4.36 | 5.06 | 5.17 | 5.56 |
| MIN | 6.08 | 6.96 | 7.23 | --- | --- | 1.84 | 2.69 | 3.49 | 4.38 | 5.06 | 5.17 | 5.57 |
| MAX | 5.28 | 6.58 | 6.96 | --- | --- | .88 | 1.84 | 2.69 | 3.49 | 4.38 | 5.06 | 5.17 |
| WTR YR 1979 | HIGH | | .88 MAR 8 | | LOW | | 7.23 DEC 13 | | | | | |

GROUND-WATER LEVELS

BENTON COUNTY

402851087213501. LOCAL NUMBER, BE 4.

LOCATION.--Lat 40°28'51", long 87°21'35", SE¼NE¼SE¼ sec.31, T.24 N., R.8 W., Benton County, Hydrologic Unit 05120108, on north side of county road, 3.6 mi (5.8 km) southeast of Boswell.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 310 ft (94 m), cased to 300 ft (91 m), screened to 305 ft (93 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land surface is 710 ft (216 m). Measuring point: Top of floor of shelter 2.15 ft (0.66 m) above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.06 ft (3.68 m) below land-surface datum May 27, 1979; lowest, 15.59 (4.75 m) below land-surface datum, Feb. 17, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-----|
| 5 | | 14.37 | --- | 15.23 | 15.32 | 15.27 | 14.10 | 12.57 | 12.10 | 12.60 | 12.62 | |
| 10 | | 14.45 | --- | 15.22 | 15.40 | 15.14 | 13.94 | 12.39 | 12.18 | 12.64 | 12.61 | |
| 15 | | 14.61 | --- | 15.13 | 15.27 | 15.11 | 13.63 | 12.31 | 12.36 | 12.58 | 12.74 | |
| 20 | | 14.74 | --- | 14.90 | 15.39 | 14.86 | 13.41 | 12.24 | 12.38 | 12.78 | 12.51 | |
| 25 | | --- | --- | 14.93 | 15.39 | 14.43 | 12.92 | 12.18 | 12.61 | 12.63 | 12.55 | |
| EOM | | --- | 14.95 | 15.14 | 15.35 | 14.40 | 12.79 | 12.13 | 12.51 | 12.65 | --- | |
| MIN | | 14.78 | 15.17 | 15.31 | 15.59 | 15.44 | 14.43 | 12.83 | 12.67 | 12.81 | 12.81 | |
| MAX | | 14.37 | 14.95 | 14.80 | 15.21 | 14.37 | 12.78 | 12.06 | 12.10 | 12.42 | 12.48 | |
| WTR YR 1979 | HIGH | 12.06 | MAY 27 | LOW | 15.59 | FEB 17 | | | | | | |

CASS COUNTY

403407086175701. Local number, CS 3.

LOCATION.--Lat 40°34'07", long 86°17'57", NE¼NE¼SE¼ sec.33, T.25 N., R.2 E., Cass County, Hydrologic Unit 05120105, at intersection of State Highway 18 and County Road 400 East, 2.5 mi (4.0 km) east of Young America.
Owner: U.S. Geological Survey.

AQUIFER.--Dolomitic Limestone of Devonian-Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 130 ft (40 m), cased to 78 ft (24 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 780 ft (238 m). Measuring point: Top of floor of shelter 2.65 ft (0.81 m) above land-surface datum.

PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.85 ft (1.17 m) below land-surface datum, Feb. 2, 1968; lowest, 7.95 ft (2.42 m) below land-surface datum, Feb. 11, 15, 16, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|--------|------|------|--------|------|------|------|------|------|------|
| 5 | 6.42 | 6.98 | 6.93 | 6.60 | 6.25 | 5.78 | 5.85 | 5.83 | 5.91 | 6.13 | 6.21 | 6.26 |
| 10 | 6.64 | 7.07 | 7.05 | 6.42 | 6.26 | 6.16 | 5.88 | 5.87 | 5.93 | 6.03 | 6.24 | 6.28 |
| 15 | 6.56 | 7.17 | 6.77 | 6.29 | 6.24 | 6.18 | 5.70 | 5.91 | 6.06 | 6.05 | 6.27 | 6.34 |
| 20 | 6.72 | 7.35 | 6.38 | 6.20 | 6.21 | 6.08 | 5.83 | 5.93 | 6.02 | 6.16 | 6.25 | 6.30 |
| 25 | 6.71 | 7.25 | 6.50 | 6.25 | 6.25 | 5.96 | 5.75 | 5.93 | 6.09 | 6.16 | 6.27 | 6.37 |
| EOM | 6.98 | 7.15 | 6.22 | 6.23 | 6.16 | 5.57 | 5.83 | 5.90 | 6.04 | 6.24 | 6.28 | 6.36 |
| MIN | 7.10 | 7.44 | 7.25 | 6.77 | 6.45 | 6.28 | 6.02 | 6.07 | 6.20 | 6.33 | 6.52 | 6.44 |
| MAX | 6.41 | 6.87 | 6.22 | 6.16 | 6.13 | 5.21 | 4.41 | 5.77 | 5.90 | 6.01 | 6.17 | 6.24 |
| WTR YR 1979 | HIGH | 4.41 | APR 12 | LOW | 7.44 | NOV 20 | | | | | | |

DECATUR COUNTY

392022085371801. Local number, DC 2.

LOCATION.--Lat 39°20'22", long 85°37'18", in SE¼NE¼SW¼ sec.3, T.10 N., R.8 E., Decatur County, Hydrologic Unit 05120206, at the intersection of County Roads 50 North and 750 West and 7.5 mi (12.1 km) west of Greensburg. Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 49 ft (15 m), cased to 12.5 ft (3.8 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 845 ft (258 m). Measuring point: Top of floor of shelter 3.02 ft (0.92 m) above land-surface datum.

PERIOD OF RECORD.--September 1966 to October 1971. September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.16 ft (0.05 m) below land-surface datum, Dec. 10, 1966; lowest, 9.25 ft (2.82 m) below land-surface datum, Feb. 9-11, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-------------|------|------|------|-------------|------|------|------|------|------|
| 5 | 6.91 | 6.81 | 2.59 | 2.14 | 4.60 | --- | 4.34 | | --- | 5.93 | 2.48 | 4.00 |
| 10 | 7.10 | 6.98 | 1.18 | 3.81 | 5.08 | --- | 4.34 | | --- | 5.91 | 2.18 | 4.60 |
| 15 | 4.88 | 7.13 | 2.14 | 3.94 | 5.32 | --- | 1.78 | | --- | .98 | 3.98 | 4.20 |
| 20 | 5.54 | 4.93 | 2.14 | 3.30 | 5.33 | --- | 3.48 | | --- | 3.50 | .86 | 5.01 |
| 25 | 6.08 | 5.37 | 3.66 | 2.50 | .57 | --- | 4.15 | | 5.05 | 3.95 | 3.05 | 5.46 |
| EOM | 6.56 | 5.75 | .66 | 4.02 | --- | 4.97 | 4.66 | | 5.64 | 1.45 | 2.44 | 5.87 |
| MIN | 7.13 | 7.15 | 5.94 | 4.18 | 5.52 | 5.03 | 5.05 | 4.95 | 5.65 | 5.94 | 4.50 | 5.94 |
| MAX | 4.86 | 4.93 | .66 | .55 | .17 | 4.72 | 1.53 | 4.70 | 4.54 | .25 | .86 | 2.97 |
| WTR YR 1979 | HIGH | | 0.17 FEB 23 | | LOW | | 7.15 NOV 16 | | | | | |

DELAWARE COUNTY

400541085213701. Local number, DW 4.

LOCATION.--Lat 40°05'41", long 85°21'37", in SE¼NW¼SW¼ sec.9, T.19 N., R.10 E., Delaware County, Hydrologic Unit 05120201, on property owned by Monroe Township Conservation Club about 8.0 mi (13 km) south of Muncie. Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 91 ft (28 m), cased to 89 ft (27 m), screened to 91 ft (28 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 1,005 ft (306 m). Measuring point: Top of floor of shelter 2.88 ft (0.88 m) above land-surface datum.

PERIOD OF RECORD.--October 1966 to October 1971. October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.49 ft (13.56 m) below land-surface datum, Aug. 1, 1979; lowest, 49.50 ft (15.09 m) below land-surface datum, Oct. 13, 14, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|
| 5 | 48.59 | 48.64 | 48.18 | 47.28 | 48.38 | 45.27 | 48.15 | 48.12 | 47.98 | 48.40 | 46.33 | 47.68 |
| 10 | 48.63 | 48.65 | 47.93 | 47.73 | 48.46 | 46.74 | 48.14 | 48.22 | 47.85 | 48.44 | 47.27 | 47.92 |
| 15 | 48.45 | 48.62 | 48.09 | 47.97 | 48.54 | 47.38 | 47.50 | 48.28 | 48.09 | 48.30 | 47.68 | 48.04 |
| 20 | 48.48 | 48.28 | 48.24 | 48.11 | 48.59 | 47.69 | 47.74 | 48.32 | 48.16 | 48.47 | 45.75 | 48.13 |
| 25 | 48.55 | 48.34 | 48.29 | 48.13 | 45.90 | 47.88 | 47.90 | 48.38 | 48.28 | 47.67 | 46.50 | 48.22 |
| EOM | 48.60 | 48.46 | 47.72 | 48.29 | 46.85 | 48.08 | 48.03 | 48.37 | 48.31 | 46.57 | 47.29 | 48.29 |
| MIN | 48.64 | 48.67 | 48.49 | 48.30 | 48.59 | 48.09 | 48.15 | 48.38 | 48.43 | 48.52 | 47.90 | 48.29 |
| MAX | 48.45 | 48.28 | 47.72 | 47.10 | 44.84 | 44.96 | 47.50 | 48.06 | 47.69 | 45.74 | 44.49 | 47.38 |
| WTR YR 1979 | HIGH | | 44.49 AUG 1 | | LOW | | 48.67 NOV 13 | | | | | |

ELKHART COUNTY

414351085540401. Local number, EH 6.

LOCATION.--Lat 41°43'51", long 85°54'04", in NW¼NE¼SW¼ sec.24, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, on the southeast shore of Heaton Lake, 4.0 mi (6.4 km) east of Elkhart.
Owner: State of Indiana.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 22 ft (6.7 m), cased to 20 ft (6.1 m), screened to 22 ft (6.7 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 770 ft (235 m). Measuring point: Top of floor of shelter 2.50 ft (0.76 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.25 ft (1.90 m) below land-surface datum, Apr. 11, 1978; lowest, 10.43 ft (3.18 m) below land-surface datum, Nov. 10 to Dec. 3, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 5 | 10.07 | 10.40 | 10.36 | 9.73 | 9.56 | 8.82 | 7.10 | 6.75 | 7.15 | 7.40 | 8.65 | 8.35 |
| 10 | 10.07 | 10.43 | 10.23 | 9.61 | 9.61 | 7.90 | 7.01 | 6.72 | 7.18 | 7.60 | 8.48 | 8.55 |
| 15 | 10.07 | 10.43 | 10.11 | 9.55 | 9.65 | 7.68 | 6.89 | 6.65 | 7.25 | 7.83 | 8.38 | 8.68 |
| 20 | 10.07 | 10.43 | 10.05 | 9.44 | 9.70 | 7.47 | 6.91 | 6.67 | 7.39 | 8.15 | 8.21 | 8.91 |
| 25 | 10.07 | 10.43 | 10.03 | 9.46 | 9.70 | 7.38 | 6.98 | 6.83 | 7.58 | 8.34 | 8.13 | 9.08 |
| EOM | 10.07 | 10.43 | 9.97 | 9.51 | 9.65 | 7.37 | 6.88 | 7.00 | 7.43 | 8.60 | 8.16 | 9.13 |
| MIN | 10.08 | 10.43 | 10.43 | 9.92 | 9.70 | 9.65 | 7.31 | 7.01 | 7.72 | 8.60 | 8.65 | 9.13 |
| MAX | 10.07 | 10.07 | 9.97 | 9.43 | 9.52 | 7.37 | 6.88 | 6.65 | 7.02 | 7.39 | 8.12 | 8.19 |

WTR YR 1979 HIGH 6.65 MAY 14 AND OTHERS LOW 10.43 NOV 10 AND OTHERS

FRANKLIN COUNTY

392416085004301. Local number, FR 5.

LOCATION.--Lat 39°24'16", long 85°00'43", in SE¼NE¼NW¼ sec.32, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, adjacent to property of Franklin County Conservation Club about 1.0 mi (1.6 km) south of Brookville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 61 ft (19 m), cased to 57 ft (17 m), screened to 59 ft (18 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 625 ft (190 m). Measuring point: Top of floor of shelter 2.71 ft (0.83 m) above land-surface datum.

PERIOD OF RECORD.--March 1968 to October 1971. September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.95 ft (3.64 m) below land-surface datum, May 24, 1968; lowest, 27.32 ft (8.33 m) below land-surface datum, Feb. 1, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 26.29 | 25.96 | 24.64 | 23.52 | 25.34 | 20.29 | 23.92 | 24.54 | 25.73 | 25.63 | | --- |
| 10 | 26.32 | 25.96 | 23.93 | 23.67 | 25.59 | 20.82 | 24.06 | 24.79 | 25.43 | 25.72 | | --- |
| 15 | 25.96 | 25.99 | 24.40 | 24.55 | 25.74 | 21.68 | 22.64 | 25.06 | 25.72 | 24.56 | | --- |
| 20 | 25.66 | 25.43 | 24.23 | 24.73 | 25.85 | 23.25 | 23.14 | 25.36 | 25.75 | 24.89 | | 24.99 |
| 25 | --- | 25.40 | 24.76 | 24.58 | 21.50 | 23.94 | 23.86 | 25.57 | 25.21 | 24.34 | | 25.07 |
| EOM | 25.97 | 25.41 | 24.82 | 25.05 | 22.23 | 24.52 | 24.48 | 25.61 | 25.74 | 21.85 | | 25.46 |
| MIN | 26.33 | 26.04 | 25.65 | 25.11 | 25.87 | 24.56 | 24.59 | 25.62 | 25.93 | 25.95 | 22.41 | 25.51 |
| MAX | 25.58 | 25.39 | 23.88 | 23.34 | 21.50 | 20.29 | 22.64 | 24.54 | 25.21 | 21.33 | 21.79 | 24.94 |

WTR YR 1979 HIGH 20.29 MAR 5 LOW 26.33 OCT 10, 11, 12

GROUND-WATER LEVELS

FULTON COUNTY

405829086175801. Local number, FU 7.

LOCATION.--Lat 40°58'29", long 86°17'58", NW¼NW¼SW¼ sec.10, T.29 N., R.2 E., Fulton County, Hydrologic Unit 05120106, 2.5 mi (4.0 km) northwest of Fulton.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 102 ft (31 m), cased to 96 ft (29 m), screened to 102 ft (31 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 780 ft (238 m). Measuring point: Top of floor of shelter 2.50 ft (0.76 m) above land-surface datum.

PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.35 ft (1.94 m) below land-surface datum, Apr. 23-27, 1973; lowest, 12.60 ft (3.84 m) below land-surface datum, Feb. 7, 8, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 5 | 11.91 | 12.29 | 12.26 | 11.85 | 12.13 | 11.12 | 9.41 | 8.54 | 9.51 | 10.23 | 10.90 | 11.43 |
| 10 | 12.04 | 12.35 | 12.20 | 11.82 | 12.17 | 10.89 | 9.31 | --- | 9.67 | 10.34 | 10.96 | 11.55 |
| 15 | 12.05 | 12.39 | 12.06 | 11.82 | 12.11 | 10.90 | 8.88 | --- | 9.84 | 10.50 | 11.13 | 11.63 |
| 20 | 12.12 | 12.43 | 11.96 | 11.76 | 12.19 | 10.78 | 9.09 | --- | 9.90 | 10.68 | 11.12 | 11.72 |
| 25 | 12.13 | 12.39 | 12.07 | 11.86 | 11.96 | 10.49 | 9.07 | --- | 10.03 | 10.72 | 11.22 | 11.84 |
| EOM | 12.30 | 12.41 | 12.01 | 12.01 | 11.83 | 9.77 | 8.69 | 9.32 | 10.03 | 10.82 | 11.34 | 11.88 |
| MIN | 12.31 | 12.44 | 12.45 | 12.04 | 12.30 | 11.83 | 9.76 | 9.38 | 10.11 | 10.89 | 11.36 | 11.90 |
| MAX | 11.89 | 12.24 | 11.96 | 11.64 | 11.83 | 9.77 | 8.69 | 8.53 | 9.38 | 10.06 | 10.79 | 11.34 |

WTR YR 1979 HIGH 8.53 MAY 6 LOW 12.45 DEC 2

GRANT COUNTY

402322085481901. Local number, GT 8.

LOCATION.--Lat 40°23'22", long 85°48'19", in NW¼SW¼NW¼ sec.1, T.22 N., R.6 E., Grant County, Hydrologic Unit 05120107, located on County Road 700 West right of way about 1.0 mi (1.6 km) northwest of Rigdon.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 35 ft (11 m), cased to 20 ft (6 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 880 ft (268 m). Measuring point: Top of floor of shelter 3.10 ft (0.94 m) above land-surface datum.

PERIOD OF RECORD.--October 1966 to October 1971. July 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.30 ft (0.40 m) below land-surface datum, Feb. 24, 1975; lowest, 10.66 ft (3.25 m) below land-surface datum, Oct. 29, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|-----|------|-----|------|
| 5 | --- | 7.93 | 6.06 | 4.04 | 5.24 | 2.90 | 2.43 | 3.84 | --- | --- | --- | 3.94 |
| 10 | --- | 8.03 | 5.13 | 4.41 | 5.31 | 2.82 | 2.60 | 4.01 | --- | --- | --- | 4.36 |
| 15 | --- | 8.01 | 4.95 | 4.75 | 5.14 | 2.81 | 1.83 | --- | --- | 4.19 | --- | 4.66 |
| 20 | --- | 7.66 | 4.90 | 4.52 | 5.25 | 2.72 | 2.90 | --- | --- | 3.22 | --- | 4.86 |
| 25 | --- | 7.51 | 5.18 | 4.85 | 3.75 | 2.67 | 3.38 | --- | --- | 2.84 | --- | 5.08 |
| EOM | 7.96 | 7.43 | 4.80 | 5.06 | 4.06 | 2.44 | 3.67 | --- | --- | 3.44 | --- | 5.16 |
| MIN | 8.08 | 8.22 | 7.59 | 5.18 | 5.58 | 4.06 | 3.79 | 4.20 | --- | 4.51 | --- | 5.38 |
| MAX | 7.96 | 7.30 | 4.80 | 3.93 | 3.75 | 2.44 | 1.72 | 3.67 | --- | 2.78 | --- | 3.52 |

WTR YR 1979 HIGH 1.72 APR 12 LOW 8.22 NOV 8

HAMILTON COUNTY

400000086023001. Local number, HA 5.

LOCATION.--Lat 40°00'00", long 86°02'30", SW¼SW¼SE¼ sec.14, T.18 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, on Gray Road, 1.2 mi (1.9 km) west of State Highway 234, and 3.5 mi (5.6 km) southwest of Noblesville.

Owner: Earlham College.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 100 ft (30 m), cased to 80 ft (24 m), screened to 85 ft (26 m), open end.

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 758 ft (231 m). Measuring point: Top of floor of shelter 2.76 ft (0.84 m) above land-surface datum.

PERIOD OF RECORD.--July 1965 to September 1971, July 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.02 ft (2.44 m) below land-surface datum, Mar. 21, 22, 1978; lowest, 11.66 ft (3.55 m) below land-surface datum, Sept. 19, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|------------|-------|------------------|-------|------|------|------|-------|-------|------|-------|
| 5 | 10.32 | 10.51 | 10.02 | 9.60 | 10.17 | 8.27 | 9.25 | 9.42 | 9.97 | 9.99 | 9.08 | 9.89 |
| 10 | 10.39 | 10.53 | 9.91 | 9.75 | 10.24 | 8.61 | 9.14 | 9.59 | 9.82 | 10.08 | 9.34 | 10.01 |
| 15 | 10.28 | 10.42 | 9.92 | 9.87 | 10.29 | 8.95 | 8.51 | 9.63 | 9.96 | 9.66 | 9.55 | 10.08 |
| 20 | 10.38 | 10.21 | 9.99 | 9.95 | 10.35 | 9.17 | 8.85 | 9.74 | 10.02 | 9.77 | 9.57 | 10.17 |
| 25 | 10.42 | 10.21 | 10.09 | 9.96 | 9.00 | 9.21 | 8.09 | 9.83 | 10.10 | 9.68 | 9.71 | 10.26 |
| EOM | 10.47 | 10.25 | 9.89 | 10.08 | 9.11 | 9.26 | 9.27 | 9.90 | 10.17 | 8.96 | 9.79 | 10.32 |
| MIN | 10.47 | 10.55 | 10.29 | 10.09 | 10.35 | 9.32 | 9.30 | 9.91 | 10.17 | 10.21 | 9.80 | 10.31 |
| MAX | 10.27 | 10.20 | 9.89 | 9.60 | 9.00 | 8.27 | 8.50 | 9.31 | 9.81 | 8.95 | 8.89 | 9.81 |
| WTR YR 1979 | HIGH | 8.27 MAR 5 | LOW | 10.55 NOV 12, 13 | | | | | | | | |

HARRISON COUNTY

382323086044501. Local number, HR 8.

LOCATION.--Lat 38°23'23", long 86°04'45", in NW¼NW¼NE¼ sec.33, T.1 S., R.4 E., Harrison County, Hydrologic Unit 05140104, on Harrison County Road right of way, 2.0 mi (3.2 km) southeast of Palmyra.

Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 93 ft (28 m), cased to 54 ft (16 m), open end.

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 827 ft (252 m). Measuring point: Top of floor of shelter 3.08 ft (0.94 m) above land-surface datum.

PERIOD OF RECORD.--November 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.98 ft (0.30 m) below land-surface datum, Apr. 2, 1979; lowest, 19.71 ft (6.01 m) below land-surface datum, Nov. 5, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-----------|------|--------------|------|------|------|------|------|------|------|------|
| 5 | 13.81 | 14.24 | 2.58 | 3.28 | 5.13 | 2.40 | --- | 4.15 | --- | 8.05 | 4.46 | 8.66 |
| 10 | 14.13 | 14.48 | 2.10 | 4.31 | 6.02 | 3.60 | --- | 4.78 | 4.53 | 8.64 | 5.52 | 9.41 |
| 15 | 14.34 | 14.55 | 3.36 | 4.37 | 5.76 | 4.47 | --- | 5.69 | 4.95 | 8.98 | --- | 9.59 |
| 20 | 14.57 | 10.63 | 3.39 | 2.80 | 5.47 | 4.90 | 3.57 | 6.22 | 5.87 | 9.49 | --- | 9.87 |
| 25 | 14.81 | 9.87 | 3.56 | 2.65 | 2.01 | 2.78 | 4.46 | 7.04 | 6.67 | 9.64 | 7.43 | 6.44 |
| EOM | 14.17 | 4.89 | 3.18 | 4.08 | 2.60 | 1.97 | 5.14 | 7.91 | 7.24 | 2.74 | 8.07 | 6.97 |
| MIN | 14.89 | 14.84 | 5.11 | 4.59 | 6.48 | 5.10 | 5.38 | 8.03 | 8.82 | 9.89 | 8.16 | 9.96 |
| MAX | 13.60 | 4.87 | 1.49 | 1.85 | 2.01 | 1.97 | .98 | 4.11 | 4.44 | 2.08 | 3.17 | 6.44 |
| WTR YR 1979 | HIGH | .98 APR 2 | LOW | 14.89 OCT 26 | | | | | | | | |

GROUND-WATER LEVELS

HENDRICKS COUNTY

394025086400801. Local number, HD 4.

LOCATION.--Lat 39°40'25", long 86°40'08", in NW¼NW¼NW¼ sec.8, T.14 N., R.2 W., Hendricks County, Hydrologic Unit 05120203, at the intersection of State Highway 75 and County Road 600 South on county right of way 1.0 mi (1.6 km) south of Coatesville.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 85 ft (26 m), cased to 70 ft (21 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 860 ft (262 m). Measuring point: Top of floor of shelter 1.92 ft (0.59 m) above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--October 1966 to September 1971. November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.65 ft (5.68 m) below land-surface datum, Jan. 30, 1976; lowest, 28.0 ft (8.53 m) below land-surface datum, January 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 23.69 | 23.31 | 21.75 | 21.03 | 22.07 | 20.81 | 20.28 | 21.52 | 22.55 | 22.07 | 20.74 | 20.79 |
| 10 | 23.75 | 23.39 | 21.29 | 21.23 | 22.37 | 20.64 | 20.33 | 21.65 | 22.86 | 22.10 | 21.12 | 22.37 |
| 15 | 23.22 | 23.46 | 21.20 | 21.49 | 22.47 | 20.75 | 20.14 | 21.93 | 22.86 | 21.43 | 21.48 | 22.23 |
| 20 | 22.98 | 22.65 | 21.18 | 21.79 | 22.89 | 20.83 | 20.60 | 22.03 | 22.94 | 21.31 | 21.31 | 22.32 |
| 25 | 23.00 | 22.10 | 21.18 | 21.74 | 21.75 | 20.31 | 21.18 | 22.23 | 22.66 | 21.60 | 20.85 | 22.55 |
| EOM | 23.20 | 22.11 | 21.30 | 21.90 | 21.37 | 20.27 | 21.28 | 22.48 | 22.55 | 21.09 | 20.41 | 22.67 |
| MIN | 24.05 | 23.69 | 22.30 | 22.33 | 23.56 | 21.51 | 21.62 | 22.82 | 23.92 | 22.90 | 22.02 | 23.31 |
| MAX | 22.96 | 22.03 | 21.17 | 20.93 | 21.37 | 20.27 | 20.11 | 21.25 | 22.44 | 21.09 | 20.41 | 20.34 |

WTR YR 1979 HIGH 20.11 APR 2 AND OTHERS LOW 24.05 OCT 1, 2

JASPER COUNTY

410249087011201. Local number, JP 4.

LOCATION.--Lat 41°02'49", long 87°01'12", SW¼NE¼SW¼ sec.17, T.30 N., R.5 W., Jasper County, Hydrologic Unit 07120002, on property of William Gehring, Inc., 0.9 mi (1.4 km) east of Newland.
Owner: William Gehring, Inc.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 16 in (0.41 m), depth 300 ft (91 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 680 ft (207 m). Measuring point: Top of floor of shelter 0.00 ft (0.00 m) above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--July 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.95 ft (0.29 m) below land-surface datum, Apr. 9, 1962; lowest, 38.70 ft (11.80) below land-surface datum, July 24, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 5 | 16.42 | 6.92 | 5.32 | 4.96 | 4.49 | 3.75 | 2.91 | 2.51 | 9.11 | 22.12 | 9.95 | 8.81 |
| 10 | 16.07 | 6.53 | 5.43 | 4.86 | 4.44 | 3.38 | 3.01 | 4.81 | 7.36 | 21.66 | 10.05 | 8.75 |
| 15 | 12.68 | 6.34 | 5.13 | 4.62 | 4.25 | 3.56 | 2.82 | 3.80 | 6.47 | 16.33 | 10.62 | 9.89 |
| 20 | 10.72 | 6.21 | 4.82 | 4.27 | 4.29 | 3.31 | 2.82 | 4.46 | 6.88 | 23.14 | 8.81 | 12.35 |
| 25 | 8.58 | 5.82 | 5.04 | 4.41 | 4.20 | 3.15 | 2.58 | 6.91 | 8.00 | 19.64 | 9.30 | 12.71 |
| EOM | 7.64 | 5.61 | 4.83 | 4.40 | 4.11 | 3.14 | 2.61 | 11.65 | 21.14 | 12.21 | 9.53 | 12.78 |
| MIN | 21.31 | 7.73 | 5.71 | 5.13 | 4.54 | 4.32 | 3.28 | 14.29 | 24.33 | 31.32 | 12.19 | 17.30 |
| MAX | 7.64 | 5.49 | 4.82 | 4.12 | 4.07 | 2.93 | 2.53 | 2.43 | 6.31 | 12.21 | 8.76 | 8.75 |

WTR YR 1979 HIGH 2.43 MAY 3 LOW 31.32 JUL 7

JASPER COUNTY

410809087580801. Local number, JP 7.

LOCATION (revised).--Lat 41°08'10", long 86°58'08", SE¼SE¼NE¼ sec.15, T.31 N., R.5 W., Jasper County, Hydrologic Unit 07120002, in northwest corner of intersection of County Roads 850N and 400E and 4.0 mi (6.4 km) south of Tefft.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Devonian Dolomite.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (152 mm), depth 130 ft (39.6 m), cased to 94 ft (29 m), open end.

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 698 ft (213 m) from topographic map. Measuring point: Top of floor of shelter 2.75 ft (0.84 m) above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--May 1967 to current year. (Semi-annual tape-down readings only September 1971 to May 1978).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.42 ft (1.96 m) below land-surface datum, May 13, 1978; lowest, 9.25 ft (2.82 m) below land-surface datum, Oct. 11, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------------|------|-------------|------|------|------|------|------|------|------|------|
| 5 | 8.06 | 8.30 | 8.04 | 8.29 | 8.09 | 7.85 | --- | 7.06 | 6.99 | 7.44 | 7.58 | 7.56 |
| 10 | 8.32 | 8.37 | 8.42 | 8.22 | 8.12 | 7.79 | --- | 7.01 | 7.05 | 7.29 | 7.48 | 7.85 |
| 15 | 8.14 | 8.57 | 8.10 | 8.00 | 7.76 | 8.00 | --- | 7.18 | 7.23 | 7.37 | 7.76 | 8.04 |
| 20 | 8.29 | 8.72 | 7.69 | 7.50 | 7.90 | 7.59 | --- | 7.07 | 7.09 | 7.59 | 7.48 | 7.92 |
| 25 | 8.08 | 8.41 | 8.01 | 7.76 | 7.85 | 7.25 | 6.99 | 7.07 | 7.39 | 7.40 | 7.53 | 8.16 |
| EOM | 8.53 | 8.34 | 7.92 | 7.84 | 7.78 | 7.53 | 7.13 | 7.16 | 7.10 | 7.48 | 7.59 | 8.08 |
| MIN | 8.71 | 8.82 | 8.59 | 8.50 | 8.46 | 8.15 | 7.69 | 7.45 | 7.56 | 7.74 | 7.91 | 8.27 |
| MAX | 8.06 | 8.02 | 7.69 | 7.36 | 7.69 | 6.93 | 6.93 | 6.92 | 6.99 | 7.16 | 7.34 | 7.46 |
| WTR YR 1979 | HIGH | 6.92 MAY 7 | LOW | 8.82 NOV 20 | | | | | | | | |

JASPER COUNTY

410535087035801. Local number, JP 8.

LOCATION.--Lat 41°05'35", long 87°03'58", NE¼NE¼SE¼ sec.35, T.31 N., R.6 W., Jasper County, Hydrologic Unit 07120002, 1.7 miles (2.7 km) north of Gifford.

Owner: William Gehring, Inc.

AQUIFER.--Silurian Limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 12 in (305 mm), depth 310 ft (94.5 m). Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 686 ft (209 m). Measuring point: Lower lip of 2 in (50.8 mm) tapedown pipe, 2.10 ft (0.64 m) above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--May 1978 to current year. Record prior to Oct. 1, 1978 available in District files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.57 ft (2.92 m) below land-surface datum, May 7, 1979; lowest, 23.61 ft (7.20 m) below land-surface datum, July 24, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|------------|-------|--------------|-----|-----|-------|-------|-----|-------|-------|-------|
| 5 | 12.85 | 12.42 | 12.00 | 11.82 | | | 10.24 | 9.62 | | --- | 15.12 | 15.88 |
| 10 | 12.96 | 12.36 | 12.07 | --- | | | 10.25 | 9.76 | | --- | 15.65 | 13.14 |
| 15 | 12.92 | 12.38 | 11.97 | --- | | | 9.99 | 9.83 | | --- | 14.73 | 15.16 |
| 20 | 12.88 | 12.36 | 11.87 | --- | | | 10.06 | 10.01 | | 17.65 | 13.95 | 13.89 |
| 25 | 12.64 | 12.21 | 11.94 | --- | | | 9.93 | --- | | 18.36 | 14.56 | 13.34 |
| EOM | 12.60 | 12.17 | 11.77 | --- | | | 9.79 | --- | | 16.39 | 14.75 | 13.12 |
| MIN | 13.03 | 12.63 | 12.19 | 11.87 | | | 10.42 | 12.17 | | 23.61 | 20.17 | 19.90 |
| MAX | 12.60 | 12.09 | 11.77 | 11.73 | | | 9.79 | 9.57 | | 16.02 | 13.75 | 12.86 |
| WTR YR 1979 | HIGH | 9.57 MAY 7 | LOW | 23.61 JUL 24 | | | | | | | | |

GROUND-WATER LEVELS

JASPER COUNTY

410713087063201. Local number, JP 9.

LOCATION.--Lat 41°07'13", long 87°06'52", NE¼SW¼SE¼ sec.21, T.31 N., R.6 W., Jasper County, Hydrologic Unit 07120002, 4.4 miles (7.1 km) northwest of Gifford.
Owner: William Gehring, Inc.

AQUIFER.--Silurian Limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 18 in (457 mm), depth 260 ft (79 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 685 ft (209 m). Measuring point: Lower lip of 2 in (50.8 mm) tapedown pipe, 2.10 ft (0.64 m) above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--July 1978 to current year. Record prior to Oct. 1, 1978 available in District files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.19 ft (1.58 m) below land-surface datum, May 1, 2, 1979; lowest, 30.23 ft (9.21 m) below land-surface datum, July 21, 22, 24, 25, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|---------------|------|------|------|--------------------------|------|------|-------|-------|-------|-----|
| 5 | 8.30 | 8.18 | 7.89 | 7.74 | 7.47 | 6.80 | 5.74 | 5.74 | 6.72 | 14.56 | 12.98 | |
| 10 | 8.38 | 8.18 | 8.00 | 7.78 | 7.56 | 6.41 | 5.70 | 5.78 | --- | 19.70 | 10.93 | |
| 15 | 8.26 | 8.29 | 8.23 | 7.61 | 7.63 | 6.02 | 5.62 | 6.45 | 6.69 | 20.92 | 9.89 | |
| 20 | 8.27 | 8.32 | 8.18 | 7.26 | 7.56 | 5.95 | 5.59 | 6.74 | 7.09 | 29.70 | 9.79 | |
| 25 | 8.14 | 8.13 | 8.09 | 7.37 | 7.45 | --- | 5.37 | 6.62 | 7.11 | 28.34 | 8.84 | |
| EOM | 8.35 | 8.01 | 7.89 | 7.54 | 7.19 | --- | 5.26 | 6.72 | 17.50 | 16.13 | --- | |
| MIN | 8.51 | 8.39 | 9.61 | 8.03 | 7.80 | 7.24 | 5.95 | 6.82 | 18.24 | 30.23 | 16.10 | |
| MAX | 8.14 | 7.98 | 7.89 | 7.26 | 7.16 | 5.78 | 5.23 | 5.19 | 6.66 | 14.16 | 8.33 | |
| WTR YR 1979 | HIGH | 5.19 MAY 1, 2 | | | LOW | 30.23 JUL 21, 22, 24, 25 | | | | | | |

JENNINGS COUNTY

385557085431701. Local number, JN 2.

LOCATION.--Lat 38°55'57", long 85°43'17", in NE¼NE¼SE¼ sec.27, T.6 N., R.7 E., Jennings County, Hydrologic Unit 05120207, on property of Melvin Gerringe Farm, 3.5 mi (5.6 km) south of Hayden.
Owner: U.S. Geological Survey.

AQUIFER.--Silurian and Devonian Carbonates.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 7 in (178 mm), depth 249 ft (79.5 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 579 ft (176 m) from topographic map. Measuring point: Top of floor of shelter 5.00 ft (1.52 m) above land-surface datum.

PERIOD OF RECORD.--December 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.02 ft (1.53 m) below land-surface datum, Feb. 26, 1979; lowest, 12.51 ft (3.81 m) below land-surface datum, Feb. 22, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-------------|------|------|-------------|------|------|------|------|------|------|------|
| 5 | 8.38 | 7.82 | 5.70 | 6.52 | 7.37 | 5.95 | 6.07 | 7.13 | 8.46 | 8.98 | 6.66 | 7.57 |
| 10 | 8.85 | 7.96 | 5.63 | 6.82 | 7.62 | 6.72 | 6.83 | 7.41 | 8.19 | 8.98 | 7.22 | 8.02 |
| 15 | 6.74 | 8.03 | 6.34 | 7.07 | 7.45 | 7.20 | 6.22 | 7.70 | 8.68 | 8.76 | 7.50 | 7.92 |
| 20 | 7.20 | 6.85 | 6.41 | 6.43 | 7.54 | 7.52 | 6.95 | 8.18 | 9.37 | 9.01 | 7.62 | 7.91 |
| 25 | 7.49 | 7.01 | 6.55 | 6.12 | 5.09 | 7.31 | 7.17 | 8.45 | 8.98 | 8.17 | 7.44 | 7.62 |
| EOM | 7.88 | 6.70 | 6.38 | 6.79 | 5.89 | 7.69 | 7.43 | 8.24 | 8.85 | 6.78 | --- | 7.71 |
| MIN | 9.29 | 8.41 | 7.17 | 7.20 | 8.05 | 7.95 | 7.75 | 8.74 | 9.69 | 9.59 | 7.89 | 8.19 |
| MAX | 6.74 | 6.54 | 5.23 | 5.31 | 5.02 | 5.91 | 6.06 | 6.99 | 8.19 | 6.29 | 5.45 | 7.56 |
| WTR YR 1979 | HIGH | 5.02 FEB 26 | | LOW | 9.69 JUN 20 | | | | | | | |

JENNINGS COUNTY

385601085365701. Local number, JN 3.

LOCATION.--Lat 38°56'01", long 85°36'57", in SE¼SW¼NE¼ sec.27, T.6 N., R.8 E., Jennings County, Hydrologic Unit 05120207, 200 ft (61 m) west of State Highway 3, 1.6 mi (2.6 km) south of Crosley Fish and Game Office and 3.0 mi (4.8 km) south of Vernon.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (152 mm), depth 180 ft (54.9 m), cased to 45 ft (13.7 m) open hole 135 ft (41.1 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 718 ft (219 m). Measuring point: Top of floor of shelter 3.5 ft (1.07 m) above land-surface datum.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.64 ft (11.17 m) below land-surface datum, Jan. 21, 1979; lowest, 38.79 ft (11.82 m) below land-surface datum, June 25 and July 23, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 37.22 | 37.14 | 36.81 | 37.04 | 37.38 | 37.09 | 37.29 | 37.54 | 38.06 | 38.66 | 38.03 | 38.10 |
| 10 | 37.42 | 37.22 | 36.97 | 37.12 | 37.52 | 37.30 | 37.49 | 37.66 | 38.18 | 38.56 | 38.22 | 38.42 |
| 15 | 36.87 | 37.31 | 36.92 | 37.26 | 37.26 | 37.63 | 37.36 | 37.84 | 38.45 | 38.49 | 38.41 | 38.43 |
| 20 | 37.02 | 37.15 | 36.77 | 36.67 | 37.30 | 37.59 | 37.54 | 37.89 | 38.53 | 38.65 | 38.39 | 38.38 |
| 25 | 36.97 | 37.06 | 36.98 | 36.94 | 36.86 | 37.49 | 37.59 | 38.06 | 38.72 | 38.45 | 37.97 | 38.25 |
| EOM | 37.22 | 36.96 | 36.98 | 37.14 | 37.01 | 37.78 | 37.80 | 38.03 | 38.49 | 38.02 | 37.99 | 38.18 |
| MIN | 37.54 | 37.47 | 37.45 | 37.39 | 37.66 | 37.90 | 37.84 | 38.19 | 38.79 | 38.79 | 38.52 | 38.50 |
| MAX | 36.87 | 36.79 | 36.76 | 36.64 | 36.86 | 36.92 | 37.21 | 37.52 | 38.06 | 37.95 | 37.79 | 37.97 |

WTR YR 1979 HIGH 36.64 JAN 21 LOW 38.79 JUNE 25, JUL 23

KNOX COUNTY

383247087361001. Local number, KN 7.

LOCATION.--Lat 38°32'47", long 87°36'10", in SE¼SE¼NW¼ sec.2, T.1 N., R.11 W., Knox County, Hydrologic Unit 05120113, in the right of way of Sixth Street Road, 9.8 mi (15.8 km) south of Vincennes.
Owner: Michael J. Kelley.

AQUIFER.--Sand and Gravel Quaternary Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 43 ft (13 m), cased to 16 ft (4.9 m), slotted to 19 ft (5.8 m), open end.
Instrumentation: Water-stage recorder. Prior to April 1968, handtaped monthly.

DATUM.--Altitude of land-surface datum is 405 ft (123 m). Measuring point: Top of floor of shelter 2.42 ft (0.74 m) above land-surface datum.

PERIOD OF RECORD.--November 1956 to December 1972. January 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.27 ft (1.00 m) below land-surface datum, Jan. 30, 1969; lowest, 11.35 ft (3.46 m) below land-surface datum, Feb. 1-13, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|------|------|------|------|------|------|-------|------|-------|
| 5 | 10.87 | 11.02 | 10.54 | 8.20 | 9.59 | 3.95 | 6.49 | 7.70 | 9.23 | 10.11 | 8.45 | 9.08 |
| 10 | 10.90 | 11.03 | 9.79 | 9.19 | 9.80 | 5.05 | 7.36 | 8.09 | 8.76 | 10.21 | 9.10 | 9.48 |
| 15 | 10.92 | 11.05 | 9.84 | 9.60 | 9.92 | 6.27 | 6.74 | 8.41 | 9.23 | 9.81 | 9.34 | 9.74 |
| 20 | 10.95 | 10.87 | 9.99 | 9.51 | 9.94 | 7.73 | 7.78 | 8.48 | 9.53 | 9.90 | 9.54 | 9.90 |
| 25 | 10.97 | 10.94 | 10.04 | 8.34 | 6.22 | 7.30 | 8.08 | 8.77 | 9.78 | 9.77 | 8.58 | 10.04 |
| EOM | 11.00 | 10.73 | 9.07 | 9.20 | 6.60 | 7.41 | 8.26 | 9.03 | 9.94 | 7.41 | 8.41 | 10.13 |
| MIN | 11.01 | 11.05 | 10.76 | 9.69 | 9.97 | 8.29 | 8.33 | 9.09 | 9.98 | 10.26 | 9.69 | 10.19 |
| MAX | 10.85 | 10.73 | 9.07 | 8.15 | 6.21 | 3.91 | 5.97 | 7.70 | 8.76 | 6.04 | 7.72 | 8.58 |

WTR YR 1979 HIGH 3.91 MAR 4 LOW 11.05 NOV 12 AND OTHERS

GROUND-WATER LEVELS

KOSCIUSKO COUNTY

411839085451601. Local number, KO 4.

LOCATION.--Lat 41°18'39", long 85°45'16", in NE¼SW¼SE¼ sec.18, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106, on the county right of way of Armstrong Road, 2.0 mi (3.2 km) east of Oswego.
 Owner: State of Indiana.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 22 ft (6.7 m), cased to 20 ft (6.1 m), screened to 22 ft (6.7 m).
 Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 852 ft (260 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.91 ft (3.02 m) below land-surface datum, Apr. 12, 13, 1978; lowest, 12.94 ft (3.94 m) below land-surface datum, Oct. 29-31, 1976.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 12.62 | 12.77 | 12.42 | 12.55 | 12.66 | 12.14 | 11.20 | 11.30 | 11.84 | 12.10 | 12.02 | 12.05 |
| 10 | 12.65 | 12.77 | 12.42 | 12.55 | 12.69 | 11.88 | 11.08 | 11.32 | 11.89 | 12.12 | 11.96 | 12.08 |
| 15 | 12.67 | 12.72 | 12.56 | 12.55 | 12.71 | 11.72 | --- | 11.37 | 11.96 | 12.12 | 11.96 | 12.11 |
| 20 | 12.67 | 12.65 | 12.63 | 12.56 | 12.75 | 11.33 | --- | 11.49 | 12.02 | 12.17 | 11.96 | 12.17 |
| 25 | 12.72 | 12.59 | 12.67 | 12.57 | 12.56 | 11.31 | 11.26 | 11.64 | 12.07 | 12.16 | 11.96 | 12.21 |
| EOM | 12.76 | 12.51 | 12.67 | 12.62 | 12.53 | 11.29 | 11.28 | 11.73 | 12.07 | 12.14 | 12.00 | 12.26 |
| MIN | 12.76 | 12.77 | 12.71 | 12.66 | 12.76 | 12.53 | 11.29 | 11.74 | 12.09 | 12.18 | 12.14 | 12.26 |
| MAX | 12.59 | 12.51 | 12.41 | 12.55 | 12.53 | 11.29 | 11.05 | 11.30 | 11.74 | 12.07 | 11.96 | 12.00 |

WTR YR 1979 HIGH 11.05 APR 13, 14 LOW 12.77 NOV 2 AND OTHERS

KOSCIUSKO COUNTY

412500085384501. Local number, KO 5.

LOCATION.--Lat 41°25'00", long 85°38'45", in SE¼SW¼NW¼ sec.11, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001, in the southeast corner of Wawasee Airport, 3.5 mi (5.6 km) east of Syracuse.
 Owner: State of Indiana.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 13 ft (4 m), cased to 11 ft (3.4 m), screened to 13 ft (4 m).
 Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 870 ft (265 m). Measuring point: Top of floor of shelter 2.70 ft (0.82 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.06 ft (0.63 m) below land-surface datum, Apr. 6, 7, 1978; lowest, 6.09 ft (1.86 m) below land-surface datum, Nov. 12, 13, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 5.78 | 6.05 | 5.92 | 5.53 | 5.91 | 4.10 | 3.52 | 3.29 | 3.92 | 4.70 | 5.20 | 5.49 |
| 10 | 5.84 | 6.08 | 5.86 | 5.55 | 5.96 | 3.90 | 3.32 | 3.39 | 4.12 | 4.80 | 5.10 | 5.61 |
| 15 | 5.88 | 6.05 | 5.87 | 5.63 | 6.01 | 3.93 | 3.30 | 3.48 | 4.29 | 4.90 | 5.13 | 5.70 |
| 20 | 5.92 | 6.04 | 5.93 | 5.71 | 6.08 | 3.99 | 3.46 | 3.55 | 4.44 | 5.08 | 5.23 | 5.84 |
| 25 | 5.96 | 6.05 | 6.00 | 5.76 | 5.67 | 3.92 | 3.41 | 3.68 | 4.56 | 5.20 | 5.25 | 5.95 |
| EOM | 6.00 | 6.08 | 5.71 | 5.83 | 5.65 | 3.51 | 3.35 | 3.82 | 4.60 | 5.31 | 5.38 | 6.03 |
| MIN | 6.02 | 6.09 | 6.08 | 5.88 | 6.08 | 5.65 | 3.56 | 3.82 | 4.68 | 5.32 | 5.40 | 6.03 |
| MAX | 5.72 | 6.00 | 5.71 | 5.53 | 5.65 | 3.51 | 3.27 | 3.29 | 3.82 | 4.60 | 5.08 | 5.40 |

WTR YR 1979 HIGH 3.27 APR 12 AND OTHERS LOW 6.09 NOV 12 AND OTHERS

412554085450001. Local number, KO 6.

LOCATION.--Lat 41°25'54", long 85°45'00", in NW¼SW¼NW¼ sec.5, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001, west end of North Shore Drive and Lakeview Park in Syracuse, Indiana.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in (51 mm), depth 23 ft (7 m), cased to 20 ft (6.1 m), screened to 23 ft (7 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 870 ft (265 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.32 ft (2.84 m) below land-surface datum, May 12, 1979;
lowest, 10.64 ft (3.24 m) below land-surface datum, Feb. 9, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-------|-------------------|-------|-------|-------|-------|-------|------|------|------|-------|
| 5 | | --- | 10.62 | --- | 10.61 | --- | 9.81 | 9.41 | 9.40 | 9.67 | 9.78 | 9.80 |
| 10 | | 10.54 | 10.50 | --- | --- | --- | 9.74 | 9.36 | 9.45 | 9.65 | 9.77 | 9.89 |
| 15 | | 10.58 | 10.52 | --- | --- | 10.10 | 9.57 | 9.32 | 9.56 | 9.65 | 9.69 | 9.94 |
| 20 | | 10.59 | 10.52 | --- | --- | 10.10 | 9.57 | 9.32 | 9.60 | 9.69 | 9.70 | 9.97 |
| 25 | | 10.59 | 10.52 | --- | --- | 10.04 | 9.52 | 9.32 | 9.69 | 9.84 | 9.69 | 9.98 |
| EOM | | 10.61 | 10.51 | 10.56 | --- | 9.94 | 9.51 | 9.35 | 9.62 | 9.86 | 9.75 | 9.96 |
| MIN | | 10.62 | 10.62 | 10.56 | 10.64 | 10.14 | 9.94 | 9.51 | 9.75 | 9.95 | 9.86 | 10.02 |
| MAX | | 10.51 | 10.50 | 10.51 | 10.56 | 9.94 | 9.50 | 9.32 | 9.35 | 9.61 | 9.66 | 9.75 |
| WTR YR 1979 | HIGH | 9.32 | MAY 12 AND OTHERS | | | LOW | 10.64 | FEB 9 | | | | |

KOSCIUSKO COUNTY

412510085442801. Local number, KO 7.

LOCATION.--Lat 41°25'10", long 85°44'28", in SE¼NW¼ sec.8, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001, 20 ft (6.1 m) north of the intersection of Chicago Avenue and County Road 530 East in Syracuse.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in (51 mm), depth 23.8 ft (7.2 m), cased to 20.8 ft (6.3 m), screened to 23.8 ft (7.2 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 870 ft (265 m). Measuring point: Top of floor of shelter 4.90 ft (1.49 m) above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.50 ft (1.07 m) below land-surface datum, Apr. 13, 1979; lowest, 5.43 ft (1.66 m) below land-surface datum, Nov. 11-13, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|--------|------|------|-----------|------------|------|------|------|------|------|
| 5 | | 5.40 | 4.99 | 4.63 | 5.02 | 3.54 | 3.84 | 3.87 | 4.82 | 4.88 | 4.53 | 4.82 |
| 10 | | 5.42 | 4.90 | 4.78 | 5.06 | 3.74 | 3.65 | 4.15 | 4.92 | 4.81 | 4.35 | 4.94 |
| 15 | | 5.29 | 4.98 | 4.89 | 5.06 | 3.95 | 3.60 | 4.24 | 4.99 | 4.88 | 4.53 | 5.02 |
| 20 | | 5.25 | 5.07 | 4.91 | 5.12 | 4.13 | 4.03 | 4.38 | 4.97 | 5.06 | 4.51 | 5.13 |
| 25 | | 5.22 | 5.12 | 4.94 | 4.53 | 4.12 | 4.11 | 4.55 | 5.09 | 4.88 | 4.53 | 5.20 |
| EOM | | 5.22 | 4.52 | 4.96 | 4.63 | 3.67 | 4.06 | 4.72 | 4.83 | 4.90 | 4.73 | 5.25 |
| MIN | | 5.43 | 5.22 | 4.99 | 5.12 | 4.63 | 4.21 | 4.72 | 5.14 | 5.14 | 4.92 | 5.27 |
| MAX | | 5.22 | 4.52 | 4.51 | 4.53 | 3.54 | 3.50 | 3.87 | 4.82 | 4.81 | 4.35 | 4.76 |
| WTR YR 1979 | HIGH | 3.50 | APR 13 | LOW | 5.43 | NOV 11-13 | AND OTHERS | | | | | |

GROUND-WATER LEVELS

KOSCIUSKO COUNTY

412404085442501. Local number, KO 8.

LOCATION.--Lat 41°24'04", long 85°44'25", in SE¼SE¼NW¼ sec.12, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001, 0.5 mi (0.8 km) south of County Road 1200 North on west side of State Highway 13.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in (51 mm), depth 27.8 ft (8.2 m), cased to 24 ft (7.3 m), screened to 27 ft (8.2 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 863 ft (263 m). Measuring point: Top of floor of shelter 2.80 ft (0.85 m) above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.74 ft (1.14 m) below land-surface datum, Mar. 4, 1979;
lowest, 5.80 ft (1.77 m) below land-surface datum, Jul. 24, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-------|------|------|------|------|---------|------|------|------|------|
| 5 | | | 5.06 | --- | 5.15 | 3.74 | 4.20 | 4.15 | 5.21 | 5.37 | 5.29 | 5.06 |
| 10 | | | 4.93 | --- | 5.22 | 4.30 | --- | 4.51 | 5.07 | 5.33 | 5.06 | 5.09 |
| 15 | | | 5.05 | --- | 5.18 | 4.38 | --- | 4.52 | 5.20 | 5.43 | 5.10 | 5.10 |
| 20 | | | 5.11 | --- | 5.22 | 4.51 | --- | 4.73 | 5.21 | 5.63 | 5.02 | 5.14 |
| 25 | | | --- | --- | 4.64 | 4.50 | 4.37 | 4.85 | 5.39 | 5.57 | 5.08 | 5.15 |
| EOM | | | --- | 5.11 | 4.76 | 4.12 | 4.26 | 5.05 | 5.25 | 5.57 | 5.02 | 5.17 |
| MIN | | | 5.14 | 5.12 | 5.23 | 4.76 | 4.45 | 5.08 | 5.52 | 5.80 | 5.57 | 5.17 |
| MAX | | | 4.92 | 5.11 | 4.64 | 3.74 | 4.12 | 4.14 | 5.00 | 5.23 | 5.01 | 5.03 |
| WTR YR 1979 | HIGH | 3.74 | MAR 4 | | | LOW | 5.80 | JULY 24 | | | | |

LAKE COUNTY

411038087284701. Local number, LK 12.

LOCATION.--Lat 41°10'38", long 87°28'47", SW¼NE¼SW¼ sec.32, T.32 N., R.9 W., Lake County, Hydrologic Unit 07120001, on the northern edge of Kankakee River State Park, 2.0 mi (3.2 km) southwest of Schneider.
Owner: U.S. Geological Survey.

AQUIFER.--Dolomite of Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 82 ft (25 m), cased to 52 ft (16 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 629 ft (192 m). Measuring point: Top of floor of shelter 1.55 ft (0.47 m) above land-surface datum.

REMARKS.--Water level may be affected by pumping.

PERIOD OF RECORD.--March 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.15 ft (0.05 m) below land-surface datum, Jan. 12, 1973;
lowest, 14.35 ft (4.37 m) below land-surface datum, Sept. 9, 1974.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-------|------|-------|--------|------|------|------|------|-------|------|
| 5 | 6.97 | 5.37 | 4.38 | 3.56 | 3.59 | 2.83 | 1.66 | 1.48 | 2.53 | 2.94 | 9.01 | 7.96 |
| 10 | 6.65 | 5.21 | 4.31 | 3.52 | 3.57 | 2.27 | 1.86 | 1.64 | 2.55 | 3.07 | 9.66 | 7.98 |
| 15 | 6.31 | 5.09 | 4.17 | 3.47 | 3.48 | 1.95 | 1.69 | 1.89 | 2.65 | 3.17 | 9.92 | 7.47 |
| 20 | 6.07 | 4.92 | 4.05 | 3.39 | 3.65 | 1.77 | 1.83 | 2.05 | 2.68 | 4.54 | 9.58 | 7.04 |
| 25 | 5.78 | 4.76 | 4.05 | 3.51 | 3.71 | 1.77 | 1.74 | 2.22 | 2.81 | 6.65 | 8.43 | 6.77 |
| EOM | 5.62 | 4.59 | 3.76 | 3.56 | 3.64 | 1.75 | 1.49 | 2.44 | 2.87 | 8.34 | 8.10 | 6.55 |
| MIN | 7.64 | 5.71 | 4.90 | 3.93 | 4.01 | 3.81 | 2.23 | 2.67 | 3.12 | 8.60 | 10.43 | 8.53 |
| MAX | 5.62 | 4.58 | 3.76 | 3.34 | 3.48 | 1.73 | 1.49 | 1.44 | 2.45 | 2.88 | 8.10 | 6.55 |
| WTR YR 1979 | HIGH | 1.44 | MAY 3 | LOW | 10.43 | AUG 17 | | | | | | |

GROUND-WATER LEVELS

LA PORTE COUNTY

413700086445401. Local number, LP 8.

LOCATION.--Lat 41°37'00", long 86°44'54", NE¼SE¼NW¼ sec.34, T.37 N., R.3 W., La Porte County, Hydrologic Unit 07120001, at the west end of Soldiers Memorial Park in La Porte.
Owner: State of Indiana.

AQUIFER.--Sand and Gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 22 ft (6.7 m), cased to 20 ft (6.1 m), screened to 22 ft (6.7 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 807 ft (246 m). Measuring point: Top of floor of shelter 2.60 ft (0.79 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.15 ft (1.26 m) below land-surface datum May 27, 29, 1976;
lowest, 7.04 ft (2.15 m) below land-surface datum, Mar. 8-11, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 6.24 | 6.37 | 6.33 | 6.31 | 6.26 | 5.73 | 5.18 | 4.81 | 4.90 | 5.31 | 5.60 | 5.49 |
| 10 | 6.29 | 6.40 | 6.34 | 6.34 | 6.34 | 5.75 | 5.19 | 4.83 | 4.84 | 5.35 | 5.48 | 5.60 |
| 15 | 6.25 | 6.45 | 6.34 | 6.29 | 6.27 | 5.73 | 5.07 | 4.77 | 4.95 | 5.44 | 5.49 | 5.73 |
| 20 | 6.30 | 6.51 | 6.27 | 6.18 | 6.29 | --- | 5.11 | 4.79 | 5.00 | 5.57 | 5.46 | 5.81 |
| 25 | 6.28 | 6.44 | 6.37 | 6.19 | 6.24 | --- | 5.00 | 4.73 | 5.09 | 5.62 | 5.47 | 5.89 |
| EOM | 6.36 | 6.44 | 6.21 | 6.24 | 6.23 | --- | 4.87 | 4.86 | 5.18 | 5.64 | 5.48 | 5.94 |
| MIN | 6.37 | 6.51 | 6.49 | 6.37 | 6.39 | 6.24 | 5.28 | 4.90 | 5.21 | 5.70 | 5.67 | 5.95 |
| MAX | 6.22 | 6.29 | 6.21 | 6.16 | 6.23 | 5.73 | 4.87 | 4.72 | 4.84 | 5.19 | 5.45 | 5.47 |

WTR YR 1979 HIGH 4.72 MAY 22-24 LOW 6.51 NOV 19, 20

LA PORTE COUNTY

412350086512801. Local number, LP 9.

LOCATION.--Lat 41°23'50", long 86°51'28", SE¼SW¼NE¼ sec.15, T.34 N., R.4 W., La Porte County, Hydrologic Unit 07120001, at the intersection of County Roads 1450 South and 825 West, 3.0 mi (4.8 km) southeast of Wanatah.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 32 ft (9.8 m), cased to 27 ft (8.2 m), screened to 32 ft (9.8 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 708 ft (216 m). Measuring point: Top of floor of shelter 1.60 ft (0.49 m) above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.22 ft (0.68 m) below land-surface datum, June 30, 1976;
lowest, 7.98 ft (2.43 m) below land-surface datum, Dec. 1, 2, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 7.68 | 7.88 | 7.83 | 6.98 | 7.52 | 5.54 | 3.83 | 3.56 | 5.14 | 5.41 | 5.95 | 6.43 |
| 10 | 7.73 | 7.91 | 7.70 | 7.10 | 7.60 | 5.42 | 4.17 | 3.95 | 3.68 | 5.60 | 6.15 | 6.54 |
| 15 | 7.77 | 7.92 | 7.62 | 7.19 | 7.65 | 5.50 | 3.61 | 4.28 | 4.29 | 5.82 | 6.36 | 6.66 |
| 20 | 7.81 | 7.94 | 7.58 | 7.25 | 7.64 | 5.25 | 4.00 | 4.48 | 4.57 | 6.03 | 6.14 | 6.75 |
| 25 | 7.83 | 7.96 | 7.56 | 7.35 | 7.32 | 5.18 | 4.09 | 4.71 | 4.92 | 5.54 | 6.17 | 6.86 |
| EOM | 7.87 | 7.97 | 7.50 | 7.44 | 7.26 | 4.45 | 3.61 | 5.00 | 5.10 | 5.39 | 6.31 | 6.94 |
| MIN | 7.87 | 7.97 | 7.98 | 7.50 | 7.87 | 7.26 | 4.44 | 5.04 | 5.25 | 6.20 | 6.42 | 6.96 |
| MAX | 7.64 | 7.87 | 7.50 | 6.24 | 7.26 | 4.45 | 3.38 | 3.44 | 2.94 | 5.16 | 5.65 | 6.32 |

WTR YR 1979 HIGH 2.94 JUN 7, 8 LOW 7.98 DEC 1, 2

GROUND-WATER LEVELS

MARION COUNTY

395218086082701. Local number, MA 32.

LOCATION.--Lat 39°52'18", long 86°08'27", in NE¼SW¼SW¼ sec.36, T.17 N., R.3 E., Marion County, Hydrologic Unit 05120201, in Broad Ripple, City of Indianapolis.
 Owner: Indianapolis Water Company.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 10 in (0.25 m), depth 308 ft (94 m), cased to 60 ft (18 m), open end.

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 720 ft (219 m). Measuring point: Top of floor of shelter 3.15 ft (0.86 m) above land-surface datum.

REMARKS.--Water level affected by earthquakes.

PERIOD OF RECORD.--May 1958 to August 1971. January 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.85 ft (1.78 m) below land-surface datum, June 17, 1958; lowest, 15.15 ft (4.62 m) below land-surface datum, Oct. 5, 1965.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | --- | 10.15 | 9.54 | 9.28 | 9.82 | 7.41 | 9.37 | 9.48 | 10.73 | 10.29 | 9.32 | 10.75 |
| 10 | --- | 10.15 | 9.48 | 9.51 | 9.85 | 8.30 | 9.25 | 10.36 | 10.57 | 10.49 | 10.39 | 10.44 |
| 15 | 9.96 | 9.99 | 9.59 | 9.62 | 9.84 | 9.08 | 8.69 | 9.90 | 10.54 | 9.91 | 9.97 | 10.55 |
| 20 | 10.01 | 9.78 | 9.66 | 9.64 | 9.88 | 9.26 | 9.09 | 9.93 | 11.34 | 10.47 | 10.38 | 10.25 |
| 25 | 10.06 | 9.84 | 9.77 | 9.64 | 8.09 | 9.33 | 9.31 | 9.67 | 10.71 | 10.34 | 9.96 | 10.14 |
| EOM | 10.11 | 9.90 | 9.57 | 9.71 | 8.61 | 9.36 | 9.39 | 10.81 | 10.44 | 9.56 | 10.28 | 10.39 |
| MIN | 10.20 | 10.30 | 9.98 | 9.80 | 9.99 | 9.49 | 10.29 | 11.23 | 11.88 | 11.54 | 10.85 | 11.40 |
| MAX | 9.96 | 9.74 | 9.48 | 9.10 | 8.04 | 7.38 | 8.62 | 9.39 | 9.99 | 9.10 | 9.13 | 10.06 |
| WTR YR 1979 | HIGH | 7.38 | MAR 6 | LOW | 11.88 | JUN 28 | | | | | | |

MARION COUNTY

395259086030101. Local number, MA 33.

LOCATION.--Lat 39°52'59", long 86°03'01", in NW¼NW¼NW¼ sec. 35, T.17 N., R.4 E., Marion County, Hydrologic Unit 05120201, in the northwest corner of Skiles Test Elementary School property, 150 ft (45.7 m) south of the intersection of Johnson Road and East 71st Street, and 3 mi (4.8 km) west of Shadeland Avenue and 1¼ mi (2.4 km) south of Castleton, Indiana.
 Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel. Till.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (152 mm), depth 94 ft (28.7 m).
 Instrumentation: Analog to digital recorder.

DATUM.--Altitude of land-surface datum is 810 ft (247 m). Measuring point: Top of floor of shelter 3.90 ft (1.18 m) above land-surface datum.

PERIOD OF RECORD.--May 12, 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 71.77 ft (21.88 m) below land-surface datum, Mar. 24, 1979; lowest, 73.66 ft (22.45 m) below land-surface datum, Oct. 8, 9, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
| 5 | 73.16 | --- | 72.75 | 73.34 | | --- | 72.38 | 72.27 | 72.40 | 72.83 | 72.57 | 72.52 |
| 10 | 73.49 | 73.12 | 73.25 | 73.03 | | --- | 72.27 | 72.24 | 72.63 | 72.76 | 72.33 | 72.79 |
| 15 | --- | 73.39 | 72.96 | 72.85 | | 72.70 | 72.28 | 72.43 | 72.83 | 72.72 | 72.65 | 72.71 |
| 20 | --- | 73.58 | 72.38 | --- | | 72.57 | 72.43 | 72.27 | 72.74 | 72.96 | 72.52 | 72.74 |
| 25 | --- | 73.09 | 72.65 | --- | | 71.87 | 72.02 | 72.30 | 72.93 | 72.74 | 72.45 | 72.98 |
| EOM | --- | 72.93 | 72.91 | --- | | 72.59 | 72.22 | 72.47 | 72.52 | 72.64 | 72.62 | 72.80 |
| MIN | 73.66 | 73.64 | 73.48 | 73.52 | | 73.05 | 72.85 | 72.77 | 72.95 | 73.17 | 72.84 | 73.03 |
| MAX | 73.14 | 72.69 | 72.38 | 72.15 | | 71.77 | 71.88 | 72.11 | 72.39 | 72.53 | 72.32 | 72.47 |
| WTR YR 1979 | HIGH | 71.77 | MAR 24 | LOW | 73.66 | OCT 8, 9 | | | | | | |

MARTIN COUNTY

383659086545901. Local number, MT 5.

LOCATION.--Lat 38°36'59", long 86°54'59", in SE¼NE¼SW¼ sec.12, T.2 N., R.5 W., Martin County, Hydrologic Unit 05120208, on private property 0.25 mi (0.4 km) southwest of Whitefield.
Owner: Joseph Arvin.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 143 ft (44 m), cased to 53 ft (16 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 565 ft (172 m). Measuring point: Top of floor of shelter 1.0 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.12 ft (7.66 m) below land-surface datum, Sept. 14, 1979; lowest, 34.10 ft (10.39 m) below land-surface datum, Jan. 1, 5, 22, 23, 1960, and Dec. 18, 19, 1964.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 26.88 | 27.40 | 27.35 | 27.91 | 27.31 | 26.77 | 26.24 | 25.86 | 25.45 | 25.71 | 25.77 | 25.34 |
| 10 | 27.16 | 27.46 | 27.93 | 27.86 | 27.38 | 26.73 | 26.25 | 25.74 | 25.60 | 25.57 | 25.52 | 25.54 |
| 15 | 27.08 | 27.75 | 27.67 | 27.64 | 26.63 | 26.97 | 26.17 | 25.89 | 25.80 | 25.61 | 25.84 | 25.63 |
| 20 | 27.26 | 28.07 | 26.95 | 26.52 | 26.91 | 26.60 | 26.20 | 25.68 | 25.65 | 25.78 | 25.54 | 25.42 |
| 25 | 27.03 | 27.76 | --- | 26.99 | 26.54 | 26.00 | 25.78 | 25.63 | 25.90 | 25.56 | 25.54 | 25.66 |
| EOM | 27.61 | 27.63 | --- | 27.09 | 26.65 | 26.43 | 25.97 | 25.59 | 25.40 | 25.57 | 25.52 | 25.42 |
| MIN | 27.72 | 28.15 | 28.13 | 28.18 | 27.60 | 27.21 | 26.76 | 26.25 | 26.00 | 26.00 | 25.96 | 25.80 |
| MAX | 26.88 | 27.25 | 26.95 | 26.36 | 26.54 | 25.70 | 25.66 | 25.38 | 25.40 | 25.39 | 25.37 | 25.12 |
| WTR YR 1979 | HIGH | 25.12 | SEP 14 | LOW | 28.18 | JAN 4 | | | | | | |

MONTGOMERY COUNTY

400247086482101. Local number, MY 7.

LOCATION.--Lat 40°02'47", long 86°48'21", in NE¼NW¼SW¼ sec.31, T.19 N., R.3 W., Montgomery County, Hydrologic Unit 05120110, on the county right of way at the intersection of State Highway 32 and County Road 525 East, about 4.5 mi (7.2 km) east of Crawfordsville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 111 ft (34.0 m), cased to 107 ft (32.6 m), screened to 109 ft (33.2 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 801 ft (244 m). Measuring point: Top of floor of shelter 2.38 ft (0.73 m) above land-surface datum.

PERIOD OF RECORD.--July 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.10 ft (7.96 m) below land-surface datum, Apr. 13, 1974; lowest, 32.06 ft (9.77 m) below land-surface datum, June 4, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|------------|-------|-------|-------|-------|-------|-------|
| 5 | 30.09 | 30.49 | 30.07 | 29.94 | 29.97 | --- | 28.30 | 27.96 | 28.82 | 29.54 | 29.50 | 28.98 |
| 10 | 30.27 | 30.53 | 30.09 | --- | 30.36 | 28.91 | 28.22 | 28.07 | 29.01 | 29.46 | 29.29 | 28.90 |
| 15 | 30.24 | 30.52 | 29.94 | --- | 30.26 | 28.76 | 28.05 | 28.23 | 29.29 | 29.57 | 29.36 | 28.90 |
| 20 | 30.36 | 30.45 | 29.75 | --- | 30.24 | 28.55 | 27.97 | 28.39 | 29.50 | 30.05 | 29.16 | 28.94 |
| 25 | 30.35 | 30.29 | 29.89 | --- | --- | 28.27 | 27.74 | 28.56 | 29.67 | 29.97 | 29.06 | 29.11 |
| EOM | 30.59 | 30.24 | 29.93 | 29.76 | --- | 28.41 | 27.79 | 28.72 | 29.50 | 29.70 | 29.05 | 29.17 |
| MIN | 30.64 | 30.66 | 30.29 | 30.04 | 30.50 | 29.03 | 28.48 | 28.75 | 29.75 | 30.20 | 29.71 | 29.20 |
| MAX | 30.09 | 30.15 | 29.75 | 29.76 | 29.83 | 28.20 | 27.69 | 27.79 | 28.73 | 29.35 | 28.99 | 28.80 |
| WTR YR 1979 | HIGH | 27.69 | APR 26 | LOW | 30.66 | NOV 12, 13 | | | | | | |

WTR YR 1979 HIGH 7.89 AUG 4, 5 LOW 13.89 NOV 16

WTR YR 1979 HIGH 9.90 APR 14 LOW 15.28 NOV 19

NEWTON COUNTY

405959087282901. Local number, NE 7.

LOCATION.--Lat 40°59'59", long 87°28'29", SE¼SW¼SE¼ sec.32, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120002, in the Willow Slough Game Preserve, 2.0 mi (3.2 km) southwest of Enos.
Owner: State of Indiana.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 150 ft (46 m), cased to 136 ft (41.5 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 681 ft (208 m). Measuring point: Top of floor of shelter 2.03 ft (0.62 m) above land-surface datum.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.77 ft (10.6 m) below land-surface datum, May 2, 1976;
lowest, 68.22 ft (20.79 m) below land-surface datum, Aug. 25, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 42.14 | 40.56 | 39.20 | 38.44 | 38.01 | 37.21 | 36.51 | 35.87 | 36.98 | 37.00 | 43.22 | 39.92 |
| 10 | 41.75 | 40.42 | 39.24 | 38.38 | 37.82 | 37.18 | 36.54 | 35.97 | --- | 36.84 | 42.72 | 39.74 |
| 15 | 41.56 | 40.33 | 38.90 | 38.11 | 37.49 | 37.24 | 36.38 | 35.99 | 37.40 | 36.82 | 42.48 | 39.78 |
| 20 | 41.26 | 40.16 | 38.58 | 37.71 | 37.46 | 37.01 | 36.40 | 35.86 | 37.27 | 37.77 | 41.60 | 39.48 |
| 25 | 40.91 | 39.78 | 38.63 | 37.79 | 37.39 | 36.82 | 36.20 | 35.85 | 37.31 | 40.95 | 41.01 | 39.37 |
| EOM | 40.80 | 39.53 | 38.39 | 37.69 | 37.31 | 36.64 | 36.05 | 36.21 | 36.97 | 43.01 | 40.38 | 39.06 |
| MIN | 42.58 | 40.92 | 39.56 | 38.61 | 38.10 | 37.44 | 36.76 | 36.28 | 37.46 | 43.15 | 43.33 | 40.37 |
| MAX | 40.80 | 39.45 | 38.39 | 37.59 | 37.31 | 36.58 | 35.98 | 35.78 | 36.28 | 36.78 | 40.38 | 39.01 |

WTR YR 1979 HIGH 35.78 MAY 22, 23 LOW 43.33 AUG 4

NEWTON COUNTY

410428087231501. Local number, NE 8.

LOCATION (revised).--Lat 41°04'28", long 87°25'44", NW¼SW¼SW¼ sec.2, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120001, in the Beaver Lake Prairie Chicken Refuge, 3.0 mi (4.8 km) north of Enos.
Owner: State of Indiana.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 150 ft (45.7 m) cased to 97 ft (29.6 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 665 ft (203 m). Measuring point: Top of floor of shelter 2.83 ft (0.86 m) above land-surface datum.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.04 ft (1.23 m) below land-surface datum, May 31, 1976;
lowest, 42.85 ft (13.06 m) below land-surface datum, July 12, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 9.35 | 9.52 | 7.90 | 7.17 | 6.42 | 5.79 | 5.28 | 4.62 | 4.37 | 4.22 | 5.27 | 6.25 |
| 10 | 9.25 | 9.55 | 7.89 | 7.05 | 6.37 | 5.85 | 5.28 | 4.58 | 4.35 | 4.18 | 5.51 | 6.35 |
| 15 | 8.97 | 9.26 | 7.64 | 6.76 | 6.09 | 5.94 | 5.09 | 4.61 | 4.38 | 4.17 | 5.88 | 6.42 |
| 20 | 8.86 | 8.95 | 7.31 | 6.44 | 6.09 | 5.77 | 5.13 | 4.51 | 4.22 | 4.27 | 5.87 | 6.33 |
| 25 | 8.85 | 8.53 | 7.28 | 6.45 | 5.96 | 5.48 | 4.87 | 4.50 | 4.36 | 4.25 | 6.02 | 6.37 |
| EOM | 9.60 | 8.26 | 7.06 | 6.38 | 5.93 | 5.49 | 4.71 | 4.45 | 4.19 | 4.66 | 6.20 | 6.29 |
| MIN | 9.67 | 9.67 | 8.28 | 7.24 | 6.46 | 6.05 | 5.56 | 4.81 | 4.50 | 4.80 | 6.24 | 6.46 |
| MAX | 8.80 | 8.21 | 7.06 | 6.30 | 5.92 | 5.38 | 4.67 | 4.41 | 4.19 | 4.16 | 4.81 | 6.18 |

WTR YR 1979 HIGH 4.16 JUL 4 LOW 9.67 OCT 31, NOV 1, 2

GROUND-WATER LEVELS

NEWTON COUNTY

410428087231502. Local number, NE 10.

LOCATION.--Lat 41°04'28", long 87°25'44", NW¼SW¼SW¼, sec.2, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120001, in the Beaver Lake Prairie Chicken Refuge, 3.0 mi (4.8 km) north of Enos.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in. (50.8 mm), depth 45 ft (14 m), cased to 41 ft (12 m), screened to 44 ft (13 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 665 ft (203 m). Measuring point: Top of floor of shelter 2.65 ft (0.81 m) above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year. Record prior to October 1, 1978 available in District files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.69 ft (0.21 m) below land-surface datum May 3, 4, 1979; lowest, 5.17 ft (1.58 m) below land-surface datum, Feb. 27 to Mar. 4, 1979.

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 3.89 | 4.30 | 4.62 | 4.84 | 4.97 | 3.98 | 2.69 | .70 | 1.53 | 2.48 | 3.42 | 4.06 |
| 10 | 3.96 | 4.36 | 4.66 | 4.86 | 4.98 | 3.32 | --- | .82 | 1.69 | 2.63 | 3.54 | 4.14 |
| 15 | 4.02 | 4.42 | 4.70 | 4.87 | 5.04 | 3.34 | --- | .89 | 1.90 | 2.74 | 3.66 | 4.20 |
| 20 | 4.09 | 4.48 | 4.73 | 4.90 | 5.06 | 3.36 | --- | 1.03 | 2.06 | 3.04 | 3.77 | 4.29 |
| 25 | 4.16 | 4.51 | 4.76 | 4.92 | 5.13 | --- | 1.89 | 1.12 | 2.23 | 3.13 | 3.84 | 4.37 |
| EOM | 4.24 | 4.57 | 4.79 | 4.96 | 5.17 | --- | 1.06 | 1.34 | 2.35 | 3.29 | 3.98 | 4.43 |
| MIN | 4.26 | 4.58 | 4.80 | 4.96 | 5.17 | 5.17 | 2.75 | 1.36 | 2.37 | 3.31 | 4.02 | 4.44 |
| MAX | 3.83 | 4.26 | 4.58 | 4.80 | 4.96 | 3.31 | 1.06 | .69 | 1.35 | 2.37 | 3.31 | 4.01 |

WTR YR 1979 HIGH .69 MAY 3, 4

NOBLE COUNTY

411922085221801. Local number, NO 8.

LOCATION.--Lat 41°19'22", long 85°22'18", in SE¼SW¼SE¼ sec.9, T.33 N., R.10 E., Noble County, Hydrologic Unit 04050001, near the east edge of Chain O' Lakes State Park, about 5.0 mi (8.0 km) south of Albion.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 190 ft (58 m), cased to 146 ft (44.5 m), screened to 148 ft (45.1 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 928 ft (283 m). Measuring point: Top of floor of shelter 2.65 ft (0.81 m) above land-surface datum.

PERIOD OF RECORD.--December 1966 to September 1971. August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.07 ft (8.86 m) below land-surface datum, May 13, 1978; lowest, 32.49 ft (9.90 m) below land-surface datum, Jan. 18, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 30.15 | 30.45 | 30.52 | 30.99 | --- | --- | 30.60 | 30.49 | 30.38 | 30.85 | 30.91 | 30.88 |
| 10 | 30.37 | 30.61 | 30.95 | 31.04 | --- | --- | 30.81 | 30.49 | 30.41 | 30.63 | 30.87 | 30.97 |
| 15 | 30.27 | 30.76 | 30.64 | --- | 31.27 | 30.69 | 30.71 | 30.60 | 30.75 | 30.98 | 31.14 | 31.14 |
| 20 | 30.37 | 30.84 | 30.36 | --- | 30.93 | 30.72 | 30.43 | 30.50 | 30.82 | 30.87 | 30.91 | 30.91 |
| 25 | 30.19 | 30.67 | 30.78 | --- | 30.63 | 30.34 | 30.32 | 30.76 | 30.69 | 30.91 | 31.12 | 31.12 |
| EOM | 30.62 | 30.72 | 30.66 | --- | 30.92 | 30.74 | 30.55 | 30.40 | 30.71 | 30.96 | 30.94 | 30.94 |
| MIN | 30.77 | 30.89 | 31.17 | 31.17 | 31.31 | 31.07 | 30.79 | 30.82 | 30.89 | 31.08 | 31.18 | 31.18 |
| MAX | 30.14 | 30.33 | 30.36 | 30.35 | 30.36 | 30.34 | 30.30 | 30.37 | 30.47 | 30.76 | 30.83 | 30.83 |

WTR YR 1979 HIGH 30.14 OCT 3 LOW 31.31 MAR 15

NOBLE COUNTY

413106085232701. Local number, NO 9.

LOCATION.--Lat 41°31'06", long 85°23'27", in NW¼NE¼SE¼ sec.5, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001, at the intersection of County Roads 175 East and 1150 North about 2.0 mi (3.2 km) west of Wolcottville.

Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 159 ft (48 m), cased to 39 ft (12 m), screened to 42 ft (13 m).

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 930 ft (283 m). Measuring point: Top of floor of shelter 2.60 ft (0.79 m) above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.98 ft (2.74 m) below land-surface datum, Apr. 8, 1978; lowest, 17.55 ft (5.35 m) below land-surface datum, Dec. 27, 28, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 5 | 16.65 | 17.16 | 17.28 | | | | 14.23 | 12.63 | 14.20 | 15.10 | 15.94 | 16.17 |
| 10 | 16.83 | 17.25 | 17.31 | | | | 13.77 | 13.01 | 14.41 | 15.13 | 15.70 | 16.30 |
| 15 | 16.91 | 17.36 | 17.27 | | | | 13.27 | 13.22 | 14.66 | 15.35 | 15.88 | 16.50 |
| 20 | 16.94 | 17.41 | 17.26 | | | | 13.57 | 13.39 | 14.77 | 15.53 | 15.89 | 16.56 |
| 25 | 17.06 | 17.40 | 17.33 | | | | 13.61 | 13.69 | 15.05 | 15.61 | 15.95 | 16.71 |
| EOM | 17.17 | 17.20 | 17.45 | | | | 13.22 | 14.06 | 14.91 | 15.85 | 16.07 | 16.82 |
| MIN | 17.20 | 17.46 | 17.55 | 17.27 | | | 14.45 | 14.08 | 15.06 | 15.86 | 16.07 | 16.82 |
| MAX | 16.59 | 17.15 | 17.24 | 17.01 | | | 13.20 | 12.63 | 14.12 | 14.87 | 15.69 | 16.05 |

WTR YR 1979 HIGH 12.63 MAY 5 AND OTHERS LOW 17.55 DEC 27, 28

NOBLE COUNTY

412948085223401. Local number, NO 10.

LOCATION.--Lat 41°29'48", long 85°22'34", in SW¼SW¼SE¼ sec.9, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001, on the east side of West Lakes Marina in Rome City, Indiana.

Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in (50.8 mm), depth 24 ft (7.32 m) cased to 21 ft (6.4 m) screened to 24 ft (7.32 m).

Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 920 ft (280 m). Measuring point: Top of floor of shelter 3.0 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--Nov. 2, 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.02 ft (1.83 m) below land-surface datum, May 7, 8, 1979; lowest, 12.74 ft (3.88 m) below land-surface datum, Dec. 29, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 5 | | 12.19 | 12.47 | 12.50 | 12.48 | 11.20 | 10.64 | 6.04 | 6.20 | 6.22 | 6.37 | 6.61 |
| 10 | | 12.42 | 12.46 | 12.51 | 12.56 | 10.26 | 9.94 | 6.07 | 6.12 | 6.26 | 6.24 | 6.70 |
| 15 | | 12.57 | 12.55 | 12.48 | 12.59 | 10.48 | 8.76 | 6.11 | 6.24 | 6.28 | 6.41 | 6.81 |
| 20 | | 12.64 | 12.62 | 12.51 | 12.63 | 10.87 | 7.92 | 6.21 | 6.25 | 6.40 | 6.41 | 6.92 |
| 25 | | 12.64 | 12.67 | 12.45 | 12.26 | 11.10 | 7.14 | 6.07 | 6.33 | 6.33 | 6.49 | 7.29 |
| EOM | | 12.54 | 12.65 | 12.43 | 12.15 | 11.10 | 6.54 | 6.17 | 6.14 | 6.41 | 6.58 | 8.10 |
| MIN | | 12.67 | 12.74 | 12.65 | 12.64 | 12.15 | 11.10 | 6.54 | 6.39 | 6.44 | 6.60 | 8.24 |
| MAX | | 12.06 | 12.45 | 12.43 | 12.15 | 10.26 | 6.54 | 6.02 | 6.12 | 6.13 | 6.24 | 6.57 |

WTR YR 1979 HIGH 6.02 MAY 7, 8 LOW 12.74 DEC 29

GROUND-WATER LEVELS

ORANGE COUNTY

383702086215601. Local number, OR 2.

LOCATION.--Lat 38°37'02", long 86°21'56", NE¼SE¼SE¼ sec.11, T.2 N., R.1 E., Orange County, Hydrologic Unit 05120208, on property of Paul Middletown Farm, 6.6 miles (10.6 km) southeast of Orleans.
Owner: Paul Middletown.

AQUIFER.--Limestone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 108 ft (32.9 m), cased to 56 ft (17.1 m), open end.

DATUM.--Altitude of land-surface datum is 712 ft (217 m). Measuring point: Top of floor of shelter 3.30 ft (1.01 m) above land-surface datum.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.83 ft (2.39 m) below land-surface datum, Dec. 9, 1979; lowest, 30.78 ft (9.38 m) below land-surface datum, July 11, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|------------|-------|-------|--------------|-------|-----|-------|-------|-------|-------|-------|
| 5 | --- | 28.46 | 11.34 | 11.33 | --- | --- | --- | --- | 25.45 | 28.13 | --- | 25.41 |
| 10 | 28.71 | 29.02 | 8.02 | 14.14 | --- | --- | --- | --- | 17.41 | 29.60 | --- | 26.68 |
| 15 | 17.17 | 28.02 | 10.74 | 17.07 | --- | --- | --- | --- | 21.95 | 26.64 | --- | 26.31 |
| 20 | 20.52 | 16.80 | 13.01 | 15.84 | --- | --- | --- | --- | 25.87 | 28.35 | 15.35 | 27.33 |
| 25 | 25.26 | 21.29 | 14.33 | 12.78 | --- | 11.30 | --- | 26.09 | 26.63 | 29.18 | 19.86 | 26.71 |
| EOM | 27.30 | 15.92 | 13.22 | 12.78 | --- | 14.75 | --- | 23.32 | 26.62 | --- | 23.00 | 27.84 |
| MIN | 28.96 | 30.53 | 20.09 | 19.06 | --- | 16.00 | --- | 26.55 | 27.28 | 30.78 | 23.65 | 28.11 |
| MAX | 17.16 | 15.20 | 7.83 | 9.34 | --- | 11.11 | --- | 23.32 | 17.41 | 8.58 | 13.58 | 23.66 |
| WTR YR 1979 | HIGH | 7.83 DEC 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | --- | --- | --- | LOW | 30.78 JUL 11 | --- | --- | --- | --- | --- | --- | --- |

OWEN COUNTY

391731086421401. Local number, OW 7.

LOCATION.--Lat 39°17'31", long 86°42'14", in NE¼SE¼NE¼ sec.23, T.10 N., R.3 W., Owen County, Hydrologic Unit 05120202, at the east edge of McCormicks Creek State Park 3.0 mi (4.8 km) east of Spencer.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in (0.15 m), depth 150 ft (46 m), cased to 15 ft (4.6 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 805 ft (245 m). Measuring point: Top of floor of shelter 2.38 ft (0.73 m) above land-surface datum.

REMARKS.--Water level affected by White River.

PERIOD OF RECORD.--July 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 98.77 ft (30.11 m) below land-surface datum, May 24, 1968; lowest, 121.25 ft (36.96 m) below land-surface datum, June 6, 1973.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|--------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 115.97 | 115.96 | 115.46 | 115.20 | 115.63 | 113.45 | 114.67 | 115.28 | --- | 115.82 | --- | --- |
| 10 | 116.00 | 115.96 | 115.15 | 115.54 | 115.67 | 115.15 | 114.72 | 115.31 | --- | 115.81 | 115.24 | --- |
| 15 | 115.89 | 115.93 | 115.60 | 115.60 | 115.64 | 115.47 | 113.93 | 115.55 | --- | 106.28 | 115.51 | --- |
| 20 | 115.91 | 115.90 | 114.82 | 114.61 | 115.68 | 115.50 | 115.31 | 115.61 | --- | 115.15 | 111.99 | 115.75 |
| 25 | 115.93 | 115.90 | 115.62 | 115.14 | 112.00 | 114.89 | 115.35 | 115.66 | 115.72 | 115.17 | 115.53 | 115.80 |
| EOM | 115.96 | 115.90 | 107.06 | 115.54 | 114.82 | 114.37 | 115.51 | 115.59 | 115.71 | --- | 114.98 | 115.83 |
| MIN | 116.01 | 115.98 | 115.90 | 115.63 | 115.72 | 115.54 | 115.53 | 115.71 | 115.76 | 115.86 | 115.59 | 115.84 |
| MAX | 115.89 | 115.90 | 107.06 | 107.48 | 109.92 | 113.02 | 112.72 | 114.98 | 115.62 | 99.98 | 109.66 | 115.25 |
| WTR YR 1979 | HIGH | 99.98 JUL 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | --- | --- | --- | LOW | 116.01 OCT 26, 27 | --- | --- | --- | --- | --- | --- | --- |

REVISIONS.--A revised table for the 1978 water year is given below. These figures supersede those published in WRD for Indiana 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 115.95 | 115.90 | 113.41 | 115.66 | 115.76 | 115.78 | 115.35 | 115.24 | --- | 115.88 | 115.87 | 115.83 |
| 10 | 115.86 | 115.91 | 115.47 | 115.69 | 115.78 | 115.65 | 115.40 | 115.22 | --- | 115.58 | 115.89 | 115.90 |
| 15 | 115.94 | 115.91 | 110.72 | 115.82 | 115.80 | 107.33 | 115.50 | 112.43 | --- | 115.62 | 115.93 | 115.91 |
| 20 | 115.98 | 115.78 | 115.26 | 115.76 | 115.78 | 112.34 | 115.49 | 115.17 | --- | 115.86 | 115.92 | 115.94 |
| 25 | 115.10 | 115.75 | 115.55 | 115.63 | 115.80 | 111.03 | 113.81 | 114.99 | 115.78 | 115.84 | 114.19 | 115.95 |
| EOM | 115.83 | 115.55 | 115.62 | 115.75 | 115.78 | 115.10 | 115.30 | 115.46 | 115.87 | 115.69 | 115.20 | 115.97 |
| MIN | 115.99 | 115.97 | 115.64 | 115.87 | 115.83 | 115.81 | 115.54 | 115.48 | 115.90 | 115.94 | 115.95 | 115.98 |
| MAX | 115.10 | 114.16 | 106.65 | 115.58 | 115.74 | 104.37 | 113.81 | 105.66 | --- | 113.27 | 113.04 | 115.68 |
| WTR YR 1979 | HIGH | 104.37 MAR 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | --- | --- | --- | LOW | 115.99 OCT 22 | --- | --- | --- | --- | --- | --- | --- |

380758087551001. Local number. PY 3.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 58 ft (18 m), cased to 54 ft (16 m), screened to 56 ft (17 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 380 ft (116 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

REMARKS.--Water level affected by Wabash River floods.

PERIOD OF RECORD.--April 1967 to September 1971. September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.78 ft (1.76 m) below land-surface datum, Apr. 25, 1975; lowest, 21.25 ft (6.48 m) below land-surface datum, Feb. 15-20, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|---------|------|-------|-------|-------|-------|-------|
| 5 | 17.39 | 18.36 | 18.33 | 16.23 | 13.97 | 7.91 | 6.77 | 8.22 | 11.82 | 14.07 | 12.32 | 12.55 |
| 10 | 17.61 | 18.50 | 17.70 | 15.94 | 14.36 | 6.78 | 7.08 | 8.96 | 12.21 | 14.35 | 11.12 | 13.09 |
| 15 | 17.81 | 18.66 | 17.24 | 15.26 | 14.59 | 6.87 | 7.13 | 9.40 | 12.53 | 14.13 | 11.61 | 13.63 |
| 20 | 17.93 | 18.75 | 16.98 | 14.39 | 14.55 | 7.54 | 7.57 | 9.93 | 12.90 | 14.16 | 12.39 | 14.02 |
| 25 | 18.03 | 18.72 | 17.03 | 13.50 | 11.51 | 6.89 | 7.78 | 10.58 | 13.34 | 14.05 | 12.56 | 14.42 |
| EOM | 18.23 | 18.52 | 16.83 | 13.50 | 10.77 | 6.59 | 8.56 | 11.28 | 13.63 | 13.71 | 12.11 | 14.74 |
| MIN | 18.25 | 18.76 | 18.52 | 16.81 | 14.68 | 10.75 | 8.71 | 11.45 | 13.73 | 14.46 | 13.69 | 14.80 |
| MAX | 17.21 | 18.25 | 16.83 | 13.32 | 10.77 | 6.31 | 5.96 | 8.22 | 11.45 | 13.71 | 11.07 | 12.15 |
| WTR YR 1979 | HIGH | 5.96 | APR 2 | LOW | 18.76 | NOV 20. | 21. | 22 | | | | |

POSEY COUNTY

380638087471901. Local number, PY 4.

LOCATION.--Lat 38°06'38", long 87°47'19", in NW¼NW¼ sec.8, T.5 S., R.12 W., Posey County, Hydrologic Unit 05120113, 0.6 mi (1 km) north of Wadesville.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 280 ft (85.3 m), cased to 200 ft (61 m), open hole.
Instrumentation: Analog to digital recorder.

DATUM.--Altitude of land-surface datum is 458 ft (140 m) from topographic map. Measuring point: Top of floor of shelter 2.00 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.99 ft (34.44 m) below land-surface datum, Apr. 2, 1979;
lowest, 126.40 ft (38.5 m) below land-surface datum, Aug. 17, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 121.13 | 120.29 | 118.78 | 118.57 | 117.66 | 115.40 | 114.09 | 113.78 | --- | 118.06 | 118.31 | 119.32 |
| 10 | 121.59 | 119.62 | 118.73 | 118.29 | 116.85 | 115.04 | 113.47 | 114.37 | --- | 118.26 | 118.75 | 118.44 |
| 15 | 120.62 | 119.77 | 118.32 | 118.04 | 116.20 | 115.13 | 114.03 | 114.64 | 117.71 | 118.32 | 119.09 | 118.71 |
| 20 | 120.49 | 119.64 | 118.15 | 117.04 | 116.38 | 115.02 | 114.07 | 114.90 | 119.29 | 117.67 | 119.15 | 118.36 |
| 25 | 120.32 | 119.34 | 118.47 | 117.28 | 115.70 | 114.91 | 113.94 | 116.73 | 118.05 | 117.95 | 118.74 | 118.26 |
| EOM | 120.54 | 119.15 | 118.44 | 117.40 | 115.60 | 113.47 | 113.94 | --- | 117.81 | 117.82 | 118.92 | 117.93 |
| MIN | 123.33 | 123.90 | 121.42 | 120.20 | 119.20 | 116.85 | 115.55 | 119.59 | 122.13 | 121.60 | 122.20 | 123.18 |
| MAX | 120.20 | 119.04 | 118.15 | 116.73 | 115.41 | 113.47 | 112.99 | 113.67 | 117.38 | 117.62 | 117.80 | 117.73 |
| WTR YR 1979 | HIGH | 112.99 | APR 2 | LOW | 123.90 | NOV 13 | | | | | | |

GROUND-WATER LEVELS

PUTNAM COUNTY

393254086590401. Local number, PN 4.

LOCATION.--Lat 39°32'54", long 86°59'04", in NW¼SW¼SE¼ sec.20, T.13 N., R.5 W., Putnam County, Hydrologic Unit 05120203, in the well field of Brazil Water Works about 8.0 mi (12.9 km) east of Brazil.
Owner: Brazil Water Company.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 12 in (0.3 m), depth 60 ft (18 m), cased to 20 ft (6.1 m), slotted to 60 ft (18 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 612 ft (186 m). Measuring point: Top of floor of shelter 1.80 ft (0.55 m) above land-surface datum.

REMARKS.--Water level affected by Big Walnut Creek floods, and by pumpage from municipal well field.

PERIOD OF RECORD.--July 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.20 ft (0.06 m) below land-surface datum, Apr. 9, 1961; lowest, 19.95 ft (6.08 m) below land-surface datum, Jan. 15-25, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 17.72 | 17.71 | 16.52 | 15.52 | 16.28 | 4.64 | 14.21 | 15.98 | 17.06 | 16.62 | 12.41 | 14.98 |
| 10 | 17.84 | 17.83 | 16.37 | 15.59 | 16.36 | 12.26 | 13.51 | 16.43 | 17.12 | 17.20 | 14.14 | 15.89 |
| 15 | 17.43 | 17.41 | 16.98 | 15.68 | 16.44 | 13.78 | 13.00 | 16.48 | 17.36 | 9.90 | 15.00 | 16.13 |
| 20 | 17.50 | 16.63 | 17.17 | 15.91 | 16.57 | 14.43 | 14.71 | 16.72 | 17.21 | 14.46 | 12.41 | 16.41 |
| 25 | 17.53 | 17.05 | 17.11 | 15.91 | 11.71 | 13.67 | 15.33 | 16.96 | 17.32 | 15.23 | 13.71 | 16.68 |
| EOM | 17.56 | 17.29 | 16.89 | 16.16 | 13.72 | 13.96 | 15.60 | 16.94 | 16.72 | 8.75 | 13.19 | 16.91 |
| MIN | 18.00 | 18.06 | 17.53 | 16.78 | 16.70 | 14.78 | 15.79 | 17.18 | 17.64 | 17.46 | 15.62 | 17.00 |
| MAX | 17.43 | 16.52 | 16.34 | 14.66 | 11.25 | 4.59 | 11.25 | 15.75 | 16.72 | 5.83 | 6.00 | 13.78 |
| WTR YR 1979 | HIGH | 4.59 | MAR 4 | LOW | 18.06 | NOV 13 | | | | | | |

RANDOLPH COUNTY

401532085085301. Local number, RA 3.

LOCATION.--Lat 40°15'32", long 85°08'53", in NE¼NE¼SE¼ sec.23, T.21 N., R.12 E., Randolph County, Hydrologic Unit 05120103, at the east edge of Purdue University Agriculture Experiment Station, about 5.5 mi (8.9 km) north of Farmland.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 54 ft (16 m), cased to 33 ft (10 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 970 ft (296 m). Measuring point: Top of floor of shelter 3.86 ft (1.18 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.98 ft (2.43 m) below land-surface datum, May 27, 1968; lowest, 15.00 ft (4.57 m) below land-surface datum, Feb. 10, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-------|--------|-------|-------|------------|-------|-------|-------|-------|-------|-------|
| 5 | | --- | 12.16 | 10.77 | 11.64 | --- | 10.08 | 10.23 | 10.58 | 11.50 | 9.90 | 10.64 |
| 10 | | --- | 11.85 | 11.16 | 11.79 | --- | 9.85 | 10.53 | 9.34 | 11.53 | 10.38 | 11.04 |
| 15 | | 13.49 | 11.74 | 11.28 | 11.71 | --- | 8.94 | 10.77 | 10.09 | 11.70 | 11.00 | 11.29 |
| 20 | | 13.17 | 11.59 | 10.93 | 11.73 | --- | 9.46 | 10.82 | 10.53 | 11.94 | 10.51 | 11.40 |
| 25 | | 13.04 | 11.72 | 11.29 | --- | 10.22 | 9.76 | 10.58 | 11.06 | 11.88 | 10.13 | 11.71 |
| EOM | | 13.09 | 10.90 | 11.43 | --- | 10.50 | 10.13 | 10.51 | 11.01 | 10.69 | 10.29 | 11.83 |
| MIN | | 13.49 | 13.13 | 11.53 | 12.07 | 10.53 | 10.43 | 11.00 | 11.11 | 12.09 | 11.07 | 11.83 |
| MAX | | 12.87 | 10.90 | 10.31 | 11.43 | 9.71 | 8.78 | 10.13 | 9.34 | 10.69 | 9.49 | 10.31 |
| WTR YR 1979 | HIGH | 8.78 | APR 14 | LOW | 13.49 | NOV 15, 16 | | | | | | |

GROUND-WATER LEVELS

ST. JOSEPH COUNTY

413255086211026. Local number, SJ 26.

LOCATION.--Lat 41°32'50", long 86°21'10", NW¼NE¼NE¼ sec.25, T.36 N., R.1 E., St. Joseph County, Hydrologic Unit 07120001, in Porter Cemetery, 4.3 mi (6.9 km) northwest of Lakeville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 1.5 in (0.04 m).
Instrumentation: Water-stage recorder.

DATUM.--Datum is 770.85 ft (234.955 m) (revised) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Sept. 1975 to current year. Fragmentary record prior to May 1976 available in District files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 769.20 ft (234.452 m) National Geodetic Vertical Datum of 1929, May 10, 1976; lowest, 764.69 ft (233.078 m) National Geodetic Vertical Datum of 1929, Feb. 8-11, 1977.

MEAN WATER LEVEL, IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 765.46 | --- | 765.96 | 766.70 | 766.27 | 768.28 | 768.47 | 768.75 | 767.29 | 766.51 | 766.07 | 766.04 |
| 10 | --- | 765.65 | 766.05 | 766.57 | 766.18 | 768.25 | 768.42 | 768.39 | 767.14 | --- | 766.10 | 765.94 |
| 15 | --- | 765.65 | 766.10 | 766.48 | 766.15 | 768.04 | 768.54 | 768.28 | 766.99 | --- | 766.09 | 765.90 |
| 20 | --- | 765.70 | 766.13 | 766.41 | 766.10 | 767.98 | 768.28 | 767.98 | 766.86 | --- | 766.12 | 765.83 |
| 25 | --- | 765.71 | 766.15 | 766.37 | 766.71 | 768.04 | 768.29 | 767.72 | 766.69 | --- | 766.12 | 765.76 |
| EOM | --- | 765.77 | 766.21 | 766.31 | 766.86 | 768.41 | 768.62 | 767.45 | 766.61 | 766.10 | 766.10 | --- |
| MIN | 765.43 | 765.63 | 765.78 | 766.30 | 766.10 | 766.88 | 768.14 | 767.44 | 766.56 | 766.09 | 766.04 | 765.76 |
| MAX | 765.48 | 765.78 | 766.41 | 766.76 | 766.88 | 768.42 | 768.63 | 768.76 | 767.44 | 766.62 | 766.13 | 766.09 |

WTR YR 1979 MAX 768.76 MAY 4, 5 MIN 765.43 OCT 2, 3

ST. JOSEPH COUNTY

413257086211027. Local number, SJ 27.

LOCATION.--Lat 41°32'57", long 86°21'10", NW¼NE¼NE¼ sec.25, T.36 N., R.1 E., St. Joseph County, Hydrologic Unit 07120001, in Porter Cemetery, 4.3 mi (6.9 km) northwest of Lakeville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 1.5 in (0.04 m).
Instrumentation: Water-stage recorder.

DATUM.--Datum is 766.60 ft (233.660 m) (revised) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1975 to current year. Fragmentary record prior to May 1976 available in district files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 765.40 ft (233.294 m) National Geodetic Vertical Datum of 1929, May 10, 1976; lowest, 759.26 ft (231.422 m) National Geodetic Vertical Datum of 1929, Aug. 28, 1977.

MEAN WATER LEVEL, IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 759.41 | 759.55 | 759.82 | 760.48 | 760.14 | 762.20 | 761.70 | 761.82 | 760.51 | 759.96 | 759.63 | 759.75 |
| 10 | 759.43 | 759.53 | 759.84 | 760.37 | 760.12 | 761.83 | 761.45 | 761.30 | 760.43 | 759.91 | 759.71 | 759.66 |
| 15 | 759.46 | 759.55 | 759.85 | 760.35 | 760.12 | 761.50 | 761.62 | 761.17 | 760.28 | 759.85 | 759.71 | 759.67 |
| 20 | 759.49 | 759.59 | 759.86 | 760.32 | 760.10 | 761.28 | 761.27 | 760.97 | 760.19 | 759.71 | 759.78 | 759.59 |
| 25 | 759.51 | 759.66 | 759.91 | 760.20 | 760.10 | 761.27 | 761.33 | 760.83 | 760.04 | 759.69 | 759.79 | 759.53 |
| EOM | 759.55 | 759.67 | 760.01 | 760.16 | 760.10 | 761.97 | 761.77 | 760.66 | 760.04 | 759.64 | 759.78 | 759.49 |
| MIN | 759.34 | 759.52 | 759.67 | 760.16 | 760.05 | 760.10 | 761.16 | 760.66 | 759.98 | 759.60 | 759.60 | 759.49 |
| MAX | 759.56 | 759.67 | 760.29 | 760.64 | 760.16 | 762.62 | 761.99 | 762.13 | 760.66 | 760.03 | 759.79 | 759.77 |

WTR YR 1979 MAX 762.62 MAR 4 MIN 759.34 OCT 1, 2, 3

GROUND-WATER LEVELS

ST. JOSEPH COUNTY

413255086211228. Local number, SJ 28.

LOCATION.--Lat 41°32'55", long 86°21'12", NW¼NE¼NE¼ sec.25, T.36 N., R.1 E., St. Joseph County, Hydrologic Unit 07120001, in Porter Cemetery, 4.3 mi (6.9 km) northwest of Lakeville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 1.5 in (0.04 m).
Instrumentation: Water-stage recorder.

DATUM.--Datum is 770.58 ft (234.873 m) (revised) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Sept. 1975 to current year. Fragmentary record prior to May 1976 available in district files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 761.10 ft (231.983 m) National Geodetic Vertical Datum of 1929, Mar. 7, 1979; lowest, 755.30 ft (230.215 m) National Geodetic Vertical Datum of 1929, Aug. 25, 1976.

MEAN WATER LEVEL, IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 758.03 | 758.33 | 759.04 | 759.41 | 759.16 | 760.97 | 760.38 | 760.59 | 759.62 | 759.15 | 759.03 | 759.09 |
| 10 | 758.06 | 758.38 | 759.05 | 759.23 | 759.11 | --- | 760.36 | 760.42 | 759.60 | 759.09 | 759.31 | 758.95 |
| 15 | 758.14 | 758.44 | 759.10 | 759.14 | 759.15 | --- | 760.53 | --- | 759.48 | 759.03 | 759.12 | 758.87 |
| 20 | 758.18 | 758.49 | 759.14 | 759.33 | 759.12 | --- | 760.40 | --- | 759.34 | 758.87 | 759.25 | 758.80 |
| 25 | 758.29 | 758.70 | 759.12 | 759.23 | 759.51 | --- | 760.40 | 759.82 | 759.16 | 758.98 | 759.16 | 758.74 |
| EOM | 758.29 | 758.72 | 759.38 | 759.22 | 759.48 | --- | 760.42 | 759.67 | 759.40 | 758.98 | 759.16 | 758.73 |
| MIN | 757.91 | 758.36 | 758.72 | 759.13 | 759.03 | 759.48 | 760.30 | 759.66 | 759.06 | 758.81 | 758.94 | 758.73 |
| MAX | 758.31 | 758.73 | 759.62 | 759.63 | 759.52 | 761.10 | 760.57 | 760.59 | 759.70 | 759.41 | 759.38 | 759.16 |

WTR YR 1979 MAX 761.10 MAR 7 MIN 757.91 OCT 1

ST. JOSEPH COUNTY

413257086211229. Local number, SJ 29.

LOCATION.--Lat 41°32'57", long 86°21'12", NW¼NE¼NE¼ sec.25, T.36 N., R.1 E., St. Joseph County, Hydrologic Unit 07120001, in Porter Cemetery, 4.3 mi (6.9 km) northwest of Lakeville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 1.5 in (0.04 m).
Instrumentation: Water-stage recorder.

DATUM.--Datum is 767.54 ft (233.946 m) (revised) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Sept. 1975 to current year. Fragmentary record prior to May 1976 available in district files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 762.02 ft (232.264 m) National Geodetic Vertical Datum of 1929, Apr. 9, 10, 1978; lowest, 754.31 ft (229.914 m) National Geodetic Vertical Datum of 1929, Oct. 1, 14, 15, 17, 18, Nov. 16, 20, 23, 1977.

MEAN WATER LEVEL, IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 757.17 | 757.30 | 757.78 | 758.55 | 758.61 | 760.58 | 761.24 | 761.32 | 759.98 | 758.88 | 758.25 | 758.40 |
| 10 | 757.12 | 757.25 | 757.87 | 758.56 | 758.50 | 760.66 | 761.15 | 761.16 | 759.86 | 758.81 | 758.32 | 758.28 |
| 15 | 757.18 | 757.30 | 758.05 | 758.55 | 758.58 | 760.63 | 761.27 | 761.00 | 759.63 | 758.65 | 758.29 | 758.17 |
| 20 | 757.15 | 757.36 | 758.19 | 758.69 | 758.53 | 760.67 | 761.09 | 760.76 | 759.38 | 758.45 | 758.43 | 758.14 |
| 25 | 757.24 | 757.50 | 758.15 | 758.64 | 758.96 | 760.72 | 761.06 | 760.50 | 759.12 | 758.42 | 758.42 | 758.07 |
| EOM | 757.20 | 757.58 | 758.65 | 758.65 | 758.96 | 760.98 | 761.19 | 760.19 | 759.09 | 758.30 | 758.44 | 758.04 |
| MIN | 757.07 | 757.21 | 757.61 | 758.50 | 758.42 | 758.97 | 760.94 | 760.18 | 758.97 | 758.25 | 758.18 | 758.03 |
| MAX | 757.24 | 757.66 | 758.50 | 758.78 | 758.99 | 760.99 | 761.39 | 761.35 | 760.18 | 759.08 | 758.46 | 758.45 |

WTR YR 1979 MAX 761.39 APR 12 MIN 757.07 OCT 16, 17

GROUND-WATER LEVELS

SHELBY COUNTY

393943085490901. Local number, SH 2.

LOCATION.--Lat 39°39'43", long 85°49'09", in SW¼SW¼NW¼ sec.13, T.14 N., R.6 E., Shelby County, Hydrologic Unit 05120204, on the county right of way at the intersection of County Roads 950 North and 200 West, 3.0 mi (4.8 km) south of Carrollton.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 150 ft (46 m), cased to 128 ft (39 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 818 ft (249 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.90 ft (4.85 m) below land-surface datum, May 27, 1968; lowest, 22.65 ft (6.91 m) below land-surface datum, Feb. 7, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 19.87 | 20.16 | 18.54 | 17.65 | 19.21 | 16.82 | 17.92 | 18.15 | 19.35 | 19.22 | 17.02 | 18.14 |
| 10 | 20.08 | 20.29 | 18.03 | 18.28 | 19.39 | 17.05 | 17.72 | 18.38 | 19.07 | 18.93 | 17.97 | 18.66 |
| 15 | 19.74 | 20.39 | 18.33 | 18.71 | 19.36 | 17.75 | 16.52 | 18.54 | 19.20 | 18.43 | 18.38 | 18.87 |
| 20 | 19.80 | 19.17 | 18.54 | 18.62 | 19.55 | 18.03 | 17.29 | 18.72 | 19.27 | 18.85 | 18.23 | 19.06 |
| 25 | 19.88 | 19.22 | 18.54 | 18.49 | 17.78 | 18.19 | 17.84 | 18.97 | 19.49 | 18.96 | 17.73 | 19.33 |
| EOM | 20.12 | 19.44 | 18.45 | 18.88 | 18.00 | 18.48 | 18.28 | 19.23 | 19.45 | 17.07 | 17.55 | 19.48 |
| MIN | 20.19 | 20.44 | 19.58 | 18.97 | 19.74 | 18.58 | 18.48 | 19.26 | 19.59 | 19.61 | 18.67 | 19.51 |
| MAX | 19.72 | 19.00 | 18.01 | 17.46 | 17.78 | 16.71 | 16.50 | 18.13 | 19.07 | 17.07 | 16.77 | 17.60 |
| WTR YR 1979 | HIGH | 16.50 | APR 14 | LOW | 20.44 | NOV 15 | | | | | | |

STARKE COUNTY

411342086365601. Local number, SK 2.

LOCATION.--Lat 41°13'42", long 86°36'56", NW¼NE¼NW¼ sec.14, T.32 N., R.2 W., Starke County, Hydrologic Unit 07120001, on private property in the southeast angle of intersection of U.S. Highway 35 and County Road 500 South, 5.0 mi (8.0 km) south of Knox.
Owner: Samuel A. Craigmile.

AQUIFER.--Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 85 ft (26 m), cased to 77 ft (23 m), screened to 85 ft (26 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 710 ft (216 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--October 1935 to December 1952 (random instantaneous measurements only), August 1963 to October 1966, June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.83 ft (0.25 m) below land surface datum, June 17, 1949; lowest, 6.99 ft (2.13 m) below land-surface datum, Aug. 2, 1939.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------|-------|------|------|-------------------|------|------|------|------|------|------|
| 5 | 6.47 | 6.50 | 6.19 | 5.74 | 6.06 | 4.29 | 4.17 | 3.66 | 4.92 | 5.44 | 5.76 | --- |
| 10 | 6.47 | 6.52 | 6.08 | 5.87 | 6.10 | 4.53 | 4.06 | 4.17 | 4.97 | 5.51 | 5.80 | --- |
| 15 | 6.48 | 6.51 | 6.11 | 5.89 | 6.10 | 4.78 | 3.84 | 4.07 | 5.10 | 5.58 | 5.90 | 5.86 |
| 20 | 6.50 | 6.49 | 6.13 | 5.91 | 6.12 | 4.67 | 4.26 | 4.43 | 5.17 | 5.72 | --- | 5.93 |
| 25 | 6.47 | 6.42 | 6.19 | 6.00 | 5.67 | 4.65 | 4.13 | 4.64 | 5.32 | 5.69 | --- | 5.96 |
| EOM | 6.50 | 6.40 | 5.58 | 6.02 | 5.76 | 4.07 | 3.64 | 4.83 | 5.29 | 5.66 | --- | 5.97 |
| MIN | 6.52 | 6.53 | 6.40 | 6.05 | 6.17 | 5.76 | 4.44 | 4.85 | 5.37 | 5.85 | 5.93 | 5.97 |
| MAX | 6.45 | 6.40 | 5.58 | 5.52 | 5.67 | 4.07 | 3.59 | 3.53 | 4.84 | 5.32 | 5.57 | 5.80 |
| WTR YR 1979 | HIGH | 3.53 | MAY 3 | LOW | 6.53 | NOV 10, 11, 13-15 | | | | | | |

STARKE COUNTY

411419086340401. Local number, SK 12.

LOCATION.--Lat 41°14'19", long 86°34'04", NW¼SE¼NE¼ sec.7, T.32 N., R.1 W., Starke County, Hydrologic Unit 07120001, in the Bass Lake State Fish Hatcheries on the northeast shore of the lake, about 5.0 mi (8.0 km) southeast of Knox.
Owner: State of Indiana.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 17 ft (5.2 m), cased to 15 ft (4.6 m), screened to 17 ft (5.2 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 720 ft (219 m). Measuring point: Top of floor of shelter 2.30 ft (0.70 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.99 ft (0.30 m) below land surface datum, Mar. 4, 5, 1979; lowest, 3.31 ft (1.01 m) below land-surface datum, Jan. 12, 13, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|--------------|------|------|------|-----------------|------|------|-----|------|------|------|
| 5 | 1.21 | 2.22 | 2.45 | 2.20 | 2.64 | .99 | 1.79 | 1.53 | | 1.88 | 1.60 | --- |
| 10 | 1.38 | 2.50 | 2.57 | 2.72 | 2.75 | 1.28 | 1.97 | 1.40 | | 1.97 | 1.17 | --- |
| 15 | 1.42 | 2.71 | 2.44 | 2.50 | 2.72 | 1.70 | 1.97 | 1.19 | | 2.01 | --- | 1.76 |
| 20 | 1.45 | 2.63 | 2.33 | 2.30 | 2.72 | 1.84 | 2.23 | 1.58 | | 1.99 | --- | 1.70 |
| 25 | 1.10 | 2.63 | 2.70 | 2.44 | 2.08 | 2.02 | 1.92 | --- | | 1.76 | --- | 1.60 |
| EOM | 1.59 | 2.70 | 1.76 | 2.57 | 2.22 | 1.52 | 1.88 | --- | | 1.62 | --- | 1.62 |
| MIN | 1.61 | 2.76 | 2.80 | 2.87 | 2.75 | 2.22 | 2.32 | 1.90 | | 2.07 | 1.60 | 1.76 |
| MAX | 1.09 | 1.62 | 1.76 | 1.73 | 2.08 | .99 | 1.55 | 1.16 | | 1.62 | 1.17 | 1.54 |
| WTR YR 1979 | HIGH | .99 MAR 4, 5 | | | LOW | 2.87 JAN 12, 13 | | | | | | |

STARKE COUNTY

411255086364501. Local number, SK 13.

LOCATION.--Lat 41°12'55", long 86°36'45", NE¼NE¼NW¼ sec.23, T.32 N., R.2 W., Starke County, Hydrologic Unit 07120001, on state property in the public parking area at the west end of Bass Lake, at Bass Lake.
Owner: State of Indiana.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in (0.04 m), depth 13 ft (4.0 m), cased to 11 ft (3.4 m), screened to 13 ft (4.0 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 705 ft (215 m). Measuring point: Top of floor of shelter 2.20 ft (0.67 m) above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.44 ft (0.44 m) below land-surface datum, Mar. 28, 1977; lowest, 3.40 ft (1.03 m) below land-surface datum, Sept. 11, 12, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------------|------|------|----------------------|------|------|------|------|------|------|------|
| 5 | 3.10 | 3.13 | 2.66 | 2.60 | 2.73 | 1.68 | 2.12 | 1.88 | 2.51 | 2.66 | 2.57 | --- |
| 10 | 3.19 | 3.11 | 2.64 | 2.64 | 2.77 | 2.08 | 2.01 | 2.25 | 2.36 | 2.74 | 2.84 | --- |
| 15 | 3.08 | 3.08 | 2.89 | 2.79 | 2.79 | 2.25 | 2.07 | 2.09 | 2.48 | 2.79 | 2.15 | 2.88 |
| 20 | 3.09 | 2.97 | 2.90 | 2.76 | 2.81 | 2.29 | 2.30 | 2.25 | 2.53 | 2.94 | --- | 3.00 |
| 25 | 3.00 | 2.90 | 2.93 | 2.72 | 2.19 | 2.22 | 2.00 | 2.37 | 2.63 | 2.69 | --- | --- |
| EOM | 3.10 | 2.95 | 2.05 | 2.72 | 2.44 | 1.82 | 1.85 | 2.42 | 2.48 | 2.60 | --- | --- |
| MIN | 3.21 | 3.14 | 3.00 | 2.85 | 2.82 | 2.44 | 2.37 | 2.47 | 2.75 | 3.07 | 2.87 | 3.02 |
| MAX | 2.99 | 2.87 | 2.05 | 2.05 | 2.11 | 1.52 | 1.63 | 1.69 | 2.36 | 2.00 | 1.93 | 2.86 |
| WTR YR 1979 | HIGH | 1.52 MAR 4 | | LOW | 3.21 OCT 1-3, 10, 11 | | | | | | | |

GROUND-WATER LEVELS

STARKE COUNTY

411225086353901. Local number, SK 14

LOCATION.--Lat 41°12'25", long 86°35'39", NE¼NE¼SW¼ sec.24, T.32 N., R.2 W., Starke County, Hydrologic Unit 07120001, in southeast corner of intersection of State Highway 10 and Beach Street in Bass Lake.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water table well, diameter 2 in (50.8 mm) depth 24 ft (7.3 m) cased to 21 ft (6.4 m) to 24 ft (7.3 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 717 ft (219 m). Measuring point: Top of floor of shelter 3.10 ft (0.94 m) above land-surface datum.

PERIOD OF RECORD.--Nov. 20, 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.29 ft (0.39 m) below land-surface datum, Mar. 4, 1979;
lowest, 4.59 ft (1.40 m) below land-surface datum, De. 8, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|------------|------|------------|------|------|------|------|------|------|------|------|
| 5 | | | --- | 3.29 | 3.63 | 1.86 | 2.25 | 2.16 | 3.10 | 3.51 | 3.46 | 3.39 |
| 10 | | | --- | 3.46 | 3.63 | 2.31 | 2.26 | 2.51 | 3.02 | 3.56 | 3.00 | 3.55 |
| 15 | | | --- | 3.57 | 3.63 | 2.56 | 2.74 | 2.37 | 3.19 | 3.65 | 3.50 | 3.64 |
| 20 | | | 3.68 | 3.59 | 3.63 | 2.55 | 2.50 | 2.69 | 3.22 | 3.80 | 2.36 | 3.78 |
| 25 | | | 3.73 | 3.59 | 3.02 | 2.53 | 2.12 | 2.79 | 3.39 | 3.73 | 3.11 | 3.86 |
| EOM | | | 2.64 | 3.61 | 3.14 | 1.73 | 1.98 | 2.91 | 3.28 | 3.41 | 3.26 | 3.95 |
| MIN | | | 4.59 | 3.61 | 3.64 | 3.14 | 2.61 | 3.00 | 3.54 | 3.91 | 3.69 | 3.96 |
| MAX | | | 2.64 | 2.64 | 2.94 | 1.29 | 1.48 | 1.57 | 2.91 | 3.36 | 2.36 | 3.30 |
| WTR YR 1979 | HIGH | 1.29 MAR 4 | LOW | 4.59 DEC 8 | | | | | | | | |

STEBEN COUNTY

414109085025701. Local number, SB 5.

LOCATION.--Lat 41°41'09", long 85°02'57", in NE¼NE¼NE¼ sec.8, T.37 N., R.13 E., Steuben County, Hydrologic Unit 04050001, 300 ft (91 m) west of the intersection of County Roads 300 West and 300 North, 0.5 mile (0.8 km) north of Crooked Lake, and 0.9 mile (1.4 km) south of channel between Lake James and Jimmerson Lake, and 4.5 miles (7.2 km) northwest of Angola, Indiana.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in (127 mm), depth 109 ft (23.2 m), cased to 103 ft (31.4 m), screened to 109 ft (23.2 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 1,035 ft (315 m). Measuring point: Top of floor of shelter 3.50 ft (1.07 m) above land-surface datum.

PERIOD OF RECORD.--June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.33 ft (18.7 m) below land-surface datum, June 29, 1979;
lowest, 62.01 ft (18.9 m) below land-surface datum, Sept. 27, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-------------------------|-----|-------------------------|-----|-----|-----|-----|-------|-------|-------|-------|
| 5 | | | | | | | | | --- | 61.39 | 61.59 | 61.78 |
| 10 | | | | | | | | | --- | 61.40 | 61.62 | 61.84 |
| 15 | | | | | | | | | --- | 61.39 | 61.67 | 61.87 |
| 20 | | | | | | | | | --- | 61.48 | 61.68 | 61.94 |
| 25 | | | | | | | | | --- | 61.49 | 61.70 | 61.99 |
| EOM | | | | | | | | | 61.33 | 61.52 | 61.75 | 62.01 |
| MIN | | | | | | | | | 61.39 | 61.52 | 61.75 | 62.01 |
| MAX | | | | | | | | | 61.33 | 61.34 | 61.52 | 61.75 |
| WTR YR 1979 | HIGH | 61.33 JUN 29 AND OTHERS | LOW | 62.01 SEP 27 AND OTHERS | | | | | | | | |

TIPPECANOE COUNTY

402543086533401. Local number, TC 4.

LOCATION.--Lat 40°25'43", long 86°53'34", NE¼SW¼NE¼ sec.20, T.23 N., R.4 W., Tippecanoe County, Hydrologic Unit 05120108, on flood plain of Wabash River, in the Lafayette Water Department well field at North Canal and Tippecanoe Streets in Lafayette.
Owner: Lafayette Water Department.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 12 in (0.30 m), depth 97 ft (30 m).
Instrumentation: Water-stage recorder.

DATUM.--Elevation of land-surface datum is 520.9 ft (158.8 m). Measuring point: Top of floor of shelter 15.43 ft (4.70 m) above land-surface datum.

REMARKS.--Water level affected by Wabash River floods and by pumpage from municipal supply well field.

PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.2 ft (2.5 m) above land-surface datum, Jan. 6, 7, 1950; lowest, 40.14 ft (12.23 m) below land-surface datum, Aug. 4, 1944.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------------|-------|--------------|-----|-------|-------|-------|-------|-----|-----|-------|
| 5 | 21.72 | 22.68 | 19.57 | 17.63 | | --- | 10.61 | 15.76 | 23.16 | | | 21.93 |
| 10 | 21.92 | 25.68 | 20.37 | --- | | --- | 16.11 | 16.62 | 20.22 | | | 20.62 |
| 15 | 20.56 | 22.92 | 18.59 | --- | | --- | 11.49 | --- | 20.95 | | | 20.12 |
| 20 | 20.02 | 21.17 | 22.30 | --- | | 17.49 | 16.64 | --- | 20.94 | | | 18.60 |
| 25 | 21.60 | 20.99 | 21.20 | --- | | 11.89 | 18.20 | --- | 20.76 | | | 20.08 |
| EOM | 19.80 | 24.82 | 20.36 | --- | | 9.64 | 16.49 | --- | 25.31 | | | 20.53 |
| MIN | 27.84 | 27.49 | 26.81 | 24.22 | | 20.53 | 22.70 | 23.56 | 28.48 | | | 27.59 |
| MAX | 18.67 | 19.43 | 18.37 | 16.33 | | 9.64 | 10.61 | 15.27 | 18.42 | | | 18.56 |
| WTR YR 1979 | HIGH | 9.64 MAR 31 | LOW | 28.48 JUN 29 | | | | | | | | |

TIPPECANOE COUNTY

402603086535101. Local number, TC 8.

LOCATION.--Lat 40°26'03", long 86°53'51", NE¼SE¼SW¼ sec.17, T.23 N., R.4 W., Tippecanoe County, Hydrologic Unit 05120108, on the right bank of the Wabash River in West Lafayette.
Owner: West Lafayette Water Company.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 12 in (0.30 m), depth 84 ft (26 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 528.6 ft (161 m). Measuring point: Top of floor of shelter 13.54 ft (4.13 m) above land-surface datum.

REMARKS.--Water level affected by Wabash River floods and by pumpage from municipal supply wells.

PERIOD OF RECORD.--November 1945 to December 1949, February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.06 ft (0.93 m) below land-surface datum, Feb. 3, 1949; lowest, 39.9 ft (12.16 m) below land-surface datum, Sept. 16, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 23.84 | 24.07 | 23.55 | 21.92 | 22.08 | --- | 15.75 | 17.81 | 20.56 | 20.61 | 20.43 | 23.18 |
| 10 | 23.95 | 24.04 | 22.66 | 20.63 | 22.29 | --- | 16.47 | 18.46 | 20.03 | 21.15 | 21.04 | 25.13 |
| 15 | 23.89 | 23.90 | 23.08 | 21.03 | 22.50 | --- | 15.06 | 18.49 | 19.88 | 20.79 | 21.14 | 23.80 |
| 20 | 23.72 | 23.61 | 23.42 | 21.09 | --- | 16.64 | 16.94 | 18.95 | 20.84 | 20.82 | 20.54 | 24.12 |
| 25 | 23.76 | 23.66 | 23.03 | 21.25 | --- | 15.75 | 16.97 | 19.75 | 20.66 | 21.27 | 20.68 | 24.43 |
| EOM | 23.94 | 24.16 | 23.36 | 21.56 | --- | 14.67 | 16.99 | 20.28 | 21.54 | 21.00 | 21.59 | 24.66 |
| MIN | 25.74 | 25.43 | 25.09 | 23.66 | 23.72 | 17.95 | 19.28 | 21.91 | 23.22 | 23.38 | 23.08 | 26.65 |
| MAX | 23.66 | 23.13 | 22.50 | 20.37 | 21.68 | 14.67 | 14.04 | 17.36 | 19.80 | 20.49 | 20.10 | 21.61 |
| WTR YR 1979 | HIGH | 14.04 APR 14 | LOW | 26.65 SEP 30 | | | | | | | | |

VANDERBURGH COUNTY

380608087395901. Local number, VA 6.

LOCATION.--Lat 38°06'08", long 87°39'59", in SE¼SW¼NW¼ sec.8, T.5 S., R.11 W., Vanderburgh County, Hydrologic Unit 05120113, on county right of way at the intersection of Buente and New Harmony Roads, 1.0 mi (1.6 km) southwest of Armstrong.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 125 ft (38 m), cased to 80 ft (24 m), open end.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 447 ft (136 m). Measuring point: Top of floor of shelter 3.47 ft (1.06 m) above land-surface datum.

PERIOD OF RECORD.--May 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.88 ft (7.58 m) below land-surface datum, Apr. 3, 4, 1968;
lowest, 33.00 ft (10.06 m) below land-surface datum, Feb. 7, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| 5 | 32.11 | 32.43 | 32.08 | 31.80 | 31.11 | 30.71 | 30.37 | 30.20 | 30.58 | 31.27 | 31.14 | 31.00 |
| 10 | 32.25 | 32.50 | 32.17 | 31.68 | 31.05 | 30.77 | 30.39 | 30.24 | 30.67 | 31.20 | 31.33 | 31.15 |
| 15 | 32.14 | 32.53 | 31.98 | 31.54 | 30.74 | 30.96 | 30.38 | 30.33 | 30.99 | 31.09 | 31.35 | 31.27 |
| 20 | 32.23 | 32.55 | 31.62 | 31.02 | 30.93 | 30.78 | 30.51 | 30.41 | 31.13 | 31.20 | 31.27 | 31.17 |
| 25 | 32.30 | 32.49 | 31.72 | 31.09 | 30.56 | 30.43 | 30.21 | 30.37 | 31.24 | 31.14 | 31.17 | 31.18 |
| EOM | 32.42 | 32.32 | 31.58 | 31.01 | 30.68 | 30.53 | 30.29 | 30.52 | 31.11 | 31.05 | 30.99 | 31.12 |
| MIN | 32.54 | 32.73 | 32.39 | 31.95 | 31.22 | 31.10 | 30.64 | 30.60 | 31.37 | 31.41 | 31.46 | 31.48 |
| MAX | 32.09 | 32.11 | 31.58 | 30.82 | 30.56 | 30.35 | 30.13 | 30.14 | 30.54 | 30.92 | 30.63 | 30.94 |
| WTR YR 1979 | HIGH | 30.13 | APR 26 | LOW | 32.73 | NOV 14, | 15 | | | | | |

VIGO COUNTY

393201087232101. Local number, VI 6.

LOCATION.--Lat 39°32'01", long 87°23'21", in NE¼NE¼NE¼ sec.34, T.13 N., R.9 W., Vigo County, Hydrologic Unit 05120111, on property of Anaconda Industries., at the north edge of Terre Haute.
Owner: Anaconda Industries.

AQUIFER.--Sand and Gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 138 ft (42 m), cased to 137 ft (41.7 m), with perforated pipe.
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 511 ft (156 m). Measuring point: Top of floor of shelter 3.47 ft (1.06 m) above land-surface datum.

PERIOD OF RECORD.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.43 ft (12.93 m) below land-surface datum, June 28, 1958;
lowest, 52.25 ft (15.93 m) below land-surface datum, Nov. 15-25, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|------------|-------|-------|--------|------------|-------|-------|-------|-------|
| 5 | 48.82 | 49.39 | 49.84 | 49.89 | 49.73 | 49.24 | 45.71 | 44.73 | 45.92 | 46.99 | 46.52 | 44.29 |
| 10 | 48.90 | 49.50 | 49.86 | 49.88 | 49.73 | 48.16 | 45.56 | 44.77 | 46.15 | 47.12 | 45.91 | 44.28 |
| 15 | 49.00 | 49.65 | 49.86 | 49.84 | 49.75 | 47.02 | 45.29 | 44.91 | 46.37 | 47.12 | 45.58 | 44.28 |
| 20 | 49.07 | 49.79 | 49.87 | 49.80 | 49.77 | 46.56 | 44.95 | 45.08 | 46.65 | 47.14 | 45.45 | 44.41 |
| 25 | 49.14 | 49.83 | 49.87 | 49.78 | 49.77 | 46.27 | 44.84 | 45.37 | 46.77 | 47.21 | 44.85 | 44.62 |
| EOM | 49.27 | 49.84 | 49.89 | 49.74 | 49.61 | 45.84 | 44.73 | 45.69 | 46.86 | 47.27 | 44.42 | 44.85 |
| MIN | 49.29 | 49.84 | 49.89 | 49.89 | 49.78 | 49.61 | 45.84 | 45.75 | 46.87 | 47.34 | 47.27 | 44.89 |
| MAX | 48.70 | 49.30 | 49.84 | 49.74 | 49.61 | 45.84 | 44.73 | 44.73 | 45.75 | 46.87 | 44.42 | 44.28 |
| WTR YR 1979 | HIGH | 44.28 | SEP 6 | AND OTHERS | LOW | 49.89 | DEC 31 | AND OTHERS | | | | |

VIGO COUNTY

392820087242601. Local number, VI 7.

LOCATION.--Lat 39°28'20", long 87°24'26", in SE¼SE¼NE¼ sec.21, T.12 N., R.9 W., Vigo County, Hydrologic Unit 05120111, on the campus of Indiana State University, in Terre Haute.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Holocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 70 ft (21 m), cased to 67 ft (20.4 m), screened to 70 ft (21 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 502 ft (153 m). Measuring point: Top of floor of shelter 3.00 ft (0.91 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.80 ft (12.74 m) below land-surface datum, June 7, 1974; lowest, 51.90 ft (15.82 m) below land-surface datum, Sept. 29 to Oct. 1, 1972.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| 5 | 48.97 | 49.28 | 49.12 | 48.82 | 49.04 | 48.67 | | --- | 46.21 | 47.21 | 46.59 | 45.39 |
| 10 | 49.03 | 49.31 | 49.09 | 48.80 | 49.08 | 48.05 | | --- | 46.40 | 47.32 | 46.07 | 45.48 |
| 15 | 49.08 | 49.37 | 48.96 | 48.84 | 49.11 | 47.22 | | --- | 46.59 | 47.44 | 45.95 | 45.66 |
| 20 | 49.12 | 49.37 | 48.85 | 48.86 | 49.17 | 46.67 | | 45.78 | 46.74 | 47.50 | 45.97 | 45.85 |
| 25 | 49.18 | 49.31 | 48.85 | 49.02 | 49.12 | 46.50 | | 45.86 | 46.92 | 47.55 | 45.76 | 46.03 |
| EOM | 49.25 | 49.19 | 48.84 | 49.01 | 49.00 | 46.37 | | 46.05 | 47.04 | 47.14 | 45.44 | 46.23 |
| MIN | 49.26 | 49.39 | 49.19 | 49.05 | 49.20 | 48.99 | | 46.09 | 47.07 | 47.59 | 47.14 | 46.27 |
| MAX | 48.92 | 49.19 | 48.84 | 48.79 | 49.00 | 46.37 | | 45.72 | 46.09 | 47.07 | 45.44 | 45.39 |

WTR YR 1979 HIGH 45.39 SEP 4 AND OTHERS LOW 49.39 NOV 18, 19

VIGO COUNTY

391646087164001. Local number, VI 8.

LOCATION.--Lat 39°16'46", long 87°16'40", in SE¼NE¼SE¼ sec.27, T.10 N., R.8 W., Vigo County, Hydrologic Unit 05120111, 20 ft (6 m) west of County Road 72 East and 1.7 miles (2.7 km) northwest of Lewis.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 180 ft (55 m), cased to 40 ft (12 m), open hole 140 ft (43 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 611 ft (186 m). Measuring point: Top of floor of shelter 2.50 ft (0.82 m) above land-surface datum.

PERIOD OF RECORD.--October 3, 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 77.87 ft (2.37 m) below land-surface datum, June 25, 1979; lowest, 79.45 ft (2.42 m) below land-surface datum, Nov. 20, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-----|-----|-------|-------|-------|-----|-----|-------|
| 5 | 78.97 | 79.17 | 78.93 | 79.08 | | | 78.20 | 78.13 | 78.27 | | | --- |
| 10 | 79.12 | 79.19 | 79.19 | 79.05 | | | 78.21 | 78.09 | 78.15 | | | --- |
| 15 | 78.94 | 79.30 | 79.04 | 78.93 | | | 78.21 | 78.21 | 78.08 | | | --- |
| 20 | 79.04 | 79.39 | 78.68 | 78.45 | | | 78.26 | 78.38 | 78.04 | | | --- |
| 25 | 78.93 | 79.23 | 78.87 | --- | | | 78.04 | 78.24 | 77.87 | | | --- |
| EOM | 79.23 | 79.07 | 78.75 | --- | | | 78.17 | 78.24 | --- | | | 79.29 |
| MIN | 79.34 | 79.49 | 79.32 | 79.22 | | | | 78.99 | 78.34 | | | 79.41 |
| MAX | 78.93 | 78.97 | 78.68 | 78.41 | | | 78.04 | 78.09 | 77.87 | | | 79.28 |

WTR YR 1979 HIGH 77.87 JUN 25 LOW 79.49 NOV 20

GROUND-WATER LEVELS

WAYNE COUNTY

394426085080601. Local number, WE 6.

LOCATION.--Lat 39°44'26", long 85°08'06", in SE¼NW¼NE¼ sec.24, T.15 N., R.12 E., Wayne County, Hydrologic Unit 05080003, on county right of way near the intersection of State Highway 1 and Bentonville Road, 4.0 mi (6.4 km) south of East Germantown.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 49 ft (15 m), cased to 47 ft (14 m), screened to 49 ft (15 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 888 ft (271 m). Measuring point: Top of collar in shelter 3.25 ft (0.99 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.07 ft (3.07 m) below land-surface datum, Aug. 3 1979; lowest, 21.68 ft (6.61 m) below land-surface datum, Feb. 1, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 15.18 | 15.96 | 15.72 | 13.95 | 14.42 | 11.07 | 13.03 | 12.78 | 13.79 | 14.30 | 10.18 | 11.06 |
| 10 | 15.40 | 16.09 | 15.07 | 13.80 | 14.63 | 11.11 | 13.14 | 12.94 | 13.79 | 14.48 | 10.81 | 11.48 |
| 15 | 15.54 | 16.23 | 14.56 | 13.94 | 14.82 | 11.68 | 12.49 | 13.14 | 13.87 | 14.30 | 11.30 | 11.77 |
| 20 | 15.62 | 16.18 | 14.41 | 14.04 | 15.03 | 12.14 | 12.22 | 13.32 | 13.95 | 14.20 | 11.78 | 12.05 |
| 25 | 15.71 | 16.09 | 14.50 | 14.00 | 12.56 | 12.47 | 12.38 | 13.47 | 14.01 | 13.57 | 10.50 | 12.37 |
| EOM | 15.85 | 16.10 | 14.63 | 14.20 | 12.47 | 12.83 | 12.61 | 13.65 | 14.14 | 10.29 | 10.58 | 12.67 |
| MIN | 15.86 | 16.28 | 16.12 | 14.53 | 15.06 | 12.86 | 13.14 | 13.66 | 14.15 | 14.57 | 11.87 | 12.70 |
| MAX | 15.01 | 15.87 | 14.41 | 13.80 | 12.47 | 10.95 | 12.22 | 12.66 | 13.67 | 10.29 | 10.07 | 10.67 |
| WTR YR 1979 | HIGH | 10.07 | AUG 3 | LOW | 16.28 | NOV 17 | | | | | | |

WHITLEY COUNTY

410337085264201. Local number, WY 3.

LOCATION.--Lat 41°03'37", long 85°26'42", in NW¼SE¼NW¼ sec.18, T.30 N., R.10 E., Whitley County, Hydrologic Unit 05120104, on the county right of way of Evergreen Road, 0.75 mi (1.2 km) north of Laud.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 191 ft (58 m), cased to 187 ft (57 m), screened to 191 ft (58 m).
Instrumentation: Water-stage recorder.

DATUM.--Altitude of land-surface datum is 870 ft (265 m). Measuring point: Top of floor of shelter 2.68 ft (0.82 m) above land-surface datum.

PERIOD OF RECORD.--December 1966 to September 1971. August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.30 ft (15.03 m) below land-surface datum, Mar. 27, 1976; lowest, 52.67 ft (16.05 m) below land-surface datum, Mar. 15, 1979.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 51.87 | 52.01 | 51.96 | 52.34 | 52.33 | 52.46 | 52.07 | 51.69 | 51.74 | 52.11 | 52.06 | 51.95 |
| 10 | 52.01 | 52.11 | 52.29 | 52.39 | 52.45 | 52.47 | 52.08 | 51.75 | 51.79 | 52.01 | 51.99 | 52.07 |
| 15 | 51.97 | 52.17 | 52.13 | 52.30 | 52.18 | 52.64 | 51.94 | 51.83 | 51.94 | 52.04 | 52.08 | 52.15 |
| 20 | 52.11 | 52.28 | 51.87 | 51.87 | 52.25 | 52.41 | 51.89 | 51.74 | 51.91 | 52.22 | 51.95 | 52.05 |
| 25 | 51.99 | 52.14 | 52.13 | 52.09 | 52.31 | 52.14 | 51.68 | 51.66 | 52.13 | 52.03 | 51.98 | 52.18 |
| EOM | 52.16 | 52.15 | 52.14 | 52.14 | 52.33 | 52.28 | 51.76 | 51.77 | 51.84 | 51.97 | 51.95 | 52.04 |
| MIN | 52.25 | 52.31 | 52.46 | 52.47 | 52.64 | 52.67 | 52.28 | 51.93 | 52.17 | 52.29 | 52.15 | 52.19 |
| MAX | 51.87 | 51.80 | 51.87 | 51.78 | 52.12 | 52.00 | 51.64 | 51.61 | 51.74 | 51.86 | 51.84 | 51.89 |
| WTR YR 1979 | HIGH | 51.61 | MAY 26 | LOW | 52.67 | MAR 15 | | | | | | |

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

| Multiply inch-pound units | By | To obtain SI units |
|--|------------------------|--|
| <i>Length</i> | | |
| inches (in) | 2.54×10^1 | millimeters (mm) |
| | 2.54×10^{-2} | meters (m) |
| feet (ft) | 3.048×10^{-1} | meters (m) |
| miles (mi) | 1.609×10^0 | kilometers (km) |
| <i>Area</i> | | |
| acres | 4.047×10^3 | square meters (m ²) |
| | 4.047×10^{-1} | square hectometers (hm ²) |
| | 4.047×10^{-3} | square kilometers (km ²) |
| square miles (mi ²) | 2.590×10^0 | square kilometers (km ²) |
| <i>Volume</i> | | |
| gallons (gal) | 3.785×10^0 | liters (L) |
| | 3.785×10^0 | cubic decimeters (dm ³) |
| | 3.785×10^{-3} | cubic meters (m ³) |
| million gallons | 3.785×10^3 | cubic meters (m ³) |
| | 3.785×10^{-3} | cubic hectometers (hm ³) |
| cubic feet (ft ³) | 2.832×10^1 | cubic decimeters (dm ³) |
| | 2.832×10^{-2} | cubic meters (m ³) |
| cfs-days | 2.447×10^3 | cubic meters (m ³) |
| | 2.447×10^{-3} | cubic hectometers (hm ³) |
| acre-feet (acre-ft) | 1.233×10^3 | cubic meters (m ³) |
| | 1.233×10^{-3} | cubic hectometers (hm ³) |
| | 1.233×10^{-6} | cubic kilometers (km ³) |
| <i>Flow</i> | | |
| cubic feet per second (ft ³ /s) | 2.832×10^1 | liters per second (L/s) |
| | 2.832×10^1 | cubic decimeters per second (dm ³ /s) |
| | 2.832×10^{-2} | cubic meters per second (m ³ /s) |
| gallons per minute (gal/min) | 6.309×10^{-2} | liters per second (L/s) |
| | 6.309×10^{-2} | cubic decimeters per second (dm ³ /s) |
| | 6.309×10^{-5} | cubic meters per second (m ³ /s) |
| million gallons per day | 4.381×10^1 | cubic decimeters per second (dm ³ /s) |
| | 4.381×10^{-2} | cubic meters per second (m ³ /s) |
| <i>Mass</i> | | |
| tons (short) | 9.072×10^{-1} | megagrams (Mg) or metric tons |

