CALENDAR FOR WATER YEAR 1996

1995

OCTOBER

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1996

JANUARY

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SEPTEMBER

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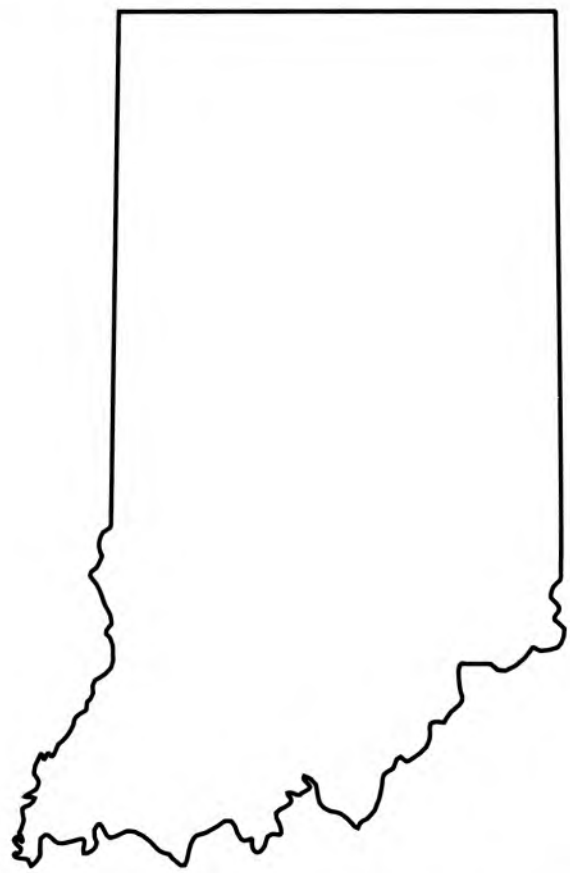
Water Resources Data Indiana Water Year 1996

by James A. Stewart, Charles R. Keeton, Brian L. Benedict, and Lowell E. Hammil



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IN-96-1
Prepared in cooperation with the State of Indiana
and with other agencies

U. S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. Geological Survey

Gordon P. Eaton, Director

For additional information, write to
District Chief, Water Resources Division
U.S. Geological Survey
5957 Lakeside Boulevard
Indianapolis, Indiana 46278

1997

PREFACE

This volume of the annual hydrologic data report of Indiana is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, stage, lake levels, ground-water levels, and water quality provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Indiana and with other agencies under the general supervision of L. A. Swain, District Chief, Indiana, and W.J. Carswell, Jr., Regional Hydrologist, Northeastern Region.

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13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 1996 water year for Indiana consists of records of discharge, stage, and water quality of streams and wells; reservoir stage and contents; and water levels in lakes and wells. This report contains records of discharge for 166 stream-gaging stations, stage for 6 stream stations, stage and contents for 1 reservoir, water quality for 2 streams, and water levels for 80 lakes and 94 observation wells. Also included are records of 39 water-quality sites, not part of the systematic data-collection program, and are shown as miscellaneous samplings. These data represent that part of the National Water Data System operated by the U.S. Geological Survey in Indiana in cooperation with State and Federal agencies.

14. SUBJECT TERMS
*Indiana, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analysis, Water temperatures, Water levels, Water analyses, Sampling sites.

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Unclassified	Unclassified		

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(d-discharge, e-gage heights, c-chemical, t-temperature, v-contents)

LAKE GAGING STATIONS, IN ALPHABETICAL ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

(e - gage heights)

GROUND-WATER WELLS, IN ALPHANUMERIC ORDER BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

(e - gage heights, h-hydrographs)

GROUND-WATER WELLS, IN ALPHANUMERIC ORDER BY COUNTY,
--Continued

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Indiana have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Discontinued short-term project stations have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

(Most stations are surface-water discharge, exceptions are designated with footnotes)

Station name	Station number	Drainage area (mi^2)	Period of record
OHIO RIVER BASIN			
Little Williams Creek at Connersville	03274950	9.16	1968-91
East Fork Whitewater River at Richmond	03275500	121	1949-78
South Hogan Creek near Dillsboro	03276700	38.1	1961-93
Laughery Creek near Farmers Retreat (a)	03277000	248	1941-73
Indian Creek near Corydon	03302500	129	1943-93
Whiskey Run at Marengo (d)	03302849	7.02	1986-93
Friday Branch tributary near Saint Meinrad (b)	03303276	.096	1981
Little Pigeon Creek near Tennyson	03304000	150	1944-47
Pigeon Creek at Evansville	03322100	323	1960-85
WABASH RIVER BASIN			
Wabash River near New Corydon	03322500	262	1951-88
Wabash River at Bluffton	03323000	532	1930-71, 1987-92 (d)
Salamonie River at Portland	03324200	85.6	1959-93
Mississinewa River near Eaton (b)	03326000	310	1952-71
Wabash River at Delphi	03329500	4,072	1940-71
Tippecanoe River near Warsaw	03331000	126	1943-49
Tippecanoe River at Pulaski	03332000	1,089	1928-31
Little Indian Creek near Royal Center (a)	03332300	35.0	1959-73
Tippecanoe River at Buffalo (e)	03332345	1,285	1986-92
Big Monon Creek near Francesville (a)	03332400	152	1959-73
Tippecanoe River near Monticello (c)	03332500	1,732	1932-81
Rattlesnake Creek near Patton	03329400	6.83	1968-93
Wildcat Creek at Greentown	03333500	168	1945-61
Marshall Ditch near Montmorenci	03335677	1.58	1990-94
Indian Creek near Montmorenci	03335678	27.8	1990-94
Little Pine Creek at Green Hill	03335679	42.3	1990-94
Big Pine Creek near Williamsport	03335700	323	1955-87
East Fork Coal Creek near Hillsboro	03339108	33.4	1968-91
Coal Creek at Coal Creek	03339120	214	1965-72
Little Vermilion River near Newport	03339150	237	1965-72
Sugar Creek tributary near Deer Mill (b)	03339855	.45	1981
Sugar Creek near Byron (b)	03340000	670	1941-71
Big Raccoon Creek at Mansfield (d)	03341000	248	1939-58
Little Raccoon Creek near Catlin (d,g)	03341200	134	1957-71
Big Raccoon Creek near Mecca (d)	03341315	473	1988-92
Brouilletts Creek near Universal (b)	03341420	321	1966-71
North Coal Creek near Terre Haute	03341470	1.91	1974-76
Honey Creek near Riley (b)	03341570	5.79	1981
West Fork Busseron Creek near Hymera	03342150	14.4	1966-86
Mud Creek near Cass	03342244	9.16	1981-91
Mud Creek near Dugger	03342250	11.9	1966-81
Busseron Creek near Sullivan	03342300	138	1966-86
Buttermilk Creek near Paxton	03342350	16.5	1966-73
Buttermilk Creek near Sullivan	03342360	17.6	1975-78
South Fork Smalls Creek at Bruceville (b,g)	03342800	4.94	1972-75
White River at Anderson	03348000	406	1925-26, 1932-93
Killbuck Creek near Gaston	03348020	25.5	1968-91
Killbuck Creek near Anderson	03348100	97.8	1964-68
White River near Noblesville	03348500	828	1915-26, 1929-74 (b)
Cicero Creek near Arcadia (a)	03349500	131	1955-76

Station name	Station number	Drainage area (mi^2)	Period of record
WABASH RIVER BASIN--Continued			
Little Cicero Creek near Arcadia (a)	03349700	40.4	1956-76
Cicero Creek near Cicero	03350000	196	1946-54
Hinkle Creek near Cicero (a)	03350100	18.5	1956-76
Cicero Creek at Noblesville	03350500	216	1950-80, 1986-92
Sugar Creek near Middletown	03351400	5.80	1969-89
Lawrence Creek at Fort Benjamin Harrison	03352000	2.74	1952-56, 1958-69
Mud Creek at Indianapolis (a)	03352200	42.4	1958-76
Fall Creek at 16th St. at Indianapolis	03352875	317	1986-91
Pleasant Run at Brookville Road at Indpls.	03353160	10.1	1960-81
Bean Creek at Indianapolis	03353180	4.4	1970-93
White River at Waverly	03353660	2,026	1986-88
Beanblossom Creek at Beanblossom	03354500	14.6	1952-93
Bear Creek near Trevlac (a)	03355000	6.94	1952-73
Beanblossom Creek at Dolan	03356000	100	1946-78
Beanblossom Creek near Bloomington	03356500	112	1931-33
Big Walnut Creek at Greencastle	03357420	216	1975-82
Deer Creek near Putnamville	03359500	59.0	1955-65, 1968-72
Jordan Creek near Jordan (b)	03359980	25.9	1981
Driftwood River near Edinburgh	03363000	1,060	1940-91
Haw Creek near Clifford	03364200	47.5	1967-91
Sand Creek near Brewersville	03365000	155	1948-86
Graham Creek near Vernon	03366000	77.2	1955-73
Muscatatuck River near Austin	03367000	359	1932-43, 1944-71 (f)
Stucker Creek near Austin	03367500	127	1932-33
Vernon Fork near Crothersville	03370000	391	1932-33
Muscatatuck River near Tampico	03370500	960	1939
Muscatatuck River near Vallonia	03371000	1,134	1932-33
South Fork Salt Creek at Kurtz	03371600	38.2	1961-71, 1972-75 (e)
North Fork Salt Creek at Nashville (a)	03371650	76.1	1962-76
North Fork Salt Creek near Belmont	03372000	120	1946-71
Stephens Creek near Bloomington	03372300	10.9	1970-91
Clear Creek near Harrodsburg	03372700	55.2	1960-71
Salt Creek near Peerless	03373000	573	1939-50, 1957-71, 1971-84 (d)
Indian Creek near Springville (a)	03373200	60.7	1961-73
Lost River near West Baden Springs	03373700	287	1964-93
White River at Hazelton (h)	03374100	11,305	1928-38
Patoka River near Jasper (g)	03376000	348	1944-47
Flat Creek near Otwell	03376260	21.3	1965-82
Little Flat Creek near Otwell (b)	03376279	6.56	1981
South Fork Patoka River near Spurgeon	03376350	42.8	1964-86
STREAMS TRIBUTARY TO LAKE MICHIGAN			
Dunes Creek at Porter	04095050	3.40	1979-82
Burns Ditch at Gary (g)	04093500	160	1943-91
Salt Creek near McCool	04094500	74.6	1945-91
Derby Ditch at Beverly Shores	04095100	4.64	1980
Trail Creek at Michigan City	04095300	54.1	1969-94
Lime Lake outlet at Panama	04097970	17.5	1969-86
Fawn River at Orland	04098000	86.4	1943-47
Pigeon Creek and Hogback Lake near Angola	04099500	103	1946-74
Pretty Lake Inlet near Stroh	04099610	1.96	1963-80
Christiana Creek at Elkhart	04100000	127	1947-52
North Branch Elkhart River near Cosperville	04100220	134	1951-71
Turkey Creek at Syracuse	04100465	43.8	1969-87

Station name	Station number	Drainage area (mi^2)	Period of record
STREAMS TRIBUTARY TO LAKE ERIE			
St. Joseph River at Hursh	04178500	734	1950-54
St. Joseph River at Cedarville	04179000	763	1931-32, 1956-81
Cedar Creek near Auburn (a)	04179500	87.3	1943-73
Harber Ditch at Fort Wayne	04182590	21.9	1960-64 (g), 1961-64 (e), 1964-91
St. Marys River at Fort Wayne	04182700	810	1905-06
UPPER MISSISSIPPI RIVER BASIN			
Kingsbury Creek near LaPorte	05515400	7.08	1970-86
Yellow River near Bremen (a)	05516000	135	1955-73
Singleton Ditch near Hebron	05518500	34.2	1949-51
West Creek near Schneider	05519500	54.7	1948-52, 1954-72
Singleton Ditch at Illinoi, IL	05520000	220	1945-77
Oliver Ditch near Aix	05521500	79.6	1948-51
Iroquois River near North Marion	05522000	144	1948-93
Bice Ditch at South Marion	05523000	21.8	1948-93
Slough Creek near Collegeville	05523500	83.7	1948-52, 1953-82
Carpenter Creek at Egypt	05524000	44.8	1948-52, 1953-82

a Continued as a crest-stage and low-flow partial-record station through 1984.
b Some quality of water data available.
c Records of daily discharges furnished by Northern Indiana Public Service Company.
d Continued as a stage only station.
e Stage only station.
f High-water records only.
g Some record fragmentary.
h Some quality of water data available after station discontinued for stream-gaging records.

The following stations were discontinued as surface-water-quality stations. Records of temperature (T), specific conductance, pH, dissolved oxygen (C) or sediment (S) were collected and published for the record shown for each station. Discontinued short-term project stations have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Station name	Station number	Drainage area (mi^2)	Type of Record	Period of record
OHIO RIVER BASIN				
Whitewater River near Alpine	03275000	529	C,T,S	1987-94, 1968-79
East Fork Whitewater River at Abington	03275600	198	C T T	1969-76, 1970-71, 1973-76
East Fork Whitewater at Brookville	03276000	380	C,T	1974-75
Whitewater River at Brookville	03276500	1224	T C	1974-81, 1974-86
South Hogan Creek near Dillsboro	03276700	38.1	C,T,S	1961-93
Trib to Friday Branch at St. Meinard	03303276	.096	C,T,S	1980-81
WABASH RIVER BASIN				
Wabash River near New Corydon	03322500	262	C	1969-73
Wabash River at Huntington	03323500	710	T	1963-77
Salamonie Creek at Warren	03324288	402	T	1980-81
Mississinewa River at Marion	03326500	682	C,T	1975-76,79
Eel River near Logansport	03328500	789	S,T	1969-80
Wildcat Creek near Lafayette	03335000	794	C T	1970-79, 1970-74
Wabash River at Lafayette	03335500	7247	T T S	1954-64, 1967-75, 1978-80
Big Pine Creek at Williamsport	03335700	323	C T C,T,S	1970-76, 1970-75, 1980-81
Big Raccoon Creek near Fincastle	03340800	132	T C	1965-77, 1975-77
Honey Creek at Riley	03341570	5.79	C,T,S	1980-81
Wabash River near Sullivan	03341805	12,600	C,T	1963-64
Wabash River at Riverton	03342000	13,100	T T T	1954-61, 1962-65, 1967-78
South Fork Smalls Creek at Bruceville	03342800	4.94	C	1973-75
White River at Noblesville	03348500	814	T	1952-76
White River near Nora	03351000	1200	T T	1954-60, 1962-72
Big Walnut Creek at Greencastle	03357420	216	C,T	1973-77
Mill Creek at Cataract	03358000	245	C,T	1978-82
Jordan Creek at Jordan	03359980	25.9	C,T	1980-81
Big Blue River at Carthage	03361000	184	T C,T S C	1974-77, 1979-82, 1977-81, 1973-77
Flatrock River at St. Paul	03363500	303	C,T	1976-79
Clifty Creek at Hartsville	03364500	91.4	C,T	1970-75
East Fork White River at Seymour	03365500	2333	S T	1966-80, 1954-79
North Fork Salt Creek near Nashville	03371650	761	C,T	1974-76
Salt Creek near Harrodsburg	03372500	441	T	1966-76
White River at Petersburg	03374000	11125	T	1964-77
White River near Hazelton	03374100	11305	T S C	1973-81, 1973-83, 1973-86
Patoka River near English	03374470	308	T C	1970-76, 1969-76
Little Flat Creek near Otwell	03376279	6.36	C,T,S	1980-81
Wabash River at New Harmony	03378500	29234	T C S	1974-80 1974-86 1974-83
STREAM TRIBUTARY TO LAKE MICHIGAN				
Trail Creek near Michigan City	04095300	54.1	C,T S	1977-81 1990-94

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of Record	Period of record
STREAMS TRIBUTARY TO LAKE ERIE				
St. Joseph River near Newville	04178100	615	C	1969-73
St. Marys River at Wilshire	04181050	435	C	1969-73
St. Marys River near Ft Wayne	04182000	762	S T	1953-67, 1964-67
UPPER MISSISSIPPI RIVER BASIN				
Yellow Creek near Plymouth	05516500	29.4	S,T	1979-81

WATER RESOURCES DATA - INDIANA, 1996

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State and Federal agencies, obtains a large amount of data pertaining to the water resources of Indiana each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Indiana."

Water-resources data for the 1996 water year for Indiana consist of records of discharge, stage, and water quality of streams, and water levels of lakes and ground-water wells. This volume contains records for water discharge at 166 gaging stations, stage at 6 gaging stations, stage and contents at 1 reservoir, water quality at 2 stream sites, water quality at 39 miscellaneous sites not part of the systematic data-collection program, water levels at 80 lakes, and water levels at 94 observation wells. Locations of the streamflow and water-quality sites, are shown on figures 5, 6, and 7. The number of lakes and ground-water observation wells by county having 1996 water-level records are shown on figures 8, and 9. A systematic collection of stages on selected lakes was begun in 1943 in cooperation with the State of Indiana, Department of Natural Resources. The data collected since the beginning of record have not been published previously in the annual water data reports for Indiana. They are available from the Indiana District Office. A selected amount of lake data was published in Water-Supply Paper 1363, "Hydrology of Indiana Lakes," by J. I. Perrey and D. M. Corbett (1956). Additional lake data were published in Open-File Report 88-331, "Annual maximum and minimum lake levels for Indiana, water years 1942-85," by Kathleen K. Fowler (1988). These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

This series of annual reports for Indiana began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantity and quality of surface and ground water.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Indiana were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage; and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." Stream discharge and stage data were published in four compilation reports (through the 1950, 1951-60, 1961-65, and 1966-70 water years). Data on water quality, temperature, and suspended sediment for the 1941

through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, CO 80225-0286.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official U.S. Geological Survey reports have 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 volume is identified as "U.S. Geological Survey Water-Data Report IN-96-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Every five years since 1950 the Geological Survey has compiled data on water use in the United States. During 1993, this effort was completed again for 1990 use in Indiana primarily through the auspices of the Water Management Branch, Division of Water, Indiana Department of Natural Resources. The Water Management Branch found that in 1990 more than 9 billion gallons per day were withdrawn from the surface- and ground-water resources of Indiana to meet the needs of its citizens. Approximately 93 percent of this withdrawal was from surface-water sources. Indiana used 2.48 billion gallons per day of fresh water for industrial use, more than any other state in the nation for this category. The largest category of use in Indiana was thermoelectric power production, for which 5.96 billion gallons per day were used.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (317) 290-3333.

COOPERATION

The U.S. Geological Survey and agencies of the State of Indiana have had cooperative agreements for the systematic collection of streamflow records since 1930, for ground-water levels since 1940, for lake stages since 1943, and for water-quality records since 1951. Organizations that supplied data are acknowledged in station manuscripts. Organizations that assisted in collecting data in this report through cooperative agreement with the U.S. Geological Survey are:

State of Indiana, Department of Natural Resources, Patrick R. Ralston, Director, through the Bureau of Water and Mineral Resources, Gary N. Doxtater, Deputy Director

State of Indiana, Department of Environmental Management, Kathy Prosser, Commissioner, Bernard Landman, Assistant Commissioner, Office of Water Management

State of Indiana, Department of Transportation, Fred C. P'Pool, Director

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

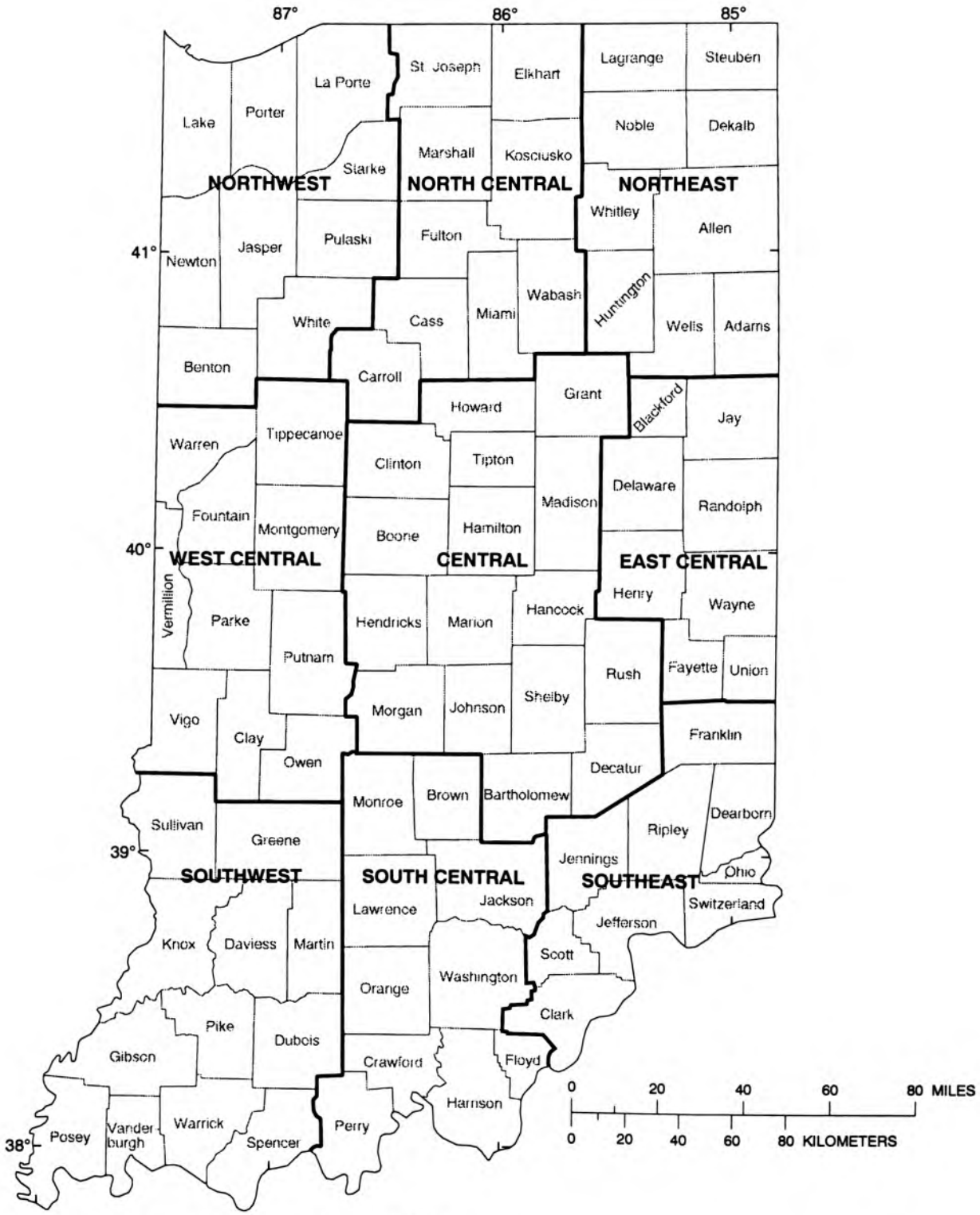
The following organizations aided in collecting records: The cities of Carmel, Columbus, Elkhart, Fort Wayne, Indianapolis, and Hoosier Energy; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Company of Indiana; Container Corporation of America; Prudential Insurance Co.; Northern Indiana Public Service Co.; Sheller-Globe Corp.

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation

The 1996 water year was wetter than normal. The normal precipitation (for this discussion normal precipitation is the mean precipitation for the period 1961-90) in Indiana ranges from about 36 inches in the northeast climate division (Indiana's climate divisions are shown in figure 1) to nearly 46.5 inches in the south-central climate division (Pam Beneker, Assistant Indiana State Climatologist, written commun., 1996). Total precipitation for the 1996 water year was higher than normal in all Indiana climate divisions (figure 2). The greatest departure from normal was in the south climate divisions, where 1996 water year precipitation totals were from 5 to 12 inches above normal.

The wettest months of the 1996 water year were January, April, May, and June. January had greater than normal precipitation in all climate divisions except for the northwest and north-central (table 1). In April, the three south climate divisions had precipitation greater than 200 percent of normal. Precipitation in May was greater than 170 percent of normal for all climate divisions. June precipitation varied by climate division from 110 to 153 percent of normal. The driest month was August. All climate divisions had below normal precipitation in August, varying from 19 percent of normal in the east-central to 78 percent of normal in the northeast.



Base from U.S. Geological Survey digital data, 1:2,000,000, 1996
Albers Equal Area projection
Standard parallels 29°30' and 45° 30' central meridian -96°

EXPLANATION

Climate division boundaries

Figure 1.--Climate divisions in Indiana.

(Data from National Oceanic and Atmospheric Administration, 1994.)

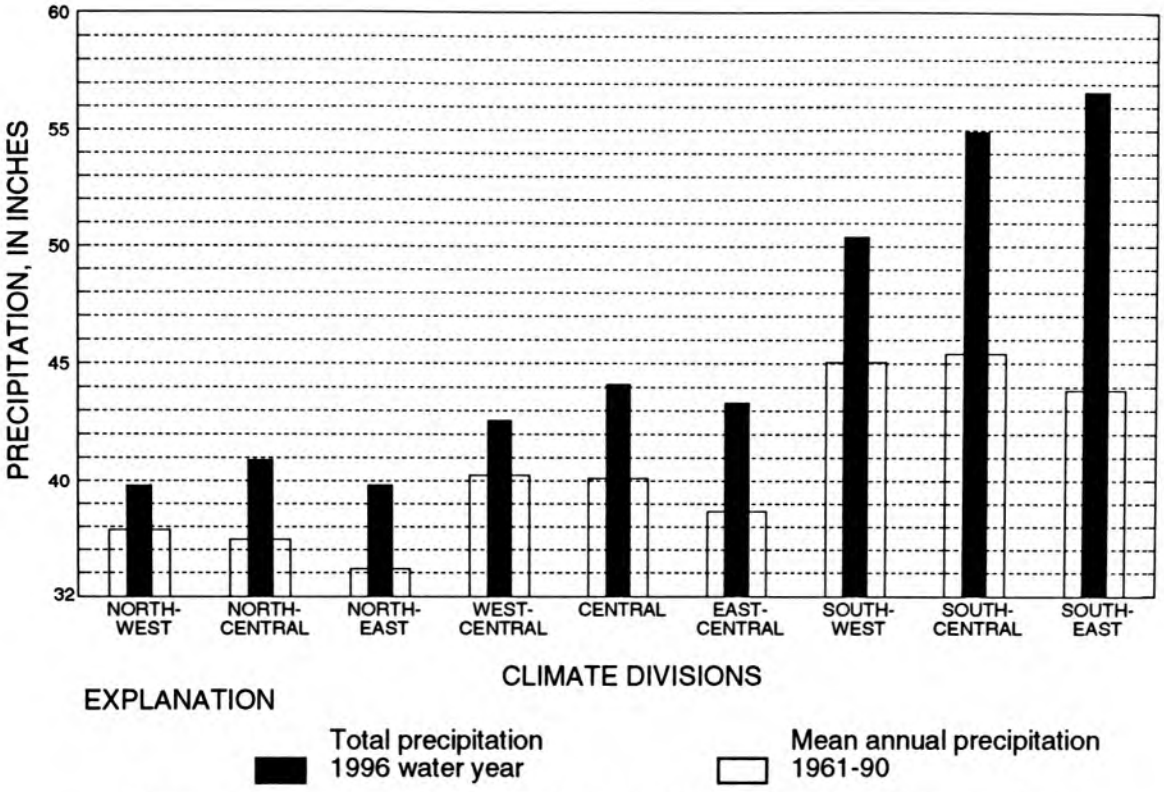


Figure 2.--Indiana precipitation during 1996 water year and mean annual precipitation for period 1961-90

Table 1.--Monthly precipitation during water year 1996 as a percentage of mean monthly precipitation for the period 1961-90

Climate Division	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Northwest	115	118	28	69	56	33	105	180	146	202	49	75
North-central	127	107	34	97	64	49	108	171	138	192	63	98
Northeast	140	98	36	126	81	57	117	193	153	127	78	81
West-central	99	80	68	149	53	76	162	189	129	86	42	112
Central	101	74	64	163	57	77	177	198	118	99	27	150
East-central	139	81	58	193	70	75	172	173	110	107	19	156
Southwest	60	65	86	146	43	86	234	159	149	83	40	172
South-central	82	67	116	183	53	98	238	181	143	77	33	173
Southeast	130	56	110	170	65	108	226	214	153	96	42	164

Surface Water

The precipitation patterns for the 1996 water year are reflected in the record of discharge from three surface-water index gaging stations. The three index station are Mississinewa River at Marion (03326500), East Fork White River at Shoals (03373500), and Wabash River at Mount Carmel, Illinois (03377500).

The index station Mississinewa River at Marion is located in Randolph County (the locations of all Indiana surface-water stations, including the index stations, are shown in figure 5), in the east-central climate division. The drainage area above this station is 682 square miles. Mean monthly discharges at this station for the 1996 water year were greater than normal (for this discussion normal is the median discharge for the period 1961-90) for the months of January, April, May, June, and July (figure 3). October and November monthly discharges were near normal. December, August, and September mean discharges were below normal. The mean discharge for the 1996 water year was slightly above normal, reflecting the wetter than normal water year in central Indiana.

The East Fork White River at Shoals index station is located in Martin County within the southwest climate division. The East Fork White River drains 4,927 square miles above the station. For the 1996 water year, all months except for October, November, December, and February had above normal mean discharges (figure 3). The mean discharge in May was nearly five times the normal, due to much greater than normal precipitation in April and May. February was the driest month in the south climate divisions, and this is reflected in the below normal mean discharge. The relatively wet year in southern Indiana produced a greater than normal mean discharge for the 1996 water year.

The index station Wabash River at Mount Carmel is located in Illinois, adjacent to Gibson County of Indiana. It is in the same climate division, the southwest, as the index station East Fork White River at Shoals. The drainage area of the Wabash River at this location is 28,635 square miles, and includes a large portion of Indiana. As a result, it is affected by precipitation patterns over portions of northern, central, and southern Indiana. The wettest months of the year over most of Indiana were also months of above normal mean discharge. The exception is April, which had a below normal discharge (figure 3). The two months preceding April had mean discharges that were considerably below normal. The effects of the greater than normal April and May precipitation is reflected in the mean discharge for May, which was more than three times greater than normal. Even though August was a dry month over all of Indiana, a higher than normal discharge occurred because the three preceding months were among the wettest of the 1996 water year. The Wabash River at Mount Carmel station takes longer to respond to variations in precipitation than the other two index station due to its large drainage area. The mean discharge for the 1996 water year was greater than normal due to the relatively wet year over all of Indiana.

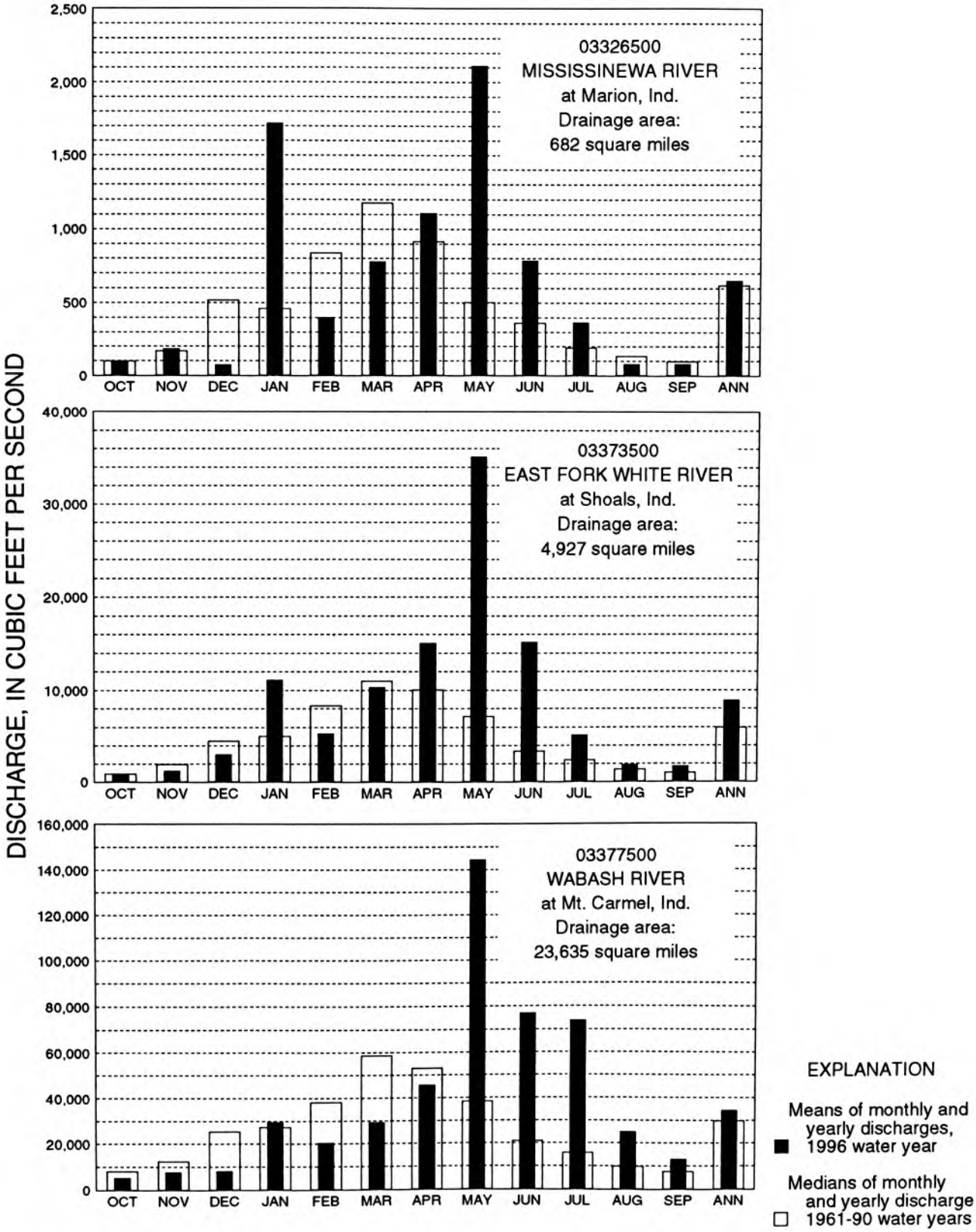


Figure 3. --Mean discharge at Indiana index stations during 1996 water year and median discharges for period 1961-90

Ground Water

Changes in ground-water levels are produced by natural influences such as precipitation and by man-made causes such as ground-water withdrawals. Generally, in Indiana, ground-water levels follow a fairly consistent seasonal pattern, reaching annual high levels in late April or early May, and then beginning a slow but continuous decline throughout the summer. In the fall ground-water levels begin to rise with increasing precipitation and reductions in evapotranspiration. (Clark, 1980).

This seasonal pattern is generally followed over a relatively long period in three index ground-water observation wells in Indiana. The three wells are designated Decatur 2, Martin 5, and Elkhart 4. While the seasonal water level pattern is generally followed in the long term, levels can diverge significantly from the pattern in a given year.

The observation well Decatur 2 is located in a Devonian brown limestone aquifer, in the central climate division. Generally, 1996 ground-water levels (in this discussion the term ground-water level(s) will refer to a height above an arbitrary datum; however, ground-water level data is normally quantified in terms of distance below a land-surface datum) were lower than normal (normal refers for ground-water level data for the period 1985-94) (figure 4). The two months where levels were above normal were May and June. May and June were the wettest months in the central climate division. The mean level for the water year was slightly below normal. Ground-water levels in this well during the 1996 water year followed the normal seasonal pattern described above.

Martin 5 is located in a Pennsylvanian rock aquifer in the southwest climate division of Indiana. The 1996 water year ground-water levels were lower than normal for the period December through April, and higher than normal for the remaining months (figure 4). The highest levels occurred in July and August, following the three wettest months of the water year in southern Indiana. The general seasonal pattern of ground-water wells was followed during 1996.

The index observation well Elkhart 4 is located in the north-central climate division, in a Pleistocene sand and gravel aquifer. Ground-water levels were below normal for the period October through June (figure 4). Levels were fairly constant through April, then rose in May, June, and July. This rise was indicative of ground-water recharge during the wettest period of the water year in the north. Levels dropped in August and September, but were nearly normal. The annual mean level was lower than normal due to lower than normal levels for the first eight months of the water year.

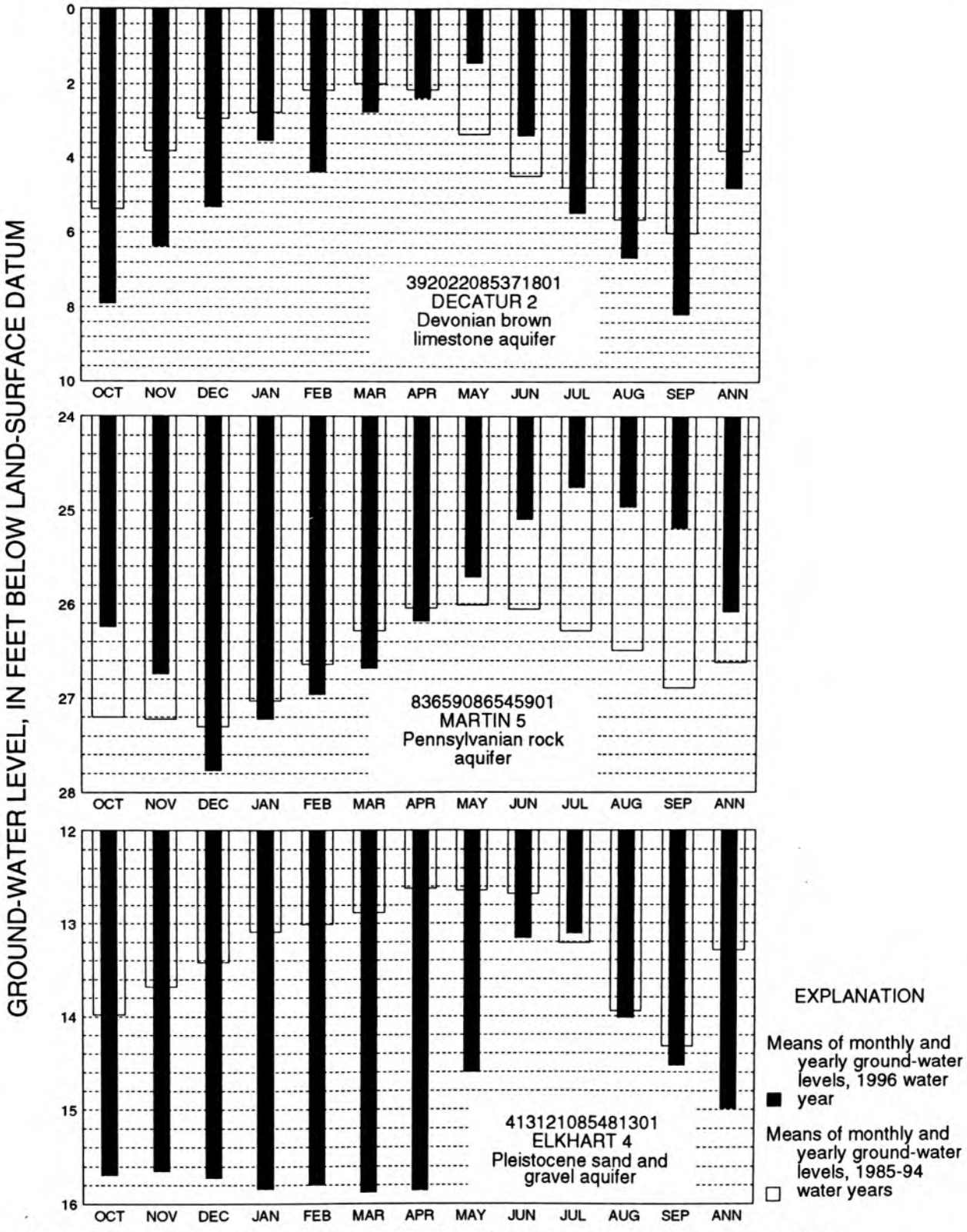


Figure 4.--Monthly and yearly mean of daily minimum ground-water levels at three Indiana ground-water observation wells during the 1996 water year and mean of monthly and yearly minimum ground-water levels for the period 1985-94

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO2 and NOx scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.nrel.colostate.edu/NADP

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

Additional data from the Lake Erie-Lake St. Clair study is available through the world wide web at:

http://www-oh.er.usgs.gov/nawqa.index.html

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1996 water year that began October 1, 1995, and ended September 30, 1996. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow and stage data, stage and content data for a reservoir, water-quality data for surface water, and ground water, lake-level data, peak-flow data, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and for surface-water stations where only miscellaneous measurements are made; the "latitude-longitude" system is used for wells.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in U.S. Geological Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. 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." The Part number designates the major river basin; for example, Part "03" is the Ohio River basin.

Records in this report are in Part 03 (Ohio River basin), Part 04 (St. Lawrence River basin), and Part 05 (Upper Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

In addition, each well in Indiana carries dual-identification numbers. The second system is by 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.

Records of Surface-Water Stage and Discharge

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relations between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage, with digital recorders that punch stage values on paper tapes at selected time intervals, or with data collection platforms that store stage data electronically. Measurements of discharge are made with current meters or acoustic flow meters using methods adopted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chap. A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) Logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the instantaneous stages (gage heights) to the stage-discharge curves or tables and then assigning the arithmetic mean. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the 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.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM

sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of that monthly mean flow data for a designated period, by water year; and a summary statistics table includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages were determined by methods given in "River Mileage Measurement," Bulletin 14, revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because for these stations there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised

after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would not need to be check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month. the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are gives. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minium monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____ - ____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS ____ - ____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water year for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the handing. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for seven consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-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 cubic meters.

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

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "Estimated," or by listing the dates of the estimated record in the "REMARKS" paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges 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 diversions, for changes in contents of reservoirs, or 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 Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Indiana District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the Indiana District Office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling usually is less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of cost, most data are obtained monthly or less frequently.

Records of surface-water quality in this report are for continuing-record stations and miscellaneous sampling sites. These stations are part of a cooperative agreement with Montgomery County Commissioners or the National Water-Quality Assessment Program (NAWQA). Locations of stations for which records on the quality of surface water appear in this report are shown on figures 5, 6 and 7.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Water-quality records collected at the miscellaneous sampling sites are published in tables following the surface-water records.

On-site Measurements and Sample Collection

The major concern in obtaining water-quality data is assuring that the data represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, specific conductance, alkalinity, and dissolved oxygen, are made on-site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time only if the mixture of solutes and sediment throughout the stream cross section is homogeneous. However, the concentration of solutes and sediment at different locations in the cross section can vary widely with different rates of water discharge, depending on the sources of the solutes and sediment, the turbulence and mixing of the stream, and other factors. Most streams must be sampled through several vertical sections using a depth-integrating sampler to obtain a representative sample. All samples obtained for the National Water-Quality Assessment Program and the Montgomery County agreement are obtained from at least several verticals.

NOTE: In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Correct sulfate values have been made by the laboratory and published in this report since April 17, 1989.

Laboratory Measurements

Specific conductance, pH, air and water temperatures, dissolved oxygen, barometric pressure, and alkalinity are measured on-site. Fecal coliform and fecal streptococci bacteria are analyzed in the Indiana District laboratory. Suspended sediment and particle-size distribution are analyzed in the U.S. Geological Survey laboratory in Louisville, Kentucky. All other samples are analyzed in the U.S. Geological Survey National Water-Quality Laboratory in Arvada, Colorado. Methods used to analyzing sediment samples and to compute sediment records are described in the TWRI Book 5, Chap. C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, and type of data available.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See "Data Presentation" under "Records of Stage and Water Discharge."

DRAINAGE AREA.--See "Data Presentation" under "Records of Stage and Water Discharge."

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S.Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted.)
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols took place during the 1995 water year.

Change in National Trends Network procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Records of Lake Levels

Water-level data from a network of lake gaging stations are given in this report. These data are intended to provide a historical record of water-level changes in lakes where established average legal levels have been designated by the State. Numbers of lakes by county having current water-level records are shown on figure 8.

Data Collection and Computation

Measurements of water levels are made under varying conditions, but the methods are standardized to the extent possible. The equipment and measuring techniques used at each lake gage will ensure that the measurements are of consistent accuracy and reliability.

Tables of water-level data are presented by lake names arranged in alphabetical order. The prime identification number for a given lake is the "downstream-order" number previously discussed in this report and appears to the left of the lake name.

Lake-level records are obtained from direct measurement with a steel tape, from observation of steel staff gages, or from punched tape in a water-stage recorder. The water-level measurements in this report are given in feet above gage datum. Gage datum is a datum plane above the National Geodetic Vertical Datum of 1929. Water levels are reported to one-hundredth of a foot.

Data Presentation

Each lake record consists of two parts, the station description, and the data table of water levels observed during the year. The description of the lake gage is presented first through use of descriptive headings preceding the tabular data. Comments that follow clarify information presented under the various headings.

LOCATION.--See "Data Presentation" under "Records of Stage and Water Discharge."

SURFACE AREA.--This entry specifies the surface area of the lake at it's established legal level.

DRAINAGE AREA.--See "Data Presentation" under "Records of Stage and Water Discharge."

PERIOD OF RECORD.--This entry indicates the periods for which lake-level records at the site have been collected.

DATUM OF GAGE.--This entry indicates the datum of the current gage referred to sea level (see glossary).

GAGE.--The type of gage in current use and a condensed history of the types, locations, and datums of previous gages are given under this heading.

ESTABLISHED LEGAL LEVEL.--This entry indicates the average level in feet above gage datum and sea level at which the lake is to be maintained, the data of decree, and court specifying the decreed level.

LAKE-LEVEL CONTROL.--This entry indicates the type of structure used to maintain the lake level.

INLET AND OUTLET.--This entry, if appropriate, describes where surface inflow comes into the lake and where outflow departs. Some lakes may have neither inlets, outlets, nor both; in such cases parts or all of this heading may not appear.

EXTREMES FOR PERIOD OF RECORD.--Extremes include maximum and minimum levels and the dates of occurrence.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

A table of water levels follows the station description for each lake gage. Water levels are reported in feet above gage datum. Only abbreviated tables are published; water-levels at midnight (2400) are listed for every fifth day and at the end of the month (EOM). The highest and lowest 2400 levels with dates of occurrence and mean of the water year are shown on a line below the abbreviated table. Because all values are not published, the extremes may be values not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Levels

Only water-level data from a representative network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the State's most important aquifers. Locations of the observation wells in this network in Indiana are shown on figure 9.

Data Collection and Computation

Measurements of water levels 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 ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number.

Water-level records are obtained from direct measurements with a steel tape or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels 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 one-hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to one-hundredth of a foot, but some are given to one-tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments that follow clarify information presented under the various headings of the well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds), a landline location designation, the hydrologic-unit number, the distance and direction from a geographic point of reference, and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells and may be used to acknowledge the assistance of local (non-U.S. Geological Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available but are not published by the U.S. Geological Survey may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

Tables of water levels follow the station description for each well. Water levels are reported in feet below land-surface datum. Only abbreviated tables are published; water-level highs and lows are listed for every fifth day and at the end of the month (EOM). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated tables. Because all values are not published, the extremes may be values that are not listed in the tables. Missing records are indicated by dashes in place of the water level. A hydrograph for a selected period of record follows water-level tables for selected stations.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that they consist of only one set of measurements for the water year. Ground-water quality is sampled immediately after installation and development of a new observation well. As new observation wells are usually installed late in the water year, records of ground-water quality are typically published in the first water year with complete records for ground-water levels.

Sample Collection and Analysis

Measurements of specific conductance, pH, water temperature, dissolved oxygen, and alkalinity are measured on-site. Other constituents and properties are analyzed in the U.S. Geological Survey National Water-Quality Laboratory in Arvada, Colorado. Methods used in collecting and analyzing ground-water-quality samples are given in TWRI, Book 1, Chap. D2, and Book 5, Chap. A1.

Data Presentation

Records of ground-water quality immediately follow records of ground-water levels.

ACCESS TO WATSTORE DATA

The U. S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National WATer Data STOrage and REtrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia and consists of related files and data bases.

★ Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S.Geological Survey collects or has collected data.

★ Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

★ Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow gage-heights values at surface-water sites.

★ Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface- and ground-water.

★ Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 20192

DEFINITION OF TERMS

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

Acre-foot (AC-FT, ac-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

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 that produce blue colonies within 24 hours when incubated at 44.5 °C ± 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of 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 °C ± 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Bottom material: See Bed material.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloro-platinate 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.

Control structure as used in this report is a structure on a stream, canal, or lake that is used to regulate the flow or stage or to prevent the intrusion of salt water.

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

Cubic foot per second-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, about 646,000 gallons, or 2,445 cubic meters.

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

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calender year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Dissolved refers to that material in a representative water sample which passes through a 0.45-micron (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.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more 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 hydrologic data are obtained.

Glass fiber filter (GF, GF/F) a 0.7-micrometer pore-diameter filter used to filter water samples before analyzing the sample for organic constitutes.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct 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.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Membrane filter (MF) a 0.7 micrometer pore-diameter filter used to filter water samples before analyzing the sample for fecal coliform bacteria, or a 0.45 micrometer pore-diameter filter used to filter water samples before analyzing the sample for fecal streptococcal bacteria.

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

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

Micrometer (UM/µm) is a unit expressing the pore diameter of a filter. One thousand micrometers is equivalent to one millimeter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) 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.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The U.S. Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/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 a particle 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 the recommendation 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 matter 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.

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7 x 1010 radioactive disintegrations per second (dpm). A picocurie yields 2.22 dpm.

Recoverable (REC) pertains to the constituents extracted from a representative water sample. Complete extraction generally is not achieved, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the filtered portion of the sample.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., 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.

Sea level: In this report "sea Level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: Concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow ($7\ Q^{10}$) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

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

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff," as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-µm filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of: (1) Dissolved; and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of: (1) Dissolved; and (2) total concentrations of the constituent.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1985, is called the "1985 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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

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

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1}	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride ($C1^{-1}$)	.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 3.--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 1,000 mg/L	Divide by	Range of concentration in 1,000 mg/L	Divide by	Range of concentration in 1,000 mg/L	Divide by	Range of concentration in 1,000 mg/L	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05 - 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-508	1.31	700-715	1.44
88.5 - 104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 - 120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 - 136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 - 152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 - 169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 - 185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 - 200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 mg/L and a specific gravity of sediment of 2.65.

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to 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.

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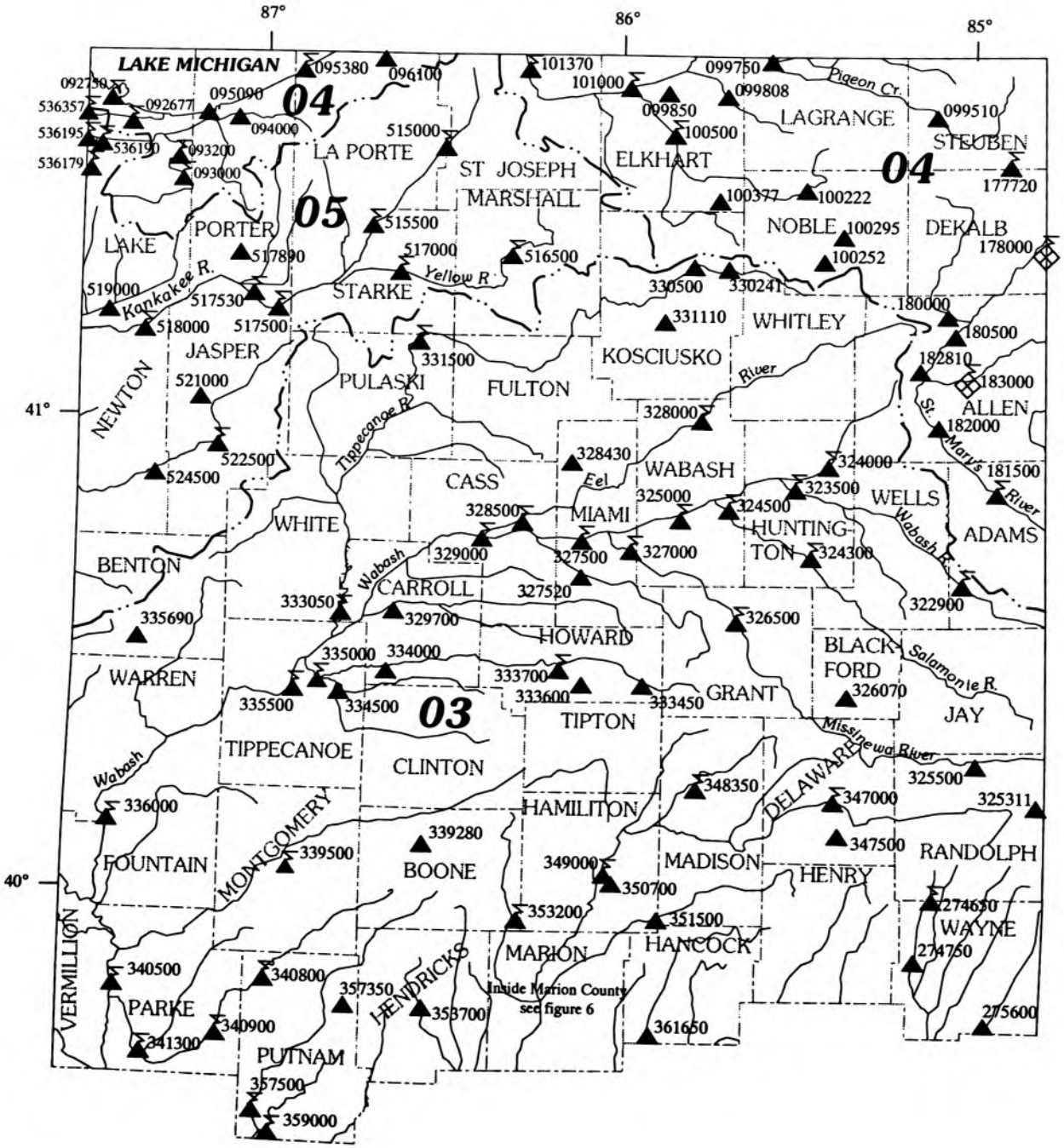
87°
86°
85°
41°
40°
LAKE MICHIGAN
04
05
03
LA PORTE
PORTER
LAKE
JASPER
NEWTON
PULASKI
STARKE
MARSHALL
ST JOSEPH
ELKHART
LAGRANGE
STEUBEN
NOBLE
DEKALB
KOSCIUSKO
WHITLEY
ALLEN
FULTON
CASS
WABASH
WELLS
ADAMS
HUNTINGTON
MIAMI
WHITE
BENTON
CARROLL
HOWARD
TIPTON
GRANT
BLACKFORD
JAY
WARREN
TIPPECANOE
CLINTON
HAMILTON
DELAWARE
RANDOLPH
FOUNTAIN
MONTGOMERY
BOONE
MADISON
HENRY
WAYNE
VERMILLION
PARKE
PUTNAM
HENDRICKS
MARION
HANCOCK
Inside Marion County see figure 6
Kankakee R.
Yellow R
Tippecanoe R
Eel
Wabash
Wabash R.
St. Mary's River
Pigeon Cr.
Salamonie R.
Mississinewa River
095380
096100
101370
101000
099750
099808
099850
100500
099510
177720
100377
100222
100295
100252
178000
180000
180500
182810
183000
182000
181500
330500
330241
331110
331500
328000
328430
324000
323500
325000
324500
324300
328500
329000
327500
327000
327520
322900
326500
333050
329700
335690
335000
334000
333700
333600
333450
326070
335500
334500
325500
348350
347000
325311
336000
339280
339500
349000
347500
350700
353200
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359000

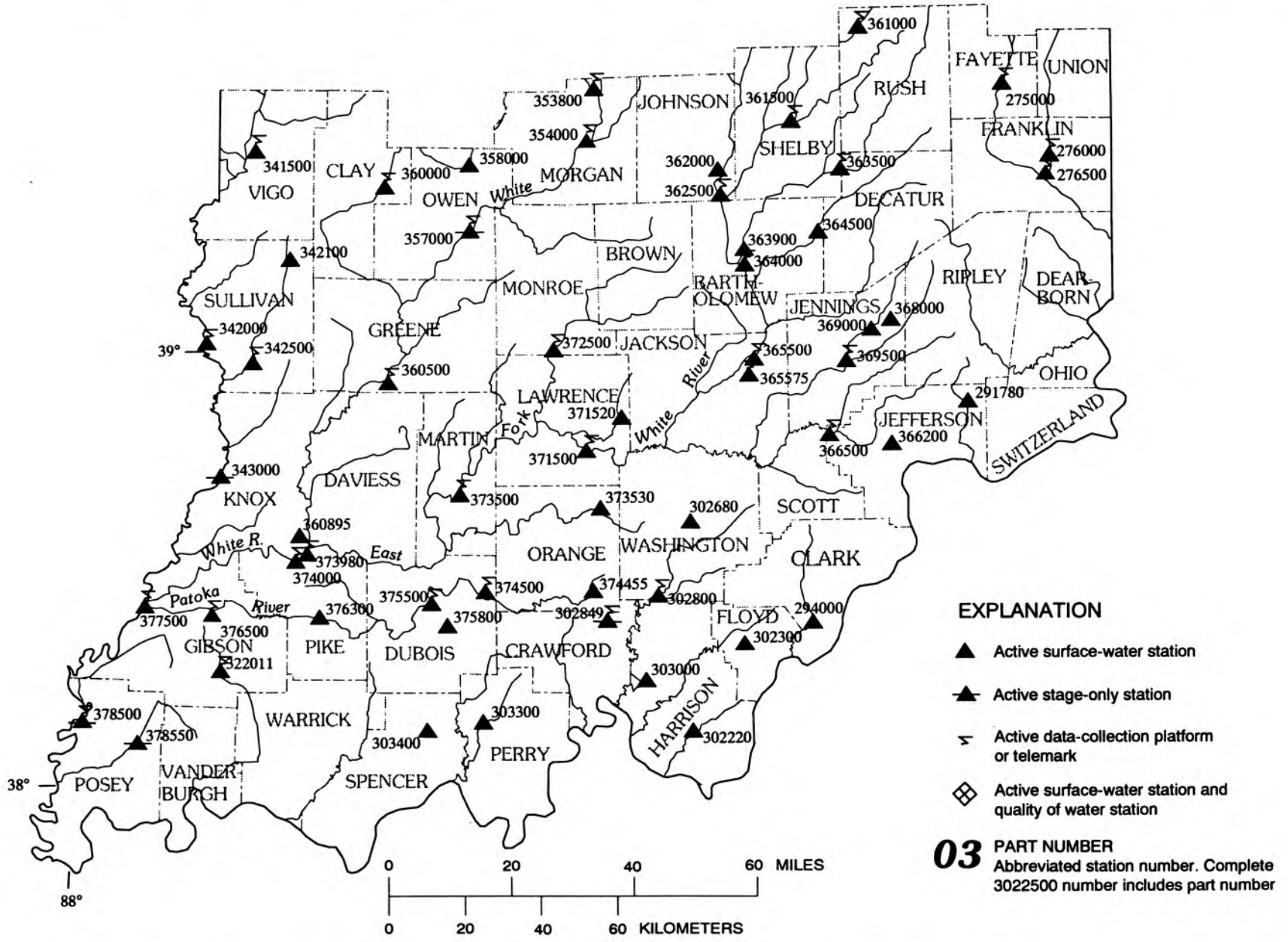


Figure 5.--Locations of streamflow and water-quality gaging stations in Indiana.

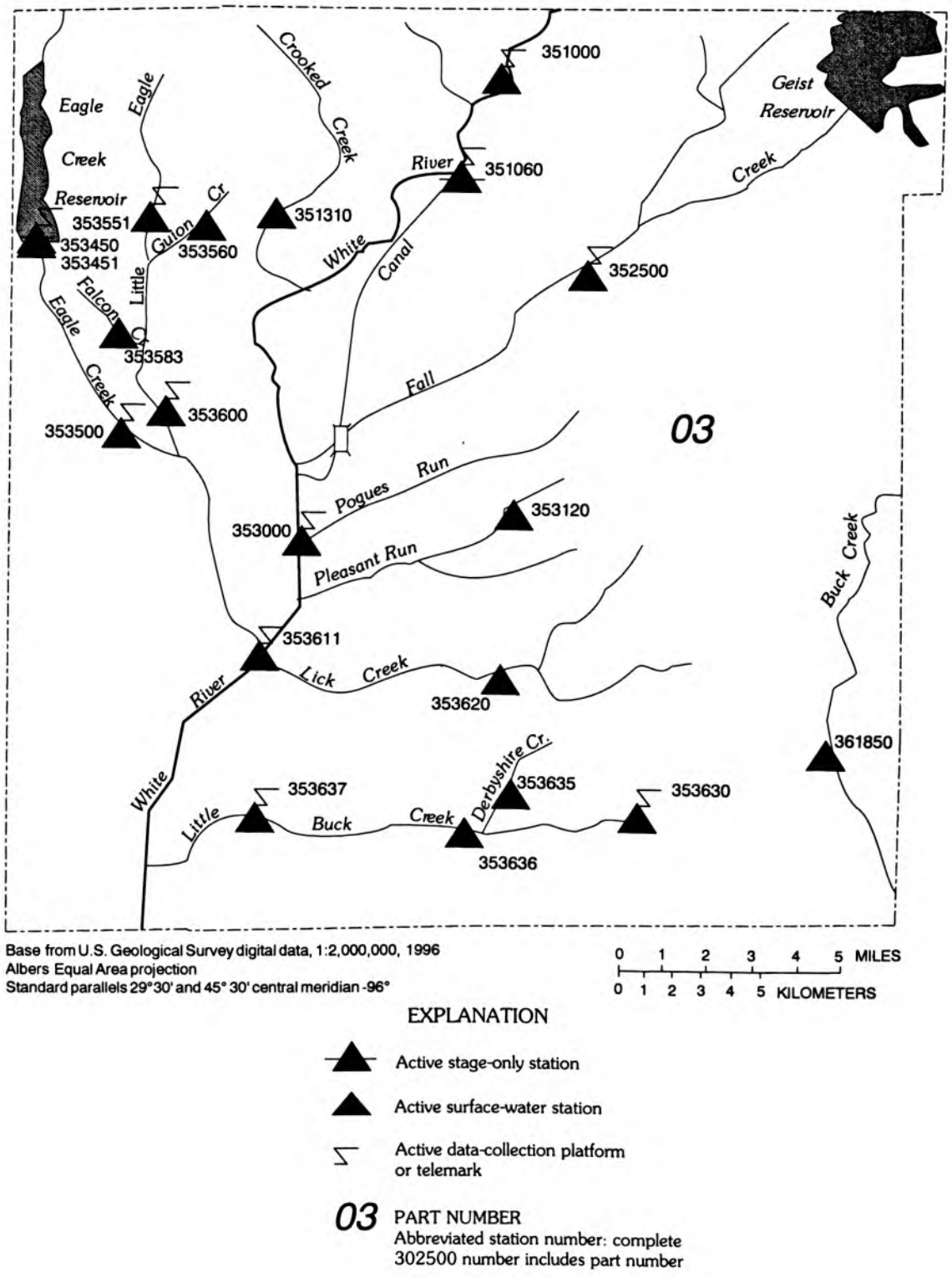


Figure 6.--Locations of streamflow gaging stations in Marion County.

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 15 ft downstream from bridge on Wayne County Line Road, 1.7 mi upstream from Little Creek, 2.4 mi northwest of Economy, and at mile 91.9.
DRAINAGE AREA.--10.4 mi².
PERIOD OF RECORD.--October 1970 to current year.
GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft above sea level.
REMARKS.--Records good except for the period of Apr. 16, 1996 to June 10, 1996, which is fair and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	1.3	1.1	1.9	e6.8	22	53	55	17	4.0	1.7	1.5
2	.99	1.7	1.1	4.3	e6.0	18	22	40	15	4.0	1.8	1.5
3	1.4	1.7	1.1	6.4	e5.4	15	15	34	14	3.7	1.8	1.5
4	1.4	1.5	1.1	5.4	e4.9	9.3	12	153	14	3.6	1.8	1.5
5	2.1	1.3	1.0	e3.0	e4.7	11	9.7	155	12	3.5	1.9	1.4
6	2.2	1.3	1.0	e2.6	e4.5	19	9.1	81	12	3.3	1.9	1.4
7	1.8	1.7	1.0	e2.4	e4.4	14	8.4	49	14	3.2	2.0	1.5
8	1.4	1.9	.97	e2.2	7.7	9.4	7.6	197	15	3.1	2.0	2.5
9	1.3	1.7	e.92	e2.1	9.7	7.0	7.1	136	42	3.0	2.1	5.5
10	1.3	1.5	e.86	e2.0	8.2	6.2	6.2	86	30	2.7	2.1	.96
11	1.2	8.5	e.84	e1.9	7.9	6.1	6.0	115	39	2.6	2.1	.79
12	1.1	7.1	e.83	e1.8	5.5	6.2	5.7	54	35	2.5	2.0	.77
13	1.1	3.6	e.82	e1.8	5.0	6.1	5.8	47	17	2.4	2.0	.77
14	1.0	2.6	1.1	e1.8	5.2	6.3	5.7	37	16	2.4	2.0	.77
15	1.0	2.0	1.2	e1.7	4.5	7.0	6.2	33	17	2.6	2.0	.77
16	.98	1.7	1.0	2.7	4.1	6.3	6.0	36	12	2.4	2.1	1.9
17	.97	1.6	.95	210	3.9	6.1	5.0	31	10	2.2	2.0	2.7
18	.96	1.7	1.3	311	3.8	5.5	5.1	25	9.6	4.1	1.9	1.1
19	.96	1.6	3.1	184	3.7	7.5	6.5	21	8.7	2.9	1.8	.83
20	1.2	1.4	4.1	43	3.9	14	47	18	9.7	2.3	1.8	.77
21	1.3	1.4	2.8	31	3.9	15	20	17	8.3	4.6	1.8	.86
22	1.3	1.4	2.1	26	4.4	13	20	15	7.4	15	1.8	1.5
23	1.2	1.3	1.8	79	6.0	12	309	14	6.6	5.8	2.3	1.2
24	1.1	1.3	e1.6	114	6.6	73	99	21	6.6	3.4	2.5	.90
25	1.1	1.2	e1.4	36	5.8	94	45	23	6.5	2.5	2.0	.79
26	1.1	1.2	e1.3	28	6.6	29	36	18	5.6	2.1	1.8	.77
27	1.2	1.2	e1.2	e20	142	20	28	119	5.0	1.8	1.8	9.1
28	1.2	1.3	e1.2	e14	81	17	31	60	4.7	1.7	1.7	27
29	1.2	1.1	e1.2	e11	30	15	395	60	4.4	1.7	1.7	8.4
30	1.1	1.1	e1.2	e8.8	---	13	147	36	4.1	1.9	1.6	3.1
31	1.2	---	e1.1	e7.5	---	13	---	24	---	2.6	1.5	---
TOTAL	38.27	59.9	42.29	1167.3	396.1	516.0	1379.1	1810	418.2	103.6	59.3	84.05
MEAN	1.23	2.00	1.36	37.7	13.7	16.6	46.0	58.4	13.9	3.34	1.91	2.80
MAX	2.2	8.5	4.1	311	142	94	395	197	42	15	2.5	27
MIN	.91	1.1	.82	1.7	3.7	5.5	5.0	14	4.1	1.7	1.5	.77
CFSM	.12	.19	.13	3.62	1.31	1.60	4.42	5.61	1.34	.32	.18	.27
IN.	.14	.21	.15	4.18	1.42	1.85	4.93	6.47	1.50	.37	.21	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	3.83	11.4	12.7	13.2	18.4	20.4	18.8	14.2	8.55	7.12	4.86	3.34
MAX	39.9	67.0	39.7	37.7	56.0	41.6	46.0	58.4	22.4	27.5	61.5	32.2
(WY)	1987	1994	1978	1996	1985	1978	1996	1996	1973	1979	1979	1989
MIN	.46	.45	.51	.33	3.31	2.58	2.96	1.47	1.03	.57	.41	.40
(WY)	1992	1972	1977	1977	1978	1981	1971	1988	1977	1977	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	2659.82		6074.11			
ANNUAL MEAN	7.29		16.6		11.4	
HIGHEST ANNUAL MEAN					18.8	1979
LOWEST ANNUAL MEAN					3.26	1977
HIGHEST DAILY MEAN	385	May 19	395	Apr 29	647	Nov 14 1993
LOWEST DAILY MEAN	.50	Sep 5	.77	Sep 12	.22	Sep 1 1988
ANNUAL SEVEN-DAY MINIMUM	.56	Sep 5	.89	Dec 7	.24	Nov 9 1991
INSTANTANEOUS PEAK FLOW			667	Apr 29	1120	Nov 14 1993
INSTANTANEOUS PEAK STAGE			7.61	Apr 29	8.91	Nov 14 1993
ANNUAL RUNOFF (CFSM)	.70		1.60		1.09	
ANNUAL RUNOFF (INCHES)	9.51		21.73		14.85	
10 PERCENT EXCEEDS	12		36		25	
50 PERCENT EXCEEDS	2.3		3.6		3.9	
90 PERCENT EXCEEDS	.79		1.1		.76	

e Estimated

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 right bank at upstream side of bridge on Jerry Meyers Road, 1.0 mi upstream from Pronghorn Run, 1.5 mi north of Interstate 70, 2.0 mi downstream from Nettle Creek, 2.6 mi south of Hagerstown, and at mile 84.9.
DRAINAGE AREA.--58.7 mi².
PERIOD OF RECORD.--October 1970 to current year.
GAGE.--Water-stage recorder. Datum of gage is 950.00 ft above sea level (Indiana Flood Control and Water Resources Commission bench mark).
REMARKS.--Records poor. Gage was removed for bridge construction from Aug. 7, 1995 through Aug. 23, 1996, estimated daily discharges for this period are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	e12	e15	e20	e58	e92	e320	e600	e150	e49	e28	e16
2	e14	e13	e15	e44	e51	e71	e270	e420	e130	e48	e26	e16
3	e16	e15	e15	e33	e45	e56	e140	e370	e120	e46	e26	e16
4	e17	e16	e15	e26	e40	e48	e110	e900	e140	e43	e26	e16
5	e38	e15	e14	e23	e39	e53	e90	e820	e120	e42	e26	e16
6	e28	e14	e14	e21	e37	e120	e80	e640	e125	e41	e26	e16
7	e19	e15	e14	e20	e37	e120	e72	e450	e280	e40	e26	e16
8	e15	e17	e14	e19	e40	e84	e64	e960	e500	e40	e26	e17
9	e14	e16	e12	e19	e62	e56	e58	e860	e820	e39	e26	e28
10	e12	e20	e12	e19	e56	e50	e55	e500	e280	e37	e25	e18
11	e12	e76	e11	e18	e50	e45	e52	e790	e420	e36	e25	e16
12	e11	e63	e11	e19	e45	e43	e50	e450	e620	e36	e25	e16
13	e11	e44	e12	e18	e42	e42	e50	e320	e400	e36	e25	e16
14	e11	e33	e12	e18	e42	e55	e48	e260	e250	e35	e26	e15
15	e11	e28	e14	e19	e39	e100	e46	e490	e330	e35	e38	e16
16	e11	e25	e13	e20	e36	e74	e45	e510	e220	e35	e28	e38
17	e10	e24	e14	e250	e35	e58	e43	e260	e150	e36	e22	e34
18	e10	e22	e20	e1700	e35	e54	e41	e200	e150	e46	e18	e21
19	e11	e21	e50	e1200	e35	e70	e58	e170	e230	e42	e18	e19
20	e12	e21	e45	e580	e36	e170	e215	e150	e170	e37	e18	e18
21	e12	e20	e37	e260	e37	e150	e200	e140	e130	e38	e17	e17
22	e12	e19	e31	e200	e38	e130	e100	e130	e100	e44	e18	e22
23	e11	e18	e26	e250	e42	e110	e800	e120	e84	e41	e19	e19
24	e11	e18	e23	e650	e44	e170	e900	e120	e90	e40	e19	e18
25	e11	e17	e21	e300	e45	e510	e470	e160	e74	e41	e19	e17
26	e11	e17	e19	e180	e50	e250	e320	e250	e64	e32	e18	e17
27	e11	e16	e17	e150	e700	e130	e210	e550	e59	e30	e18	e24
28	e12	e16	e16	e120	e340	e105	e270	e520	e54	e29	e18	e40
29	e12	e16	e15	e100	e180	e100	e1800	e400	e53	e29	e17	e35
30	e11	e16	e15	e82	---	e95	e1600	e300	e50	e28	e17	e27
31	e11	---	e16	e67	---	e90	---	e210	---	e36	e16	---
TOTAL	420	683	578	6445	2336	3301	8577	13020	6363	1187	700	620
MEAN	13.5	22.8	18.6	208	80.6	106	286	420	212	38.3	22.6	20.7
MAX	38	76	50	1700	700	510	1800	960	820	49	38	40
MIN	10	12	11	18	35	42	41	120	50	28	16	15
CFSM	.23	.39	.32	3.54	1.37	1.81	4.87	7.16	3.61	.65	.38	.35
IN.	.27	.43	.37	4.08	1.48	2.09	5.44	8.25	4.03	.75	.44	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	29.8	57.9	73.6	77.0	99.9	113	114	94.7	61.7	50.6	37.8	24.9
MAX	188	235	205	208	233	224	286	420	212	219	312	121
(WY)	1987	1994	1978	1996	1975	1973	1996	1996	1996	1979	1979	1989
MIN	11.6	12.1	12.0	8.48	23.0	25.6	28.0	23.0	14.6	8.18	8.56	8.37
(WY)	1977	1977	1977	1977	1995	1981	1971	1988	1977	1977	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	15931.6		44230			
ANNUAL MEAN	43.6		121		69.5	
HIGHEST ANNUAL MEAN					121	1996
LOWEST ANNUAL MEAN					25.4	1977
HIGHEST DAILY MEAN	1200	May 19	1800	Apr 29	1880	Feb 23 1975
LOWEST DAILY MEAN	6.9	Jan 7	10	Oct 17	5.3	Aug 5 1977
ANNUAL SEVEN-DAY MINIMUM	7.1	Jan 4	11	Oct 12	5.9	Jul 31 1977
INSTANTANEOUS PEAK FLOW			Unknown		2310	Jul 23 1992
INSTANTANEOUS PEAK STAGE			Unknown		11.52	Nov 14 1993
ANNUAL RUNOFF (CFSM)	.74		2.06		1.18	
ANNUAL RUNOFF (INCHES)	10.10		28.03		16.08	
10 PERCENT EXCEEDS	76		320		128	
50 PERCENT EXCEEDS	24		38		37	
90 PERCENT EXCEEDS	11		14		14	

e Estimated

03275000 WHITEWATER RIVER NEAR ALPINE, IN

(Former National stream-quality accounting network station)

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 downstream from highway bridge, 0.4 mile downstream from Wilson Creek, 1.6 mile northeast of Alpine, 4.6 mile upstream from Bear Creek, and at mile 54.3.
DRAINAGE AREA.--529 mi².
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. WDR IN-79-1: 1975 (P).
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 750.19 ft above sea level. Prior to Nov. 9 1928, nonrecording gage at same site and datum. Oct. 1, 1982 to June 30, 1993, at site 0.5 mile upstream at same datum.
REMARKS.--Records good except for estimated daily dischages, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	127	154	211	537	874	3250	5290	1360	427	289	136
2	96	154	152	272	e450	669	2620	3830	1140	408	277	134
3	105	164	151	258	e400	517	1380	3490	1030	385	269	134
4	114	182	151	e220	e370	434	1070	8400	1310	366	261	134
5	444	168	148	e200	e350	436	870	7020	983	355	255	133
6	286	159	144	e190	e340	836	745	6280	1070	341	249	131
7	208	173	144	e180	e330	1240	664	4010	1700	333	244	131
8	168	172	141	e170	e350	702	599	6440	3670	332	241	131
9	153	174	139	e165	e400	521	552	7180	7180	326	236	136
10	143	167	125	e160	511	441	516	4330	5870	314	230	140
11	135	322	e110	e157	513	406	482	7520	3610	303	227	136
12	132	651	e112	e154	434	389	462	4940	5230	299	225	131
13	130	422	e114	e152	374	377	456	3150	3050	295	222	129
14	126	322	e120	e150	373	373	433	2340	2010	291	219	129
15	123	274	e140	e160	356	910	416	4600	2860	300	345	126
16	123	245	138	e200	331	641	421	4680	1710	287	239	152
17	122	227	136	2820	311	522	393	2940	1290	286	163	291
18	122	218	182	7840	299	463	370	2150	1300	353	155	192
19	122	211	372	9220	305	632	374	1640	2070	359	149	165
20	132	208	369	e4500	308	1610	1900	1380	1320	311	146	154
21	133	203	336	e2500	309	1360	1550	1220	1010	321	143	158
22	130	193	295	e1600	308	1100	875	1070	817	371	151	167
23	128	187	239	e2300	328	983	5510	929	706	354	150	158
24	126	181	e210	6380	364	1430	7350	998	750	327	163	148
25	123	175	e190	3390	367	3830	3510	1420	614	345	157	149
26	123	168	e170	1770	390	2370	2510	1700	541	303	150	147
27	129	167	e150	1360	995	1260	1820	4020	502	286	152	173
28	129	165	e140	1140	3750	1010	2430	4990	476	280	148	320
29	127	161	e135	933	1610	927	10900	4260	449	290	146	299
30	126	158	e130	760	---	881	9460	2710	437	310	142	226
31	124	---	e140	620	---	813	---	1740	---	317	139	---
TOTAL	4478	6498	5377	50132	16063	28957	63888	116667	56065	10175	6282	4890
MEAN	144	217	173	1617	554	934	2130	3763	1869	328	203	163
MAX	444	651	372	9220	3750	3830	10900	8400	7180	427	345	320
MIN	96	127	110	150	299	373	370	929	437	280	139	126
CFSM	.27	.41	.33	3.06	1.05	1.77	4.03	7.11	3.53	.62	.38	.31
IN.	.31	.46	.38	3.53	1.13	2.04	4.49	8.20	3.94	.72	.44	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1996, BY WATER YEAR (WY)

MEAN	190	358	546	823	869	1006	995	776	507	363	244	177
MAX	1685	1978	2531	4409	2639	2522	2359	3763	2314	1777	2342	920
(WY)	1987	1994	1991	1937	1950	1963	1964	1996	1958	1979	1979	1989
MIN	47.1	49.8	50.6	58.9	56.9	120	122	70.0	68.9	61.1	61.3	50.3
(WY)	1935	1935	1935	1935	1935	1935	1941	1941	1934	1934	1988	1934

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1929 - 1996	
ANNUAL TOTAL	177544		369472			
ANNUAL MEAN	486		1009		570	
HIGHEST ANNUAL MEAN					1009	1996
LOWEST ANNUAL MEAN					117	1941
HIGHEST DAILY MEAN	9290	May 19	10900	Apr 29	26300	Mar 5 1963
LOWEST DAILY MEAN	96	Oct 1	96	Oct 1	30	Aug 6 1934
ANNUAL SEVEN-DAY MINIMUM	99	Sep 26	123	Dec 10	33	Aug 2 1934
INSTANTANEOUS PEAK FLOW			11900	Apr 29	37100	Jan 14 1937
INSTANTANEOUS PEAK STAGE			15.52	Apr 29	19.70	Dec 31 1990
ANNUAL RUNOFF (CFSM)	.92		1.91		1.08	
ANNUAL RUNOFF (INCHES)	12.49		25.98		14.63	
10 PERCENT EXCEEDS	886		3080		1150	
50 PERCENT EXCEEDS	240		322		276	
90 PERCENT EXCEEDS	117		132		87	

e Estimated

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

LOCATION.--Lat 39°43'59", long 84°57'35", in NE¼SW¼ sec.2, T.12 N., R.2 W., Wayne County, Hydrologic Unit 05080003, 15 ft downstream of bridge on county road at Abington, 3 mi downstream from Elkhorn Creek, 8 mi southwest of Richmond, and at mile 26.7.
DRAINAGE AREA.--200 mi².
PERIOD OF RECORD.--October 1965 to current year.
REVISED RECORDS.--WSP 2108: Drainage area. WDR IN-90-1: 1966(M), 1967-75(P), 1976-77(M), 1978-79(P), 1982(P), 1987(P), 1989(P).
GAGE.--Water-stage recorder. Datum of gage is 791.00 ft above sea level. Prior to Aug. 2, 1991 at site 250 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	38	61	e80	211	281	1510	1440	357	134	115	e31
2	17	72	58	158	199	238	777	992	335	128	91	e30
3	34	54	60	147	e180	192	503	978	391	119	78	e29
4	50	41	59	e130	e170	169	409	3350	410	113	e74	e28
5	175	36	57	e110	e160	206	351	1980	328	108	e72	e28
6	166	36	54	e100	e150	571	320	1710	442	103	e70	e27
7	69	77	53	e90	e140	490	297	964	548	100	e66	e26
8	46	63	50	e82	e150	264	277	1860	908	154	e62	e25
9	39	57	49	e76	e170	208	261	2030	1280	120	e60	e43
10	36	51	e45	e72	210	183	248	1040	925	100	e58	e37
11	33	314	e42	e68	218	171	236	3470	820	e94	e56	e30
12	32	282	e43	e66	183	168	228	1370	1580	e90	e54	e26
13	32	167	e44	e64	161	167	227	705	620	e86	e52	e27
14	31	131	e49	e62	161	169	215	530	469	e84	e52	28
15	31	113	e56	e66	152	320	212	947	409	e100	e64	27
16	31	100	54	e90	141	255	223	1000	332	80	e80	171
17	34	92	48	1620	134	215	206	574	296	80	e70	158
18	35	98	100	4660	130	189	194	478	307	157	e58	64
19	33	91	178	4550	133	298	207	400	282	128	e50	45
20	55	88	186	920	143	580	1470	365	255	96	e47	39
21	42	84	155	525	149	449	604	343	234	96	e43	47
22	34	80	129	402	155	368	431	302	215	141	e40	99
23	32	75	104	684	175	340	4240	273	201	102	e39	55
24	32	72	e90	2400	190	645	1940	330	219	94	e70	44
25	32	67	e78	789	178	1360	861	314	187	113	e54	39
26	32	66	e70	474	194	612	640	330	172	81	e43	36
27	40	69	e64	429	542	429	483	1170	161	70	e38	88
28	37	69	e58	335	1290	379	823	1060	153	67	e35	188
29	35	66	e54	288	434	387	9010	1030	147	96	e33	102
30	34	63	e52	251	---	361	3160	564	138	128	e32	71
31	35	---	e54	227	---	456	---	427	---	177	e31	---
TOTAL	1382	2712	2254	20015	6603	11120	30563	32326	13121	3339	1787	1688
MEAN	44.6	90.4	72.7	646	228	359	1019	1043	437	108	57.6	56.3
MAX	175	314	186	4660	1290	1360	9010	3470	1580	177	115	188
MIN	17	36	42	62	130	167	194	273	138	67	31	25
CFSM	.22	.45	.36	3.23	1.14	1.79	5.09	5.21	2.19	.54	.29	.28
IN.	.26	.50	.42	3.72	1.23	2.07	5.68	6.01	2.44	.62	.33	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

MEAN	78.6	180	282	273	321	373	391	349	177	164	112	57.2
MAX	615	732	929	708	901	884	1019	1049	437	773	773	242
(WY)	1987	1994	1991	1969	1975	1978	1996	1968	1996	1979	1979	1979
MIN	22.5	32.7	26.5	21.3	83.8	111	88.7	55.9	24.6	22.9	18.6	19.9
(WY)	1989	1977	1977	1977	1992	1992	1976	1976	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	67653		126910			
ANNUAL MEAN	185		347		229	
HIGHEST ANNUAL MEAN					388	1979
LOWEST ANNUAL MEAN					92.3	1977
HIGHEST DAILY MEAN	4700	May 18	9010	Apr 29	9990	Dec 30 1990
LOWEST DAILY MEAN	17	Oct 2	17	Oct 2	11	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	20	Sep 26	28	Sep 2	13	Aug 13 1988
INSTANTANEOUS PEAK FLOW			13000	Apr 29	20000	Jul 20 1969
INSTANTANEOUS PEAK STAGE			14.54	Apr 29	16.18	Jul 20 1969
ANNUAL RUNOFF (CFSM)	.93		1.73		1.15	
ANNUAL RUNOFF (INCHES)	12.58		23.61		15.59	
10 PERCENT EXCEEDS	377		821		458	
50 PERCENT EXCEEDS	98		132		113	
90 PERCENT EXCEEDS	27		35		34	

e Estimated

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 upstream from bridge on State Highway 101, at Brookville, 0.4 mi downstream from Brookville Lake, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--380 mi².

PERIOD OF RECORD.--March 1954 to 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 above sea level. Prior to May 22, 1954, nonrecording gage site 100 ft downstream at datum 2.00 ft higher. May 22, 1954 to Aug. 20, 1965, water-stage recorder at site 165 ft downstream at datum 2.00 ft higher. Aug. 21, 1965 to Sept. 30, 1981, water-stage recorder at same site and datum. Data Collection Platform with water temperature probe since Nov. 5, 1986.

REMARKS.--Flow regulated by The U.S. Army Corps of Engineers from Brookville Lake since January 1974.

COOPERATION.--Records of Daily discharge provided by U.S. Army Corps. of Engineers beginning Oct. 1, 1991.

AVERAGE DISCHARGE.--42 years, 413 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,100 ft³/s Jan. 21, 1959, gage height 17.35 ft; no flow Nov. 27, 1991, July 14-16, 21-26, Aug. 4-27, 1992.

EXTREMES FOR CURRENT YEAR.--Maximun daily discharge, 5,560 ft³/s May 14, 21; minimum daily discharge 0.0 ft³/s Feb. 21-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	245	48	144	3410	805	663	1780	4970	387	196	49
2	49	368	48	240	3390	998	195	3490	3680	387	196	49
3	49	441	48	240	3370	997	195	4670	1420	387	196	49
4	49	441	48	240	3360	996	195	2290	628	387	196	49
5	49	441	48	240	3020	995	196	1340	386	270	196	49
6	49	441	48	240	1140	995	196	4820	387	200	195	49
7	49	441	48	240	156	995	196	5500	793	200	195	49
8	49	441	48	240	96	995	196	5500	865	200	195	49
9	49	440	48	240	96	994	196	5070	29	200	195	49
10	49	440	48	240	192	994	108	4500	1900	200	146	49
11	49	440	48	240	240	993	56	1750	4300	200	72	49
12	49	440	48	240	240	992	56	3030	5000	137	44	49
13	49	633	48	240	240	991	56	5230	4970	97	45	49
14	49	748	48	240	240	607	56	5560	3870	146	49	49
15	49	747	48	240	240	578	56	2930	1890	175	49	49
16	106	746	48	240	240	662	56	409	1170	155	49	49
17	147	745	48	241	240	993	44	847	582	155	49	49
18	147	744	48	377	240	370	39	1490	386	155	49	49
19	147	743	48	98	240	141	39	1900	387	156	49	49
20	147	742	319	98	90	802	39	4450	715	156	49	49
21	147	741	482	98	.00	1020	39	5560	674	156	49	49
22	147	740	482	343	.00	582	39	4650	387	171	49	49
23	147	739	481	491	90	1230	100	5500	387	196	49	49
24	147	737	481	495	241	2510	183	5470	387	196	49	122
25	147	736	481	498	241	1060	203	3060	387	196	49	147
26	147	405	480	716	241	623	327	1450	387	196	49	147
27	212	120	300	1140	289	665	500	1450	387	196	49	147
28	245	48	48	2240	441	665	1360	3880	387	196	49	147
29	245	48	48	3120	484	998	545	5450	387	196	49	147
30	245	48	48	3450	---	998	407	5330	387	98	49	147
31	245	---	48	3430	---	998	---	5000	---	147	49	---
TOTAL	3503	15229	4610	20579	22507.00	28242	6536	113356	42485	6294	2949	2131
MEAN	113	508	149	664	776	911	218	3657	1416	203	95.1	71.0
MAX	245	748	482	3450	3410	2510	1360	5560	5000	387	196	147
MIN	49	48	48	98	.00	141	39	409	29	97	44	49

CAL YR 1995 TOTAL 126546 MEAN 347 MAX 4470 MIN 48
WTR YR 1996 TOTAL 268421.00 MEAN 733 MAX 5560 MIN .00

03276500 WHITEWATER RIVER AT BROOKVILLE, IN

(Former 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 mi downstream from East Fork Whitewater River, 1.1 mi south of Brookville, and at mile 29.3.
DRAINAGE AREA.--1,224 mi².
PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. 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 above sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Brookville Lake since January 1974.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 39.0 ft, at present datum, from floodmarks (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	680	309	788	4500	2430	6210	7810	6350	871	562	195
2	115	841	302	1390	4460	2330	4120	6460	5030	848	529	193
3	139	943	302	1080	4390	2090	2690	6790	2770	818	506	191
4	142	919	286	e800	e4200	1940	2180	13700	1990	798	490	190
5	2260	915	284	e720	e4000	2010	1930	14300	1440	715	478	188
6	1310	894	284	e640	e1900	4120	1720	11200	1680	640	465	184
7	586	934	275	e580	904	3560	1600	9620	5350	623	459	182
8	422	966	257	e540	839	2580	1490	10600	9260	691	529	182
9	344	938	253	e520	1960	2200	1400	12500	18500	626	565	186
10	298	932	203	e500	1630	2040	1180	9240	10000	599	448	186
11	260	2540	e200	e480	1300	1970	1010	15600	8390	558	375	185
12	240	1750	e205	e470	1150	1840	953	9900	10000	578	305	179
13	223	1770	e210	e460	1010	1530	925	8910	8230	593	290	174
14	212	1800	e240	e450	947	1470	917	8320	6140	576	269	171
15	204	1690	e305	e500	930	2500	877	13800	e7000	608	253	171
16	306	1640	301	e800	870	2230	893	12800	e3500	571	413	201
17	426	1610	284	7480	813	2110	826	5290	e1800	573	299	288
18	435	1590	1300	9840	e780	1500	758	4480	e1900	1440	267	301
19	435	1570	2950	14800	e760	2910	783	4010	2250	859	253	245
20	449	1550	1910	6240	710	5420	4990	5930	2280	687	243	218
21	469	1540	1560	3330	643	4070	2870	6700	1900	625	236	226
22	465	1520	1390	2640	623	3030	1900	5740	1370	855	229	248
23	451	1520	1240	3910	718	3400	9450	6300	1470	742	228	277
24	447	1490	1210	8660	874	5230	9700	6140	1270	665	229	361
25	442	1490	1170	5180	969	5050	4580	4100	1180	653	234	403
26	435	912	1090	3550	1040	3780	3480	3700	1090	616	221	406
27	601	460	801	3400	1570	2720	3080	8950	1030	571	217	426
28	686	314	478	4060	4730	2350	5270	9170	981	549	226	669
29	686	310	431	4640	3080	2600	36400	10200	939	548	213	662
30	686	298	423	4810	---	2490	22000	8010	903	568	206	554
31	686	---	450	4640	---	2410	---	6880	---	611	202	---
TOTAL	14980	36326	20903	97898	52300	85910	136182	267150	125993	21275	10439	8242
MEAN	483	1211	674	3158	1803	2771	4539	8618	4200	686	337	275
MAX	2260	2540	2950	14800	4730	5420	36400	15600	18500	1440	565	669
MIN	115	298	200	450	623	1470	758	3700	903	548	202	171
CFSM	.39	.99	.55	2.58	1.47	2.26	3.71	7.04	3.43	.56	.28	.22
IN.	.46	1.10	.64	2.98	1.59	2.61	4.14	8.12	3.83	.65	.32	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

MEAN	472	910	1293	1971	2007	2283	2179	1761	1168	755	510	411
MAX	2796	4160	5468	9401	6290	5909	4664	8618	4710	3390	4271	4239
(WY)	1927	1994	1991	1937	1950	1963	1964	1996	1958	1958	1979	1926
MIN	95.5	98.1	95.1	102	122	294	275	186	161	138	102	98.9
(WY)	1935	1935	1935	1977	1935	1941	1941	1941	1934	1934	1930	1940

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1916 - 1996	
ANNUAL TOTAL	440988		877598			
ANNUAL MEAN	1208		2398		1306	
HIGHEST ANNUAL MEAN					2398	1996
LOWEST ANNUAL MEAN					271	1941
HIGHEST DAILY MEAN	14300	May 18	36400	Apr 29	55000	Jan 21 1959
LOWEST DAILY MEAN	115	Oct 2	115	Oct 2	60	Jul 27 1934
ANNUAL SEVEN-DAY MINIMUM	128	Sep 26	179	Sep 9	66	Sep 25 1941
INSTANTANEOUS PEAK FLOW			49200	Apr 29	81800	Jan 21 1959
INSTANTANEOUS PEAK STAGE			21.86	Apr 29	27.78	Jan 21 1959
ANNUAL RUNOFF (CFSM)	.99		1.96		1.07	
ANNUAL RUNOFF (INCHES)	13.40		26.67		14.50	
10 PERCENT EXCEEDS	2350		6530		2860	
50 PERCENT EXCEEDS	729		918		624	
90 PERCENT EXCEEDS	223		229		165	

e Estimated

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 upstream from Wilson Fork, 2.0 mi northeast of Canaan, and at mile 16.7.
DRAINAGE AREA.--27.5 mi².
PERIOD OF RECORD.--October 1969 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 590 ft above sea level, from topographic map.
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	5.4	3.4	49	e17	45	828	111	19	169	e1.6	e.40
2	.00	11	3.3	93	e13	35	151	63	17	79	e1.5	e.24
3	.00	13	3.2	59	e11	25	82	442	13	26	e1.3	e4.0
4	.00	11	2.9	e45	e10	24	59	1100	9.6	14	e1.2	e2.0
5	151	9.3	e2.3	e36	e9.3	80	48	230	7.0	8.8	e1.2	e.80
6	31	7.9	e1.9	e27	e8.8	221	39	118	56	5.6	e1.1	e.90
7	10	8.9	e2.0	e20	e9.4	81	33	67	317	4.6	e1.0	e.70
8	5.8	11	e1.9	e16	e19	54	28	350	1690	5.7	e1.1	e.53
9	4.1	10	e2.3	e15	48	48	24	194	715	3.7	e1.0	e9.0
10	3.0	9.3	e2.1	e14	32	38	21	240	283	2.5	e.91	e1.0
11	2.9	63	e1.7	e13	26	31	18	998	118	1.7	e.80	e.60
12	2.7	36	e1.5	e12	19	25	17	139	82	1.2	e.78	e.15
13	2.6	23	e1.6	e11	18	23	19	72	55	2.3	e.81	e.13
14	2.3	18	18	e13	17	21	19	45	59	1.8	e.74	e.12
15	2.0	14	25	e17	15	22	32	774	102	17	e.51	e.10
16	1.8	10	120	101	12	20	41	189	37	4.0	e.60	53
17	1.6	8.5	41	600	e10	19	29	81	23	2.1	e.80	12
18	1.6	8.2	525	472	e8.8	16	25	47	20	2.2	e.74	3.3
19	1.6	7.1	753	398	11	438	24	31	20	1.7	e.60	1.3
20	2.3	5.8	137	101	48	289	519	22	13	2.8	e.47	.67
21	2.5	5.3	64	73	39	155	102	17	9.0	1.5	e.30	1.4
22	4.5	4.1	42	40	30	126	59	12	67	1.1	e.23	11
23	4.1	4.0	32	565	27	164	581	8.4	216	1.1	e.16	3.8
24	e3.3	3.9	e25	528	23	192	149	7.1	393	.88	e1.5	1.8
25	e2.9	3.2	e21	105	19	133	77	6.7	93	7.7	e1.2	1.0
26	e3.2	2.9	e17	69	30	72	70	10	46	3.5	e.88	.72
27	e5.1	3.3	e16	77	149	50	44	85	28	e2.7	e1.8	236
28	e8.2	4.5	e14	46	224	43	624	405	19	e2.2	e1.8	245
29	e6.6	4.9	e12	36	66	113	2370	201	13	e2.2	e1.1	46
30	e4.5	3.8	e11	28	---	62	341	53	8.9	e2.1	e.80	20
31	e3.8	---	21	e22	---	161	---	28	---	e1.9	e.52	---
TOTAL	275.00	330.3	1924.1	3701	969.3	2826	6473	6146.2	4548.5	382.58	29.05	657.66
MEAN	8.87	11.0	62.1	119	33.4	91.2	216	198	152	12.3	.94	21.9
MAX	151	63	753	600	224	438	2370	1100	1690	169	1.8	245
MIN	.00	2.9	1.5	11	8.8	16	17	6.7	7.0	.88	.16	.10
CFSM	.32	.40	2.26	4.34	1.22	3.31	7.85	7.21	5.51	.45	.03	.80
IN.	.37	.45	2.60	5.01	1.31	3.82	8.76	8.31	6.15	.52	.04	.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	10.7	35.0	50.3	49.1	55.9	67.4	64.1	47.7	24.6	13.4	12.8	7.71
MAX	83.6	137	173	169	136	134	216	198	152	50.9	78.9	57.9
(WY)	1984	1980	1991	1982	1990	1975	1996	1996	1996	1995	1995	1979
MIN	.000	.22	3.95	.60	5.24	11.7	6.55	3.82	.44	.12	.001	.000
(WY)	1988	1988	1977	1977	1992	1983	1976	1992	1988	1975	1975	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	15857.33		28262.69			
ANNUAL MEAN	43.4		77.2		36.4	
HIGHEST ANNUAL MEAN					77.2	1996
LOWEST ANNUAL MEAN					17.0	1988
HIGHEST DAILY MEAN	910	May 18	2370	Apr 29	2370	Apr 29 1996
LOWEST DAILY MEAN	.00	Jun 18	.00	Oct 1	.00	Oct 1 1969
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	.47	Aug 17	.00	Jun 27 1970
INSTANTANEOUS PEAK FLOW			5260	Apr 29	7800	May 16 1990
INSTANTANEOUS PEAK STAGE			9.81	Apr 29	11.34	May 16 1990
ANNUAL RUNOFF (CFSM)	1.58		2.81		1.33	
ANNUAL RUNOFF (INCHES)	21.45		38.23		18.01	
10 PERCENT EXCEEDS	89		190		78	
50 PERCENT EXCEEDS	10		15		9.0	
90 PERCENT EXCEEDS	.00		1.0		.13	

e Estimated

03294000 SILVER CREEK NEAR SELLERSBURG, IN

LOCATION.--Lat 38°22'15", long 85°43'35", in lot 68, Clark Military Grant, Clark County, Hydrologic Unit 05140101, on downstream side of Straws Mill bridge on Watson Road, 0.3 mi downstream from Pleasant Run, 2.4 mi southeast of Sellersburg, and 12.2 mi upstream from mouth.
DRAINAGE AREA.--189 mi^2.
PERIOD OF RECORD.--October 1954 to current year.
REVISED RECORDS.--WSP 1705: 1955-58. WDR IN-72-1: Drainage area.
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 429.78 ft above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 6, 1976, and Feb. 15 to Sept. 20, 1984 nonrecording gage and crest-stage gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, and those below 10 ft^3/s, which are poor. Some regulation by Deam Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	26	16	150	136	384	2820	4150	157	384	15	2.9
2	5.6	34	15	278	119	309	1570	951	135	1050	13	2.7
3	6.0	51	15	621	74	231	623	747	150	365	11	2.4
4	7.6	48	16	339	e68	180	447	1800	148	136	9.3	4.2
5	185	39	14	229	e64	181	376	970	116	78	9.4	11
6	277	36	13	176	e60	526	310	1680	256	57	10	11
7	73	38	14	137	e64	486	263	722	2180	45	10	19
8	40	37	13	e110	83	354	235	2050	1030	403	11	20
9	27	40	16	e97	99	252	197	3100	805	134	34	56
10	20	36	14	e91	94	211	168	950	649	63	28	66
11	16	77	12	e85	107	191	148	5390	1060	44	17	27
12	14	147	10	e78	104	179	135	6210	610	35	13	16
13	22	96	11	e74	81	164	139	1400	397	30	11	11
14	18	100	20	e92	82	149	196	568	287	27	9.9	9.2
15	17	84	48	e120	83	276	161	1300	225	618	13	6.8
16	27	51	297	275	76	401	165	1180	176	199	10	519
17	18	41	193	1220	65	404	144	580	148	88	8.8	363
18	14	34	860	961	60	334	126	413	120	65	9.4	102
19	16	32	2030	3110	73	805	233	306	105	49	8.4	59
20	26	27	1120	716	204	2120	2310	236	86	42	6.8	33
21	35	22	420	417	e375	1110	1680	188	75	55	6.1	38
22	31	23	285	324	e259	737	518	153	66	99	9.1	188
23	30	29	207	1150	e200	798	1130	124	52	55	11	97
24	22	47	163	3500	e190	1100	1370	106	64	34	226	57
25	20	40	144	1110	183	1540	581	88	122	31	53	34
26	22	30	119	539	166	773	625	109	60	39	29	25
27	37	28	111	448	264	463	468	771	48	27	19	689
28	57	26	95	322	1840	388	681	898	38	22	24	1670
29	42	25	83	285	578	542	5930	556	34	18	14	596
30	31	18	77	231	---	434	8910	339	28	15	8.3	272
31	28	---	83	174	---	394	---	220	---	16	3.9	---
TOTAL	1189.5	1362	6534	17459	5851	16416	32659	38255	9427	4323	661.4	5007.2
MEAN	38.4	45.4	211	563	202	530	1089	1234	314	139	21.3	167
MAX	277	147	2030	3500	1840	2120	8910	6210	2180	1050	226	1670
MIN	5.3	18	10	74	60	149	126	88	28	15	3.9	2.4
CFSM	.20	.24	1.12	2.98	1.07	2.80	5.76	6.53	1.66	.74	.11	.88
IN.	.23	.27	1.29	3.44	1.15	3.23	6.43	7.53	1.86	.85	.13	.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

MEAN	31.5	121	245	300	408	501	411	324	145	75.7	51.0	36.9
MAX	143	805	862	1150	1323	2252	1117	1369	1337	316	514	390
(WY)	1978	1980	1979	1959	1956	1964	1970	1983	1960	1973	1978	1979
MIN	.21	.61	.60	5.43	32.0	112	72.3	25.4	3.07	2.75	1.85	.24
(WY)	1965	1964	1964	1977	1992	1981	1976	1988	1988	1959	1994	1957

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	77665.2		139144.1			
ANNUAL MEAN	213		380		220	
HIGHEST ANNUAL MEAN					404	1979
LOWEST ANNUAL MEAN					92.8	1981
HIGHEST DAILY MEAN	7930	May 26	8910	Apr 30	15100	Mar 10 1964
LOWEST DAILY MEAN	2.3	Sep 15	2.4	Sep 3	.00	Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 11	5.1	Aug 30	.00	Oct 1 1954
INSTANTANEOUS PEAK FLOW			9570	Apr 30	19600	Jan 22 1959
INSTANTANEOUS PEAK STAGE			25.42	Apr 30	30.89	Jan 22 1959
ANNUAL RUNOFF (CFSM)	1.13		2.01		1.16	
ANNUAL RUNOFF (INCHES)	15.29		27.39		15.81	
10 PERCENT EXCEEDS	439		964		475	
50 PERCENT EXCEEDS	57		100		52	
90 PERCENT EXCEEDS	8.9		13		3.3	

e Estimated

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, on right bank at downstream side of bridge on State Highway 337 (revised), 0.6 mi downstream from South Fork Buck Creek, 3.6 mi southwest of New Middletown, and 14.6 mi upstream from mouth.
DRAINAGE AREA.--65.2 mi², of which 28.1 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1969 to current year.
REVISED RECORDS.--WDR IN-72-1: 1971(P).
GAGE.--Water-stage recorder. Datum of gage is 501.63 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records good except for estimated daily discharges and those below 10 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.1	e6.0	e7.0	e32	e37	106	546	349	97	10	3.2	2.1
2	e6.4	e9.4	e6.8	86	e32	85	391	223	96	13	2.6	2.0
3	e17	e16	e6.6	202	e27	61	e220	158	75	10	2.7	3.1
4	119	e12	e6.5	126	e23	48	e160	112	65	8.3	2.8	4.8
5	164	e9.6	e6.4	93	e21	49	e130	93	53	7.7	2.7	3.0
6	72	e7.2	e6.4	76	e30	856	97	112	47	7.1	2.4	5.5
7	e11	e8.5	e6.4	e61	e39	472	79	111	55	11	2.2	4.2
8	e6.6	e10	e6.2	e52	e31	315	66	142	55	13	2.2	3.6
9	e4.6	e8.0	e6.0	e45	26	219	55	127	86	10	5.3	16
10	e3.6	e9.0	e5.7	e40	22	e120	48	132	119	7.7	2.7	6.5
11	e3.1	e68	e6.2	e38	21	83	43	517	540	6.3	2.4	3.9
12	e2.8	e48	e9.7	e35	19	71	39	312	1020	6.0	2.7	3.2
13	e2.6	e32	e12	e33	17	64	52	176	404	5.8	2.5	3.4
14	e2.4	e28	e31	e45	18	55	70	126	190	7.8	2.6	3.6
15	e2.5	e24	103	97	17	74	61	246	122	75	2.8	5.0
16	e2.6	e21	255	119	15	104	52	192	90	21	3.2	68
17	e2.5	e17	126	324	14	204	45	132	69	14	2.9	33
18	e2.3	e15	287	344	14	181	42	93	59	12	3.0	14
19	e2.1	e13	456	708	18	270	43	71	50	15	2.8	13
20	e8.2	e12	278	264	265	426	576	58	40	33	2.6	14
21	e6.2	e11	171	165	178	373	292	47	34	38	10	34
22	e4.8	e10	117	115	115	327	185	38	29	61	7.4	50
23	e3.8	e14	88	294	91	319	253	31	25	30	2.0	24
24	e3.4	e13	e68	1080	68	513	239	27	23	18	1.7	20
25	e3.0	e11	e54	364	54	656	186	25	19	12	2.2	24
26	e2.8	e10	e46	226	51	428	247	1230	16	8.1	2.3	26
27	e19	e9.3	e39	159	79	278	168	857	14	5.8	2.3	393
28	e12	e8.8	e33	107	281	237	226	726	13	4.9	2.4	417
29	e8.0	e8.2	e28	e75	141	417	1390	640	12	4.5	2.2	163
30	e5.8	e7.6	e25	e58	---	312	834	305	10	4.2	2.1	81
31	e4.4	---	e26	e46	---	238	---	144	---	4.0	2.0	---
TOTAL	511.6	476.6	2322.9	5509	1764	7961	6835	7552	3527	484.2	92.9	1443.9
MEAN	16.5	15.9	74.9	178	60.8	257	228	244	118	15.6	3.00	48.1
MAX	164	68	456	1080	281	856	1390	1230	1020	75	10	417
MIN	2.1	6.0	5.7	32	14	48	39	25	10	4.0	1.7	2.0
CFSM	.25	.24	1.15	2.73	.93	3.94	3.49	3.74	1.80	.24	.05	.74
IN.	.29	.27	1.33	3.14	1.01	4.54	3.90	4.31	2.01	.28	.05	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	17.8	56.9	97.3	104	131	144	148	108	50.1	28.5	17.1	18.6
MAX	71.8	228	262	201	368	342	412	558	222	219	67.2	217
(WY)	1971	1980	1991	1974	1989	1975	1970	1983	1990	1979	1992	1979
MIN	.76	3.16	6.01	2.64	24.8	40.4	22.4	16.3	1.56	4.59	2.11	.72
(WY)	1988	1988	1977	1977	1992	1983	1986	1976	1988	1975	1987	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	24699.8		38480.1			
ANNUAL MEAN	67.7		105		76.4	
HIGHEST ANNUAL MEAN					146	1979
LOWEST ANNUAL MEAN					32.8	1981
HIGHEST DAILY MEAN	2620	May 18	1390	Apr 29	3970	May 1 1983
LOWEST DAILY MEAN	1.7	Sep 30	1.7	Aug 24	.52	Jul 10 1988
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 24	2.2	Aug 23	.57	Jul 4 1988
INSTANTANEOUS PEAK FLOW			3990	May 26	12700	Apr 2 1970
INSTANTANEOUS PEAK STAGE			8.79	May 26	14.40	Apr 2 1970
ANNUAL RUNOFF (CFSM)	1.04		1.61		1.17	
ANNUAL RUNOFF (INCHES)	14.09		21.95		15.93	
10 PERCENT EXCEEDS	132		297		171	
50 PERCENT EXCEEDS	21		32		27	
90 PERCENT EXCEEDS	3.4		3.0		3.5	

e Estimated

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 mi south of Galena, 3.6 mi upstream from mouth, and 7.0 mi northwest of New Albany.
DRAINAGE AREA.--16.1 mi².
PERIOD OF RECORD.--October 1968 to current year.
GAGE.--Water-stage recorder. Datum of gage is 703.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.2	2.5	8.8	e8.0	22	279	63	17	1.6	.34	.18
2	.03	3.4	2.5	36	e6.6	18	71	40	17	2.5	.34	.12
3	.12	4.1	2.5	41	e6.0	14	43	33	15	1.8	.31	.11
4	.22	2.5	2.3	22	e5.4	12	34	72	15	1.2	.37	.11
5	51	1.9	2.2	16	e5.1	14	28	62	11	.96	.32	.08
6	4.6	1.7	2.1	13	e5.0	34	23	64	12	.84	.27	.26
7	2.1	2.3	2.1	e11	e6.0	28	20	40	14	1.2	.29	8.9
8	1.3	2.3	e1.9	e8.7	e12	22	18	170	16	3.4	.47	1.6
9	1.1	1.9	e1.8	e7.3	20	20	15	75	34	1.5	.69	.89
10	.94	2.5	e1.6	e6.2	11	16	13	52	40	1.0	.42	.52
11	1.0	20	e1.9	e5.4	7.7	14	12	358	84	.79	.48	.46
12	.79	7.7	e2.4	e4.8	6.9	14	11	67	44	.75	.49	.34
13	.65	8.1	3.3	e4.3	6.5	12	18	36	27	.64	.43	.23
14	.59	7.1	4.1	e10	6.8	12	19	24	19	2.8	.36	.18
15	.63	5.1	8.5	27	6.4	24	17	70	14	16	.34	.13
16	.64	4.1	28	34	5.7	22	16	39	11	2.8	.38	34
17	.64	3.7	12	71	5.8	23	14	28	8.7	1.6	.38	6.8
18	.57	3.5	83	220	5.4	19	13	19	8.2	1.2	.37	2.3
19	.50	3.0	130	144	8.3	64	41	14	7.7	1.3	.30	1.5
20	1.8	2.9	40	39	35	78	357	e10	6.1	1.1	.25	1.1
21	1.6	2.7	22	26	25	57	57	e8.8	5.0	3.2	.23	12
22	1.1	2.5	14	20	24	51	34	e7.4	4.5	5.3	1.3	8.5
23	.80	3.8	e10	214	22	67	63	e6.5	3.8	2.0	1.0	3.2
24	.73	3.3	e8.2	261	17	189	47	8.2	4.3	1.4	.80	2.1
25	.75	2.9	e6.4	48	15	148	32	8.4	3.6	1.2	.66	1.7
26	.68	2.9	e5.0	34	15	62	47	29	2.9	1.0	.54	1.3
27	4.4	2.8	e4.1	26	25	40	30	112	2.3	.79	.44	88
28	2.6	2.8	e3.5	20	46	43	148	181	1.8	.69	.33	71
29	1.6	2.7	e3.1	e16	28	68	806	93	1.7	.64	.36	21
30	1.2	2.5	e2.8	e13	---	44	157	37	1.4	.57	.30	11
31	1.1	---	e4.9	e10	---	58	---	24	---	.47	.25	---
TOTAL	85.78	117.9	418.7	1417.5	396.6	1309	2483	1851.3	452.0	62.24	13.81	279.61
MEAN	2.77	3.93	13.5	45.7	13.7	42.2	82.8	59.7	15.1	2.01	.45	9.32
MAX	51	20	130	261	46	189	806	358	84	16	1.3	88
MIN	.00	1.2	1.6	4.3	5.0	12	11	6.5	1.4	.47	.23	.08
CFSM	.17	.24	.84	2.84	.85	2.62	5.14	3.71	.94	.12	.03	.58
IN.	.20	.27	.97	3.28	.92	3.02	5.74	4.28	1.04	.14	.03	.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	4.48	15.1	29.6	32.2	39.5	43.8	44.6	28.5	13.2	8.37	5.59	4.43
MAX	42.2	70.6	103	64.3	111	112	120	116	75.1	50.7	30.5	62.1
(WY)	1978	1980	1991	1969	1990	1975	1970	1983	1990	1979	1978	1979
MIN	.000	.25	1.80	.46	2.91	10.9	7.78	1.48	.002	.088	.15	.000
(WY)	1988	1992	1981	1977	1992	1976	1976	1988	1988	1991	1987	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	6096.13		8887.44			
ANNUAL MEAN	16.7		24.3		22.4	
HIGHEST ANNUAL MEAN					45.0	1979
LOWEST ANNUAL MEAN					8.23	1992
HIGHEST DAILY MEAN	629	May 25	806	Apr 29	1300	Feb 15 1990
LOWEST DAILY MEAN	.00	Aug 1	.00	Oct 1	.00	Oct 4 1968
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 1	.16	Aug 31	.00	Sep 24 1969
INSTANTANEOUS PEAK FLOW			2080	Apr 29	5500	Jul 21 1973
INSTANTANEOUS PEAK STAGE			6.22	Apr 29	9.30	Jul 21 1973
ANNUAL RUNOFF (CFSM)	1.04		1.51		1.39	
ANNUAL RUNOFF (INCHES)	14.09		20.53		18.87	
10 PERCENT EXCEEDS	33		59		45	
50 PERCENT EXCEEDS	4.4		6.4		6.2	
90 PERCENT EXCEEDS	.06		.45		.27	

e Estimated

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 mi east of County Court House in Salem, 6.0 mi upstream from Hoggatt Branch, and 6.9 mi upstream from mouth.
DRAINAGE AREA.--19.0 mi².
PERIOD OF RECORD.--July 1970 to current year. Prior to December 10, 1970, nonrecording gage at site 0.55 mi downstream at datum 5.04 ft lower.
GAGE.--Water-stage recorder. Datum of gage is 713.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
REVISIONS.--The maximum discharges for peaks above the base for some water years have been revised, as shown in the following table. They supersede figures published in the reports for 1983, 1988, 1990, and 1995.

Water Year	Date	Discharge (ft³/s)	Gage Height (ft)	Water Year	Date	Discharge (ft³/s)	Gage Height (ft)
1983	May 1, 1983	4,720	13.14	1995	May 18, 1995	3,600	11.70
1988	July 20, 1988	5,670	14.24	1995	May 25, 1995	4,840	13.29
1990	May 17, 1990	6,930	15.58				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	1.7	1.6	6.1	e13	40	296	122	23	17	.85	.54
2	.02	3.0	.58	15	e9.8	30	120	81	23	22	.69	.55
3	.31	3.9	.51	28	e7.7	19	78	100	18	8.4	.67	4.3
4	.40	3.0	.48	20	e6.8	15	56	194	15	5.6	.60	2.5
5	2.2	2.6	.48	16	e6.2	20	39	103	12	4.2	.60	1.4
6	3.4	2.0	.48	12	e5.8	55	31	78	229	3.4	.52	1.5
7	1.4	2.6	.48	e9.7	e5.4	40	25	58	311	3.1	.49	1.3
8	.73	2.8	.41	e8.0	6.9	29	22	242	137	3.0	9.7	1.3
9	.44	2.7	e.30	e7.3	8.5	22	18	149	149	2.7	4.4	82
10	.29	2.4	e.23	e6.8	6.6	17	16	122	198	2.0	1.4	12
11	.19	11	e.21	e6.4	5.9	15	14	445	158	1.7	.81	6.5
12	.19	5.2	.25	e6.3	5.4	14	13	128	86	1.4	.68	4.6
13	.16	3.1	1.1	e7.7	4.8	13	13	81	53	1.4	.57	3.5
14	.28	2.1	3.4	10	4.3	11	11	55	36	19	.54	2.8
15	.39	1.6	4.6	18	4.6	19	10	140	29	23	.43	2.2
16	.39	1.3	15	55	4.6	19	9.2	87	21	6.8	.33	123
17	.39	1.2	6.8	243	4.2	20	7.6	59	17	4.5	.37	24
18	.39	1.3	52	256	3.7	18	7.0	41	15	3.4	.61	14
19	.39	1.1	122	192	e3.4	34	7.0	30	15	3.2	.43	9.7
20	1.3	.93	52	84	4.0	55	406	24	12	3.9	.30	7.4
21	.43	.79	25	50	4.5	63	108	19	9.7	2.4	.31	15
22	.36	.70	15	36	4.5	67	67	16	8.3	2.8	.32	15
23	.21	1.1	11	212	4.7	70	388	13	7.2	2.3	2.8	10
24	.30	.93	8.8	248	5.1	211	151	11	6.4	2.0	103	8.6
25	.22	.81	7.2	102	5.0	615	94	11	5.2	4.3	5.3	7.3
26	.20	.71	e5.6	68	4.9	162	73	25	4.4	2.0	3.0	11
27	.87	.76	e4.8	50	5.5	99	46	99	3.7	1.4	2.0	91
28	.68	.81	e4.3	32	63	75	448	105	3.3	1.2	1.8	143
29	.68	.78	e4.1	28	127	76	2130	86	3.0	1.1	1.4	55
30	.68	.68	e3.9	21	---	57	218	47	2.8	1.2	1.6	30
31	.72	---	e4.2	e15.0	---	54	---	31	---	1.1	.86	---
TOTAL	18.62	63.60	356.81	1869.3	345.8	2054	4921.8	2802	1611.0	161.5	147.38	690.99
MEAN	.60	2.12	11.5	60.3	11.9	66.3	164	90.4	53.7	5.21	4.75	23.0
MAX	3.4	11	122	256	127	615	2130	445	311	23	103	143
MIN	.01	.68	.21	6.1	3.4	11	7.0	11	2.8	1.1	.30	.54
CFSM	.03	.11	.61	3.17	.63	3.49	8.63	4.76	2.83	.27	.25	1.21
IN.	.04	.12	.70	3.66	.68	4.02	9.64	5.49	3.15	.32	.29	1.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	7.31	24.2	32.7	33.4	39.4	44.6	47.3	31.2	12.5	13.8	7.94	6.99
MAX	45.7	89.9	98.2	103	106	104	164	140	53.7	65.7	30.5	40.0
(WY)	1984	1986	1991	1982	1989	1989	1996	1983	1996	1988	1985	1982
MIN	.14	.74	2.33	.97	5.41	9.65	4.21	1.91	.088	.29	.13	.10
(WY)	1988	1972	1977	1977	1992	1976	1976	1988	1988	1991	1987	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	8389.56		15042.80			
ANNUAL MEAN	23.0		41.1		25.1	
HIGHEST ANNUAL MEAN					43.1	1989
LOWEST ANNUAL MEAN					10.7	1981
HIGHEST DAILY MEAN	1120	May 25	2130	Apr 29	2130	Apr 29 1996
LOWEST DAILY MEAN	.01	Oct 1	.01	Oct 1	.01	Nov 7 1992
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 26	.27	Oct 10	.03	Jul 4 1988
INSTANTANEOUS PEAK FLOW			5590	Apr 29	6930	May 17 1990
INSTANTANEOUS PEAK STAGE			14.16	Apr 29	15.58	May 17 1990
ANNUAL RUNOFF (CFSM)	1.21		2.16		1.32	
ANNUAL RUNOFF (INCHES)	16.43		29.45		17.96	
10 PERCENT EXCEEDS	48		104		54	
50 PERCENT EXCEEDS	4.4		6.8		7.3	
90 PERCENT EXCEEDS	.21		.48		.46	

e Estimated

03302800 BLUE RIVER AT FREDERICKSBURG, IN

LOCATION.--Lat 38°26'02", long 86°11'31", in NE¼NW¼ 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 mi downstream from South Fork Blue River, and at mile 57.1.
DRAINAGE AREA.--283 mi^2, of which 76.9 mi^2 does not contribute directly to surface runoff.
PERIOD OF RECORD.--June 1968 to current year.
GAGE.--Water-stage recorder. Datum of gage is 590.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 29.20 ft, from floodmark, on left upstream wingwall.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	13	18	e104	242	556	2890	2360	349	91	29	8.8
2	7.3	40	16	166	e190	438	1660	1520	321	565	28	7.9
3	7.9	18	17	434	e160	325	1020	1230	304	247	26	7.2
4	10	21	16	370	e140	253	752	1750	271	153	22	6.5
5	25	12	16	291	e130	243	596	1440	237	114	19	14
6	48	11	14	231	e120	802	487	1960	683	96	17	13
7	51	12	15	e190	e110	784	414	1110	5200	85	15	16
8	26	14	14	e170	e135	561	354	2730	2570	79	86	21
9	16	13	e12	e150	162	413	311	3340	1660	75	186	731
10	12	13	e11	e143	145	348	270	1440	1720	64	71	247
11	9.6	53	e9.6	e138	142	296	244	7410	3090	55	41	108
12	10	129	e10	e130	130	271	225	3430	1470	52	36	70
13	8.1	82	e13	e150	117	250	214	1430	948	52	32	55
14	5.9	55	20	191	115	228	219	1020	678	52	24	43
15	5.4	45	38	307	117	339	201	1650	524	304	23	37
16	4.5	36	159	361	110	549	200	1580	414	167	16	1050
17	4.9	27	186	1920	102	577	181	1000	365	92	13	592
18	5.1	26	426	1470	96	526	171	740	298	70	11	249
19	7.9	24	1440	3680	94	596	229	572	256	60	10	152
20	11	23	1070	1170	103	1170	3840	465	232	55	12	108
21	25	21	495	752	115	1090	1770	383	196	46	12	137
22	24	16	327	552	120	973	926	324	173	100	33	418
23	16	18	238	1250	166	954	2580	281	155	65	19	224
24	10	21	192	3630	160	1670	2400	251	305	62	302	145
25	7.0	24	e150	1370	137	5470	1180	231	237	257	95	111
26	13	24	e125	908	136	2260	1070	256	151	102	41	117
27	10	22	e108	727	172	1200	803	776	128	60	27	665
28	8.8	26	e93	519	1660	908	1100	1020	117	44	21	2070
29	10	25	e84	453	833	890	22000	1130	107	37	17	987
30	16	22	e78	378	---	770	10400	653	98	33	12	550
31	13	---	e84	300	---	661	---	454	---	31	9.7	---
TOTAL	436.3	886	5494.6	22605	6159	26371	58707	43936	23257	3365	1305.7	8960.4
MEAN	14.1	29.5	177	729	212	851	1957	1417	775	109	42.1	299
MAX	51	129	1440	3680	1660	5470	22000	7410	5200	565	302	2070
MIN	4.5	11	9.6	104	94	228	171	231	98	31	9.7	6.5
CFSM	.05	.10	.63	2.58	.75	3.01	6.91	5.01	2.74	.38	.15	1.06
IN.	.06	.12	.72	2.97	.81	3.47	7.72	5.78	3.06	.44	.17	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	62.7	258	408	465	534	610	626	436	227	152	97.3	72.3
MAX	305	1135	1166	1341	1236	1193	1957	1808	775	588	463	299
(WY)	1984	1980	1991	1982	1990	1978	1996	1983	1996	1973	1977	1996
MIN	6.35	12.5	29.4	11.6	56.1	142	86.8	35.2	8.36	13.1	14.5	8.37
(WY)	1988	1988	1977	1977	1992	1969	1976	1988	1988	1991	1994	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	111946.5		201483.0			
ANNUAL MEAN	307		550		328	
HIGHEST ANNUAL MEAN					550	1996
LOWEST ANNUAL MEAN					129	1992
HIGHEST DAILY MEAN	6910	May 26	22000	Apr 29	22000	Apr 29 1996
LOWEST DAILY MEAN	4.5	Oct 16	4.5	Oct 16	2.5	Oct 4 1991
ANNUAL SEVEN-DAY MINIMUM	6.0	Oct 13	6.0	Oct 13	3.0	Sep 30 1991
INSTANTANEOUS PEAK FLOW			39000	Apr 29	39000	Apr 29 1996
INSTANTANEOUS PEAK STAGE			27.15	Apr 29	27.15	Apr 29 1996
ANNUAL RUNOFF (CFSM)	1.08		1.95		1.16	
ANNUAL RUNOFF (INCHES)	14.72		26.48		15.74	
10 PERCENT EXCEEDS	679		1430		752	
50 PERCENT EXCEEDS	100		150		116	
90 PERCENT EXCEEDS	12		12		15	

e Estimated

03302849 WHISKEY RUN AT MARENGO, IN

LOCATION.--Lat 38°22'32", long 86°20'41", in SW¼NW¼ sec.6, T.2 S., R.2 E., Crawford County, Hydrologic Unit 05140104, on left (north) bank about 100 ft upstream from bridge and intersection of North Main Street and North Water Street in Marengo, known as Old Town.

DRAINAGE AREA.--7.02 mi².

PERIOD OF RECORD.--October 1986 to September 1993 (discharge), October 1993 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 561.45 ft above sea level.

REMARKS.--Stage affected by inflow from small cave 50 ft below gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1979 reached a stage of 15.89 ft. Stage determined from levels to high-water mark in Old Town grocery store just downstream and across bridge from gage. Reports from local residents indicate this event as highest known flood.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.39 ft June 7, 1990; minimum gage height, undetermined below 0.80 ft.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.61 ft, April 29; minimum gage height, undetermined below 0.80 ft.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.17	1.27	1.40	1.65	1.84	2.39	2.63	1.79	1.59	---	---
2	---	1.28	1.27	1.94	1.55	1.76	2.16	2.45	1.90	1.65	---	---
3	.84	1.22	1.27	1.82	1.55	1.67	2.01	7.84	1.82	1.59	---	---
4	.86	1.19	1.26	1.75	1.51	1.65	1.98	2.68	1.75	1.57	---	---
5	1.16	1.17	1.27	1.69	1.50	2.02	1.91	3.29	1.69	1.56	---	---
6	1.04	1.19	1.26	1.68	1.49	2.27	1.85	2.53	3.41	1.54	---	---
7	---	1.20	1.26	1.67	1.53	2.08	1.79	2.48	2.86	1.58	---	---
8	---	1.18	1.28	1.64	1.57	1.93	1.75	3.01	3.68	1.57	---	---
9	---	1.15	1.26	1.65	1.53	1.84	1.71	2.47	3.12	1.54	---	1.20
10	---	1.22	1.22	1.61	1.55	1.77	1.67	3.83	3.77	1.48	---	.87
11	---	1.59	1.26	1.70	1.54	1.74	1.64	2.81	2.67	1.46	---	---
12	---	1.40	1.27	1.65	1.51	1.72	1.62	2.40	2.32	1.43	---	---
13	---	1.35	1.37	1.70	1.52	1.69	1.75	2.18	2.13	1.43	---	---
14	---	1.31	1.34	2.15	1.56	1.66	1.71	2.09	2.01	1.71	---	---
15	---	1.29	1.64	1.96	1.54	1.91	1.71	2.38	1.92	1.60	---	---
16	---	1.28	1.70	2.86	1.51	2.11	1.68	2.16	1.85	1.53	---	1.73
17	---	1.28	1.55	2.52	1.51	2.09	1.65	2.02	1.81	1.47	---	1.60
18	---	1.27	2.36	3.55	1.49	1.94	1.64	1.91	1.78	1.44	1.17	1.53
19	---	1.26	2.37	2.40	1.54	2.66	1.74	1.82	1.75	1.48	.87	1.47
20	1.12	1.26	1.94	2.13	1.65	2.46	2.63	1.75	1.72	1.48	---	1.38
21	.97	1.25	1.78	1.96	1.62	2.32	2.24	1.70	1.71	1.58	---	1.79
22	.85	1.27	1.68	1.89	1.69	2.38	2.07	1.65	1.70	1.53	---	1.63
23	---	1.29	1.59	4.26	1.69	2.75	2.83	1.62	1.68	1.48	---	1.58
24	---	1.27	1.54	2.53	1.61	3.52	2.39	1.64	1.69	1.45	---	1.55
25	---	1.27	1.49	2.22	1.59	2.77	2.26	1.61	1.66	1.39	---	1.53
26	---	1.27	1.45	2.12	1.66	2.39	2.23	2.39	1.65	1.21	---	1.65
27	.98	1.29	1.41	1.97	2.38	2.16	2.06	2.77	1.64	1.01	---	3.01
28	.99	1.28	1.38	1.88	2.03	2.11	6.85	3.01	1.64	.89	---	2.19
29	1.07	1.27	1.36	1.82	1.91	2.06	3.65	2.34	1.62	.83	---	1.87
30	1.03	1.27	1.36	1.76	---	1.98	2.78	2.05	1.60	.82	---	1.75
31	.95	---	1.40	1.70	---	2.61	---	1.89	---	.82	---	---
MEAN	---	1.27	1.48	2.05	1.62	2.12	2.21	2.50	2.08	1.41	---	---
MAX	---	1.59	2.37	4.26	2.38	3.52	6.85	7.84	3.77	1.71	---	---
MIN	---	1.15	1.22	1.40	1.49	1.65	1.62	1.61	1.60	.82	---	---

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 downstream from Spring Creek, 600 ft upstream from bridge on Interstate 64, 0.2 mi upstream from bridge on State Highway 62, 0.8 mi north of White Cloud, and at mile 14.7.
DRAINAGE AREA.--476 mi², of which 192 mi² does not contribute directly to surface runoff. Also, part of flow from Indian Creek, downstream from Corydon, IN, enters Blue River via solution channel in Karst area through Harrison Spring.
PERIOD OF RECORD.--April 1931 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 above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	61	77	285	638	1220	3030	9130	1000	240	92	29
2	32	72	74	369	544	963	4670	4310	846	227	84	25
3	37	118	69	710	468	779	2400	3100	785	711	79	23
4	42	118	64	895	354	601	1750	4650	682	395	72	23
5	55	118	62	728	e350	536	1390	3720	615	288	67	24
6	126	96	61	621	e350	978	1160	5270	1250	229	62	25
7	130	97	58	557	346	1670	1010	3300	6510	262	58	38
8	145	92	58	450	337	1330	877	4440	6510	274	57	99
9	112	79	60	e450	342	1020	771	7580	4620	204	70	115
10	80	73	51	e450	341	816	683	3910	3800	168	309	921
11	62	163	53	e450	318	699	613	9900	5890	153	185	356
12	51	232	54	456	305	633	566	11000	3900	135	136	187
13	45	284	58	458	284	590	535	4090	2400	125	92	117
14	38	262	66	471	270	543	523	2790	1660	149	81	88
15	33	214	74	657	265	593	511	2630	1260	380	71	66
16	33	185	267	842	257	937	478	3920	1010	471	58	383
17	33	160	393	2370	242	1110	451	2460	856	352	52	2090
18	31	132	668	3530	228	1220	420	1820	758	242	47	694
19	29	112	2000	6060	219	1310	412	1410	669	189	42	419
20	36	100	2730	3430	245	2290	3660	1160	597	180	39	296
21	44	94	1290	1760	272	2410	5780	975	552	154	41	280
22	44	85	850	1280	280	2130	2270	824	496	181	39	567
23	43	88	647	1620	295	2080	2700	716	457	249	48	634
24	75	87	526	6650	342	3050	6210	643	491	222	80	404
25	68	80	452	4090	327	7350	2940	595	595	189	257	293
26	56	82	402	2120	308	6650	2360	1190	456	399	175	226
27	62	83	361	1610	343	2990	2010	2140	362	236	98	521
28	79	85	329	1260	1710	2090	2100	3330	314	165	65	3390
29	68	80	303	1020	1980	1780	17700	3470	287	131	48	2930
30	76	76	274	894	---	1670	27300	2080	263	113	41	1270
31	71	---	262	764	---	1440	---	1330	---	102	34	---
TOTAL	1870	3608	12693	47307	12560	53478	97280	107883	49891	7515	2679	16533
MEAN	60.3	120	409	1526	433	1725	3243	3480	1663	242	86.4	551
MAX	145	284	2730	6650	1980	7350	27300	11000	6510	711	309	3390
MIN	29	61	51	285	219	536	412	595	263	102	34	23
CFSM	.13	.25	.86	3.21	.91	3.62	6.81	7.31	3.49	.51	.18	1.16
IN.	.15	.28	.99	3.70	.98	4.18	7.60	8.43	3.90	.59	.21	1.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

MEAN	127	377	653	1059	1128	1380	1185	864	474	288	180	141
MAX	515	2057	2417	6290	3404	4299	3243	4020	2101	1655	801	551
(WY)	1956	1980	1958	1937	1950	1945	1996	1983	1990	1979	1977	1996
MIN	14.3	20.0	17.6	40.3	78.0	70.8	263	91.2	41.0	44.8	29.8	18.8
(WY)	1965	1964	1964	1977	1934	1941	1934	1934	1936	1954	1964	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996	
ANNUAL TOTAL	264425		413297			
ANNUAL MEAN	724		1129		652	
HIGHEST ANNUAL MEAN					1199	1950
LOWEST ANNUAL MEAN					140	1941
HIGHEST DAILY MEAN	15100	May 26	27300	Apr 30	27300	Apr 30 1996
LOWEST DAILY MEAN	29	Oct 19	23	Sep 3	9.6	Oct 17 1964
ANNUAL SEVEN-DAY MINIMUM	33	Oct 14	26	Aug 31	11	Oct 12 1964
INSTANTANEOUS PEAK FLOW			29400	Apr 30	29400	Apr 30 1996
INSTANTANEOUS PEAK STAGE			23.30	Apr 30	23.30	Apr 30 1996
ANNUAL RUNOFF (CFSM)	1.52		2.37		1.37	
ANNUAL RUNOFF (INCHES)	20.67		32.30		18.62	
10 PERCENT EXCEEDS	1550		3060		1470	
50 PERCENT EXCEEDS	313		355		254	
90 PERCENT EXCEEDS	51		55		37	

e Estimated

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

LOCATION.--Lat 38°08'19", long 86°43'16", in NW¼SE¼ 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 mi downstream from Coon Branch, 5.8 mi upstream from Sulphur Fork Creek, and at mile 14.1.
DRAINAGE AREA.--39.8 mi².
PERIOD OF RECORD.--August 1961 to current year.
REVISED RECORDS.--WDR IN-72-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 395.00 ft above sea level.
REMARKS.--Records good except for daily discharges below 1 ft³/s and estimated daily discharges, which are poor. Flow regulated by Forest Service and Middle Fork Anderson River Conservancy District control structures beginning June 1967.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 20.0 ft, from floodmark, discharge 15,000 ft³/s, from rating curve extended above 7,000 ft³/s. This is the maximum flood since 1905, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.85	e13	25	91	210	546	91	.93	.86	.21
2	.00	.01	e.60	39	e18	62	189	e440	82	.85	.48	.07
3	.08	.16	e.41	91	e13	41	148	e360	78	.77	.46	.05
4	.13	.08	e.29	75	e9.2	31	120	e310	64	.60	.69	.03
5	.30	.00	e.20	60	e7.0	36	101	e270	49	.45	.76	.17
6	.33	.00	e.15	e35	e5.2	261	86	e230	130	.31	.85	.09
7	.12	e.03	e.11	e24	e4.0	192	74	e200	239	.30	1.0	2.9
8	.00	.00	e.08	e16	e5.0	130	65	e180	222	.48	1.5	.13
9	.00	.00	e.06	e11	e7.0	93	58	e160	231	.60	1.2	.84
10	.00	.02	e.05	e7.8	12	65	52	e150	364	.51	.97	.68
11	.00	3.9	e.04	e6.0	12	46	47	756	404	.38	.97	.07
12	.00	.47	e.50	e4.5	10	36	43	471	339	.21	1.5	14
13	.00	.00	e5.0	e4.8	9.1	32	45	e320	217	.20	1.2	2.3
14	.00	.00	e4.0	e10	8.8	29	51	e240	130	.35	.98	.00
15	.00	.00	20	e25	8.6	104	51	e170	89	1.8	.85	.00
16	.00	.00	22	78	7.4	146	51	e130	59	1.3	.68	38
17	.00	.00	8.5	147	6.3	148	48	e100	40	.86	.77	27
18	.00	.00	48	194	5.1	124	45	e70	28	.72	.96	8.3
19	.00	.00	94	355	5.2	170	42	e54	21	1.2	.99	3.6
20	e.20	.00	93	214	12	262	126	e40	20	7.8	.90	.86
21	e.04	.00	68	115	15	233	153	e29	18	3.2	.65	33
22	.00	.00	48	82	14	196	127	23	14	1.5	.57	45
23	.00	e.35	e32	158	13	206	209	16	10	.88	.46	23
24	.00	.00	e20	438	11	372	237	12	7.4	.46	.60	7.0
25	.00	.00	e12	339	9.0	602	173	9.7	5.3	.72	.41	3.8
26	.00	.00	e8.0	201	8.5	462	170	46	3.7	.40	.35	15
27	e.04	.04	e6.0	121	98	420	143	156	2.6	.17	1.4	221
28	.00	.16	e4.5	85	267	307	277	264	1.8	.18	.54	395
29	.00	.22	e3.9	61	137	170	1230	253	1.5	.73	.29	278
30	.00	.52	e3.5	43	---	125	630	193	1.2	1.2	.22	112
31	.00	---	e5.0	32	---	110	---	130	---	1.2	.23	---
TOTAL	1.24	5.96	508.74	3085.1	762.4	5302	5001	6328.7	2962.5	31.26	24.29	1232.10
MEAN	.040	.20	16.4	99.5	26.3	171	167	204	98.7	1.01	.78	41.1
MAX	.33	3.9	94	438	267	602	1230	756	404	7.8	1.5	395
MIN	.00	.00	.04	4.5	4.0	29	42	9.7	1.2	.17	.22	.00
CFSM	.00	.00	.41	2.50	.66	4.30	4.19	5.13	2.48	.03	.02	1.03
IN.	.00	.01	.48	2.88	.71	4.96	4.67	5.92	2.77	.03	.02	1.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

MEAN	9.27	40.1	72.4	79.6	96.3	124	114	75.9	29.4	16.6	11.2	11.3
MAX	63.7	194	210	223	245	393	312	405	190	141	162	78.8
(WY)	1978	1980	1991	1982	1989	1964	1972	1983	1979	1979	1979	1982
MIN	.000	.000	.000	2.78	5.66	33.4	19.6	6.36	.82	.38	.013	.000
(WY)	1965	1964	1964	1964	1992	1990	1963	1988	1988	1968	1965	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	16842.93		25245.29			
ANNUAL MEAN	46.1		69.0		56.5	
HIGHEST ANNUAL MEAN					122	1979
LOWEST ANNUAL MEAN					15.2	1992
HIGHEST DAILY MEAN	746	May 17	1230	Apr 29	4870	Mar 9 1964
LOWEST DAILY MEAN	.00	Aug 21	.00	Oct 1	.00	Oct 2 1961
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 21	.00	Oct 8	.00	Oct 9 1961
INSTANTANEOUS PEAK FLOW			1940	Apr 29	6360	Mar 9 1964
INSTANTANEOUS PEAK STAGE			15.97	Apr 29	19.33	Mar 4 1964
ANNUAL RUNOFF (CFSM)	1.16		1.73		1.42	
ANNUAL RUNOFF (INCHES)	15.74		23.60		19.27	
10 PERCENT EXCEEDS	116		221		141	
50 PERCENT EXCEEDS	14		8.5		15	
90 PERCENT EXCEEDS	.00		.00		.18	

e Estimated

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

LOCATION.--Lat 38°07'05", long 86°53'24", in $SE^1/_4SE^1/_4$ 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 mi east of Santa Claus Post Office, and 1.8 mi upstream from unnamed right-bank tributary.
DRAINAGE AREA.--7.86 mi^2.
PERIOD OF RECORD.--October 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 403.00 ft above sea level. Prior to Sept. 30, 1995 datum of gage was 404.34 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	.26	.30	3.4	2.5	8.2	72	35	2.6	.13	.65	.00
2	e.00	.60	.27	33	2.1	6.2	e17	20	19	.14	.34	.00
3	e.00	1.1	.20	22	e1.6	4.2	11	14	4.9	.09	.17	e.00
4	e.00	.87	.12	e6.8	e1.4	3.8	9.9	8.6	2.5	.07	.08	e.00
5	e.01	.69	.05	e5.5	e1.3	22	8.6	6.9	1.3	.02	.02	e.00
6	e1.0	.57	.02	e4.7	e1.2	122	7.1	6.1	165	.00	.00	.00
7	e.82	.80	.00	e4.0	e1.7	20	6.0	6.6	60	.00	.00	1.6
8	e.60	.82	.00	e3.4	2.6	9.0	5.1	73	23	.00	.99	.18
9	e.38	.80	e.00	e2.9	2.2	6.4	4.4	18	40	.00	.22	28
10	e.24	.70	e.00	e2.5	2.2	5.3	4.4	30	100	.00	.00	1.3
11	e.15	11	e.00	e2.1	2.3	4.9	3.4	407	49	.00	.00	.59
12	e.10	1.9	e.00	e1.9	1.9	4.6	3.0	33	14	.00	.05	.25
13	e.06	1.6	1.6	e4.0	1.9	4.0	7.0	14	6.7	.00	.02	.09
14	e.04	.59	1.3	e7.0	2.2	3.5	6.4	8.1	4.5	.38	.00	.05
15	e.03	.03	14	e12	2.2	15	4.7	9.4	3.3	3.3	.00	.05
16	e.01	.00	14	47	2.0	20	4.4	6.0	2.6	.23	.00	88
17	e.00	.01	3.1	44	1.8	20	3.3	4.6	2.2	.09	.00	7.7
18	e.00	.40	28	92	1.8	9.6	2.8	4.3	1.8	.03	.00	2.8
19	e.00	.16	40	39	1.9	60	2.4	3.2	28	2.1	.01	1.8
20	e.00	.40	8.4	9.4	2.4	61	43	2.0	9.3	2.1	.00	1.1
21	e.02	.24	5.0	6.7	2.5	38	9.0	1.4	3.1	.44	.00	11
22	e.01	.11	3.5	5.7	2.3	35	5.6	1.1	2.2	.19	.00	3.8
23	e.01	1.4	2.8	111	2.3	59	74	.98	1.4	.13	.00	1.7
24	e.00	.55	2.4	103	2.2	135	19	.84	.98	.08	.00	1.7
25	e.00	.17	e1.9	15	2.0	109	9.8	.84	.69	.05	.00	.82
26	e.00	.12	e1.7	11	2.0	23	24	2.8	.54	.00	.00	1.4
27	e.00	.24	e1.5	9.8	153	11	7.9	5.4	.40	.00	2.9	217
28	.11	.40	e1.4	5.6	58	13	318	3.8	.23	.00	.29	109
29	.34	.13	e1.3	4.9	14	16	1200	2.7	.13	38	.35	16
30	.28	.04	e1.2	4.2	---	12	79	1.7	.13	8.2	.10	6.0
31	.24	---	e1.5	3.2	---	27	---	1.6	---	1.7	.00	---
TOTAL	4.45	26.70	135.56	626.7	277.5	887.7	1972.2	732.96	549.50	57.47	6.19	501.93
MEAN	.14	.89	4.37	20.2	9.57	28.6	65.7	23.6	18.3	1.85	.20	16.7
MAX	1.0	11	40	111	153	135	1200	407	165	38	2.9	217
MIN	.00	.00	.00	1.9	1.2	3.5	2.4	.84	.13	.00	.00	.00
CFSM	.02	.11	.56	2.57	1.22	3.64	8.36	3.01	2.33	.24	.03	2.13
IN.	.02	.13	.64	2.97	1.31	4.20	9.33	3.47	2.60	.27	.03	2.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	2.52	10.1	14.9	14.1	20.6	21.2	21.6	11.8	5.73	4.72	2.43	2.71
MAX	10.3	33.5	49.1	43.7	51.7	51.9	65.7	62.0	19.6	47.5	19.4	16.7
(WY)	1994	1994	1991	1982	1989	1975	1996	1995	1986	1979	1977	1996
MIN	.000	.28	.51	.058	1.12	5.35	2.27	.17	.000	.001	.000	.000
(WY)	1988	1992	1977	1977	1992	1990	1976	1988	1988	1974	1983	1970

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	4133.80		5778.86			
ANNUAL MEAN	11.3		15.8		11.0	
HIGHEST ANNUAL MEAN					17.4	1975
LOWEST ANNUAL MEAN					3.97	1992
HIGHEST DAILY MEAN	757	May 17	1200	Apr 29	1200	Apr 29 1996
LOWEST DAILY MEAN	.00	Jul 15	.00	Oct 1	.00	Oct 1 1969
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 15	.00	Jul 6	.00	Jun 28 1970
INSTANTANEOUS PEAK FLOW			2920	Apr 29	4100	Apr 28 1970
INSTANTANEOUS PEAK STAGE			10.93	Apr 29	a10.13	Apr 3 1989
ANNUAL RUNOFF (CFSM)	1.44		2.01		1.39	
ANNUAL RUNOFF (INCHES)	19.56		27.35		18.95	
10 PERCENT EXCEEDS	17		33		22	
50 PERCENT EXCEEDS	1.0		1.9		1.7	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a Datum 1.34 ft higher

03322011 PIGEON CREEK NEAR FORT BRANCH, IN

LOCATION.--Lat 38°15'08", long 87°31'11", in NW¼SW¼ sec.15, T.3 S., R.10 W., Gibson County, Hydrologic Unit 05140202, on right bank 20 ft downstream from bridge on State Highway 168, 1.1 mi upstream from West Fork Pigeon Creek and 2.6 mi east of intersection of U.S. Highway 41 at Fort Branch.
DRAINAGE AREA.--35.4 mi².
PERIOD OF RECORD.--October 1986 to current year.
GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level.
REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	e.70	e1.2	1.3	e11	14	193	84	16	3.4	2.0	e6.1
2	e1.3	1.3	e1.3	5.1	e10	14	44	46	127	3.4	2.3	7.9
3	2.2	1.1	1.4	7.8	e9.2	11	32	60	23	3.1	2.6	7.8
4	e1.6	e.90	1.3	7.4	e8.6	10	26	122	17	2.7	2.5	e4.5
5	e1.4	e.80	1.3	2.6	e8.0	20	22	340	14	2.6	2.3	e5.0
6	e1.1	1.1	1.3	e2.3	e8.6	75	21	134	1270	2.5	2.2	e5.4
7	e.90	1.3	1.3	e2.1	e9.2	28	19	75	1350	2.6	2.1	6.0
8	e.70	1.1	e1.2	e2.0	15	23	18	255	122	2.7	2.2	6.6
9	e.52	e.82	e1.2	e1.9	13	e20	16	49	408	2.5	2.4	6.9
10	e.50	1.1	e1.1	e1.8	13	e18	15	494	526	2.0	2.6	6.1
11	e.70	25	e1.1	e1.7	13	e17	15	716	76	1.9	3.1	e5.8
12	e1.0	3.3	e1.3	e1.7	11	e16	15	67	50	2.0	26	e5.6
13	e1.1	1.2	e2.0	e2.1	11	e15	20	39	38	2.1	8.2	5.4
14	e1.2	e1.0	3.2	3.7	12	14	17	31	27	103	2.8	5.8
15	e1.2	e.90	4.1	6.4	12	19	17	53	21	37	e2.7	6.6
16	e1.0	e.80	9.8	12	11	42	17	29	17	4.1	e2.4	103
17	e.96	e.76	1.9	56	e9.0	79	15	25	13	2.6	e3.2	7.4
18	e1.1	e.72	7.7	73	e8.0	31	15	21	11	2.2	e4.0	4.9
19	1.3	e.92	102	50	e.88	28	15	19	9.1	63	e5.2	4.4
20	2.1	1.1	16	15	e.98	36	497	17	7.3	436	e3.4	3.8
21	1.3	e.90	5.8	11	11	66	40	15	6.0	18	e3.0	124
22	1.1	e.72	3.1	9.9	15	87	73	14	5.7	7.5	7.2	10
23	e1.0	e.78	2.2	184	16	139	948	14	5.1	4.7	8.9	5.0
24	e.92	e.86	1.4	153	13	333	94	13	4.7	3.6	10	4.2
25	e.84	e.94	e1.3	33	12	267	47	14	4.3	5.4	e7.0	3.9
26	1.1	e1.0	e1.2	53	13	50	58	185	4.1	2.8	e3.0	5.7
27	1.4	1.1	e1.1	63	15	34	31	220	4.1	2.5	e2.7	81
28	1.2	1.3	e1.1	26	23	32	1060	49	4.0	2.4	e2.9	45
29	e1.0	e1.2	e1.0	24	14	37	2120	27	3.8	2.4	e3.3	7.3
30	e.80	e1.1	e1.1	20	---	31	211	21	3.6	2.7	e3.7	5.1
31	e.62	---	1.2	e14	---	61	---	18	---	2.4	e4.3	---
TOTAL	34.56	55.82	182.2	846.8	326.46	1667	5731	3266	4187.8	735.8	140.2	506.2
MEAN	1.11	1.86	5.88	27.3	11.3	53.8	191	105	140	23.7	4.52	16.9
MAX	2.2	25	102	184	23	333	2120	716	1350	436	26	124
MIN	.50	.70	1.0	1.3	.88	10	15	13	3.6	1.9	2.0	3.8
CFSM	.03	.05	.17	.77	.32	1.52	5.40	2.98	3.94	.67	.13	.48
IN.	.04	.06	.19	.89	.34	1.75	6.02	3.43	4.40	.77	.15	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1996, BY WATER YEAR (WY)

MEAN	8.25	32.2	37.2	47.7	62.5	55.6	61.2	57.9	26.3	22.7	19.3	8.64
MAX	38.8	161	176	98.4	170	164	191	203	140	52.5	75.5	20.5
(WY)	1991	1994	1991	1991	1989	1989	1996	1990	1996	1989	1989	1989
MIN	.55	1.86	5.88	6.96	4.66	12.4	14.6	2.21	1.38	1.92	1.29	1.06
(WY)	1992	1996	1996	1987	1992	1994	1991	1988	1988	1994	1991	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1987 - 1996	
ANNUAL TOTAL	12305.68		17679.84			
ANNUAL MEAN	33.7		48.3		36.5	
HIGHEST ANNUAL MEAN					62.3	1989
LOWEST ANNUAL MEAN					12.7	1992
HIGHEST DAILY MEAN	2020	May 18	2120	Apr 29	2120	Apr 29 1996
LOWEST DAILY MEAN	.50	Oct 10	.50	Oct 10	.28	Oct 4 1991
ANNUAL SEVEN-DAY MINIMUM	.77	Oct 6	.77	Oct 6	.39	Oct 2 1991
INSTANTANEOUS PEAK FLOW			3050	Apr 29	3430	Nov 14 1993
INSTANTANEOUS PEAK STAGE			16.64	Apr 29	17.17	Nov 14 1993
ANNUAL RUNOFF (CFSM)	.95		1.36		1.03	
ANNUAL RUNOFF (INCHES)	12.93		18.58		14.00	
10 PERCENT EXCEEDS	44		75		48	
50 PERCENT EXCEEDS	4.9		6.9		6.0	
90 PERCENT EXCEEDS	1.1		1.1		1.1	

e Estimated

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 downstream from bridge on State Highway 218, 800 ft downstream from Shoemaker Ditch, 0.8 mi north of Linn Grove, and 2.2 mi upstream from Rice Ditch.
DRAINAGE AREA.--453 mi².
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 above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor. Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	43	158	e148	e430	1730	412	3290	1520	46	415	21
2	7.6	98	158	e150	e400	848	431	2990	913	44	162	20
3	16	240	154	e150	e380	493	295	2090	660	42	92	20
4	28	201	149	e155	e370	327	229	1560	606	40	65	19
5	55	97	148	e160	e360	413	193	1650	505	36	53	20
6	678	66	144	e164	e350	714	164	1870	446	34	47	20
7	1230	111	138	e172	e345	589	149	1950	1050	31	41	19
8	923	477	127	e182	e340	419	135	1550	1470	32	38	18
9	300	261	e120	e198	e370	352	118	1270	1500	34	35	21
10	156	145	e115	e206	426	381	104	1450	2460	30	33	23
11	134	369	e112	e218	459	357	94	2080	2790	30	29	23
12	147	1150	e110	e225	416	296	92	2900	2560	30	28	20
13	69	781	e110	e235	315	285	89	2610	1830	29	29	20
14	56	347	e108	e250	e290	288	92	1660	1050	28	28	18
15	47	219	e110	e270	e270	312	93	1030	640	30	27	16
16	41	165	e114	334	e260	334	91	859	513	59	26	17
17	39	135	e118	1410	e250	319	90	826	372	94	26	23
18	36	242	e120	3540	e240	306	81	784	334	816	25	32
19	42	429	e120	e6500	e230	321	76	664	336	1430	26	26
20	42	388	e128	e6000	e230	779	77	574	356	794	33	22
21	45	345	e132	e5400	e230	1010	73	535	245	249	32	22
22	57	305	e138	3940	e230	953	166	499	174	175	28	21
23	48	278	e140	2440	e250	844	1160	464	143	164	26	19
24	41	259	e142	e1700	e270	1050	2300	598	123	108	25	22
25	37	242	e142	e1280	e300	1640	3060	1110	108	81	33	19
26	35	236	e142	e1100	e350	2140	2380	906	110	65	26	17
27	35	240	e142	e960	966	2070	1360	919	98	53	25	21
28	36	237	e142	e770	1810	1160	764	1660	87	48	24	30
29	35	202	e141	e660	2280	699	1210	2960	82	64	83	74
30	35	162	e141	578	---	518	2320	3220	61	313	23	51
31	38	---	e144	474	---	433	---	2580	---	897	23	---
TOTAL	4500.6	8470	4107	39969	13417	22380	17898	49108	23142	5926	1606	714
MEAN	145	282	132	1289	463	722	597	1584	771	191	51.8	23.8
MAX	1230	1150	158	6500	2280	2140	3060	3290	2790	1430	415	74
MIN	7.6	43	108	148	230	285	73	464	61	28	23	16
CFSM	.32	.62	.29	2.85	1.02	1.59	1.32	3.50	1.70	.42	.11	.05
IN.	.37	.70	.34	3.28	1.10	1.84	1.47	4.03	1.90	.49	.13	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

MEAN	94.4	303	499	511	679	777	668	378	345	273	158	104
MAX	553	1853	1514	1563	1717	2397	2085	1584	1914	1877	1513	753
(WY)	1991	1973	1991	1974	1976	1978	1972	1996	1981	1993	1995	1972
MIN	6.84	7.52	9.25	6.19	86.0	80.5	68.2	25.9	8.92	11.7	8.20	7.64
(WY)	1965	1966	1977	1977	1978	1981	1971	1988	1988	1965	1966	1967

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1965 - 1996	
ANNUAL TOTAL	147496.6		191237.6			
ANNUAL MEAN	404		523		398	
HIGHEST ANNUAL MEAN					710	1973
LOWEST ANNUAL MEAN					76.8	1966
HIGHEST DAILY MEAN	6580	Aug 11	6500	Jan 19	8460	Jul 4 1993
LOWEST DAILY MEAN	7.6	Oct 2	7.6	Oct 2	4.3	Jul 9 1988
ANNUAL SEVEN-DAY MINIMUM	14	Jan 4	19	Sep 2	5.1	Jul 7 1988
INSTANTANEOUS PEAK FLOW			7140	Jan 19	9560	Mar 17 1978
INSTANTANEOUS PEAK STAGE			13.20	Jan 19	13.87	Mar 17 1978
ANNUAL RUNOFF (CFSM)	.89		1.15		.88	
ANNUAL RUNOFF (INCHES)	12.11		15.70		11.92	
10 PERCENT EXCEEDS	1230		1550		1170	
50 PERCENT EXCEEDS	143		173		118	
90 PERCENT EXCEEDS	28		26		12	

e Estimated

03323500 WABASH RIVER AT HUNTINGTON, IN

LOCATION.--Lat 40°51'20", long 85°29'53", in SW¼NE¼ sec.27, T.28 N., R.9 E., Huntington County, Hydrologic Unit 05120101, on right bank at the Huntington Water and Light Plant, 2 mi south of Huntington, 2.4 mi downstream from Huntington Lake, 3.2 mi upstream from Little River, and at mile 409.0.

DRAINAGE AREA.--721 mi^2.

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

REVISED RECORDS.--WSP 1909: 1959. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.04 ft above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to July 5, 1951, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Huntington Lake since January 1969. Daily discharge computed from relation between discharge, head, and gate openings for Huntington Lake beginning Oct. 1, 1974.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--45 years, 607 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft^3/s Feb. 10, 1959; maximum gage height 23.20 ft Feb 10, 1959 (backwater from ice); minimum daily discharge, 0.00 ft^3/s Sept. 12, 1989.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 22.7 ft, from high-water mark by U.S. Army Corps. of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,490 ft^3/s Jan. 22; minimum daily discharge, 17 ft^3/s Apr. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	61	129	107	263	2810	366	2170	3300	102	1210	76
2	61	84	124	112	216	2730	370	2240	3360	127	993	81
3	57	96	125	115	196	1680	337	2920	3290	121	273	72
4	57	128	125	115	250	945	246	3250	3190	101	205	39
5	66	179	125	135	260	536	196	2710	3090	87	127	27
6	82	192	125	119	256	528	211	2170	2360	80	127	27
7	171	188	117	182	244	689	202	2200	1430	75	118	38
8	616	359	113	191	237	588	134	2830	1730	75	113	55
9	888	261	83	120	292	361	109	2800	1910	75	101	61
10	850	207	46	72	330	314	133	2250	1360	75	88	61
11	693	220	29	121	428	364	127	2100	1470	68	70	89
12	331	373	26	233	462	364	113	2550	1560	61	61	112
13	146	700	27	151	350	246	130	3250	2470	61	61	111
14	109	808	28	93	278	229	137	3410	3160	70	61	110
15	108	642	203	95	255	292	61	3310	3180	79	61	110
16	107	250	217	98	218	288	17	1930	3080	84	61	109
17	106	165	148	216	210	282	18	563	2950	103	61	109
18	105	164	145	1090	143	295	18	598	2190	131	62	108
19	104	151	94	3220	137	295	19	765	1060	174	58	108
20	97	217	71	4880	203	524	19	937	691	192	43	107
21	94	310	71	5440	239	1060	20	916	706	1140	44	106
22	94	334	101	5490	256	1350	20	1030	317	2470	44	106
23	94	325	116	5450	250	1470	22	1140	547	3040	33	106
24	93	313	117	5320	232	1490	1020	1360	639	3100	53	106
25	93	251	124	4640	224	1810	2800	1560	286	2980	95	105
26	93	221	127	3470	241	2280	3210	1780	187	2060	95	105
27	93	217	120	2990	424	2480	2510	2370	197	1540	63	105
28	92	198	96	2900	1410	2100	1450	1630	201	1470	43	123
29	92	189	101	2370	2440	973	1380	1710	137	1100	43	161
30	92	157	107	1410	---	719	1910	2040	81	394	56	208
31	74	---	107	572	---	423	---	2850	---	549	67	---
TOTAL	5829	7960	3287	51517	10944	30515	17305	63339	50129	21784	4590	2841
MEAN	188	265	106	1662	377	984	577	2043	1671	703	148	94.7
MAX	888	808	217	5490	2440	2810	3210	3410	3360	3100	1210	208
MIN	57	61	26	72	137	229	17	563	81	61	33	27

CAL YR 1995 TOTAL 195287 MEAN 535 MAX 4950 MIN 11
WTR YR 1996 TOTAL 270040 MEAN 738 MAX 5490 MIN 17

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 former highway bridge, 5 mi east of Huntington, and at mile 7.5.
DRAINAGE AREA.--263 mi².
PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, 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 above sea level. Prior to Oct. 1, 1948, nonrecording gage 4 mi downstream at datum 8.79 ft lower, and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. During periods of extreme high water in the St. Marys River, some water leaves the St. Marys River basin through Junk Ditch and flows into Little River basin via Graham McCulloch Ditch.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	42	24	e35	e80	136	100	296	363	65	452	33
2	19	61	23	e37	e68	108	92	187	373	57	234	31
3	22	124	23	e38	e63	84	85	150	361	54	155	31
4	27	64	25	e40	e60	87	83	126	276	51	118	29
5	29	37	24	e43	e61	90	73	138	295	48	97	30
6	36	28	23	e44	e65	225	65	419	217	43	81	28
7	33	47	e23	e46	e72	167	64	251	455	46	72	29
8	26	68	e23	e48	87	150	60	178	321	116	66	39
9	23	46	e23	e49	147	124	55	175	299	68	80	41
10	29	38	e23	e50	131	91	53	409	2000	50	63	43
11	23	75	e23	e51	124	73	50	903	1660	42	55	42
12	21	179	e23	e52	e86	61	49	459	2000	39	51	31
13	22	84	e23	e54	e60	60	52	258	1080	37	46	29
14	22	59	e23	e56	e49	59	52	183	454	39	43	28
15	23	44	e23	e58	e46	61	51	178	280	49	41	28
16	22	39	e23	e70	e44	76	65	864	202	94	38	27
17	18	35	e24	193	e42	81	56	3200	159	90	39	27
18	22	34	e24	1250	e41	80	50	2550	363	3480	39	26
19	20	32	e25	1520	e40	78	62	1360	637	5050	38	25
20	23	31	e26	531	e40	237	73	620	364	4140	42	25
21	41	29	e27	229	e40	287	62	381	222	2280	165	31
22	33	29	e28	141	e40	207	170	258	167	874	157	85
23	26	27	e29	131	e41	187	631	195	177	443	86	56
24	19	28	e30	612	e42	219	560	544	147	294	72	40
25	21	26	e32	342	e44	294	278	1100	131	237	54	33
26	20	24	e33	184	e49	207	225	435	100	167	45	29
27	31	25	e33	196	147	125	167	1090	86	127	40	125
28	54	25	e33	225	477	104	133	1770	80	104	43	415
29	37	23	e33	189	211	99	159	2080	74	111	41	183
30	26	24	e33	123	---	92	358	1710	71	1030	39	91
31	27	---	e34	e100	---	88	---	723	---	1170	34	---
TOTAL	816	1427	816	6737	2497	4037	4033	23190	13414	20495	2626	1710
MEAN	26.3	47.6	26.3	217	86.1	130	134	748	447	661	84.7	57.0
MAX	54	179	34	1520	477	294	631	3200	2000	5050	452	415
MIN	18	23	23	35	40	59	49	126	71	37	34	25
CFSM	.10	.18	.10	.83	.33	.50	.51	2.84	1.70	2.51	.32	.22
IN.	.12	.20	.12	.95	.35	.57	.57	3.28	1.90	2.90	.37	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1996, BY WATER YEAR (WY)

MEAN	85.2	159	271	317	389	480	419	238	224	111	60.3	53.7
MAX	701	1137	1010	1693	1164	1765	1396	748	809	661	501	414
(WY)	1955	1993	1967	1950	1959	1982	1957	1996	1958	1996	1958	1992
MIN	5.72	10.2	8.93	6.25	17.5	90.7	40.3	35.2	22.3	15.9	7.76	4.22
(WY)	1963	1965	1964	1977	1964	1981	1946	1963	1988	1962	1963	1962

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1945 - 1996	
ANNUAL TOTAL	55451		81798			
ANNUAL MEAN	152		223		233	
HIGHEST ANNUAL MEAN					450	1950
LOWEST ANNUAL MEAN					67.0	1954
HIGHEST DAILY MEAN	2820	Apr 11	5050	Jul 19	5610	Mar 14 1982
LOWEST DAILY MEAN	15	Sep 6	18	Oct 17	1.1	Oct 8 1946
ANNUAL SEVEN-DAY MINIMUM	17	Sep 1	21	Oct 13	1.8	Oct 7 1946
INSTANTANEOUS PEAK FLOW			5130	Jul 19	5990	Jan 4 1950
INSTANTANEOUS PEAK STAGE			18.75	Jul 19	19.50	Feb 25 1985
ANNUAL RUNOFF (CFSM)	.58		.85		.89	
ANNUAL RUNOFF (INCHES)	7.84		11.57		12.04	
10 PERCENT EXCEEDS	274		446		576	
50 PERCENT EXCEEDS	57		61		66	
90 PERCENT EXCEEDS	20		24		14	

e Estimated

03324300 SALAMONIE RIVER NEAR WARREN, IN

LOCATION.--Lat 40°42'45", long 85°27'13", in SE¼SE¼ 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 mi downstream from Detamore Ditch, 0.4 mi downstream from Interstate 69, 0.8 mi upstream from concrete and stone dam, 2.4 mi northwest of Warren, and at mile 30.0.
DRAINAGE AREA.--425 mi^2.
PERIOD OF RECORD.--March 1957 to current year.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 784.65 ft above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to July 28, 1960, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	28	46	e41	e120	404	208	2970	520	73	256	15
2	18	40	41	49	e108	275	239	914	419	72	67	18
3	29	60	43	41	e96	173	215	538	352	71	34	21
4	40	91	45	e40	e88	140	180	936	293	67	23	24
5	46	69	43	e39	e80	190	153	1550	260	62	18	25
6	e90	37	41	e38	e74	705	134	2230	306	61	16	25
7	e300	32	40	e37	e69	501	126	1100	849	64	15	27
8	67	54	39	e36.5	e72	231	120	599	1530	73	18	27
9	24	109	38	e36	154	153	108	818	576	87	17	27
10	16	39	36	e35.5	203	e131	100	1520	2430	89	15	30
11	12	39	33	e35.5	211	e120	92	4220	2000	86	15	29
12	14	547	32	e35	174	116	90	3860	1940	90	15	25
13	14	292	34	e34.5	111	114	93	1750	1040	90	15	24
14	13	128	39	e34	118	119	92	599	438	99	16	23
15	11	94	45	e37	e93	138	95	413	278	125	18	20
16	11	79	47	e50	e74	159	102	423	205	135	18	25
17	10	71	45	664	e65.5	157	100	442	164	259	17	32
18	11	63	47	4710	e60	144	93	372	148	1950	19	30
19	11	74	45	e6000	e56.3	145	90	290	218	1440	21	32
20	15	98	40	e5200	e56	619	90	230	324	446	27	31
21	18	85	e39	e4250	e57.5	1080	89	203	200	161	52	36
22	21	73	e37.5	951	e62	826	191	179	204	105	20	50
23	29	65	e36	631	e71	683	1610	162	155	115	13	37
24	23	60	e36	2630	86	1080	3230	315	118	69	12	35
25	21	54	e36	2510	124	1960	2790	1400	98	44	11	26
26	20	50	e35	768	129	2070	796	697	87	31	11	21
27	20	49	e34	620	1080	569	472	999	81	22	15	67
28	20	49	e33.1	662	2560	324	322	2990	78	19	12	181
29	22	48	e32.2	355	1190	273	1610	5340	75	19	10	94
30	21	48	e31.6	201	---	245	3350	3450	75	120	11	39
31	26	---	e33	e135	---	227	---	988	---	340	13	---
TOTAL	1010	2625	1202.4	30906.0	7442.3	14071	16980	42497	15461	6484	840	1096
MEAN	32.6	87.5	38.8	997	257	454	566	1371	515	209	27.1	36.5
MAX	300	547	47	6000	2560	2070	3350	5340	2430	1950	256	181
MIN	10	28	32	34	56	114	89	162	75	19	10	15
CFSM	.08	.21	.09	2.35	.60	1.07	1.33	3.23	1.21	.49	.06	.09
IN.	.09	.23	.11	2.71	.65	1.23	1.49	3.72	1.35	.57	.07	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	87.4	316	482	489	627	851	716	369	343	223	118	96.7
MAX	489	1794	1685	1724	1906	2616	2214	1371	2312	1313	991	894
(WY)	1991	1993	1991	1974	1976	1978	1964	1996	1958	1993	1990	1972
MIN	8.13	13.7	11.4	6.12	19.2	103	74.5	32.8	16.7	23.8	11.8	9.22
(WY)	1964	1964	1977	1977	1964	1981	1976	1988	1988	1967	1965	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	104099.4		140614.7			
ANNUAL MEAN	285		384		392	
HIGHEST ANNUAL MEAN					665	1993
LOWEST ANNUAL MEAN					109	1966
HIGHEST DAILY MEAN	4310	Jan 21	6000	Jan 19	10700	Feb 24 1985
LOWEST DAILY MEAN	10	Oct 17	10	Oct 17	5.1	Jan 2 1977
ANNUAL SEVEN-DAY MINIMUM	12	Oct 13	12	Oct 13	5.9	Dec 29 1976
INSTANTANEOUS PEAK FLOW			7010	Jan 18	13200	Feb 10 1959
INSTANTANEOUS PEAK STAGE			12.79	Jan 18	17.05	Feb 10 1959
ANNUAL RUNOFF (CFSM)	.67		.90		.92	
ANNUAL RUNOFF (INCHES)	9.11		12.31		12.52	
10 PERCENT EXCEEDS	710		1050		954	
50 PERCENT EXCEEDS	87		78		92	
90 PERCENT EXCEEDS	21		18		17	

e Estimated

03324500 SALAMONIE RIVER AT DORA, IN

LOCATION.--Lat 40°48'42", long 85°41'02", in NE¼NE¼ sec.12, T.27 N., R.7 E., Wabash County, Hydrologic Unit 05120102, on right bank, 0.4 mi downstream from Salamonie Lake, 1.5 mi northwest of Dora, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--557 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1951, non-recording gage at site 1.5 mi upstream at datum 688.59 ft above sea level, (levels by U.S. Army Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank 2,000 ft upstream at datum 679.77 ft above sea level, (levels by U.S. Army Corps of Engineers). Oct. 9, 1961, to Sept. 30, 1974, water-stage recorder at site described in "LOCATION" paragraph.

REMARKS.--Flow regulated by Salamonie Lake since April 1967.

COOPERATION.-Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--72 years, 513 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s May 18, 1943, gage height, 14.75 ft, from graph based on gage readings, site and datum then in use; minimum daily, 0.70 ft^3/s Oct. 30, 1968, result of abnormal regulation.

EXTREMES FOR CURRENT YEAR.-- Maximum daily discharge, 3,700 ft^3/s June. 22; minimum daily, 18 ft^3/s Dec. 12-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	367	71	52	2450	1180	63	2060	827	120	557	26
2	325	365	71	65	1540	682	63	2070	826	120	281	26
3	325	362	64	71	730	359	63	1560	824	103	179	26
4	324	359	52	71	594	356	63	1010	1170	95	120	26
5	323	357	52	71	577	353	63	1090	1520	83	78	26
6	375	354	52	71	464	353	63	1860	1510	55	94	26
7	435	351	52	83	242	568	63	2160	1500	48	70	26
8	434	348	52	90	165	429	63	1690	1500	48	70	26
9	433	345	52	79	184	245	63	1030	1300	48	70	26
10	431	343	52	52	202	202	63	958	505	79	55	26
11	615	340	29	68	312	202	54	527	513	26	33	26
12	693	338	18	91	284	202	43	561	348	26	26	54
13	688	340	18	70	184	158	43	807	350	26	26	70
14	682	339	18	52	184	127	43	944	851	26	26	70
15	676	336	18	53	121	151	43	1180	1000	26	26	70
16	670	334	18	53	121	204	30	1590	996	122	26	70
17	664	331	18	127	143	221	24	124	992	208	26	70
18	658	327	18	557	108	207	24	220	1560	213	26	70
19	651	324	18	695	108	172	24	1100	2240	219	26	70
20	475	321	18	776	117	333	24	1940	2860	221	26	70
21	396	317	18	827	126	380	24	2050	3530	222	26	70
22	393	314	67	1110	131	168	24	1910	3700	222	26	70
23	391	310	99	1490	114	212	24	1810	3150	312	26	70
24	388	307	98	1630	105	217	24	1590	1580	679	26	70
25	385	303	98	1880	95	225	24	1570	757	1140	195	70
26	383	298	97	2420	159	535	25	2200	158	1490	26	70
27	380	294	67	2630	197	342	25	1250	158	2350	26	70
28	378	289	52	2580	1060	79	25	573	157	2610	26	70
29	375	285	52	2870	1720	62	25	591	157	2550	26	70
30	372	163	52	3030	---	63	1220	696	132	1290	26	70
31	370	---	52	2880	---	63	---	826	---	558	26	---
TOTAL	14414	9761	1513	26594	12537	9050	2422	39547	36671	15335	2296	1600
MEAN	465	325	48.8	858	432	292	80.7	1276	1222	495	74.1	53.3
MAX	693	367	99	3030	2450	1180	1220	2200	3700	2610	557	70
MIN	323	163	18	52	95	62	24	124	132	26	26	26

CAL YR 1995 TOTAL 128648 MEAN 352 MAX 3450 MIN 18
WTR YR 1996 TOTAL 171740 MEAN 469 MAX 3700 MIN 18

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 mi downstream from Salamonie River, and at mile 387.2.
DRAINAGE AREA.--1,768 mi².
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. WDR IN-84-1: 1983.
GAGE.--Water-stage recorder. Datum of gage is 642.66 ft above sea level. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Salamonie Lake beginning April 1967 and by Huntington Lake beginning October 1976.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.7 ft Mar. 26, 1913, from floodmark, determined by U.S. Army Corps of Engineers, discharge, 90,000 ft³/s, from rating curve extended above 49,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	389	575	324	e176	e1480	4580	946	4960	4950	353	2730	167
2	384	631	262	e180	e970	3930	919	4770	5150	380	2490	172
3	399	653	257	e151	e670	e2500	864	4660	5100	386	928	185
4	385	646	245	e172	e640	e1460	771	4790	4970	348	745	178
5	389	614	246	e199	e620	e960	549	4510	5270	311	483	138
6	421	664	242	e222	e600	e830	533	4740	4940	262	446	118
7	525	684	e219	e214	e540	e1100	579	4970	4330	243	388	119
8	726	740	e192	e248	722	e1000	507	4780	3930	271	366	124
9	1330	963	e166	e281	818	e840	378	4650	4210	319	375	158
10	1320	667	e142	e230	978	e730	375	4290	5430	293	348	166
11	1430	770	e119	e190	1090	e790	416	5000	4890	207	285	164
12	1270	1000	e94	e240	1260	927	346	3920	5330	189	222	219
13	949	1210	e78	e350	1060	845	342	4660	4690	180	219	264
14	838	1370	e70	e168	790	527	360	4890	5020	174	211	260
15	829	1320	e105	e160	e595	681	377	4940	4960	195	209	254
16	822	976	467	354	e470	847	258	4870	4670	398	203	252
17	816	667	376	857	e350	864	204	6030	4450	644	193	248
18	813	658	315	3600	e320	896	184	4820	4580	10200	190	242
19	810	647	e255	5400	e250	867	188	4090	4600	14000	176	236
20	709	611	e207	6370	e330	1160	209	3990	4160	6360	177	239
21	521	736	e172	6670	553	2220	209	3710	4570	4820	258	276
22	517	836	e151	6820	646	2000	382	3400	4730	4530	e198	272
23	507	829	e199	7020	646	2190	1310	3350	4030	4380	e190	302
24	501	816	e240	7860	612	2320	1570	3400	3110	4600	e240	267
25	495	793	e230	7450	576	2650	3230	5150	1300	4860	e300	250
26	490	689	e242	6410	618	3190	3900	4670	653	4440	e240	246
27	524	682	e210	5890	845	3220	3590	5550	601	4010	223	287
28	517	675	e170	e5400	2820	2730	2250	5890	589	4350	185	628
29	525	648	e155	e5180	4530	1840	2000	e6000	570	4130	158	630
30	510	556	e174	e4220	---	1240	3520	e5450	419	3740	155	457
31	520	---	e190	e2460	---	1050	---	5020	---	3520	159	---
TOTAL	21181	23326	6514	85142	26399	50984	31266	145920	116202	83093	13690	7518
MEAN	683	778	210	2747	910	1645	1042	4707	3873	2680	442	251
MAX	1430	1370	467	7860	4530	4580	3900	6030	5430	14000	2730	630
MIN	384	556	70	151	250	527	184	3350	419	174	155	118
CFSM	.39	.44	.12	1.55	.51	.93	.59	2.66	2.19	1.52	.25	.14
IN.	.45	.49	.14	1.79	.56	1.07	.66	3.07	2.44	1.75	.29	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1996, BY WATER YEAR (WY)

MEAN	594	951	1716	2235	2392	3062	2717	1615	1332	809	474	497
MAX	3200	5044	5829	13260	7764	8144	11060	10410	8260	4776	2179	5675
(WY)	1927	1993	1968	1950	1959	1982	1957	1943	1958	1993	1990	1926
MIN	32.3	61.7	56.0	72.8	114	177	264	135	78.3	55.4	43.4	29.9
(WY)	1964	1965	1964	1977	1964	1941	1971	1941	1988	1934	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1924 - 1996	
ANNUAL TOTAL	449958		611235			
ANNUAL MEAN	1233		1670		1529	
HIGHEST ANNUAL MEAN					2994	1950
LOWEST ANNUAL MEAN					276	1931
HIGHEST DAILY MEAN	7430	Jan 21	14000	Jul 19	47800	May 18 1943
LOWEST DAILY MEAN	70	Dec 14	70	Dec 14	17	Aug 3 1934
ANNUAL SEVEN-DAY MINIMUM	89	Sep 8	111	Dec 9	18	Aug 3 1934
INSTANTANEOUS PEAK FLOW			18800	Jul 19	49600	May 18 1943
INSTANTANEOUS PEAK STAGE			18.47	Jul 19	24.44	Feb 11 1959
ANNUAL RUNOFF (CFSM)	.70		.94		.87	
ANNUAL RUNOFF (INCHES)	9.47		12.86		11.75	
10 PERCENT EXCEEDS	3590		4890		4510	
50 PERCENT EXCEEDS	642		646		518	
90 PERCENT EXCEEDS	194		185		85	

e Estimated

03325311 LITTLE MISSISSINEWA RIVER AT UNION CITY, IN

LOCATION.--Lat 40°11'46", long 84°49'45", in SE¼SE¼ sec.26, T.18 N., R.1 W., Randolph County, Hydrologic Unit 05120103, on right bank 85 ft downstream from Westinghouse Road, 0.5 mi downstream from Little Ditch, 0.8 mi upstream from City Drain, and 1.2 mi west of the Post Office in Union City.
DRAINAGE AREA.--9.67 mi².
PERIOD OF RECORD.--October 1982 to current year.
GAGE.--Water-stage recorder. Datum of gage is 1075.50 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.89	1.7	3.7	e7.0	21	43	67	8.3	1.9	.81	.11
2	.13	3.4	1.3	5.2	e6.4	14	22	38	7.1	1.9	.72	.11
3	.70	4.7	1.4	4.5	e6.2	9.3	14	26	6.2	1.8	.63	.13
4	.74	2.1	1.2	e2.5	e6.0	6.0	9.6	68	5.8	1.6	.56	.15
5	18	1.5	1.3	e2.3	e5.9	10	7.1	67	4.7	1.5	.52	.13
6	20	1.3	1.1	e2.1	e5.9	20	6.7	57	4.5	1.4	.48	.11
7	5.3	8.4	1.1	e2.0	e6.2	13	5.9	35	5.0	1.4	.47	.12
8	2.0	5.1	e1.0	e1.9	e7.0	9.3	5.1	60	4.7	1.4	.50	.12
9	1.4	3.0	e.90	e1.8	8.2	7.8	4.6	78	31	1.3	.48	.52
10	1.1	2.5	e.86	e1.7	7.3	4.9	4.1	51	43	1.1	.42	.23
11	.94	50	e.82	e1.7	8.3	4.8	4.3	64	23	1.0	.40	.18
12	.87	26	e.82	e1.6	6.8	5.2	4.5	37	28	1.0	.38	.17
13	.89	11	e1.0	e1.5	5.9	5.7	4.3	22	13	1.1	.35	.19
14	.98	7.2	2.7	e1.5	4.4	7.1	3.5	16	9.0	1.0	.32	.21
15	.94	5.5	1.9	e1.6	3.3	8.8	4.3	14	7.9	1.4	.30	.19
16	.81	4.0	1.7	e2.3	2.9	7.3	3.6	15	6.5	1.1	.28	.70
17	.70	3.9	1.5	108	e2.8	6.6	3.0	12	5.6	1.2	.30	.52
18	.75	9.4	1.9	320	e2.7	5.5	3.3	9.5	5.2	73	.29	.21
19	.73	6.5	6.7	218	e2.6	6.7	3.4	8.1	4.8	31	.27	.17
20	1.1	5.5	5.9	72	2.6	7.0	17	7.2	4.4	9.3	.28	.15
21	1.3	4.4	3.3	41	2.5	14	9.1	6.3	3.9	6.8	.26	.20
22	.98	3.3	2.7	30	3.1	14	11	5.3	3.5	18	.26	.31
23	.85	2.9	2.5	58	5.5	13	111	5.0	3.2	7.0	.37	.21
24	.88	2.1	e2.1	97	7.7	43	82	5.1	3.1	3.3	.33	.24
25	.82	2.1	e1.8	52	6.7	98	44	4.6	2.7	2.2	.25	.29
26	.81	2.2	e1.7	32	7.7	50	29	4.5	2.3	1.6	.24	.28
27	1.0	2.3	e1.6	e20	80	25	18	23	2.2	1.2	.22	1.2
28	.95	1.6	e1.6	e13	77	17	14	24	2.1	1.1	.22	1.6
29	.80	1.4	e1.5	e11	37	13	190	49	2.0	1.0	.22	.67
30	.71	1.5	e1.5	e8.8	---	11	129	21	2.0	1.0	.18	.37
31	.79	---	e1.6	e7.6	---	10	---	11	---	.90	.16	---
TOTAL	68.07	185.69	58.70	1126.3	335.6	488.0	810.4	910.6	254.7	180.50	11.47	9.79
MEAN	2.20	6.19	1.89	36.3	11.6	15.7	27.0	29.4	8.49	5.82	.37	.33
MAX	20	50	6.7	320	80	98	190	78	43	73	.81	1.6
MIN	.10	.89	.82	1.5	2.5	4.8	3.0	4.5	2.0	.90	.16	.11
CFSM	.23	.64	.20	3.76	1.20	1.63	2.79	3.04	.88	.60	.04	.03
IN.	.26	.71	.23	4.33	1.29	1.88	3.12	3.50	.98	.69	.04	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1996, BY WATER YEAR (WY)

MEAN	3.46	10.9	11.9	10.6	14.0	15.6	17.9	12.5	8.39	10.5	1.93	2.23
MAX	23.1	42.9	53.4	36.3	38.6	29.9	33.7	29.4	24.2	33.5	11.2	24.0
(WY)	1987	1994	1991	1996	1990	1993	1989	1996	1987	1992	1990	1989
MIN	.035	.084	.81	1.19	3.52	3.05	8.60	.93	.23	.065	.004	.000
(WY)	1983	1988	1995	1988	1995	1983	1991	1988	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1983 - 1996	
ANNUAL TOTAL	2654.33		4439.82			
ANNUAL MEAN	7.27		12.1		9.96	
HIGHEST ANNUAL MEAN					14.8	1986
LOWEST ANNUAL MEAN					3.53	1988
HIGHEST DAILY MEAN	262	May 19	320	Jan 18	480	Dec 30 1990
LOWEST DAILY MEAN	.05	Jan 7	.10	Oct 1	.00	Oct 1 1982
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 26	.12	Sep 1	.00	Aug 20 1983
INSTANTANEOUS PEAK FLOW			437	Jan 19	625	Nov 14 1993
INSTANTANEOUS PEAK STAGE			7.13	Jan 19	8.67	Jun 3 1987
ANNUAL RUNOFF (CFSM)	.75		1.25		1.03	
ANNUAL RUNOFF (INCHES)	10.21		17.08		13.99	
10 PERCENT EXCEEDS	16		31		26	
50 PERCENT EXCEEDS	2.5		3.1		2.8	
90 PERCENT EXCEEDS	.10		.29		.09	

e Estimated

03325500 MISSISSINEWA RIVER NEAR RIDGEVILLE, IN

LOCATION.--Lat 40°16'48", long 84°59'33", in NW¼NW¼ sec.17, T.21 N., R.14 E., Randolph County, Hydrologic Unit 05120103, on left bank 800 ft upstream from county road bridge, 0.6 mi downstream from Mud Creek, 2 mi east of Ridgeville, and at mile 99.7.
DRAINAGE AREA.--133 mi².
PERIOD OF RECORD.--August 1946 to current year.
REVISED RECORDS.--WSP 1235: 1948. WSP 1335: 1953. WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 965.28 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 5, 1950, nonrecording gage at same site and datum. Prior to Oct. 15, 1994, at site 800 ft downstream, at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	18	26	48	e76	117	268	610	94	20	30	6.1
2	8.1	41	23	103	e74	91	175	356	82	20	20	5.8
3	17	37	22	111	e71	66	122	231	76	20	15	5.9
4	26	23	21	e43	e70	54	99	681	71	17	13	6.1
5	345	16	20	e38	70	66	82	856	62	15	11	6.6
6	695	14	19	e34	73	142	76	735	71	14	10	6.7
7	137	117	18	e32	79	91	69	302	145	13	9.6	6.7
8	57	85	e16	e30	93	67	60	360	83	15	9.5	7.2
9	29	41	e15	e29	131	90	53	637	457	12	9.1	14
10	20	32	e13	e28	95	50	48	488	840	11	8.6	11
11	15	571	e12	e27	93	41	45	1040	357	9.8	8.0	8.0
12	12	290	e13	e27	54	40	44	372	450	9.7	7.8	7.3
13	11	126	20	e26	46	39	46	201	167	9.6	7.6	7.2
14	12	91	25	e26	45	42	42	146	106	9.2	7.2	6.9
15	11	73	22	e26	36	57	43	243	84	20	7.2	7.5
16	11	57	17	e26	31	55	44	257	71	17	7.6	11
17	10	49	15	2110	37	51	37	209	63	13	7.1	23
18	10	186	16	3830	48	45	36	149	62	1840	7.0	10
19	11	120	31	3480	32	57	38	115	58	360	6.7	7.3
20	14	90	63	1000	30	116	264	97	50	121	6.4	6.4
21	24	72	43	283	31	158	133	85	45	91	6.3	7.1
22	17	56	34	198	35	157	252	71	42	171	6.2	12
23	13	49	30	509	50	134	2680	64	37	85	7.2	12
24	12	37	e27	1620	83	641	1490	68	38	55	9.1	10
25	12	34	e25	416	72	2240	413	81	34	41	7.0	9.3
26	12	35	e23	225	93	507	280	63	28	30	5.8	7.8
27	13	36	e22	e140	770	228	180	710	25	23	5.6	13
28	16	30	e22	e110	864	165	161	501	24	20	5.8	84
29	14	24	e22	e96	213	152	2860	898	23	37	6.0	33
30	13	23	e22	e84	---	130	2080	229	22	63	6.0	13
31	13	---	e23	e80	---	120	---	127	---	104	5.6	---
TOTAL	1615.0	2473	720	14835	3495	6009	12220	10982	3767	3286.3	279.0	371.9
MEAN	52.1	82.4	23.2	479	121	194	407	354	126	106	9.00	12.4
MAX	695	571	63	3830	864	2240	2860	1040	840	1840	30	84
MIN	4.9	14	12	26	30	39	36	63	22	9.2	5.6	5.8
CFSM	.39	.62	.17	3.60	.91	1.46	3.06	2.66	.94	.80	.07	.09
IN.	.45	.69	.20	4.15	.98	1.68	3.42	3.07	1.05	.92	.08	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

MEAN	30.7	96.8	148	184	204	252	225	123	141	99.3	40.3	31.2
MAX	272	729	872	865	548	714	810	354	1417	709	454	337
(WY)	1987	1994	1991	1950	1950	1978	1964	1996	1958	1979	1979	1972
MIN	1.25	1.82	2.62	3.25	5.00	46.1	25.8	15.3	6.52	2.37	2.13	.99
(WY)	1947	1954	1964	1977	1964	1957	1976	1988	1988	1952	1983	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996	
ANNUAL TOTAL	33776.2		60053.2			
ANNUAL MEAN	92.5		164		131	
HIGHEST ANNUAL MEAN					223	1958
LOWEST ANNUAL MEAN					29.8	1954
HIGHEST DAILY MEAN	3630	May 19	3830	Jan 18	11300	Jun 10 1958
LOWEST DAILY MEAN	1.6	Aug 24	4.9	Oct 1	.10	Oct 24 1946
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 24	5.8	Aug 26	.23	Oct 5 1946
INSTANTANEOUS PEAK FLOW			4000	Jan 18	13900	Jun 10 1958
INSTANTANEOUS PEAK STAGE			13.92	Jan 18	16.25	Jun 10 1958
ANNUAL RUNOFF (CFSM)	.70		1.23		.98	
ANNUAL RUNOFF (INCHES)	9.45		16.80		13.35	
10 PERCENT EXCEEDS	176		358		278	
50 PERCENT EXCEEDS	28		41		29	
90 PERCENT EXCEEDS	6.4		7.9		3.9	

e Estimated

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 downstream from bridge on County Road 100 East, and 2.0 mi southeast of Hartford City.
DRAINAGE AREA.--29.2 mi².
PERIOD OF RECORD.--July 1971 to current year.
GAGE.--Water-stage recorder. Datum of gage is 865.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.8	1.3	1.7	e4.7	5.9	13	83	4.5	1.1	1.1	1.1
2	1.6	5.3	1.3	2.3	e4.1	3.4	11	38	3.3	1.1	.96	1.1
3	5.0	3.5	1.3	2.1	e3.6	2.6	9.2	29	2.7	1.4	.90	1.1
4	5.9	2.9	1.3	e1.9	e3.4	2.2	8.3	144	2.5	1.1	.86	1.1
5	3.2	2.7	1.3	e1.8	e2.7	26	7.6	128	2.3	1.1	.87	1.1
6	6.5	2.7	1.3	e1.7	e3.0	52	7.2	123	5.1	1.0	.87	1.1
7	4.4	4.7	e1.1	e1.6	e4.2	9.7	6.8	47	12	1.1	.83	1.1
8	3.7	4.1	e1.0	e1.5	e6.0	e5.0	6.1	48	3.5	1.4	.83	1.3
9	3.5	2.8	e.90	e1.5	e8.7	e2.4	5.6	92	58	1.1	.89	2.3
10	3.6	2.6	e.80	e1.5	e14	e2	5.2	310	131	.96	.89	1.4
11	3.8	13	e.72	e1.4	e13	e2.1	4.9	356	30	.93	.89	1.3
12	3.5	5.4	e.68	e1.4	e9.3	e2.2	5.1	91	10	.91	.90	1.2
13	4.0	2.0	e.64	e1.3	e6.8	2.4	5.2	34	3.8	.91	.91	1.1
14	4.0	1.7	e1.1	e1.4	e5.1	2.6	4.8	15	2.6	.88	.87	1.1
15	3.8	1.5	1.6	e1.6	e4.1	3.2	5.0	13	2.1	1.1	.91	1.2
16	4.1	1.4	1.4	2.2	e3.3	3.0	5.5	15	1.9	1.1	.92	1.3
17	5.0	1.5	1.4	473	e2.7	2.7	5.1	11	1.7	1.1	.97	1.9
18	5.3	1.8	1.4	711	e2.5	2.5	5.0	5.5	1.8	156	1.0	1.3
19	5.4	1.8	1.5	567	e2.2	4.4	5.2	3.2	1.8	29	1.0	1.2
20	7.4	1.6	1.5	e120	e2.0	93	5.2	2.7	1.5	2.6	1.5	1.2
21	6.1	1.5	e1.2	e43	e2.0	92	4.5	2.3	1.4	3.0	1.2	1.5
22	2.8	1.4	e1.1	e21	e2.0	52	22	2.0	1.3	6.9	1.3	2.4
23	2.6	1.4	e1.1	e17	e2.1	60	400	1.9	1.3	2.1	1.2	1.6
24	2.4	1.3	e1.1	e38	e2.2	202	160	21	1.3	1.6	1.2	1.3
25	2.5	1.3	e1.0	e70	e6.0	159	54	33	1.2	1.4	1.2	1.2
26	2.7	1.3	e1.0	e33	e16	41	31	4.3	1.1	1.2	1.2	1.2
27	3.3	1.4	e.99	e19	e78	20	19	234	1.1	1.1	1.2	1.8
28	3.4	1.3	e.98	e12	e102	16	30	147	1.1	1.0	1.2	3.5
29	3.6	1.3	e.97	e9.0	13	14	435	199	1.1	1.0	1.2	2.1
30	3.8	1.3	e.96	e6.8	---	13	240	41	1.1	1.2	1.1	1.5
31	3.8	---	e1.0	e5.7	---	11	---	12	---	1.3	1.2	---
TOTAL	122.3	81.3	34.94	2172.4	328.7	909.3	1526.5	2285.9	294.1	227.69	32.07	43.6
MEAN	3.95	2.71	1.13	70.1	11.3	29.3	50.9	73.7	9.80	7.34	1.03	1.45
MAX	7.4	13	1.6	711	102	202	435	356	131	156	1.5	3.5
MIN	1.6	1.3	.64	1.3	2.0	2.0	4.5	1.9	1.1	.88	.83	1.1
CFSM	.14	.09	.04	2.40	.39	1.00	1.74	2.53	.34	.25	.04	.05
IN.	.16	.10	.04	2.77	.42	1.16	1.94	2.91	.37	.29	.04	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

MEAN	7.35	27.7	37.4	33.4	42.4	57.1	42.8	25.8	26.9	18.5	8.16	7.83
MAX	53.4	135	157	92.7	124	152	112	114	148	99.4	45.9	55.0
(WY)	1991	1986	1991	1974	1990	1978	1972	1981	1981	1992	1980	1972
MIN	.92	1.26	1.13	.76	3.41	9.38	4.85	2.37	1.21	1.11	.95	.61
(WY)	1983	1977	1996	1977	1978	1983	1976	1988	1988	1977	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1972 - 1996	
ANNUAL TOTAL	5999.56		8058.80			
ANNUAL MEAN	16.4		22.0		27.8	
HIGHEST ANNUAL MEAN					43.3	1993
LOWEST ANNUAL MEAN					9.21	1977
HIGHEST DAILY MEAN	606	Jan 20	711	Jan 18	1580	Jun 6 1981
LOWEST DAILY MEAN	.64	Sep 13	.64	Dec 13	.19	Oct 4 1983
ANNUAL SEVEN-DAY MINIMUM	.71	Aug 20	.83	Dec 7	.32	Sep 28 1983
INSTANTANEOUS PEAK FLOW			913	Jan 17	1940	Jun 6 1981
INSTANTANEOUS PEAK STAGE			13.33	Jan 17	16.14	Jun 6 1981
ANNUAL RUNOFF (CFSM)	.56		.75		.95	
ANNUAL RUNOFF (INCHES)	7.64		10.27		12.95	
10 PERCENT EXCEEDS	29		42		65	
50 PERCENT EXCEEDS	4.3		2.4		5.7	
90 PERCENT EXCEEDS	.98		1.0		1.2	

e Estimated

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 downstream from Highland Avenue bridge in Marion, 0.1 mi downstream from old mill dam, 1.0 mi upstream from Hummel Creek, 4.6 mi downstream from Lugar Creek, and at mile 35.8.
DRAINAGE AREA.--682 mi².
PERIOD OF RECORD.--September 1923 to current year. 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 above sea level. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow periodically regulated by dam 0.1 mile above station. 1930 water year not used in summary statistics.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.20 ft from information by State of Indiana, Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	71	96	80	e330	1050	521	5480	928	142	225	48
2	41	86	89	94	e300	610	670	2410	821	139	209	46
3	51	93	86	86	e265	429	665	1400	676	132	140	45
4	61	83	86	88	e250	355	514	1550	548	130	113	44
5	74	97	87	141	e230	465	433	2300	500	127	101	43
6	70	101	82	e130	e220	997	375	3110	502	119	92	43
7	508	108	80	e120	e210	894	346	2440	955	111	84	44
8	393	101	74	e114	e200	576	324	1420	1760	104	79	38
9	200	174	69	e112	e230	371	296	1920	1370	102	74	39
10	126	181	64	e110	357	335	270	2690	2680	98	74	42
11	91	212	63	e107	409	315	250	6140	3320	94	74	46
12	75	438	64	e104	384	273	241	4390	1840	91	74	50
13	65	780	64	e102	311	258	239	2030	1540	85	72	52
14	59	340	67	e100	254	256	231	1230	883	82	69	51
15	53	234	74	e104	257	265	237	950	620	88	65	49
16	49	194	79	e110	232	289	241	1020	508	88	63	51
17	46	171	78	817	e200	304	239	1110	411	87	62	52
18	45	160	87	5020	e175	288	224	912	399	992	58	53
19	45	170	83	10900	e170	281	218	718	551	3220	54	53
20	56	297	70	e11200	168	607	213	572	451	1940	48	51
21	59	225	e68	e6300	158	1140	254	492	365	632	49	67
22	58	192	e66	e2300	151	1120	676	415	314	428	50	97
23	59	164	e64	1140	148	1020	2150	364	265	591	52	99
24	52	140	e63	3690	165	1260	5410	1690	234	401	52	72
25	53	125	e63	4100	212	2270	4880	2110	211	285	52	57
26	55	116	e62	1880	271	3390	1760	1090	193	220	52	53
27	62	108	e62	1270	689	1920	1200	1760	180	178	52	230
28	56	105	e61	1160	2240	952	914	3960	165	150	53	387
29	54	103	e61	810	2410	697	3110	4680	153	134	53	191
30	54	104	e60	574	---	600	6070	3610	145	191	51	159
31	61	---	e64	378	---	555	---	1540	---	203	50	---
TOTAL	2773	5473	2236	53241	11596	24142	33171	65503	23488	11384	2396	2352
MEAN	89.5	182	72.1	1717	400	779	1106	2113	783	367	77.3	78.4
MAX	508	780	96	11200	2410	3390	6070	6140	3320	3220	225	387
MIN	41	71	60	80	148	256	213	364	145	82	48	38
CFSM	.13	.27	.11	2.52	.59	1.14	1.62	3.10	1.15	.54	.11	.11
IN.	.15	.30	.12	2.90	.63	1.32	1.81	3.57	1.28	.62	.13	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1996, BY WATER YEAR (WY)

MEAN	174	411	691	908	938	1248	1150	716	612	388	191	229
MAX	1072	2626	2947	5129	2707	3181	3699	3776	4765	2831	1293	4222
(WY)	1927	1993	1991	1930	1990	1982	1964	1933	1958	1992	1926	1926
MIN	22.8	28.0	36.9	36.1	52.5	65.3	123	40.5	49.3	32.6	25.4	24.1
(WY)	1929	1929	1964	1945	1964	1941	1941	1941	1988	1936	1940	1940

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1924 - 1996	
ANNUAL TOTAL	146949		237755			
ANNUAL MEAN	403		650		628	
HIGHEST ANNUAL MEAN					1167	1927
LOWEST ANNUAL MEAN					106	1941
HIGHEST DAILY MEAN	6880	May 20	11200	Jan 20	23400	Jun 11 1958
LOWEST DAILY MEAN	41	Oct 2	38	Sep 8	3.4	Oct 25 1968
ANNUAL SEVEN-DAY MINIMUM	43	Sep 26	42	Sep 4	8.4	Oct 17 1940
INSTANTANEOUS PEAK FLOW			12800	Jan 19	25000	Mar 21 1927
INSTANTANEOUS PEAK STAGE			11.95	Jan 19	17.40	Mar 21 1927
INSTANTANEOUS LOW FLOW					.15	Dec 9 1992
ANNUAL RUNOFF (CFSM)	.59		.95		.92	
ANNUAL RUNOFF (INCHES)	8.02		12.97		12.51	
10 PERCENT EXCEEDS	895		1850		1490	
50 PERCENT EXCEEDS	186		186		200	
90 PERCENT EXCEEDS	53		53		48	

e Estimated

03327000 MISSISSINEWA RIVER AT PEORIA, IN

LOCATION.--Lat 40°43'24", long 85°57'27", in SW¼SW¼ sec.3, T.26 N., R.5 E., Miami County, Hydrologic Unit 05120103, on right bank at Peoria, 0.6 mi downstream from Mississinewa Lake, 6.5 mi southeast of Peru, and 6.7 mi upstream from mouth.

DRAINAGE AREA.--808 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 660.00 ft above sea level. Oct. 1, 1962, to Sept. 30, 1974, water-stage recorder site described in "LOCATION" paragraph. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft upstream at same datum.

REMARKS.--Flow regulated by Mississinewa Lake since April 1968.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--44 years, 730 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s June 11, 1958, gage height 19.26 ft, site then in use; zero flow, Sept. 11 to Oct. 2, 1985, Nov 14, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,750 ft³/s May 16; minimum daily, 32 ft³/s Dec. 10-14 and 18-19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	676	148	90	3490	2800	576	2500	2990	149	215	96
2	55	673	148	90	3440	1690	210	2660	2960	162	233	74
3	55	670	122	90	3380	553	211	2860	2930	162	233	55
4	55	666	90	90	3320	321	212	2990	1570	132	182	55
5	55	662	90	90	3230	375	212	2980	655	91	126	55
6	55	657	90	91	2780	620	213	3420	541	91	97	55
7	281	653	90	127	923	1030	213	2920	645	91	177	55
8	413	649	90	149	327	953	156	2250	1650	91	126	55
9	197	644	66	111	458	567	113	2250	1510	73	126	55
10	197	554	32	56	458	324	114	2250	1710	77	126	55
11	157	497	32	56	458	353	114	2270	1520	77	126	55
12	126	496	32	168	458	378	114	2310	926	87	92	55
13	126	836	32	323	370	378	114	2720	2070	96	55	55
14	126	1000	32	177	315	377	115	3040	3170	97	55	55
15	126	995	33	48	294	342	79	3350	2610	108	71	154
16	758	807	209	48	178	294	42	3750	1550	150	96	55
17	1390	573	202	169	228	294	39	1960	875	204	96	55
18	1500	504	32	582	264	306	39	1700	605	291	96	55
19	1490	501	32	1040	264	323	39	2230	440	116	96	55
20	1030	498	33	1810	264	361	39	2010	411	119	96	55
21	706	495	33	1870	264	375	39	1260	411	1590	96	55
22	704	493	101	2040	228	153	40	527	411	2460	96	55
23	701	434	178	2200	177	216	41	375	411	2630	96	55
24	699	374	183	1830	177	221	42	497	411	2330	96	115
25	696	325	149	1760	177	227	936	1700	411	914	96	119
26	693	298	122	2330	214	236	1550	2060	329	203	96	129
27	691	227	90	2580	289	806	1550	1540	233	162	96	55
28	688	173	90	2570	1090	1060	1540	666	190	162	96	293
29	685	149	103	2920	2400	1060	1540	1900	126	162	96	412
30	682	148	107	3210	---	1050	1930	3010	126	162	96	411
31	679	---	90	3380	---	1050	---	3010	---	162	96	---
TOTAL	15863	16327	2881	32095	29915	19093	12172	68965	34397	13401	3576	2958
MEAN	512	544	92.9	1035	1032	616	406	2225	1147	432	115	98.6
MAX	1500	1000	209	3380	3490	2800	1930	3750	3170	2630	233	412
MIN	47	148	32	48	177	153	39	375	126	73	55	55

CAL YR 1995 TOTAL 169745 MEAN 465 MAX 3540 MIN 32
WTR YR 1996 TOTAL 251643 MEAN 688 MAX 3750 MIN 32

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 mi southwest of Peru, 4.4 mi downstream from Mississinewa River, and at mile 370.5.
DRAINAGE AREA.--2,686 mi².
PERIOD OF RECORD.--August 1943 to current year.
REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-74-1: 1973. WDR IN-81-1: 1979.
GAGE.--Water-stage recorder. Datum of gage is 617.94 ft above sea level, (levels by U.S. Army Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by reservoirs on Wabash River (station 03323500), Salamonie River (station 03324500) and Mississinewa River (station 03327000).
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 28.1 ft, discharge, 115,000 ft³/s, from rating curve extended above 63,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	1390	608	e350	7100	7330	1820	7560	7970	571	2900	273
2	452	1510	501	e320	6360	5930	1200	7540	8130	601	2750	269
3	499	1490	459	e300	5250	3830	1150	7490	8120	619	1570	261
4	469	1510	411	e290	e4300	2070	1060	7920	6870	588	1090	301
5	468	1440	402	e280	e3400	e1800	885	7460	5980	459	760	234
6	495	1460	396	e270	e2500	e1600	787	7840	5600	405	617	192
7	640	1510	392	e260	e1700	e1900	805	8110	5020	370	610	197
8	1230	1490	346	e300	e1160	e2800	758	7000	5340	403	540	208
9	1400	1740	e310	e340	e1300	e1800	562	7020	5920	415	507	195
10	1560	1490	e280	e290	1610	e1200	494	6400	7110	373	499	222
11	1600	1480	e260	e260	1700	e1100	517	7650	6960	359	449	e220
12	1560	1580	e240	e250	1890	e1200	519	6130	6220	292	394	e230
13	1210	2040	e230	e400	1630	e1300	459	7140	6480	286	293	291
14	1070	2530	e240	e320	1280	1050	464	7820	8060	286	282	300
15	1030	2520	e260	e280	1220	1020	483	8020	7850	323	268	414
16	1450	2160	394	e270	824	1090	405	8500	6350	445	289	327
17	2330	1520	974	e500	e740	1190	277	8110	5410	790	274	306
18	2490	1320	431	3870	e680	1200	250	6480	5140	7480	265	298
19	2480	1300	396	6960	e660	1240	253	6270	5050	14800	274	291
20	2190	1260	e360	8410	e720	1350	253	6030	4460	7310	265	284
21	1430	1320	e330	8700	832	2470	266	5190	4760	6050	335	337
22	1390	1440	e300	8940	922	2010	371	3810	5220	6920	408	376
23	1370	1410	e400	9440	869	2300	1130	3630	4510	6940	423	327
24	1360	1330	e480	e10200	836	2410	1580	3540	4020	6860	322	388
25	1360	1240	e440	9690	812	2650	3250	6240	2190	6010	288	370
26	1340	1150	e490	9000	788	3150	5380	6650	1300	4710	444	379
27	1420	1040	e410	8680	1080	3890	5230	6980	971	3850	309	309
28	1380	978	e350	8650	2700	3840	4100	7230	922	4330	304	579
29	1380	885	e300	8470	6430	3190	3660	6850	775	4290	273	1150
30	1350	868	e330	8550	---	2380	4850	8640	706	3780	257	934
31	1390	---	e380	7800	---	2270	---	8080	---	3780	255	---
TOTAL	40242	44401	12100	122640	61293	72560	43218	213330	153414	94695	18514	10462
MEAN	1298	1480	390	3956	2114	2341	1441	6882	5114	3055	597	349
MAX	2490	2530	974	10200	7100	7330	5380	8640	8130	14800	2900	1150
MIN	449	868	230	250	660	1020	250	3540	706	286	255	192
CFSM	.48	.55	.15	1.47	.79	.87	.54	2.56	1.90	1.14	.22	.13
IN.	.56	.61	.17	1.70	.85	1.00	.60	2.95	2.12	1.31	.26	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	1086	1711	2691	3420	3612	4646	4175	2419	2311	1520	785	803
MAX	4319	7653	8314	18500	10740	10890	14840	6882	14260	7036	3342	3936
(WY)	1973	1973	1958	1950	1959	1982	1957	1996	1958	1993	1990	1992
MIN	110	149	142	141	247	830	412	345	194	175	163	119
(WY)	1954	1954	1964	1945	1964	1983	1971	1976	1988	1944	1966	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	652723		886869			
ANNUAL MEAN	1788		2423		2425	
HIGHEST ANNUAL MEAN					4425	1950
LOWEST ANNUAL MEAN					691	1954
HIGHEST DAILY MEAN	9880	Jan 22	14800	Jul 19	50900	Jun 12 1958
LOWEST DAILY MEAN	128	Sep 14	192	Sep 6	72	Oct 5 1946
ANNUAL SEVEN-DAY MINIMUM	152	Sep 12	209	Sep 6	85	Oct 29 1944
INSTANTANEOUS PEAK FLOW			16000	Jul 19	68000	May 18 1943
INSTANTANEOUS PEAK STAGE			12.49	Jul 19	24.46	May 18 1943
ANNUAL RUNOFF (CFSM)	.67		.90		.90	
ANNUAL RUNOFF (INCHES)	9.04		12.28		12.27	
10 PERCENT EXCEEDS	5200		7170		6880	
50 PERCENT EXCEEDS	1070		1200		997	
90 PERCENT EXCEEDS	344		280		216	

e Estimated

03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¼SE¼ sec.29, T.26 N., R.4 E., Miami County, Hydrologic Unit 05120101, on right bank 150 ft downstream from bridge on County Road 125 West, 0.5 mi northeast of Bunker Hill, and at mile 11.4.
DRAINAGE AREA.--159 mi².
PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-67; May 1968 to current year.
GAGE.--Water-stage recorder. Datum of gage is 736.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	18	12	e9.6	e52	108	153	476	308	55	48	11
2	5.1	15	12	e10.5	e43	93	187	322	270	52	37	9.6
3	7.6	14	14	e12	e36	58	157	238	270	51	31	9.3
4	18	12	13	14	e32	57	130	245	223	46	27	9.1
5	11	13	13	13	e30	77	99	340	172	41	24	8.5
6	14	13	12	e12.2	e36	232	84	512	156	36	22	8.4
7	14	14	12	e11.4	e40	202	79	389	280	34	21	9.6
8	11	14	11	e10.8	e48	127	71	295	237	32	22	11
9	9.3	12	e9.2	e10.4	58	92	67	451	251	31	23	13
10	8.2	11	e8.5	e10.1	52	88	60	615	664	30	20	10
11	8.2	33	e8.2	e9.9	48	64	55	1610	450	28	19	9.5
12	9.1	42	e8.0	e9.7	38	61	56	1170	453	26	18	8.4
13	11	28	e9.6	e9.2	32	60	56	593	318	25	16	8.3
14	8.6	21	e12	e10	36	57	50	398	226	24	15	7.9
15	8.0	18	16	e10.5	32	62	48	306	173	27	14	7.7
16	7.9	17	15	e13.1	e29.5	62	58	263	139	28	14	8.9
17	7.8	19	13	149	e27.1	60	53	236	118	34	14	14
18	8.4	21	13	659	e25.2	57	50	207	229	1040	14	11
19	9.6	21	14	729	e24	57	53	174	269	903	13	8.8
20	13	19	17	313	e25.1	71	53	151	190	380	12	7.8
21	17	18	15	167	27	82	49	130	136	206	62	13
22	11	16	13	105	25	96	98	110	123	156	21	24
23	8.5	15	12	102	27	102	532	98	139	122	18	16
24	7.0	14	12	377	27	213	655	280	414	91	16	12
25	5.8	14	e11.5	289	26	337	441	1450	191	73	14	12
26	6.2	14	e10.7	176	26	228	356	947	117	57	13	16
27	10	14	e10.3	149	238	143	278	740	91	45	12	17
28	e9.4	16	e9.7	100	285	116	209	1370	78	39	11	35
29	e8.6	13	e9.2	e84	163	104	420	922	67	39	11	25
30	e9.4	13	e8.7	e73	---	93	618	786	61	93	11	21
31	11	---	e9.1	e62	---	89	---	441	---	61	12	---
TOTAL	300.5	522	363.7	3710.4	1587.9	3348	5275	16265	6813	3905	625	382.8
MEAN	9.69	17.4	11.7	120	54.8	108	176	525	227	126	20.2	12.8
MAX	18	42	17	729	285	337	655	1610	664	1040	62	35
MIN	5.1	11	8.0	9.2	24	57	48	98	61	24	11	7.7
CFSM	.06	.11	.07	.75	.34	.68	1.11	3.30	1.43	.79	.13	.08
IN.	.07	.12	.09	.87	.37	.78	1.23	3.81	1.59	.91	.15	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	50.8	142	175	170	216	293	250	173	136	91.5	48.4	41.9
MAX	238	797	563	731	648	902	637	525	429	334	296	226
(WY)	1991	1993	1991	1974	1990	1982	1972	1996	1980	1986	1973	1972
MIN	6.66	8.79	6.57	3.70	25.1	49.7	45.6	28.5	12.4	8.17	7.63	5.16
(WY)	1989	1981	1977	1977	1978	1981	1971	1976	1988	1988	1971	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	34553.2		43098.3			
ANNUAL MEAN	94.7		118		149	
HIGHEST ANNUAL MEAN					266	1993
LOWEST ANNUAL MEAN					67.6	1977
HIGHEST DAILY MEAN	1520	Mar 8	1610	May 11	4210	Feb 24 1985
LOWEST DAILY MEAN	5.1	Oct 2	5.1	Oct 2	3.3	Feb 1 1977
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 27	7.9	Oct 23	3.5	Jan 27 1977
INSTANTANEOUS PEAK FLOW			1710	May 11	5140	Dec 31 1990
INSTANTANEOUS PEAK STAGE			9.45	May 11	17.91	Dec 31 1990
ANNUAL RUNOFF (CFSM)	.60		.74		.94	
ANNUAL RUNOFF (INCHES)	8.08		10.08		12.76	
10 PERCENT EXCEEDS	238		314		360	
50 PERCENT EXCEEDS	29		31		55	
90 PERCENT EXCEEDS	9.0		9.4		11	

e Estimated

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 downstream from Main Street bridge in North Manchester, 1.3 mi upstream from Pony Creek, and at mile 52.7.
DRAINAGE AREA.--417 mi², 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 from 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 above sea level. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street bridge, 700 ft upstream at same datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Records include flow of Pony Creek.
EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height may have occurred Dec. 30, 1990 during period of no gage height record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	133	95	e86	e180	e300	236	356	579	174	661	112
2	69	175	95	e95	e160	e250	233	308	765	169	440	108
3	78	343	93	e110	e140	e220	214	269	769	162	334	105
4	91	243	91	e100	e130	e200	201	242	577	144	274	104
5	83	172	90	e92	e120	210	187	249	542	138	240	100
6	98	140	88	e86	e110	356	174	499	484	134	216	97
7	89	143	84	e82	e120	259	170	384	1100	131	198	97
8	82	164	e81	e80	e200	e210	164	311	781	134	189	99
9	78	147	e80	e78	498	e180	156	308	573	135	182	101
10	75	133	e79	e76	431	e160	150	1030	1810	123	169	97
11	73	307	e78	e74	418	e150	139	1560	2120	113	159	95
12	73	703	e77	e72	299	e145	134	1000	2200	110	152	93
13	73	374	e76	e71	e175	e140	132	648	1460	101	149	92
14	72	253	e98	e70	e150	e145	130	475	865	99	146	91
15	73	205	e105	e74	e130	168	131	426	638	99	144	90
16	74	178	e120	e120	e125	188	154	888	492	108	138	90
17	74	163	e117	290	e120	187	147	5390	411	107	135	88
18	73	147	e113	1880	e115	183	140	4510	1210	3680	130	87
19	74	138	e108	2100	e110	181	136	2570	1300	5130	154	86
20	84	132	e104	1150	e106	230	417	1490	801	2350	191	84
21	95	131	e100	584	e104	284	878	1060	553	1210	1160	109
22	79	125	e97	382	e102	263	782	818	435	1680	703	147
23	71	117	e94	324	e101	251	1510	657	357	1110	512	115
24	69	111	e91	916	e100	318	1070	644	315	729	330	101
25	68	106	e88	650	e105	521	688	618	285	578	230	94
26	69	104	e86	416	e120	448	540	461	244	424	191	91
27	131	104	e84	387	295	297	430	936	227	330	169	104
28	159	104	e82	e300	853	251	347	1830	204	280	150	160
29	126	99	e81	e260	510	231	320	1620	192	273	137	138
30	105	97	e80	e230	---	217	349	1340	185	1250	130	115
31	119	---	e83	e200	---	208	---	806	---	1230	121	---
TOTAL	2646	5491	2838	11435	6127	7351	10459	33703	22474	22435	8234	3090
MEAN	85.4	183	91.5	369	211	237	349	1087	749	724	266	103
MAX	159	703	120	2100	853	521	1510	5390	2200	5130	1160	160
MIN	68	97	76	70	100	140	130	242	185	99	121	84
CFSM	.20	.44	.22	.88	.51	.57	.84	2.61	1.80	1.74	.64	.25
IN.	.24	.49	.25	1.02	.55	.66	.93	3.01	2.00	2.00	.73	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)

MEAN	170	275	393	467	567	708	670	422	333	207	157	130
MAX	1165	1416	1717	2258	1772	2425	1768	2021	1376	767	1031	566
(WY)	1955	1993	1967	1950	1959	1982	1957	1943	1981	1951	1990	1992
MIN	46.2	53.4	49.4	43.2	62.0	200	141	86.1	68.1	44.2	30.7	27.6
(WY)	1947	1940	1964	1977	1964	1941	1946	1931	1934	1941	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1930 - 1996	
ANNUAL TOTAL	106855		136283			
ANNUAL MEAN	293		372		375	
HIGHEST ANNUAL MEAN					783	1950
LOWEST ANNUAL MEAN					103	1931
HIGHEST DAILY MEAN	3880	Apr 11	5390	May 17	7770	Dec 31 1990
LOWEST DAILY MEAN	68	Oct 25	68	Oct 25	16	Oct 19 1956
ANNUAL SEVEN-DAY MINIMUM	69	Sep 14	73	Oct 11	23	Sep 13 1941
INSTANTANEOUS PEAK FLOW			6590	Jul 18	8740	Dec 30 1990
INSTANTANEOUS PEAK STAGE			12.61	Jul 18	14.00	Feb 27 1936
ANNUAL RUNOFF (CFSM)	.70		.89		.90	
ANNUAL RUNOFF (INCHES)	9.53		12.16		12.22	
10 PERCENT EXCEEDS	625		869		885	
50 PERCENT EXCEEDS	157		157		172	
90 PERCENT EXCEEDS	73		82		64	

e Estimated

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 downstream from bridge on County Road 1000 North, and 1.5 mi west of Deedsville.
DRAINAGE AREA.--8.87 mi².
PERIOD OF RECORD.--October 1970 to current year.
GAGE.--Water-stage recorder. Datum of gage is 785.00 ft above sea level.
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.4	1.3	1.2	e2.2	e2.7	5.6	4.5	5.5	2.1	9.4	1.8
2	.81	2.3	1.2	1.2	e2.0	e2.4	5.0	3.7	7.6	2.3	6.7	1.7
3	1.2	2.9	1.3	e1.2	e1.9	e2.2	4.3	3.4	6.6	2.2	5.4	1.6
4	.97	1.6	1.2	e1.2	e1.8	e2.1	3.8	3.3	5.4	2.1	4.6	1.4
5	.82	1.2	1.3	e1.2	e1.8	e2.6	3.3	6.0	4.8	2.0	4.0	1.3
6	.88	1.0	1.2	e1.1	e1.8	e2.9	3.2	10	4.7	2.0	3.6	1.3
7	.90	1.2	e.93	e1.1	e2.6	e2.7	3.0	6.7	4.7	2.1	3.2	1.2
8	.87	1.2	e.92	e1.2	e4.1	e2.5	2.9	5.6	4.2	2.1	2.9	1.3
9	.85	1.1	e.90	e1.2	5.5	e2.4	2.7	13	4.9	1.9	2.5	1.3
10	.84	.99	e.90	e1.1	3.6	e2.3	2.6	49	12	1.8	2.4	1.1
11	.81	5.6	e.90	e1.1	2.4	2.3	2.5	45	7.8	1.7	2.3	1.1
12	.82	5.0	e.90	e1.3	2.0	2.4	2.4	18	6.6	1.7	2.2	1.0
13	.83	2.6	e1.3	e1.2	e1.9	2.5	2.4	11	5.3	1.7	2.1	1.0
14	.85	2.1	1.8	e1.1	e1.8	2.9	2.3	8.4	4.4	1.6	2.0	1.0
15	.86	1.9	1.5	e1.1	e1.7	3.8	2.7	7.3	3.7	1.8	2.0	.97
16	.81	1.8	1.3	e1.2	e1.7	3.8	2.7	6.7	3.2	3.1	1.9	.97
17	.80	1.7	1.2	10	e1.6	3.5	2.5	6.3	3.9	2.4	1.8	.94
18	.79	1.7	1.3	42	e1.6	3.3	2.5	5.7	18	116	1.7	.88
19	.80	1.6	1.3	60	e1.7	3.3	2.5	4.9	11	91	1.8	.88
20	1.1	1.6	e1.2	16	1.8	4.2	2.5	4.4	6.9	29	1.7	.86
21	1.1	1.6	e1.2	8.2	1.8	4.5	2.3	4.1	5.0	30	20	1.6
22	.83	1.5	e1.1	6.2	1.7	4.4	7.0	3.8	4.5	41	39	1.3
23	.77	1.5	e1.1	7.5	1.8	5.5	8.3	3.7	3.8	14	9.6	1.0
24	.80	1.4	e1.1	25	1.9	11	5.8	7.1	4.6	9.1	6.1	.94
25	.84	1.4	e1.1	12	1.9	16	5.0	12	3.2	7.6	4.2	.91
26	.86	1.4	e1.1	7.3	1.9	9.0	4.8	7.0	2.6	6.0	3.3	1.2
27	2.1	1.4	e1.1	e5.4	4.8	5.0	4.0	41	2.4	5.1	2.8	1.4
28	1.6	1.3	e1.1	e4.3	7.1	4.1	3.6	36	2.3	4.6	2.5	1.3
29	1.1	1.3	e1.1	e3.6	4.2	3.9	4.8	15	2.2	4.4	2.3	1.2
30	.93	1.3	e1.1	e3.0	---	3.6	5.2	9.1	2.1	49	2.1	1.0
31	1.4	---	e1.2	e2.6	---	3.8	---	6.7	---	25	2.0	---
TOTAL	29.74	54.59	36.15	231.8	72.6	127.6	112.2	368.4	163.9	466.4	158.1	35.45
MEAN	.96	1.82	1.17	7.48	2.50	4.12	3.74	11.9	5.46	15.0	5.10	1.18
MAX	2.1	5.6	1.8	60	7.1	16	8.3	49	18	116	39	1.8
MIN	.77	.99	.90	1.1	1.6	2.1	2.3	3.3	2.1	1.6	1.7	.86
CFSM	.11	.21	.13	.84	.28	.46	.42	1.34	.62	1.70	.57	.13
IN.	.12	.23	.15	.97	.30	.54	.47	1.55	.69	1.96	.66	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	5.01	9.30	12.5	11.5	15.7	20.6	16.1	10.6	8.69	6.21	4.32	4.27
MAX	28.5	34.5	35.9	55.6	47.6	53.7	34.5	24.6	31.6	28.9	47.0	21.6
(WY)	1991	1993	1991	1993	1985	1982	1983	1983	1986	1992	1990	1989
MIN	.79	.95	.61	.30	2.50	3.50	3.74	3.30	1.17	.80	.66	.45
(WY)	1975	1977	1977	1977	1996	1981	1996	1977	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	2129.59		1856.93			
ANNUAL MEAN	5.83		5.07		10.4	
HIGHEST ANNUAL MEAN					19.1	1993
LOWEST ANNUAL MEAN					5.07	1996
HIGHEST DAILY MEAN	112	Mar 7	116	Jul 18	436	Aug 18 1990
LOWEST DAILY MEAN	.75	Sep 30	.77	Oct 23	.26	Feb 1 1977
ANNUAL SEVEN-DAY MINIMUM	.80	Sep 26	.82	Oct 13	.27	Jan 29 1977
INSTANTANEOUS PEAK FLOW			220	Jul 18	518	Aug 18 1990
INSTANTANEOUS PEAK STAGE			5.31	Jul 18	7.39	Apr 12 1994
ANNUAL RUNOFF (CFSM)	.66		.57		1.17	
ANNUAL RUNOFF (INCHES)	8.93		7.79		15.89	
10 PERCENT EXCEEDS	10		8.6		24	
50 PERCENT EXCEEDS	2.6		2.2		4.3	
90 PERCENT EXCEEDS	.96		.97		1.0	

e Estimated

03328500 EEL RIVER NEAR LOGANSPORT, IN

LOCATION.--Lat 40°46'55", long 86°15'50", in NE¼SE¼ sec.14, T.27 N., R.2 E., Cass County, Hydrologic Unit 05120104, on right bank at downstream side of bridge on Adamsboro Road, 5.5 mi northeast of Logansport, and 7.4 mi upstream from mouth.
DRAINAGE AREA.--789 mi^2.
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 above sea level. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 13.2 ft, from floodmark, discharge, 17,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	221	202	e170	e260	678	437	712	1180	339	1860	294
2	129	251	202	e174	e250	506	506	638	1020	320	1240	279
3	148	348	197	e178	e245	378	467	550	1410	311	899	269
4	157	468	193	e198	e240	309	429	501	1160	288	702	261
5	164	361	191	e190	e234	386	395	473	957	270	582	254
6	167	280	188	e184	e230	471	361	748	880	262	508	247
7	166	261	181	e178	e250	552	340	941	1080	256	451	247
8	169	259	177	e175	e280	e370	324	726	1600	274	429	244
9	161	262	176	e170	337	e330	310	643	1130	272	394	254
10	156	250	e172	e167	484	e310	297	1160	2290	256	366	247
11	153	293	e170	e165	473	e300	291	2910	2990	237	345	236
12	151	744	e168	e160	433	e290	280	2270	3000	223	330	232
13	149	894	e167	e155	e360	e280	278	1530	2600	217	316	229
14	145	563	e180	e153	e320	e285	272	1120	1700	209	294	221
15	143	427	e200	e160	e300	304	272	885	1220	220	287	218
16	143	367	e210	e190	e280	336	288	865	953	280	278	215
17	144	324	e227	238	e260	356	302	2160	789	334	269	214
18	145	299	e220	1950	e250	347	289	5400	1010	2140	265	209
19	148	281	e215	3980	e240	344	288	4730	1980	8860	275	204
20	162	e270	e210	2660	e235	382	287	2500	1570	10900	321	202
21	171	e260	e204	1550	e240	493	689	1640	1110	4050	1610	228
22	176	248	e197	1020	244	538	1030	1290	858	2870	2380	294
23	176	241	e193	732	243	500	1610	1030	713	2600	1370	319
24	161	230	e187	1140	245	536	1810	889	650	1820	1070	265
25	154	221	e183	1650	253	755	1310	1530	582	1570	724	237
26	151	217	e178	1060	266	950	987	1210	499	1240	533	232
27	195	216	e174	777	300	681	814	1110	438	944	444	234
28	237	215	e169	e600	833	510	680	3250	408	768	395	245
29	258	208	e165	e460	1120	456	647	2530	380	718	358	280
30	222	205	e160	e350	---	428	660	2280	357	1620	333	275
31	217	---	e165	e285	---	413	---	1650	---	3420	312	---
TOTAL	5149	9684	5821	21219	9705	13774	16950	49871	36514	48088	19940	7385
MEAN	166	323	188	684	335	444	565	1609	1217	1551	643	246
MAX	258	894	227	3980	1120	950	1810	5400	3000	10900	2380	319
MIN	129	205	160	153	230	280	272	473	357	209	265	202
CFSM	.21	.41	.24	.87	.42	.56	.72	2.04	1.54	1.97	.82	.31
IN.	.24	.46	.27	1.00	.46	.65	.80	2.35	1.72	2.27	.94	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	357	529	815	935	1111	1355	1307	858	762	461	358	306
MAX	1806	2384	2898	4507	3090	4612	3285	1827	2208	1551	2115	1051
(WY)	1991	1993	1967	1950	1959	1982	1950	1983	1975	1996	1990	1972
MIN	95.1	110	98.2	101	184	353	366	245	176	140	128	101
(WY)	1964	1964	1964	1977	1964	1966	1966	1958	1988	1988	1966	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	206053		244100			
ANNUAL MEAN	565		667		761	
HIGHEST ANNUAL MEAN					1573	1950
LOWEST ANNUAL MEAN					324	1954
HIGHEST DAILY MEAN	5430	Mar 8	10900	Jul 20	16600	Feb 24 1985
LOWEST DAILY MEAN	129	Oct 2	129	Oct 2	70	Mar 15 1960
ANNUAL SEVEN-DAY MINIMUM	138	Sep 26	145	Oct 13	76	Dec 17 1963
INSTANTANEOUS PEAK FLOW			12200	Jul 20	17700	Feb 24 1985
INSTANTANEOUS PEAK STAGE			10.83	Jul 20	12.68	Feb 24 1985
ANNUAL RUNOFF (CFSM)	.72		.85		.96	
ANNUAL RUNOFF (INCHES)	9.72		11.51		13.10	
10 PERCENT EXCEEDS	1110		1580		1720	
50 PERCENT EXCEEDS	333		300		397	
90 PERCENT EXCEEDS	154		170		151	

e Estimated

03329000 WABASH RIVER AT LOGANSPORT, 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 downstream from Cicott Street bridge in Logansport, 1,000 ft downstream from Eel River, and at mile 353.7.
DRAINAGE AREA.--3,779 mi².
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. WDR IN-81-1: 1979.
GAGE.--Water-stage recorder. Datum of gage is 573.28 ft above sea level (levels by U.S. Army Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by Huntington Lake, Salamonie Lake, and Mississinewa Lake.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.3 ft March 26, 1913, from floodmarks, discharge, 140,000 ft³/s,

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	633	1860	1020	e490	e7800	8650	2850	8970	9710	1010	5410	586
2	630	2110	804	e501	e6900	7490	2090	8900	9660	973	4380	581
3	732	2240	741	e430	e6100	5040	1920	8660	9970	999	3050	570
4	717	2340	702	e463	e5300	e2620	1760	9010	8970	967	1970	552
5	689	2170	669	e500	e4500	e2300	1550	8670	7600	862	1540	570
6	719	2060	663	e540	e3800	2710	1300	9180	7230	774	1220	493
7	731	2140	e620	e520	e2500	3560	1260	9990	6900	721	1110	471
8	1260	2080	e540	e570	e1500	e3300	1250	8520	7430	741	1190	511
9	1470	2270	e471	e600	1920	e2360	1060	8530	7970	736	988	500
10	1850	2240	e442	e640	2180	e1750	922	8400	9860	742	941	500
11	1830	2150	e425	e576	2370	e1560	905	12200	11000	685	895	500
12	1940	2670	e407	e460	2450	e1500	922	10200	9730	606	830	487
13	1480	3170	e388	e520	2320	1740	874	9500	9540	579	729	511
14	1240	3450	e373	e660	1930	1550	857	9710	10100	569	663	567
15	1160	3340	e450	e450	e1550	1370	881	9560	9840	592	632	556
16	1250	3100	519	e440	e1170	1490	883	10100	8120	746	623	662
17	2600	2370	985	686	e1000	1640	765	10700	7070	1120	620	556
18	2970	2000	969	5460	e950	1640	682	12000	6880	8430	613	545
19	2970	1900	599	11700	e900	1680	689	11500	7720	24700	638	527
20	2970	1840	e525	11900	e1000	1800	678	9160	6780	19500	649	512
21	1970	1820	e480	10600	1160	2900	928	7780	6450	10800	1840	612
22	1780	1970	e511	10100	1230	2980	1470	5750	6840	10200	2880	765
23	1770	2030	e562	10500	1230	3060	2740	5260	6100	10100	1780	710
24	1720	1870	e620	11700	1200	3340	4360	4810	5860	9300	1380	662
25	1690	1730	e590	12000	1170	3990	4580	8730	3730	8530	1040	626
26	1670	1630	e620	10500	1150	4570	7190	9430	2320	6790	995	671
27	1920	1460	e540	9990	1530	5050	7020	9060	1640	5330	833	699
28	1880	1370	e479	10000	3060	4950	5840	12100	1480	5700	755	647
29	1880	1240	e422	9380	7730	4370	5110	10000	1310	5560	697	1380
30	1830	1170	e480	e8800	---	3270	6050	11700	1190	6170	635	1300
31	1890	---	e518	e8100	---	3050	---	10400	---	7830	602	---
TOTAL	49841	63790	18134	149776	77600	97280	69386	288480	209000	152362	42128	18829
MEAN	1608	2126	585	4831	2676	3138	2313	9306	6967	4915	1359	628
MAX	2970	3450	1020	12000	7800	8650	7190	12200	11000	24700	5410	1380
MIN	630	1170	373	430	900	1370	678	4810	1190	569	602	471
CFSM	.43	.56	.15	1.28	.71	.83	.61	2.46	1.84	1.30	.36	.17
IN.	.49	.63	.18	1.47	.76	.96	.68	2.84	2.06	1.50	.41	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1996, BY WATER YEAR (WY)

MEAN	1418	2201	3640	4660	5088	6414	5913	3795	3078	1960	1250	1212
MAX	6547	10940	12340	25590	15880	18180	17520	21310	16440	8381	5576	10710
(WY)	1991	1973	1968	1950	1959	1982	1957	1943	1958	1993	1990	1926
MIN	197	296	252	290	417	638	929	600	388	269	203	176
(WY)	1964	1964	1964	1945	1964	1941	1971	1941	1988	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1924 - 1996	
ANNUAL TOTAL	968282		1236606			
ANNUAL MEAN	2653		3379		3376	
HIGHEST ANNUAL MEAN					6614	1950
LOWEST ANNUAL MEAN					796	1941
HIGHEST DAILY MEAN	16500	Mar 8	24700	Jul 19	84700	May 19 1943
LOWEST DAILY MEAN	329	Sep 15	373	Dec 14	135	Sep 26 1941
ANNUAL SEVEN-DAY MINIMUM	363	Sep 12	422	Dec 9	142	Sep 24 1941
INSTANTANEOUS PEAK FLOW			26400	Jul 19	89800	May 18 1943
INSTANTANEOUS PEAK STAGE			11.29	Jul 19	21.32	May 18 1943
ANNUAL RUNOFF (CFSM)	.70		.89		.89	
ANNUAL RUNOFF (INCHES)	9.53		12.17		12.14	
10 PERCENT EXCEEDS	6730		9550		9090	
50 PERCENT EXCEEDS	1610		1700		1440	
90 PERCENT EXCEEDS	540		540		415	

e Estimated

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 county road bridge, 2.6 mi northeast of Delphi Post Office, and 4.8 mi upstream from mouth.
DRAINAGE AREA.--274 mi².
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 above sea level, (U.S. Army Corps of Engineers bench mark, levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records good except for estimated daily diacharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 19.8 ft, from floodmarks, discharge, 18,000 ft³/s from rating curve extended above 8,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	44	33	e23	e130	e155	154	409	274	148	160	38
2	17	56	31	e25	e120	e140	213	302	258	130	123	36
3	29	55	33	e34	e110	e110	196	247	229	121	105	34
4	26	58	31	47	e105	e100	173	231	208	105	92	33
5	24	46	32	53	e100	147	146	273	184	94	83	32
6	e22	39	30	47	e106	288	120	376	169	86	76	30
7	e20	44	29	e43	e110	262	114	353	238	80	70	116
8	e19	39	e27	e39	e130	187	108	335	190	76	65	112
9	e18	38	e25	e37	154	153	100	560	226	72	60	52
10	e18	38	e23	e36	134	148	93	705	719	67	56	40
11	e17	60	e22	e35	118	121	87	1840	525	61	53	37
12	e17	101	e21	e33	100	109	86	1360	664	55	53	34
13	e18	103	e26	e32	97	105	88	785	453	53	49	32
14	e17	75	e31	e33	88	105	84	538	321	53	47	31
15	e17	61	39	e34	88	104	83	417	254	58	44	30
16	e17	53	37	e37	84	106	87	356	212	56	42	31
17	e16	51	35	e60	e76	103	84	317	186	75	41	32
18	e16	53	34	e540	e74	100	75	283	231	2560	40	31
19	e15	51	39	e1000	74	94	80	246	318	2410	41	30
20	e30	51	37	586	71	108	81	219	235	924	41	29
21	e28	48	39	334	72	104	77	198	184	644	490	46
22	e25	45	35	254	68	102	104	173	190	836	344	52
23	e23	43	33	206	67	105	337	160	199	470	162	50
24	e21	41	32	415	68	139	492	183	1210	329	104	46
25	e20	38	32	443	69	306	340	567	1500	374	77	37
26	e28	36	e31	305	71	284	288	448	572	260	63	36
27	e32	36	e28	257	112	195	249	490	351	191	55	38
28	e31	36	e27	222	340	159	210	1190	259	160	49	41
29	e29	35	e25	e190	252	149	307	767	206	151	46	39
30	e32	33	e24	e160	---	135	522	490	172	138	43	37
31	37	---	e22	e140	---	129	---	340	---	184	40	---
TOTAL	696	1507	943	5700	3188	4552	5178	15158	10937	11021	2814	1262
MEAN	22.5	50.2	30.4	184	110	147	173	489	365	356	90.8	42.1
MAX	37	103	39	1000	340	306	522	1840	1500	2560	490	116
MIN	15	33	21	23	67	94	75	160	169	53	40	29
CFSM	.08	.18	.11	.67	.40	.54	.63	1.78	1.33	1.30	.33	.15
IN.	.09	.20	.13	.77	.43	.62	.70	2.06	1.48	1.50	.38	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	96.9	169	252	318	365	438	433	304	255	168	100	82.4
MAX	575	1249	983	1882	1039	1311	1109	793	1799	669	537	568
(WY)	1991	1993	1991	1950	1959	1982	1959	1983	1958	1957	1958	1989
MIN	15.0	22.7	22.2	17.6	36.1	46.8	83.0	62.2	30.7	22.5	12.5	10.5
(WY)	1965	1954	1945	1977	1954	1954	1971	1976	1977	1944	1966	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	61883		62956			
ANNUAL MEAN	170		172		248	
HIGHEST ANNUAL MEAN					510	1950
LOWEST ANNUAL MEAN					62.7	1966
HIGHEST DAILY MEAN	2740	Mar 8	2560	Jul 18	12600	Jun 10 1958
LOWEST DAILY MEAN	15	Oct 19	15	Oct 19	6.2	Sep 25 1954
ANNUAL SEVEN-DAY MINIMUM	17	Oct 13	17	Oct 13	6.3	Sep 22 1954
INSTANTANEOUS PEAK FLOW			3120	Jul 18	14400	Jun 10 1958
INSTANTANEOUS PEAK STAGE			a7.73	Jan 18	18.26	Jun 10 1958
ANNUAL RUNOFF (CFSM)	.62		.63		.90	
ANNUAL RUNOFF (INCHES)	8.40		8.55		12.28	
10 PERCENT EXCEEDS	402		375		555	
50 PERCENT EXCEEDS	87		83		104	
90 PERCENT EXCEEDS	22		28		27	

e Estimated
a Ice jam

03330241 TIPPECANOE RIVER AT NORTH WEBSTER, IN

LOCATION.--Lat 41°18'58", long 85°41'32", in SE¼NE¼ sec.15, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106, on right upstream corner of State Road 13 bridge, at the intersection of State Road 13 and County Road 550 North, and 0.4 mi southeast of North Webster.
DRAINAGE AREA.--49.3 mi².
PERIOD OF RECORD.--May 1986 to current year.
GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated at times by dams at Webster Lake, 0.25 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.2	e16	9.4	25	e52	e30	31	110	98	48	39	51
2	e2.5	e25	9.4	26	e47	e30	33	36	100	43	39	42
3	e3.2	e35	9.8	27	e45	e30	44	36	98	34	38	12
4	e4.0	49	9.5	30	e42	e31	44	21	88	17	24	12
5	e4.4	35	9.6	32	e39	e33	44	6.1	37	7.9	9.1	12
6	e4.3	21	9.6	31	e37	e35	43	8.6	94	9.8	11	13
7	e4.0	22	10	30	e35	e35	43	18	165	12	15	22
8	e4.2	20	11	24	e35	e35	43	40	92	12	23	33
9	e4.1	20	11	1.5	e34	e35	40	74	98	17	28	36
10	e4.0	20	11	1.3	e33	e35	32	204	199	27	28	7.3
11	e4.0	34	11	1.2	e33	e34	32	171	210	8.4	19	7.3
12	e4.1	40	10	1.2	e32	e34	32	127	184	8.8	12	7.8
13	e4.2	39	15	1.6	e31	28	26	102	192	9.5	8.3	8.0
14	e4.0	34	27	2.0	e30	28	19	98	202	11	8.7	8.1
15	e3.9	21	25	e4.0	e30	28	20	121	208	24	9.0	8.5
16	e3.7	21	22	e9.0	e30	28	25	152	224	65	8.9	9.3
17	e3.5	20	18	e12	e30	28	25	220	236	59	8.2	9.7
18	e3.4	22	18	e16	e30	23	25	220	272	222	7.9	9.0
19	e3.3	24	18	e21	e29	7.7	27	210	238	249	9.2	8.7
20	e3.8	24	19	e25	e30	7.7	46	199	197	199	23	8.8
21	e4.3	23	19	e28	e31	7.7	64	197	166	167	139	20
22	e4.8	22	19	e29	e31	7.7	111	168	78	176	98	43
23	e4.9	21	14	e32	e31	7.5	122	130	111	167	25	34
24	e4.2	21	4.6	e35	e30	7.7	131	110	151	143	71	27
25	e4.4	18	4.5	e38	e29	8.1	177	81	175	109	106	7.4
26	e4.3	9.3	4.5	e45	e27	8.0	168	80	110	52	96	8.0
27	e5.6	9.5	4.5	e61	e29	11	158	95	10	54	68	9.8
28	e15	9.5	4.6	e62	e30	28	150	123	17	76	28	11
29	e16	9.0	4.7	e60	e30	28	143	111	42	94	28	12
30	e15	9.2	5.2	e58	---	29	137	96	53	81	27	12
31	e15	---	12	e54	---	30	---	99	---	30	31	---
TOTAL	168.3	693.5	379.9	822.8	972	748.1	2035	3463.7	4145	2232.4	1085.3	509.7
MEAN	5.43	23.1	12.3	26.5	33.5	24.1	67.8	112	138	72.0	35.0	17.0
MAX	16	49	27	62	52	35	177	220	272	249	139	51
MIN	2.2	9.0	4.5	1.2	27	7.5	19	6.1	10	7.9	7.9	7.3
CFSM	.11	.47	.25	.54	.68	.49	1.38	2.27	2.80	1.46	.71	.34
IN.	.13	.52	.29	.62	.73	.56	1.54	2.61	3.13	1.68	.82	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1996, BY WATER YEAR (WY)

MEAN	39.9	49.2	48.7	76.3	54.5	58.0	74.9	49.5	51.4	25.1	21.0	20.4
MAX	142	133	98.8	209	119	102	110	112	138	72.0	80.1	87.7
(WY)	1991	1993	1987	1993	1990	1990	1995	1996	1996	1996	1990	1990
MIN	2.68	6.61	12.3	26.5	31.5	24.1	46.8	15.4	3.07	4.36	2.00	2.74
(WY)	1995	1995	1996	1996	1989	1996	1992	1988	1988	1988	1988	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1987 - 1996	
ANNUAL TOTAL	13994.8		17255.7			
ANNUAL MEAN	38.3		47.1		47.3	
HIGHEST ANNUAL MEAN					70.5	1991
LOWEST ANNUAL MEAN					29.6	1992
HIGHEST DAILY MEAN	231	Apr 15	272	Jun 18	420	Jan 8 1993
LOWEST DAILY MEAN	2.1	Sep 27	1.2	Jan 11	.06	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 25	1.8	Jan 9	.36	Aug 14 1988
INSTANTANEOUS PEAK FLOW			289	Jun 18	430	Jan 10 1993
INSTANTANEOUS PEAK STAGE			5.67	Jun 18	6.49	Jan 2 1991
ANNUAL RUNOFF (CFSM)	.78		.96		.96	
ANNUAL RUNOFF (INCHES)	10.56		13.02		13.05	
10 PERCENT EXCEEDS	105		140		111	
50 PERCENT EXCEEDS	23		28		30	
90 PERCENT EXCEEDS	3.6		4.7		5.9	

e Estimated

03330500 TIPPECANOE 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 50 ft downstream from dam at Tippecanoe Lake Outlet in Oswego, 3 mi east of Leesburg, and at mile 158.9.
DRAINAGE AREA.--113 mi².
PERIOD OF RECORD.--October 1949 to current year.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 830.00 ft above sea level. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.
REMARKS.--No estimated daily discharges. Records fair. Periodic regulation by gates at lake outlet.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	47	51	45	118	70	33	262	277	181	231	27
2	5.7	70	51	45	111	69	34	246	271	172	217	61
3	7.9	165	50	46	103	69	34	226	261	135	204	83
4	9.4	160	50	46	96	70	36	210	252	91	191	79
5	10	150	48	47	90	76	37	193	240	51	174	59
6	9.5	138	47	48	85	81	38	178	228	22	150	18
7	9.2	127	46	49	81	81	39	162	237	25	89	19
8	9.4	115	45	49	80	80	40	148	241	40	36	21
9	9.2	107	45	48	79	80	41	114	244	58	60	27
10	9.0	99	45	47	76	79	42	171	287	58	83	29
11	9.0	103	45	46	75	79	42	239	302	56	89	45
12	9.2	103	45	46	73	78	43	250	312	54	58	88
13	9.5	101	45	45	71	77	44	253	315	33	35	81
14	8.9	99	44	44	70	76	44	251	317	21	35	33
15	8.7	95	45	43	70	77	44	253	317	24	35	13
16	8.3	91	46	43	69	78	49	272	314	65	35	14
17	7.9	88	46	44	69	78	60	321	315	101	35	14
18	7.6	84	47	48	68	75	59	347	329	196	36	15
19	7.5	82	47	55	67	73	60	382	332	274	38	16
20	8.9	79	47	61	69	72	119	412	326	301	40	17
21	10	75	47	65	70	67	173	439	318	319	125	21
22	11	73	47	69	71	63	192	430	299	334	163	49
23	11	71	47	73	70	62	219	405	284	340	184	61
24	9.5	64	47	80	69	60	247	378	278	342	176	60
25	10	55	47	86	67	56	261	344	274	336	173	58
26	10	55	47	106	64	50	273	318	265	315	172	57
27	13	54	47	141	67	29	276	308	242	293	168	64
28	39	54	47	141	69	29	277	305	220	279	159	64
29	50	53	46	138	70	31	276	304	200	266	113	51
30	47	52	46	132	---	32	268	293	190	263	20	15
31	46	---	45	125	---	32	---	285	---	248	23	---
TOTAL	426.4	2709	1448	2101	2237	2029	3400	8699	8287	5293	3347	1259
MEAN	13.8	90.3	46.7	67.8	77.1	65.5	113	281	276	171	108	42.0
MAX	50	165	51	141	118	81	277	439	332	342	231	88
MIN	5.1	47	44	43	64	29	33	114	190	21	20	13
CFSM	.12	.80	.41	.60	.68	.58	1.00	2.48	2.44	1.51	.96	.37
IN.	.14	.89	.48	.69	.74	.67	1.12	2.86	2.73	1.74	1.10	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	60.0	74.9	108	127	137	180	191	130	101	64.2	44.7	44.1
MAX	369	230	298	443	373	498	493	340	363	198	188	237
(WY)	1955	1993	1967	1950	1950	1982	1950	1956	1981	1968	1990	1958
MIN	4.73	7.25	16.0	7.51	11.0	44.0	58.6	30.8	18.6	11.4	1.13	.40
(WY)	1954	1954	1963	1963	1963	1964	1966	1958	1988	1988	1967	1967

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	32649.8		41235.4			
ANNUAL MEAN	89.5		113		105	
HIGHEST ANNUAL MEAN					196	1950
LOWEST ANNUAL MEAN					30.8	1964
HIGHEST DAILY MEAN	328	Apr 17	439	May 21	944	Mar 21 1982
LOWEST DAILY MEAN	4.7	Sep 26	5.1	Oct 1	.08	Aug 4 1967
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 26	8.1	Oct 1	.28	Aug 22 1967
INSTANTANEOUS PEAK FLOW			443	May 21	950	Mar 21 1982
INSTANTANEOUS PEAK STAGE			8.14	May 21	9.25	Mar 21 1982
ANNUAL RUNOFF (CFSM)	.79		1.00		.93	
ANNUAL RUNOFF (INCHES)	10.75		13.57		12.62	
10 PERCENT EXCEEDS	208		284		235	
50 PERCENT EXCEEDS	63		69		75	
90 PERCENT EXCEEDS	8.5		20		15	

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 upstream from bridge on County Road 200 South, 0.3 mi downstream from small right-bank tributary, and 2.5 mi south of court house in Warsaw.
DRAINAGE AREA.--19.6 mi².
PERIOD OF RECORD.--October 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 823.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow occasionally regulated by lakes upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	8.6	4.3	e3.1	e4.9	11	13	21	31	7.6	29	8.2
2	1.1	22	3.9	e3.3	e4.4	9.5	13	19	34	7.3	25	7.3
3	1.5	25	3.8	e3.2	e4.0	e8.8	13	17	27	6.8	20	6.4
4	1.3	17	3.6	e3.1	e3.7	e7.6	12	16	23	6.4	16	6.1
5	1.4	12	3.5	e3.1	e3.4	e8.8	11	18	21	6.0	15	5.7
6	1.4	11	e3.4	e3.0	e3.0	e7.8	11	20	20	5.8	13	5.1
7	1.2	9.6	e3.4	e3.0	e2.9	e7.4	10	20	22	5.9	11	4.5
8	1.1	7.1	e3.4	e2.9	e3.0	e7.0	9.7	19	19	5.6	11	3.9
9	1.1	5.6	e3.3	e2.9	e3.1	e6.8	9.6	23	19	5.6	9.9	3.7
10	1.1	5.3	e3.3	e2.8	e3.0	e6.6	9.1	43	29	5.3	9.0	3.6
11	1.1	15	e3.2	e2.8	e2.8	e6.4	8.2	58	41	5.2	8.4	3.3
12	1.1	23	e3.2	e2.7	e2.7	e6.2	7.9	56	53	5.0	7.8	3.1
13	1.1	20	e3.1	e2.7	e2.5	e6.0	7.7	44	42	4.9	7.1	3.3
14	.99	17	e3.1	e2.7	e2.4	e6.1	7.9	37	34	5.0	6.4	3.6
15	1.0	15	e3.2	e2.9	e2.3	e6.2	10	31	27	5.4	5.7	3.6
16	1.1	14	e3.3	e3.7	e2.2	7.0	10	65	21	5.9	5.0	3.4
17	1.2	12	e3.4	e6.0	e2.1	7.6	10	73	19	7.4	4.5	3.1
18	1.3	9.9	e3.6	e10	e2.1	7.4	9.9	58	34	143	3.9	2.8
19	1.2	8.9	e3.8	e22	e2.2	7.0	11	45	32	132	4.5	2.7
20	1.6	8.0	e3.7	e14	2.7	13	41	37	25	103	7.2	2.6
21	1.8	6.9	e3.6	e10	3.3	14	32	36	21	86	48	5.2
22	1.7	6.6	e3.5	e7.0	3.3	14	50	27	18	107	60	8.4
23	1.5	5.9	e3.4	e10	3.6	26	68	22	16	92	48	8.2
24	1.9	5.1	e3.3	e16	4.1	20	55	20	16	70	38	7.2
25	1.9	4.7	e3.2	e13	4.2	17	42	19	13	50	32	6.0
26	1.9	4.7	e3.2	e11	4.4	17	36	18	12	39	27	5.6
27	3.7	4.7	e3.1	e9.2	8.3	15	28	31	11	33	21	6.6
28	3.1	4.5	e3.0	e8.0	12	13	24	46	9.8	28	17	7.7
29	3.2	4.3	e3.0	e7.0	13	12	23	63	9.1	25	14	7.1
30	3.6	4.4	e2.9	e6.2	---	12	23	49	8.2	30	12	6.2
31	8.0	---	e3.0	e5.5	---	11	---	40	---	31	9.5	---
TOTAL	56.39	317.8	104.7	202.8	115.6	325.2	616.0	1091	707.1	1070.1	545.9	154.2
MEAN	1.82	10.6	3.38	6.54	3.99	10.5	20.5	35.2	23.6	34.5	17.6	5.14
MAX	8.0	25	4.3	22	13	26	68	73	53	143	60	8.4
MIN	.99	4.3	2.9	2.7	2.1	6.0	7.7	16	8.2	4.9	3.9	2.6
CFSM	.09	.54	.17	.33	.20	.54	1.05	1.80	1.20	1.76	.90	.26
IN.	.11	.60	.20	.38	.22	.62	1.17	2.07	1.34	2.03	1.04	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	8.19	14.5	20.4	19.3	23.0	34.0	34.7	20.9	18.9	9.37	6.49	6.54
MAX	54.6	44.9	48.3	77.7	60.6	110	66.5	60.8	80.3	36.0	53.7	27.0
(WY)	1991	1993	1991	1993	1985	1982	1981	1981	1981	1994	1990	1980
MIN	1.04	2.18	1.43	.91	2.87	10.5	14.3	6.35	2.34	1.73	1.07	.80
(WY)	1977	1979	1977	1977	1979	1996	1976	1988	1988	1988	1971	1976

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	5667.39		5306.79			
ANNUAL MEAN	15.5		14.5		18.0	
HIGHEST ANNUAL MEAN					28.2	1981
LOWEST ANNUAL MEAN					10.0	1977
HIGHEST DAILY MEAN	126	Apr 10	143	Jul 18	389	Jun 14 1981
LOWEST DAILY MEAN	.99	Oct 14	.99	Oct 14	.40	Oct 15 1988
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 9	1.1	Oct 9	.46	Sep 12 1983
INSTANTANEOUS PEAK FLOW			225	Jul 18	561	Jun 13 1981
INSTANTANEOUS PEAK STAGE			3.78	Jul 18	5.38	Jun 13 1981
ANNUAL RUNOFF (CFSM)	.79		.74		.92	
ANNUAL RUNOFF (INCHES)	10.76		10.07		12.46	
10 PERCENT EXCEEDS	37		36		42	
50 PERCENT EXCEEDS	9.6		7.5		10	
90 PERCENT EXCEEDS	1.8		2.7		1.8	

e Estimated

03331500 TIPPECANOE RIVER NEAR ORA, IN

LOCATION.--Lat 41°09'26", long 86°33'49", in SE¼SE¼ sec.6, T.31 N., R.1 W., Pulaski County, Hydrologic Unit 05120106, on right bank at downstream side of bridge on County Road 700 East, 1.0 mi upstream from Bartee Ditch, 1.3 mi southwest of Ora, and at mile 78.5.
DRAINAGE AREA.--856 mi².
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. Datum of gage is 692.91 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft downstream. July 30, 1956, to Dec. 20, 1964, water-stage recorder on right bank at downstream side of old highway bridge, and Dec. 21, 1964, to Aug. 19, 1965, nonrecording gage on right bank 500 ft downstream. All gages at same datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	330	372	e299	e720	627	446	1270	2720	873	2010	547
2	178	373	362	e297	e690	589	444	1170	2460	805	1770	462
3	194	644	355	e295	e660	522	442	1080	2190	744	1590	412
4	220	672	344	e294	e630	532	433	1020	1970	688	1450	393
5	221	639	341	e297	e605	495	431	982	1780	648	1320	390
6	224	661	339	e299	e585	540	420	1040	1660	603	1190	399
7	229	682	e330	e301	e570	e510	413	1050	1640	549	1070	399
8	227	677	e328	e303	e574	e495	410	984	1630	500	1060	399
9	227	641	e325	e302	e577	e485	403	972	1600	458	1010	387
10	219	603	e323	e300	e580	e480	397	1440	1740	445	883	363
11	217	689	e322	e296	e579	e472	390	2100	1950	432	755	352
12	213	940	e321	e293	e570	e467	384	2330	2050	429	701	345
13	210	946	e324	e289	e550	465	378	2260	2050	420	672	343
14	208	877	e335	e286	e520	458	377	2120	1870	408	649	345
15	210	826	e336	e285	e485	458	390	1880	1660	411	616	372
16	210	761	e335	e300	e465	469	415	1720	1540	458	560	374
17	211	695	e335	e400	e445	472	416	1590	1510	493	538	347
18	210	646	e334	631	e433	470	416	1480	1900	1480	522	314
19	210	605	e329	1030	e433	467	414	1540	2280	3760	501	302
20	221	573	e323	1270	e434	483	635	1770	2210	5810	490	293
21	241	543	e321	1680	e435	514	1040	1990	1940	5910	604	311
22	240	514	e318	1570	437	519	1220	2110	1740	5310	899	387
23	243	492	e317	1020	436	513	1810	2150	1580	4910	880	407
24	242	467	e316	965	438	505	2000	2130	1450	4480	895	425
25	235	449	e314	988	443	508	1910	2150	1360	3940	897	411
26	229	432	e311	888	450	507	1810	2180	1250	3420	880	412
27	248	421	e309	852	489	504	1670	2050	1160	2950	835	456
28	270	410	e306	830	593	490	1490	2310	1080	2550	766	490
29	269	394	e304	795	657	477	1390	2810	1010	2210	706	501
30	277	383	e302	e770	---	457	1350	2950	934	2060	649	466
31	301	---	e301	e750	---	447	---	2920	---	2080	598	---
TOTAL	7034	17985	10132	19175	15483	15397	24144	55548	51914	60234	27966	11804
MEAN	227	599	327	619	534	497	805	1792	1730	1943	902	393
MAX	301	946	372	1680	720	627	2000	2950	2720	5910	2010	547
MIN	178	330	301	285	433	447	377	972	934	408	490	293
CFSM	.27	.70	.38	.72	.62	.58	.94	2.09	2.02	2.27	1.05	.46
IN.	.31	.78	.44	.83	.67	.67	1.05	2.41	2.26	2.62	1.22	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	466	595	800	975	1153	1445	1546	1126	898	589	421	361
MAX	2112	1933	2478	3552	3020	4239	4116	2869	3468	1943	2699	1224
(WY)	1991	1973	1967	1950	1959	1982	1950	1981	1981	1996	1990	1958
MIN	134	155	177	183	192	451	525	337	243	180	155	107
(WY)	1954	1954	1964	1963	1963	1957	1958	1958	1988	1988	1988	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	317608		316816			
ANNUAL MEAN	870		866		863	
HIGHEST ANNUAL MEAN					1580	1950
LOWEST ANNUAL MEAN					354	1964
HIGHEST DAILY MEAN	3200	Apr 13	5910	Jul 21	8450	Jun 15 1981
LOWEST DAILY MEAN	178	Oct 2	178	Oct 2	87	Sep 13 1966
ANNUAL SEVEN-DAY MINIMUM	187	Sep 27	207	Oct 1	93	Sep 8 1966
INSTANTANEOUS PEAK FLOW			6120	Jul 20	8660	Jun 15 1981
INSTANTANEOUS PEAK STAGE			14.42	Jul 20	15.22	Aug 20 1990
ANNUAL RUNOFF (CFSM)	1.02		1.01		1.01	
ANNUAL RUNOFF (INCHES)	13.80		13.77		13.69	
10 PERCENT EXCEEDS	1950		1990		1800	
50 PERCENT EXCEEDS	644		507		600	
90 PERCENT EXCEEDS	221		295		212	

e Estimated

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

LOCATION.--Lat 40°35'38", long 86°46'12", in SW¼SW¼ sec.21, T.25 N., R.3 W., Carroll County, Hydrologic Unit 05120106, on left bank 20 ft upstream from bridge on State Highway 18, 1,400 ft east of Springboro, 8.1 mi downstream from Big Creek, 5 mi west of Delphi, and at mile 8.7.
DRAINAGE AREA.--1,869 mi².
PERIOD OF RECORD.--March to December 1903, March to December 1904, March 1905 to July 1906, November and December 1908, July 1939 to September 1987, October 1987 to current year. Published as "at Springboro" 1903-08. Published Published as "03333000 Tippecanoe River near Delphi:" July 1939 to September 1987.
REVISED RECORDS.--WSP 973: 1942. WSP 1335: 1905-6. WSP 2109: Drainage area. WDR IN-92-1: 1988-1991 (above 5900 ft³/s). WDR-IN-94-1: 1991 (maximum discharge).
GAGE.--Water-stage recorder. Datum of gage is 535.00 ft above sea level. Mar. 14, 1903, to July 20, 1906, and Nov. 2 to Dec. 31, 1908, nonrecording gage at present site at different datum. July 1939 to Sept. 30, 1987, at site 6.4 mi upstream at datum 17.01 ft higher.
REMARKS.--Records good except for estimated daily dischrages, which are poor. Flow regulated by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	565	733	761	e600	950	971	2140	4230	1590	3680	892
2	369	517	620	712	e760	1100	698	1860	4360	1690	3110	831
3	418	649	779	523	e760	677	949	2030	4140	1320	2770	835
4	410	499	716	475	e740	802	685	1680	3500	1290	2430	649
5	342	411	445	544	e640	1100	563	1760	3140	1270	2150	772
6	288	383	833	556	e820	771	919	1940	2860	1180	2100	774
7	288	342	456	623	e860	760	554	1850	3010	1180	2000	798
8	360	358	459	791	e740	e700	716	1870	2620	1150	2480	719
9	413	546	e450	547	873	e680	692	2170	2970	898	1950	956
10	391	1130	e340	520	751	622	573	2780	5640	796	1890	745
11	399	1200	e500	692	766	712	517	4400	5950	809	1530	e620
12	389	1140	e540	495	967	934	824	3890	6410	746	1470	e560
13	398	1430	e580	377	846	783	536	3400	5180	862	1320	839
14	288	1230	e600	493	882	970	621	3240	4200	664	1130	654
15	413	1190	716	526	643	678	722	3060	3660	827	1260	514
16	302	1240	669	598	832	633	668	3030	3030	820	1140	1050
17	358	1070	663	731	517	1020	479	3080	2770	1080	982	538
18	377	1110	626	1630	756	787	774	2740	5830	5110	949	475
19	377	1000	809	1670	637	810	773	2380	6550	8190	995	716
20	453	1110	597	1650	827	760	786	2310	5420	7000	1090	518
21	449	877	549	1310	744	672	1200	2620	4710	7510	990	616
22	364	856	e500	1380	710	766	2310	2520	3840	9870	1500	726
23	366	718	e450	1630	739	884	3200	2670	3390	8420	1600	595
24	368	743	e500	1680	847	770	3030	3090	3430	7040	1290	819
25	281	977	593	1500	576	1050	2680	3340	2910	6180	1400	610
26	284	633	638	1620	795	790	2970	3470	2560	5100	1320	705
27	302	778	440	1410	805	826	2320	3850	2270	4380	1210	969
28	297	730	446	1060	888	934	2250	5930	1930	3850	1230	937
29	567	877	467	1100	769	755	2310	5410	2060	3430	1230	845
30	376	608	522	e840	---	845	2320	5400	1890	3840	1010	941
31	402	---	501	e780	---	597	---	4680	---	4600	1140	---
TOTAL	11434	24917	17737	29224	22090	25138	38610	94590	114460	102692	50346	22218
MEAN	369	831	572	943	762	811	1287	3051	3815	3313	1624	741
MAX	567	1430	833	1680	967	1100	3200	5930	6550	9870	3680	1050
MIN	281	342	340	377	517	597	479	1680	1890	664	949	475
CFSM	.20	.44	.31	.50	.41	.43	.69	1.63	2.04	1.77	.87	.40
IN.	.23	.50	.35	.58	.44	.50	.77	1.88	2.28	2.04	1.00	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	1406	1812	2050	2797	2227	2742	3048	2265	2068	1652	1219	1235
MAX	4185	4120	3819	6854	4660	4950	4958	3157	3815	3313	4849	3092
(WY)	1991	1993	1991	1993	1990	1990	1994	1995	1996	1996	1990	1993
MIN	369	831	572	943	762	811	1287	983	493	360	308	364
(WY)	1996	1996	1996	1996	1996	1996	1996	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996	
ANNUAL TOTAL	563014		553456			
ANNUAL MEAN	1543		1512		2042	
HIGHEST ANNUAL MEAN					3046	1993
LOWEST ANNUAL MEAN					1512	1996
HIGHEST DAILY MEAN	7450	May 25	9870	Jul 22	18400	Dec 30 1990
LOWEST DAILY MEAN	281	Oct 25	281	Oct 25	131	Aug 5 1988
ANNUAL SEVEN-DAY MINIMUM	323	Oct 22	323	Oct 22	255	Aug 2 1988
INSTANTANEOUS PEAK FLOW			10100	Jul 22	20600	Apr 12 1994
INSTANTANEOUS PEAK STAGE			8.51	Jul 22	13.72	Apr 12 1994
ANNUAL RUNOFF (CFSM)	.83		.81		1.09	
ANNUAL RUNOFF (INCHES)	11.21		11.02		14.85	
10 PERCENT EXCEEDS	3480		3480		4090	
50 PERCENT EXCEEDS	1160		837		1530	
90 PERCENT EXCEEDS	381		446		466	

e Estimated

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 mi downstream from Mud Creek, 1.5 mi southeast of Jerome, and at mile 79.9.
DRAINAGE AREA.--146 mi².
PERIOD OF RECORD.--July 1961 to current year.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 820.04 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 18 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	e7.5	e5.0	e5.5	e60	155	214	626	229	37	52	5.9
2	3.7	e10	e4.8	e6.0	e49	126	267	400	208	35	39	6.2
3	5.6	e6.8	e4.7	e7.8	e43	78	209	298	203	34	32	6.4
4	e3.7	e5.4	e5.1	e5.8	e38	72	165	344	169	30	26	6.2
5	e8.2	e4.9	e5.0	e5.6	e35	107	121	377	135	26	22	5.7
6	e5.8	e4.9	e5.1	e5.4	e33	380	102	537	125	24	20	5.8
7	e5.4	e11	e5.1	e5.2	e31	278	96	390	142	23	18	6.0
8	e5.1	e8.0	e4.8	e5.4	58	164	84	392	128	22	21	6.5
9	e4.9	e5.6	e4.6	e5.4	62	119	74	758	275	22	27	6.7
10	e4.8	e5.4	e4.4	e5.6	48	98	67	751	411	19	19	6.5
11	e4.7	e22	e4.6	e5.6	49	80	62	1600	327	16	16	6.5
12	e4.7	e13	e4.6	e5.6	36	76	63	990	351	15	15	6.4
13	e4.6	e7.6	e4.6	e5.8	37	74	62	598	237	15	14	6.4
14	e4.4	e6.8	e5.2	e6.2	35	73	51	404	175	15	13	6.4
15	e5.5	e6.0	e4.8	e6.2	31	81	53	318	140	19	11	6.2
16	e4.3	e5.8	e4.6	28	29	83	60	298	119	17	11	7.4
17	e4.5	e6.4	e4.5	85	e27	81	47	268	105	25	10	9.0
18	e4.3	e6.6	e6.0	e700	e25	73	44	226	112	1550	9.9	8.1
19	e4.3	e5.4	e8.4	1010	24	73	51	185	190	1250	9.5	7.3
20	e13	e5.6	e5.7	305	25	99	51	160	152	490	9.7	6.6
21	e8.4	e5.6	e5.2	261	24	114	43	137	111	258	10	7.9
22	e5.4	e5.5	e5.0	185	22	120	199	114	95	394	9.7	16
23	e5.0	e5.0	e5.0	183	22	123	840	103	81	270	9.2	19
24	e4.7	e7.0	e4.5	702	27	297	850	212	73	162	8.6	13
25	e4.6	e5.6	e4.2	507	28	468	513	473	62	118	7.9	9.9
26	e4.5	e4.7	e4.2	299	32	301	389	300	52	83	7.4	8.6
27	e10	e5.0	e4.4	277	156	178	293	486	47	60	7.0	15
28	e6.6	e5.2	e4.5	190	507	144	227	1020	45	48	7.2	34
29	e5.4	e5.2	e4.6	e150	257	131	740	733	42	43	7.0	21
30	e4.8	e5.1	e4.8	e114	---	112	963	461	40	49	6.6	11
31	e11	---	e5.0	e80	---	113	---	308	---	75	6.4	---
TOTAL	174.8	208.6	153.0	5163.1	1850	4471	7000	14267	4581	5244	482.1	287.6
MEAN	5.64	6.95	4.94	167	63.8	144	233	460	153	169	15.6	9.59
MAX	13	22	8.4	1010	507	468	963	1600	411	1550	52	34
MIN	2.9	4.7	4.2	5.2	22	72	43	103	40	15	6.4	5.7
CFSM	.04	.05	.03	1.14	.44	.99	1.60	3.15	1.05	1.16	.11	.07
IN.	.04	.05	.04	1.32	.47	1.14	1.78	3.64	1.17	1.34	.12	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

MEAN	43.7	120	161	153	196	281	231	153	117	91.4	35.7	47.3
MAX	252	834	622	687	649	793	689	460	544	692	199	589
(WY)	1970	1993	1991	1974	1976	1982	1964	1996	1980	1992	1973	1989
MIN	1.72	2.95	2.49	1.02	11.2	52.6	38.7	17.9	8.20	7.00	3.80	2.09
(WY)	1967	1977	1977	1977	1963	1981	1971	1976	1988	1994	1966	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	25610.6		43882.2			
ANNUAL MEAN	70.2		120		136	
HIGHEST ANNUAL MEAN					253	1993
LOWEST ANNUAL MEAN					50.2	1966
HIGHEST DAILY MEAN	1580	Mar 8	1600	May 11	6030	Jul 14 1992
LOWEST DAILY MEAN	2.0	Sep 30	2.9	Oct 1	.89	Jan 24 1977
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 24	4.5	Dec 24	.90	Jan 20 1977
INSTANTANEOUS PEAK FLOW			2140	Jul 18	7120	Jul 14 1992
INSTANTANEOUS PEAK STAGE			8.78	Jul 18	13.71	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.48		.82		.93	
ANNUAL RUNOFF (INCHES)	6.53		11.18		12.61	
10 PERCENT EXCEEDS	174		346		328	
50 PERCENT EXCEEDS	20		27		46	
90 PERCENT EXCEEDS	3.4		4.9		4.9	

e Estimated

03333600 KOKOMO CREEK NEAR KOKOMO, IN

LOCATION.--Lat 40°26'28", long 86°05'20", in NW¼SW¼ sec.16, T.23 N., R.4 E., Howard County, Hydrologic Unit 05120107, on left bank at upstream side of bridge on County Road 200 East, 2.6 mi southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 mi upstream from mouth.
DRAINAGE AREA.--24.7 mi².
PERIOD OF RECORD.--July 1959 to current year.
REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-72-1: 1970-71(P).
GAGE.--Water-stage recorder. Datum of gage is 807.68 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	e1.4	e1.8	e1.7	e8.1	14	48	69	36	4.4	12	e1.1
2	.85	e2.5	e1.5	e2.3	e7.2	13	39	44	33	4.9	9.4	e1.0
3	4.7	e2.2	e2.1	e2.1	e6.4	8.5	28	37	31	4.5	7.6	e1.0
4	3.1	e1.7	e1.9	e2.1	e6.2	8.0	23	64	25	3.5	6.4	e.98
5	e1.4	e1.9	e1.7	e2.0	e6.0	17	16	72	20	e3.0	5.6	e.97
6	e2.2	e2.0	e1.7	e2.3	e5.9	45	14	100	19	e2.6	4.9	e.99
7	e2.0	e2.5	e1.6	e2.2	e5.8	30	13	56	25	e2.3	4.3	e1.2
8	e1.7	e2.2	e1.5	e2.1	10	20	11	109	21	e2.2	4.6	e1.5
9	e1.4	e1.7	e1.3	e2.0	10	16	9.8	159	34	e2.0	4.4	e1.7
10	e1.1	e1.3	e1.2	e1.9	9.3	13	8.7	231	90	e1.8	3.7	e1.6
11	e1.0	e4.5	e1.1	e1.7	9.5	11	8.2	326	70	1.7	3.3	e1.3
12	e1.0	e6.6	e1.0	e1.7	7.0	11	8.2	181	48	1.7	3.2	e1.2
13	e1.7	e4.7	e1.2	e1.6	6.2	11	8.2	103	35	1.6	3.0	e1.1
14	e1.4	e3.4	e1.5	e1.6	7.0	11	7.3	63	27	1.8	2.7	e1.0
15	e1.2	e2.5	e2.3	e1.6	6.1	11	8.9	49	22	2.2	2.5	e1.6
16	e1.0	e2.0	e2.0	28	5.2	11	8.9	44	18	2.1	2.5	e1.7
17	e1.0	e2.1	e1.8	50	e4.8	11	7.1	39	15	24	2.1	e1.0
18	e1.2	e3.2	e1.9	202	e4.7	9.8	7.1	33	48	489	2.1	e.72
19	e1.3	e2.9	e2.9	205	e4.9	10	8.2	27	36	317	2.1	e.66
20	e1.8	e2.6	e2.4	58	5.4	12	8.2	23	24	113	1.9	e.56
21	e2.7	e2.2	e1.9	34	5.2	12	7.3	19	18	66	3.6	e1.2
22	e2.0	e2.1	e1.8	26	4.9	14	21	15	15	80	2.4	e3.7
23	e1.4	e2.1	e1.8	33	5.4	15	139	14	12	46	2.0	e2.1
24	e1.1	e2.0	e1.7	123	6.0	34	97	48	11	36	1.8	e1.0
25	e.82	e2.0	e1.6	56	5.8	54	53	90	8.4	29	1.6	e.96
26	e.86	e2.0	e1.7	37	6.5	29	45	50	7.0	20	1.4	e.97
27	e1.5	e2.0	e1.8	e25	13	20	34	161	6.3	15	e1.3	e2.5
28	e1.4	e2.1	e2.1	e20	25	18	29	203	5.8	12	e1.3	e4.0
29	e1.2	e2.4	e1.6	e14	17	16	129	145	5.3	11	e1.3	e3.4
30	e.96	e1.9	e1.5	e11	---	14	128	80	5.0	18	e1.3	e2.6
31	e2.1	---	e1.4	e9.4	---	15	---	49	---	18	e1.4	---
TOTAL	47.82	74.7	53.3	960.3	224.5	534.3	973.1	2703	770.8	1336.3	107.7	45.31
MEAN	1.54	2.49	1.72	31.0	7.74	17.2	32.4	87.2	25.7	43.1	3.47	1.51
MAX	4.7	6.6	2.9	205	25	54	139	326	90	489	12	4.0
MIN	.73	1.3	1.0	1.6	4.7	8.0	7.1	14	5.0	1.6	1.3	.56
CFSM	.06	.10	.07	1.25	.31	.70	1.31	3.53	1.04	1.75	.14	.06
IN.	.07	.11	.08	1.45	.34	.80	1.47	4.07	1.16	2.01	.16	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1996, BY WATER YEAR (WY)

MEAN	9.53	20.7	25.6	24.9	33.4	48.7	41.7	25.8	16.7	13.9	6.55	6.87
MAX	68.1	144	102	114	129	150	117	87.2	99.7	90.2	34.7	66.7
(WY)	1970	1993	1991	1974	1990	1982	1964	1996	1980	1992	1990	1989
MIN	.55	.57	.44	.33	1.98	7.87	6.91	2.52	1.20	1.07	.50	.16
(WY)	1965	1977	1977	1977	1964	1981	1976	1976	1988	1988	1988	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1960 - 1996	
ANNUAL TOTAL	5170.19		7831.13			
ANNUAL MEAN	14.2		21.4		22.8	
HIGHEST ANNUAL MEAN					45.2	1993
LOWEST ANNUAL MEAN					8.76	1966
HIGHEST DAILY MEAN	274	Mar 8	489	Jul 18	757	Dec 30 1990
LOWEST DAILY MEAN	.27	Sep 5	.56	Sep 20	.07	Sep 18 1988
ANNUAL SEVEN-DAY MINIMUM	.33	Sep 1	1.0	Sep 1	.11	Jul 25 1975
INSTANTANEOUS PEAK FLOW			631	Jul 18	1040	Apr 20 1964
INSTANTANEOUS PEAK STAGE			7.85	Jul 18	9.88	Apr 20 1964
ANNUAL RUNOFF (CFSM)	.57		.87		.92	
ANNUAL RUNOFF (INCHES)	7.79		11.79		12.54	
10 PERCENT EXCEEDS	35		50		54	
50 PERCENT EXCEEDS	4.7		5.1		7.5	
90 PERCENT EXCEEDS	.76		1.3		.90	

e Estimated

03333700 WILDCAT CREEK AT KOKOMO, IN

LOCATION.--Lat 40°28'15", long 86°09'11", in SW¼NE¼ sec.2, T.23 N., R.3 E., Howard County, Hydrologic Unit 05120107, on right bank on property of Kokomo Sewage Treatment Plant in Kokomo, 250 ft downstream from Kokomo Creek, 1.0 mi upstream from Dixon Road bridge, and at mile 62.9.
DRAINAGE AREA.--242 mi².
PERIOD OF RECORD.--October 1955 to current year.
REVISED RECORDS.--WSP 2109: Drainage area. WDR-IN-83: 1980, 1981(P), 1982. WDR-IN-88: 1986(P), 1987 (M).
GAGE.--Water-stage recorder. Datum of gage is 775.62 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to May 9, 1986, recording gage at site 0.4 mi downstream at present datum.
REMARKS.--Records good except for estimated daily discharges, which are fair. Some regulation by Kokomo Reservoirs Nos. 1 and 2, (combined capacity 4,170 acre-ft, used for municipal water supply) and by Kokomo Sewage Treatment Plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	33	22	25	e105	234	317	1110	405	59	117	27
2	24	44	21	27	e80	163	380	698	373	68	89	26
3	76	27	20	26	e76	125	298	496	328	59	73	26
4	29	22	22	24	e66	95	241	619	285	47	64	27
5	48	21	21	24	61	186	177	724	227	42	56	26
6	29	21	22	23	59	354	145	903	204	42	49	26
7	22	42	22	22	58	420	133	716	225	39	45	26
8	20	25	21	23	78	263	118	741	216	39	56	39
9	20	23	20	23	83	177	105	1170	376	38	45	40
10	21	23	19	24	79	145	97	1750	725	35	43	26
11	20	89	20	24	78	118	90	2510	606	35	39	25
12	21	36	20	24	69	106	91	1970	523	30	38	25
13	20	30	20	24	61	101	93	1190	397	29	36	24
14	20	26	22	27	55	98	86	792	285	47	33	22
15	18	24	21	26	56	97	111	605	221	44	32	23
16	19	23	20	29	50	110	86	513	179	46	31	53
17	20	26	19	111	45	100	85	452	156	318	30	31
18	18	25	31	448	40	99	74	378	319	2600	31	25
19	19	22	27	1750	43	106	88	310	267	2540	38	24
20	58	23	24	1200	44	138	79	257	256	1150	30	23
21	27	23	22	536	45	136	74	228	182	647	162	88
22	19	24	22	305	43	154	208	176	146	606	47	49
23	20	21	21	327	42	166	1040	161	126	536	41	29
24	19	31	19	778	42	269	1360	462	145	387	34	27
25	20	21	18	874	43	561	924	834	105	277	32	24
26	19	20	18	500	48	523	656	590	86	177	31	31
27	45	22	20	371	104	199	470	992	77	125	36	46
28	23	22	21	309	381	67	389	1680	72	99	30	36
29	24	22	20	239	411	56	886	1380	65	107	29	28
30	20	22	21	174	---	59	1450	916	61	206	27	25
31	46	---	22	125	---	209	---	567	---	148	28	---
TOTAL	827	833	658	8442	2445	5634	10351	25890	7638	10622	1472	947
MEAN	26.7	27.8	21.2	272	84.3	182	345	835	255	343	47.5	31.6
MAX	76	89	31	1750	411	561	1450	2510	725	2600	162	88
MIN	18	20	18	22	40	56	74	161	61	29	27	22
CFSM	.11	.11	.09	1.13	.35	.75	1.43	3.45	1.05	1.42	.20	.13
IN.	.13	.13	.10	1.30	.38	.87	1.59	3.98	1.17	1.63	.23	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1996, BY WATER YEAR (WY)

MEAN	85.8	203	259	253	332	439	428	270	229	172	86.8	88.0
MAX	469	1387	968	1375	1097	1376	1117	835	1432	962	383	879
(WY)	1970	1993	1991	1974	1990	1982	1957	1996	1958	1992	1973	1989
MIN	11.2	15.5	13.8	16.5	25.8	67.4	71.7	53.6	28.2	28.6	25.2	12.8
(WY)	1957	1957	1964	1961	1964	1981	1966	1988	1988	1988	1966	1956

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1956 - 1996	
ANNUAL TOTAL	49825		75759			
ANNUAL MEAN	137		207		236	
HIGHEST ANNUAL MEAN					444	1993
LOWEST ANNUAL MEAN					89.7	1966
HIGHEST DAILY MEAN	2160	Mar 8	2600	Jul 18	6970	Feb 24 1985
LOWEST DAILY MEAN	18	Oct 15	18	Oct 15	7.2	Sep 30 1956
ANNUAL SEVEN-DAY MINIMUM	19	Oct 13	19	Oct 13	8.3	Dec 28 1963
INSTANTANEOUS PEAK FLOW			2860	Jul 19	8100	Feb 10 1959
INSTANTANEOUS PEAK STAGE			9.07	Jul 19	16.95	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.56		.86		.98	
ANNUAL RUNOFF (INCHES)	7.66		11.65		13.27	
10 PERCENT EXCEEDS	335		594		554	
50 PERCENT EXCEEDS	49		55		88	
90 PERCENT EXCEEDS	21		21		25	

e Estimated

03334000 WILDCAT CREEK AT OWASCO, IN

LOCATION.--Lat 40°27'50", long 86°38'15", in SE¼SE¼ sec.4, T.23 N., R.2 W., Carroll County, on left bank 200 ft downstream from bridge on State Highway 39, 0.5 mi northwest of Owasco, and 15 mi upstream from South Fork Wildcat Creek.
DRAINAGE AREA.--396 mi².
PERIOD OF RECORD.--October 1943 to September 1973. Annual maximum, water years 1975-81. October 1988 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.
REVISED RECORDS.--WSP 1625: 1958. WSP 2109: Drainage area. WDR 94-1: 1988-1993 (Peak of record).
GAGE.--Water-stage recorder. Datum of gage is 624.63 ft above sea level. Prior to Oct. 1, 1950, nonrecording gage at site 500 ft upstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Some regulation at low stages for municipal water supply by Kokomo Water Company since 1955.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 14.00 ft, from floodmarks.
REVISIONS.--Water Resources Data 1988-1993: The instantaneous peak flow for the period of record has been published erroneously as 10,200 ft³/s on Jan. 5, 1950. The correct peak flow is 10,800 ft³/s on Jan. 4, 1980.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e40	e50	47	e31	e144	374	321	1430	648	156	277	53
2	e35	87	47	e33	e130	282	455	1050	549	146	228	49
3	e41	82	47	34	e120	220	466	732	483	165	192	49
4	e43	86	45	62	e110	188	391	660	435	146	168	49
5	e58	59	44	54	e100	184	330	785	388	127	150	47
6	e50	50	43	e52	e105	334	277	1000	349	116	137	46
7	e46	55	43	e49	e110	464	240	1010	351	111	126	65
8	e45	65	43	e46	e117	420	224	883	340	104	117	102
9	e44	67	36	e44	e137	304	206	1220	345	99	127	79
10	e40	54	e34	e44	e138	265	188	1610	560	95	119	86
11	e39	66	e33	e45	e130	222	179	3150	755	89	107	65
12	e38	151	e32	e47	e120	195	171	3360	734	87	101	53
13	e37	109	e35	e48	e110	183	167	2220	620	85	97	50
14	e36	82	48	e49	e108	177	168	1310	489	81	93	48
15	e35	72	51	e52	e106	174	162	971	392	86	89	48
16	e36	62	50	e75	e105	169	176	815	334	115	85	49
17	e37	59	45	e95	e104	178	159	699	294	112	82	55
18	e37	57	47	e577	e105	168	155	606	302	2130	79	78
19	e36	64	41	e1240	e101	164	148	512	456	3700	76	57
20	e40	59	68	e1530	e102	186	161	433	386	2940	77	52
21	e45	55	67	e1080	e103	208	152	381	358	1330	129	57
22	e58	53	56	e630	e99	203	177	341	307	1440	189	114
23	e50	53	49	e406	e100	219	583	295	268	1030	98	126
24	e41	52	e45	e766	e98	250	1300	281	1580	742	85	80
25	e37	50	e42	e1130	e96	455	1240	821	629	633	70	67
26	e35	59	e39	e720	e100	606	936	887	380	443	64	62
27	e38	49	e37	e520	e120	492	697	866	277	327	62	65
28	e46	46	e35	e370	e206	317	538	1890	225	271	59	86
29	e45	45	e33	e270	429	188	713	1830	195	240	61	88
30	e46	47	e31	e220	---	163	1300	1370	175	239	59	68
31	e49	---	e30	e180	---	155	---	921	---	397	56	---
TOTAL	1303	1945	1343	10499	3653	8107	12380	34339	13604	17782	3459	1993
MEAN	42.0	64.8	43.3	339	126	262	413	1108	453	574	112	66.4
MAX	58	151	68	1530	429	606	1300	3360	1580	3700	277	126
MIN	35	45	30	31	96	155	148	281	175	81	56	46
CFSM	.11	.16	.11	.86	.32	.66	1.04	2.80	1.15	1.45	.28	.17
IN.	.12	.18	.13	.99	.34	.76	1.16	3.23	1.28	1.67	.32	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1996, BY WATER YEAR (WY)

MEAN	151	274	333	550	510	619	710	460	363	296	136	142
MAX	670	2024	1325	3083	1725	1270	1857	1108	2536	1589	707	1339
(WY)	1970	1993	1958	1950	1959	1973	1957	1996	1958	1992	1958	1989
MIN	20.0	30.3	25.9	24.6	50.0	154	137	120	84.8	41.5	37.1	20.6
(WY)	1945	1945	1945	1945	1963	1954	1971	1954	1949	1954	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1945 - 1996	
ANNUAL TOTAL	91066		110407			
ANNUAL MEAN	249		302		378	
HIGHEST ANNUAL MEAN					733	1950
LOWEST ANNUAL MEAN					104	1954
HIGHEST DAILY MEAN	2750	Mar 8	3700	Jul 19	9850	Jan 5 1950
LOWEST DAILY MEAN	30	Dec 31	30	Dec 31	12	Oct 23 1944
ANNUAL SEVEN-DAY MINIMUM	35	Dec 25	32	Dec 28	15	Sep 23 1954
INSTANTANEOUS PEAK FLOW			4050	Jul 19	10800	Jan 4 1980
INSTANTANEOUS PEAK STAGE			7.93	Jul 19	13.30	Jan 5 1950
ANNUAL RUNOFF (CFSM)	.63		.76		.95	
ANNUAL RUNOFF (INCHES)	8.55		10.37		12.97	
10 PERCENT EXCEEDS	642		772		892	
50 PERCENT EXCEEDS	117		113		165	
90 PERCENT EXCEEDS	43		43		41	

e Estimated

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 upstream from bridge on State Highway 26, 0.5 mi upstream from Middle Fork, 4.4 mi upstream from mouth, and 5 mi east of Lafayette.
DRAINAGE AREA.--243 mi².
PERIOD OF RECORD.--October 1943 to current year. 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 above sea level (Indiana Department of Highways bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Backwater from Middle Fork at times on peaks.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 16.8 ft, from floodmarks, discharge, 17,900 ft³/s by contracted-opening measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	44	35	e22	e100	139	217	636	358	132	162	44
2	22	45	34	e23	e92	132	271	433	336	123	126	42
3	24	43	33	31	e86	108	236	325	301	116	107	43
4	39	40	32	48	e84	95	204	300	273	109	93	41
5	31	36	32	44	e82	120	172	348	244	102	85	41
6	26	33	32	e40	e86	277	146	721	231	98	79	40
7	25	38	31	e36	e88	280	136	493	249	93	75	50
8	25	43	31	e35	e100	202	129	432	225	108	79	58
9	24	40	30	e33	112	168	121	905	259	97	70	56
10	24	35	e24	e32	102	146	114	1740	296	88	66	49
11	23	47	e23	e31	98	131	109	3020	458	82	64	45
12	24	85	e22	e29	87	120	105	1590	929	78	62	43
13	24	54	e25	e28	76	115	107	1000	559	75	60	41
14	24	47	e31	e29	75	112	102	660	378	76	57	41
15	24	45	34	e30	75	111	98	528	299	97	55	41
16	24	42	32	33	70	110	104	476	254	94	54	44
17	24	41	31	57	65	106	97	403	231	88	53	57
18	26	44	34	282	63	104	90	347	281	507	55	50
19	26	49	39	672	68	102	92	300	290	433	54	44
20	30	42	39	365	67	115	95	264	240	238	52	42
21	40	41	41	275	68	105	89	241	208	201	67	49
22	35	40	36	203	66	99	136	216	264	498	59	77
23	29	39	33	163	64	106	481	199	248	354	53	46
24	26	38	32	321	65	133	695	195	1160	230	52	40
25	26	36	31	331	65	301	459	197	393	178	49	38
26	26	36	29	233	65	318	383	225	259	141	48	38
27	32	35	e26	200	91	220	319	1190	204	121	47	41
28	47	34	e25	e160	177	179	261	1270	174	125	47	46
29	37	34	e23	e140	178	164	785	1110	155	119	46	42
30	32	34	e22	e120	---	149	996	643	141	150	46	37
31	36	---	e21	e110	---	144	---	451	---	247	45	---
TOTAL	878	1260	943	4156	2515	4711	7349	20858	9897	5198	2067	1366
MEAN	28.3	42.0	30.4	134	86.7	152	245	673	330	168	66.7	45.5
MAX	47	85	41	672	178	318	996	3020	1160	507	162	77
MIN	22	33	21	22	63	95	89	195	141	75	45	37
CFSM	.12	.17	.13	.55	.36	.63	1.01	2.77	1.36	.69	.27	.19
IN.	.13	.19	.14	.64	.39	.72	1.13	3.19	1.52	.80	.32	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	99.0	182	246	298	334	413	416	306	262	171	101	101
MAX	426	1304	954	1808	929	1143	1172	881	1674	954	510	849
(WY)	1970	1993	1991	1950	1985	1982	1964	1983	1958	1992	1958	1989
MIN	22.9	27.8	23.5	19.5	37.5	78.2	102	67.6	40.6	26.2	18.3	18.0
(WY)	1964	1957	1964	1977	1963	1981	1971	1976	1977	1977	1944	1944

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	47154		61198			
ANNUAL MEAN	129		167		243	
HIGHEST ANNUAL MEAN					473	1950
LOWEST ANNUAL MEAN					79.2	1954
HIGHEST DAILY MEAN	3150	Mar 8	3020	May 11	11000	May 2 1983
LOWEST DAILY MEAN	21	Dec 31	21	Dec 31	15	Sep 19 1944
ANNUAL SEVEN-DAY MINIMUM	23	Sep 26	23	Dec 27	16	Sep 17 1944
INSTANTANEOUS PEAK FLOW			4390	May 10	15100	May 2 1983
INSTANTANEOUS PEAK STAGE			9.95	May 10	15.68	May 2 1983
ANNUAL RUNOFF (CFSM)	.53		.69		1.00	
ANNUAL RUNOFF (INCHES)	7.22		9.37		13.61	
10 PERCENT EXCEEDS	245		360		533	
50 PERCENT EXCEEDS	70		83		111	
90 PERCENT EXCEEDS	25		30		34	

e Estimated

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 downstream of bridge on County Road 2A East, 2.8 mi downstream from South Fork Wildcat Creek, 3.7 mi northeast of courthouse in Lafayette, and 4.8 mi upstream from mouth.
DRAINAGE AREA.--794 mi².
PERIOD OF RECORD.--May 1954 to current year.
REVISED RECORDS.--WSP 1555: 1955, 1957(M). WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 527.66 ft above sea level (Indiana Flood Control and Water Resources Commission bench mark). Nonrecording gage prior to June 13, 1957, and August 31, 1974, to May 20, 1976, at present site and datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1913 reached a stage of about 25.4 ft, from profile by State of Indiana, Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	128	115	e77	e380	674	588	e2900	1660	368	630	134
2	78	157	114	e82	e345	513	1060	e2000	1400	337	477	131
3	102	143	113	104	e300	289	1020	e1500	1210	317	393	128
4	102	147	110	159	e280	330	859	e1300	1050	317	339	124
5	141	128	110	211	e260	379	697	e1600	912	276	305	122
6	109	115	109	e150	e270	710	575	e2000	803	254	278	122
7	106	126	109	e122	e280	940	495	e2000	864	237	256	130
8	109	124	108	e113	e310	e820	459	e1800	768	243	263	189
9	99	131	e95	e109	e340	e600	426	e2600	843	230	230	195
10	91	121	e86	e108	e325	534	389	e4000	1140	212	237	162
11	90	154	e82	e110	e310	459	364	e7400	1920	201	214	149
12	90	207	e80	e116	e290	396	349	e6000	2630	190	203	133
13	87	228	e88	e118	e280	364	345	e5000	2000	183	196	124
14	85	173	e110	e120	e260	352	340	e3500	1410	183	187	121
15	85	155	e127	e129	e240	344	335	2470	1050	205	181	123
16	86	146	127	e139	e220	336	353	2200	844	225	174	132
17	86	139	111	e160	e210	335	339	1880	725	204	168	140
18	87	140	116	716	202	334	313	1590	861	2520	178	159
19	87	142	120	2040	211	320	305	1310	1110	4160	168	143
20	101	140	119	2290	205	353	318	1100	850	3870	161	132
21	110	133	160	1770	203	371	309	959	738	2280	238	152
22	137	128	130	1040	197	370	383	830	770	2840	e370	203
23	110	127	117	743	198	377	1310	712	e725	2030	e195	264
24	94	125	111	1130	195	443	2500	698	e3200	1400	e180	189
25	88	123	108	1630	190	889	2370	1400	e2200	1100	e160	154
26	85	123	e98	1450	192	1310	e1800	1650	e1300	840	e150	153
27	95	123	e92	1010	239	1040	e1300	2820	797	630	146	154
28	112	115	e86	773	388	750	e1100	4210	590	561	143	163
29	137	114	e82	e540	617	492	e1400	3750	487	514	142	176
30	115	113	e77	e470	---	415	e2500	2970	415	489	142	159
31	125	---	e74	e440	---	395	---	2270	---	868	136	---
TOTAL	3109	4168	3284	18169	7937	16234	24901	76419	35272	28284	7240	4560
MEAN	100	139	106	586	274	524	830	2465	1176	912	234	152
MAX	141	228	160	2290	617	1310	2500	7400	3200	4160	630	264
MIN	78	113	74	77	190	289	305	698	415	183	136	121
CFSM	.13	.17	.13	.74	.34	.66	1.05	3.10	1.48	1.15	.29	.19
IN.	.15	.20	.15	.85	.37	.76	1.17	3.58	1.65	1.33	.34	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

MEAN	311	610	824	819	1059	1373	1329	946	803	606	344	310
MAX	1298	3963	2474	3711	3227	3991	3657	2614	5210	2968	1511	2546
(WY)	1970	1993	1991	1974	1976	1982	1964	1983	1958	1992	1958	1989
MIN	67.9	85.6	67.0	61.6	104	290	310	231	130	84.4	79.8	68.8
(WY)	1964	1964	1964	1977	1963	1981	1971	1976	1988	1977	1966	1956

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	170307		229577			
ANNUAL MEAN	467		627		776	
HIGHEST ANNUAL MEAN					1460	1993
LOWEST ANNUAL MEAN					310	1987
HIGHEST DAILY MEAN	5090	Mar 8	7400	May 11	22100	Jun 10 1958
LOWEST DAILY MEAN	74	Dec 31	74	Dec 31	47	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	81	Sep 26	81	Dec 27	51	Dec 20 1963
INSTANTANEOUS PEAK FLOW			8080	May 11	25000	Jun 10 1958
INSTANTANEOUS PEAK STAGE			12.71	May 11	21.52	Jun 10 1958
ANNUAL RUNOFF (CFSM)	.59		.79		.98	
ANNUAL RUNOFF (INCHES)	7.98		10.76		13.28	
10 PERCENT EXCEEDS	1130		1780		1750	
50 PERCENT EXCEEDS	235		241		362	
90 PERCENT EXCEEDS	90		108		114	

e Estimated

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 downstream from Brown St. in Lafayette, 0.2 mi upstream from Main St. bridge, 0.3 mi downstream from Harrison Memorial Bridge, 5.1 mi downstream from Wildcat Creek, and at mile 311.9.
DRAINAGE AREA.--7,267 mi^2.
PERIOD OF RECORD.--February 1901 to January 1902, March to December 1902, January to May 1903 (gage height 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. WDR IN-81-1: 1979.
GAGE.--Water-stage recorder. Datum of gage is 504.14 ft above sea level. Prior to May 2, 1903, nonrecording gage 0.5 mi upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs and power development.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 32.9 ft, from floodmark determined by National Weather Service, discharge, 190,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	e3060	2450	1750	e6900	9330	5080	11700	16400	4290	11700	2260
2	1340	3220	2590	1910	e5300	9670	5100	12800	15400	3820	8960	2040
3	1550	3640	2090	1840	e4500	7920	4810	12200	15400	3770	7850	2100
4	1700	3450	2100	1570	e3800	5770	4510	11500	14600	3510	6340	1860
5	1610	3310	2060	e1400	e3400	4770	4110	11900	12400	3320	5220	1880
6	1460	3080	1830	e1150	e3500	5180	3840	12600	11100	3110	4800	1660
7	1400	3010	1980	e1100	e4000	5430	3360	13700	10900	2930	4260	1910
8	1430	2950	1690	e1080	e4900	5790	3380	13300	10500	2820	4510	2110
9	2070	2900	1450	e1050	e5900	5450	3290	13400	11200	2530	4300	2260
10	2400	4000	1230	e1000	e10000	4720	2870	15100	14100	2420	3990	1830
11	2650	3580	1350	e990	4390	4150	2760	23700	19600	2470	3590	e1800
12	2630	4070	1720	e960	4000	3770	2670	24600	21100	2180	3260	e1800
13	2710	4920	1820	e920	4200	3910	2700	19900	18700	2230	3150	1730
14	2350	5030	1960	e1020	3760	3860	2590	16800	16400	1930	2930	1610
15	2100	5210	1870	e1180	3490	3470	2390	15500	15400	2210	2710	1880
16	2070	4820	1830	e1300	3350	3430	2620	15100	13400	2310	2530	1830
17	2090	4740	1990	2300	3000	3450	2670	15300	11500	2370	2480	2060
18	3170	3880	2100	3420	3040	3630	2440	16000	12000	8710	2330	1720
19	3460	3680	2300	12100	2920	3660	2320	16400	15300	26200	2470	1800
20	3600	3610	2030	15300	2630	3660	2340	14100	14300	34600	2280	1560
21	3610	e3390	1760	14800	2830	3560	2670	11900	12200	29500	2710	1810
22	2810	3450	1890	12900	2910	4730	3330	10300	11700	24900	4940	2110
23	2540	3260	1810	12600	2960	4550	5580	8920	11200	23400	5050	2110
24	2530	3530	1710	13500	2860	4960	8290	8660	15400	20000	3940	2180
25	2450	3190	1850	15600	2650	5570	9150	10100	14200	17800	3580	2060
26	2380	3260	1950	e14500	2870	6550	9820	14600	8470	14600	3180	2050
27	2500	3070	1860	13200	2930	6590	10500	14900	6540	11800	3150	2280
28	2620	2870	1770	11500	3680	6880	9890	21500	5590	10300	2780	2260
29	2690	2700	1700	e10100	6100	6600	9000	22100	5120	9940	2770	2180
30	2820	2620	1590	e9000	---	5760	10400	20200	4670	9920	2470	2990
31	2740	---	1640	e7600	---	5120	---	18800	---	12400	2350	---
TOTAL	72850	107500	57970	188640	116770	161890	144480	467580	384790	302290	126580	59730
MEAN	2350	3583	1870	6085	4027	5222	4816	15080	12830	9751	4083	1991
MAX	3610	5210	2590	15600	10000	9670	10500	24600	21100	34600	11700	2990
MIN	1340	2620	1230	920	2630	3430	2320	8660	4670	1930	2280	1560
CFSM	.32	.49	.26	.84	.55	.72	.66	2.08	1.77	1.34	.56	.27
IN.	.37	.55	.30	.97	.60	.83	.74	2.39	1.97	1.55	.65	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1996, BY WATER YEAR (WY)

MEAN	3000	4322	6708	8499	9436	11710	11650	8273	6394	4148	2714	2659
MAX	14750	19910	25250	42040	28000	33560	28000	37290	31830	14820	12090	20120
(WY)	1927	1993	1928	1950	1959	1982	1957	1943	1958	1957	1990	1926
MIN	652	828	747	735	1232	1663	3135	1460	1029	655	484	435
(WY)	1964	1965	1964	1977	1964	1941	1941	1934	1934	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1924 - 1996	
ANNUAL TOTAL	1984370		2191070			
ANNUAL MEAN	5437		5987		6609	
HIGHEST ANNUAL MEAN					12340	1950
LOWEST ANNUAL MEAN					1631	1941
HIGHEST DAILY MEAN	29500	Mar 9	34600	Jul 20	129000	May 19 1943
LOWEST DAILY MEAN	1090	Sep 17	920	Jan 13	399	Sep 26 1941
ANNUAL SEVEN-DAY MINIMUM	1170	Sep 12	1000	Jan 8	404	Sep 21 1941
INSTANTANEOUS PEAK FLOW			35400	Jul 20	131000	May 19 1943
INSTANTANEOUS PEAK STAGE			17.30	Jul 20	28.47	May 19 1943
ANNUAL RUNOFF (CFSM)	.75		.82		.91	
ANNUAL RUNOFF (INCHES)	10.16		11.22		12.36	
10 PERCENT EXCEEDS	11900		14600		15800	
50 PERCENT EXCEEDS	3640		3450		3600	
90 PERCENT EXCEEDS	1590		1760		1140	

e Estimated

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 downstream from county road bridge, 0.3 mi north of Chase, 2 mi east of Boswell, and 5 mi west of Oxford.
DRAINAGE AREA.--39.4 mi².
PERIOD OF RECORD.--June 1971 to current year.
REVISED RECORDS.--WDR IN-80-1: 1971-79 (P).
GAGE.--Water-stage recorder. Datum of gage is 710.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.70	9.7	4.9	e2.9	e15	20	57	41	71	32	15	e.78
2	e.70	19	4.1	e3.1	e13	16	43	32	79	29	12	e.74
3	e1.2	19	4.3	e4.2	e12	17	35	29	69	24	10	e.70
4	e1.1	7.4	3.8	7.0	e11	11	28	27	54	21	8.7	e.66
5	e1.0	5.6	4.0	6.4	e10	22	21	33	44	19	7.8	e.64
6	e.92	4.9	3.5	e5.8	e9.8	28	21	42	43	17	6.6	e.60
7	e.84	4.8	3.3	e5.5	e9.5	38	19	38	41	15	5.8	e.86
8	e.79	3.8	3.3	e4.9	e13	20	17	44	36	14	5.2	e.72
9	e.76	3.3	2.9	e4.7	14	16	15	70	37	12	4.4	e.58
10	e.74	3.5	2.2	e4.5	13	13	14	177	35	10	3.8	e.52
11	e.71	15	e2.2	e4.4	11	12	14	200	199	9.5	3.6	e.50
12	e.68	14	e2.1	e4.1	8.4	12	14	118	161	9.2	3.5	e.48
13	e.76	9.5	e2.6	e4.0	e8.0	12	12	81	98	8.7	2.7	e.46
14	e.74	7.6	e3.1	e4.1	e7.4	12	10	62	71	8.1	2.3	e.44
15	e.70	7.2	4.5	e4.2	e7.2	12	13	56	53	8.1	2.2	e.43
16	e.70	6.8	3.6	e4.6	e6.8	13	10	51	43	8.1	1.7	e.45
17	e.68	7.4	3.3	82	e6.4	14	9.2	66	388	7.0	1.6	e.70
18	e.66	12	4.2	239	e6.2	13	10	50	2110	21	2.7	.58
19	e.64	9.8	3.7	163	e6.2	15	13	41	287	14	5.0	.55
20	1.6	8.9	4.5	74	e6.4	e16	12	36	163	9.2	2.1	.57
21	2.3	8.2	4.7	48	6.9	e15	9.2	30	117	88	1.6	.66
22	1.3	7.0	4.4	38	6.9	19	78	27	164	96	1.5	.66
23	1.1	6.7	4.3	46	e7.0	29	72	26	113	44	1.3	.62
24	1.1	5.5	4.2	90	e7.4	84	48	24	326	30	e1.2	.65
25	1.1	5.5	e4.0	52	e7.9	109	41	44	129	25	e1.2	.62
26	1.2	5.7	e3.8	44	e9.3	59	33	50	89	17	e1.1	.68
27	5.4	6.0	e3.5	e33	e19	31	25	219	70	14	e1.0	1.3
28	2.9	4.9	e3.3	e27	e26	27	24	179	56	23	e.96	.83
29	2.0	4.2	e3.1	e23	e28	25	62	271	47	19	e.90	.60
30	2.0	4.5	e2.8	e20	---	23	56	132	41	34	e.87	.53
31	16	---	e2.7	e18	---	27	---	93	---	23	e.82	---
TOTAL	53.02	237.4	110.9	1071.4	312.7	780	835.4	2389	5234	708.9	119.15	19.11
MEAN	1.71	7.91	3.58	34.6	10.8	25.2	27.8	77.1	174	22.9	3.84	.64
MAX	16	19	4.9	239	28	109	78	271	2110	96	15	1.3
MIN	.64	3.3	2.1	2.9	6.2	11	9.2	24	35	7.0	.82	.43
CFSM	.04	.20	.09	.88	.27	.64	.71	1.96	4.43	.58	.10	.02
IN.	.05	.22	.10	1.01	.30	.74	.79	2.26	4.94	.67	.11	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

MEAN	17.4	33.2	48.2	40.5	55.4	72.9	71.5	61.1	53.5	24.9	15.5	18.0
MAX	113	169	154	164	158	237	267	159	174	147	122	134
(WY)	1994	1986	1991	1993	1990	1979	1994	1981	1996	1993	1981	1993
MIN	.89	.79	.98	.47	3.41	6.54	17.2	8.49	2.85	.65	.79	.40
(WY)	1981	1981	1977	1977	1977	1981	1977	1976	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1972 - 1996	
ANNUAL TOTAL	14583.30		11870.98			
ANNUAL MEAN	40.0		32.4		42.6	
HIGHEST ANNUAL MEAN					93.0	1993
LOWEST ANNUAL MEAN					16.2	1977
HIGHEST DAILY MEAN	690	May 24	2110	Jun 18	4550	Apr 12 1994
LOWEST DAILY MEAN	.64	Oct 19	.43	Sep 15	.10	Sep 18 1988
ANNUAL SEVEN-DAY MINIMUM	.70	Oct 13	.47	Sep 10	.24	Sep 9 1983
INSTANTANEOUS PEAK FLOW			4370	Jun 18	12100	Apr 12 1994
INSTANTANEOUS PEAK STAGE			12.89	Jun 18	16.98	Apr 12 1994
ANNUAL RUNOFF (CFSM)	1.01		.82		1.08	
ANNUAL RUNOFF (INCHES)	13.77		11.21		14.68	
10 PERCENT EXCEEDS	92		70		98	
50 PERCENT EXCEEDS	12		9.5		16	
90 PERCENT EXCEEDS	.92		.74		.99	

e Estimated

03336000 WABASH RIVER AT COVINGTON, IN

LOCATION.--Lat 40°08'24", long 87°24'24", in NE¼NW¼ sec.35, T.20 N., R.9 W., Warren County, Hydrologic Unit 05120108, on right approach to old U.S. Highway 136 bridge at Covington, 2.9 mi downstream from Oppossum Run, 3.6 mi upstream from Spring Creek, and at mile 271.1.
DRAINAGE AREA.--8,218 mi².
PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mi downstream January 1927 to December 1930, and at present site since January 1931 are contained in reports of National Weather Service.
REVISED RECORDS.--WDR IN-73-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 473.97 ft above sea level. Prior to Oct. 1, 1979, nonrecording gage on old bridge.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 35.1 ft, from floodmark determined by National Weather Service, discharge, 200,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	3120	2950	2130	e7200	8020	6170	12600	22700	5840	13800	2650
2	1340	3370	2820	2270	e5800	10000	6460	13800	19600	5300	11600	2540
3	1440	3560	2800	2260	e5000	9450	5930	13600	18300	4890	9440	2370
4	1600	3890	2510	2230	e4200	7350	5530	13000	17500	4560	8190	2380
5	1600	3710	2430	e1600	e3900	5980	4920	13200	16000	4310	6670	2210
6	1610	3590	2350	e1300	e4000	5680	4480	14800	13800	4230	5750	2180
7	1540	3430	2310	e1250	e4300	5900	4270	15200	13100	3950	5310	2080
8	1460	3310	2280	e1200	e5000	6070	3780	15900	12400	3770	4890	2270
9	1590	3280	1750	e1170	e6000	5930	3860	17200	12300	3630	5080	2400
10	2100	3470	1510	e1130	e7000	5970	3620	20800	14700	3410	4700	2440
11	2350	4240	1920	e1100	e10000	5070	3240	28000	20700	3240	4400	e2250
12	2540	4240	2090	e1090	5740	4490	3140	30300	24400	3180	4040	e2160
13	2560	4650	2370	e1050	5040	4290	3150	30300	24500	3000	3750	2060
14	2570	5270	2490	e1170	4840	4270	3030	27100	22300	2920	3540	2040
15	2250	5300	2480	e1340	4490	4280	3070	23100	19400	2690	3270	2010
16	2130	5320	2370	e1500	4090	3870	2990	20600	17000	2860	3080	2140
17	2080	5150	2270	e2500	3920	3750	3110	19400	14800	2970	2940	e2160
18	2310	4570	2340	e5000	3340	3940	3100	18900	15500	3770	2890	2280
19	3180	4050	2650	e13500	3340	3880	2970	18700	18100	15000	2890	2030
20	3450	3800	2600	e17000	3470	3970	2910	17800	18900	23600	2890	2070
21	3750	3740	2330	16200	3320	3980	2890	15300	16300	28000	2750	1950
22	3560	3530	2260	14700	3340	4140	3510	13200	14400	30100	3160	2110
23	2980	3480	2400	e14000	3370	5100	5690	11100	14800	28900	5220	2320
24	2740	3470	2110	e15000	3390	5170	8030	10200	21000	26800	4980	2360
25	2750	3690	2220	e16500	3360	6460	10100	10100	22100	23300	4080	2410
26	2640	3550	2290	16300	3170	7410	9780	13500	16000	19400	3730	2330
27	2640	3470	2340	14900	3450	7340	11100	18200	10300	15200	3380	2340
28	2770	3280	2230	13100	3640	7240	10800	22600	8030	12500	3300	2490
29	2850	3130	2190	12400	4710	7280	11500	26000	6870	11500	3050	2500
30	2980	3080	2110	e10000	---	6680	12300	26800	6420	11300	2960	2490
31	3050	---	2010	e8600	---	6050	---	25300	---	12100	2740	---
TOTAL	73740	115740	71780	213490	132420	179010	165430	576600	492220	326220	148470	68020
MEAN	2379	3858	2315	6887	4566	5775	5514	18600	16410	10520	4789	2267
MAX	3750	5320	2950	17000	10000	10000	12300	30300	24500	30100	13800	2650
MIN	1330	3080	1510	1050	3170	3750	2890	10100	6420	2690	2740	1950
CFSM	.29	.47	.28	.84	.56	.70	.67	2.26	2.00	1.28	.58	.28
IN.	.33	.52	.32	.97	.60	.81	.75	2.61	2.23	1.48	.67	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	3414	4945	7255	9127	10690	13090	13240	9938	8019	5259	3397	2949
MAX	14370	23930	22080	49700	34450	34840	28470	43540	36010	17990	12230	11960
(WY)	1991	1993	1968	1950	1959	1982	1957	1943	1958	1993	1990	1989
MIN	738	919	810	896	1357	1915	3536	1814	1542	1212	640	545
(WY)	1965	1965	1964	1977	1963	1941	1941	1941	1988	1988	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	2243770		2563140			
ANNUAL MEAN	6147		7003		7591	
HIGHEST ANNUAL MEAN					14980	1950
LOWEST ANNUAL MEAN					1862	1941
HIGHEST DAILY MEAN	29000	Mar 10	30300	May 12	143000	May 20 1943
LOWEST DAILY MEAN	1250	Sep 17	1050	Jan 13	487	Sep 29 1941
ANNUAL SEVEN-DAY MINIMUM	1360	Sep 13	1130	Jan 8	497	Sep 24 1941
INSTANTANEOUS PEAK FLOW			31400	May 12	147000	May 20 1943
INSTANTANEOUS PEAK STAGE			20.38	May 12	32.44	May 20 1943
ANNUAL RUNOFF (CFSM)	.75		.85		.92	
ANNUAL RUNOFF (INCHES)	10.16		11.60		12.55	
10 PERCENT EXCEEDS	14200		17300		18200	
50 PERCENT EXCEEDS	4000		3860		4420	
90 PERCENT EXCEEDS	1760		2110		1440	

e Estimated

03339280 PRAIRIE CREEK NEAR LEBANON, IN

LOCATION.--Lat 40°06'16", long 86°31'32", in NW¼SW¼ sec.10, T.19 N., R.1 W., Boone County, Hydrologic Unit 05120110, on right bank 50 ft upstream from bridge on County Road 450 North, 4.0 mi upstream from Deer Creek, 4.9 mi northwest of Lebanon, and 7.7 mi upstream from mouth.
DRAINAGE AREA.--33.2 mi².
PERIOD OF RECORD.--October 1987 to current year.
GAGE.--Water-stage recorder. Datum of gage is 860.00 ft above sea level.
REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	e10	e2.3	e8.0	e13	e18	e82	132	54	13	13	2.9
2	9.5	e26	e2.1	e14	e11	e13	e54	88	55	12	12	2.6
3	26	2.3	e2.3	e12	e10	e11	e35	76	44	11	10	3.6
4	4.9	3.2	e2.5	e11	e9.2	e8.7	e27	207	37	9.7	8.7	2.9
5	3.8	3.2	e3.2	e9.6	e8.6	e40	e22	295	30	8.4	7.8	2.9
6	e7.2	28	e4.9	e8.8	e8.2	e49	e19	297	42	7.4	7.4	3.6
7	e5.4	6.5	e3.8	e8.0	e9.0	e33	e17	144	84	7.4	6.8	3.5
8	e4.1	4.0	e3.1	e7.6	e11	e24	e15	1050	53	7.3	6.1	4.0
9	e3.2	3.9	e2.7	e7.2	e18	e18	e14	685	45	9.0	5.7	6.1
10	e2.5	3.3	e2.5	e6.8	e15	e13	e13	347	36	6.5	4.6	3.0
11	e2.1	3.3	e2.3	e6.4	e13	e12	e12	468	155	6.0	5.0	2.1
12	e2.6	5.0	e2.2	e6.2	e11	e11	e11	190	219	5.5	5.3	2.3
13	e3.4	8.0	e2.4	e6.0	e9.8	e10	e12	119	92	5.5	4.5	1.4
14	e4.5	3.2	e2.9	e6.2	e9.2	e9.6	e11	84	75	6.0	3.6	1.4
15	e5.8	2.9	e3.5	e6.6	e8.6	e9.4	e13	473	98	7.3	3.9	1.5
16	e4.0	3.5	e2.9	e10	e8.0	e9.0	14	266	56	5.0	3.8	14
17	e6.0	3.6	e2.6	e150	e7.6	e8.8	11	134	42	4.2	3.6	7.0
18	e10	2.8	e4.2	e120	e7.2	e8.4	11	87	46	263	3.5	3.5
19	e17	2.5	e27	e54	e6.8	e13	12	64	87	107	3.9	3.1
20	e40	2.8	e21	e36	e7.0	e34	12	51	51	51	3.8	3.0
21	e4.4	2.8	e12	e25	e7.2	e26	9.7	42	35	132	3.5	13
22	e7.4	2.9	e9.0	e19	e7.5	e18	110	32	44	162	3.4	7.6
23	e3.8	2.7	e7.4	e74	e8.4	e23	262	32	71	68	5.7	4.4
24	e2.4	2.5	e6.0	e100	e8.0	e29	150	539	104	46	3.1	3.6
25	e2.2	e2.4	e5.6	e54	e7.6	e32	94	250	45	37	3.1	3.3
26	e2.8	e2.3	e5.2	e31	e13	e23	87	204	27	24	3.5	4.1
27	e3.6	e2.3	e5.0	e43	e42	e17	61	717	21	19	3.6	9.0
28	e2.6	e2.2	e4.8	e31	e48	e15	65	307	18	16	3.0	7.5
29	e4.2	e3.0	e4.7	e21	e30	e22	524	148	15	18	3.0	4.2
30	e3.0	e2.6	e4.6	e18	---	e17	242	92	14	17	2.9	4.0
31	e5.0	---	e5.8	e15	---	e60	---	68	---	16	3.6	---
TOTAL	208.3	153.7	170.5	925.4	372.9	634.9	2021.7	7688	1795	1107.2	161.4	135.1
MEAN	6.72	5.12	5.50	29.9	12.9	20.5	67.4	248	59.8	35.7	5.21	4.50
MAX	40	28	27	150	48	60	524	1050	219	263	13	14
MIN	2.1	2.2	2.1	6.0	6.8	8.4	9.7	32	14	4.2	2.9	1.4
CFSM	.20	.15	.17	.90	.39	.62	2.03	7.47	1.80	1.08	.16	.14
IN.	.23	.17	.19	1.04	.42	.71	2.27	8.61	2.01	1.24	.18	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	11.3	50.8	32.1	40.9	37.9	53.8	64.6	68.3	32.1	35.7	9.24	26.9
MAX	25.8	205	158	129	139	109	96.7	248	80.0	95.6	34.8	139
(WY)	1993	1993	1991	1993	1990	1990	1989	1996	1990	1989	1989	1989
MIN	2.95	5.12	5.50	11.0	8.05	19.2	24.9	6.45	4.34	3.08	2.45	2.22
(WY)	1995	1996	1996	1989	1995	1994	1995	1988	1988	1991	1988	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996	
ANNUAL TOTAL	7229.3		15374.1			
ANNUAL MEAN	19.8		42.0		38.6	
HIGHEST ANNUAL MEAN					63.0	1993
LOWEST ANNUAL MEAN					19.3	1988
HIGHEST DAILY MEAN	580	May 18	1050	May 8	1900	Dec 30 1990
LOWEST DAILY MEAN	1.3	Sep 4	1.4	Sep 13	.71	Oct 10 1991
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 31	2.4	Nov 26	.93	Oct 7 1991
INSTANTANEOUS PEAK FLOW			1620	May 8	2710	Mar 11 1990
INSTANTANEOUS PEAK STAGE			11.20	May 8	13.99	Mar 11 1990
ANNUAL RUNOFF (CFSM)	.60		1.27		1.16	
ANNUAL RUNOFF (INCHES)	8.10		17.23		15.79	
10 PERCENT EXCEEDS	33		95		75	
50 PERCENT EXCEEDS	7.2		9.5		14	
90 PERCENT EXCEEDS	2.2		2.9		2.9	

e Estimated

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 upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 700 ft upstream from bridge on U.S. Highway 231, 1.0 mi downstream from Walnut Fork Sugar Creek, and at mile 40.4.
DRAINAGE AREA.--509 mi².
PERIOD OF RECORD.--June 1938 to current year.
REVISED RECORDS.--WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.
GAGE.--Water-stage recorder. Datum of gage is 657.77 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 17.3 ft from information by local resident, discharge, about 36,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	32	31	e43	e300	e500	e1100	2250	1150	290	247	32
2	13	40	31	57	e270	e420	908	1550	1040	265	202	31
3	20	47	32	56	e250	e290	676	1210	947	241	176	30
4	33	45	33	75	e230	e280	526	1920	786	216	156	30
5	37	36	30	89	e220	e500	398	2760	639	200	140	28
6	25	32	30	e78	e210	e1450	318	3660	615	184	131	27
7	20	49	28	e65	e230	e900	295	2110	867	173	119	28
8	17	56	28	e54	e280	e590	269	3860	753	168	110	29
9	17	56	25	e53	e320	e500	239	5820	984	166	99	34
10	18	41	e20	e53	e290	e380	218	4530	913	152	92	34
11	18	90	e19	e52	e280	e330	205	7030	2400	137	85	e32
12	16	157	e18	e50	e230	e320	199	3570	3390	127	82	e28
13	16	93	e23	e48	e200	e310	200	2160	1910	123	78	26
14	15	67	33	e49	e190	e300	182	1570	1280	116	71	25
15	15	58	38	e52	e185	e305	178	2800	1160	128	65	25
16	18	51	35	58	e160	e290	187	3180	878	120	60	34
17	18	49	32	771	e155	e270	168	1920	e560	108	57	41
18	16	51	43	2250	e167	e250	151	1380	e620	4310	60	46
19	17	57	e56	1950	e158	e255	155	1050	e800	1660	60	33
20	24	50	84	e1100	e150	e280	156	825	e680	979	56	30
21	28	43	96	e720	e140	e215	146	677	e540	841	51	47
22	36	41	78	e510	e130	e230	689	542	e590	1980	48	71
23	24	40	e56	e600	e150	e280	2880	493	e1400	1190	46	53
24	18	38	e50	e2100	e170	e900	2410	7260	e1280	707	44	37
25	18	36	e45	e1200	e154	e1700	1420	4400	e900	527	42	32
26	20	35	e39	e760	e180	e1100	1020	3150	e780	350	39	31
27	24	35	e35	e770	e500	e700	1050	5830	e560	269	38	33
28	27	35	e33	e640	e1100	e580	858	5930	471	267	39	38
29	28	34	e31	e540	e600	e560	4860	3120	386	288	37	41
30	29	32	e33	e380	---	e520	3970	2090	331	317	35	35
31	30	---	e36	e320	---	e730	---	1490	---	329	34	---
TOTAL	669	1526	1201	15543	7599	16235	26031	90137	29610	16928	2599	1041
MEAN	21.6	50.9	38.7	501	262	524	868	2908	987	546	83.8	34.7
MAX	37	157	96	2250	1100	1700	4860	7260	3390	4310	247	71
MIN	13	32	18	43	130	215	146	493	331	108	34	25
CFSM	.04	.10	.08	.99	.51	1.03	1.70	5.71	1.94	1.07	.16	.07
IN.	.05	.11	.09	1.14	.56	1.19	1.90	6.59	2.16	1.24	.19	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

MEAN	152	360	499	629	711	886	881	675	552	322	170	164
MAX	1098	3060	2084	4163	2229	2390	2592	3297	2648	1325	1801	1991
(WY)	1978	1993	1991	1950	1985	1978	1964	1943	1957	1993	1958	1989
MIN	13.1	25.1	17.0	17.1	68.4	79.2	148	74.9	32.5	16.6	8.42	4.80
(WY)	1964	1941	1964	1977	1964	1941	1976	1941	1988	1988	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	95943.6		209119			
ANNUAL MEAN	263		571		499	
HIGHEST ANNUAL MEAN					1086	1950
LOWEST ANNUAL MEAN					65.0	1941
HIGHEST DAILY MEAN	7010	Mar 8	7260	May 24	20100	Jun 29 1957
LOWEST DAILY MEAN	9.2	Aug 22	13	Oct 2	2.4	Sep 24 1941
ANNUAL SEVEN-DAY MINIMUM	14	Aug 29	16	Oct 12	2.7	Sep 21 1941
INSTANTANEOUS PEAK FLOW			10800	May 24	26300	Jun 28 1957
INSTANTANEOUS PEAK STAGE			8.45	May 24	14.48	Jun 28 1957
ANNUAL RUNOFF (CFSM)	.52		1.12		.98	
ANNUAL RUNOFF (INCHES)	7.01		15.28		13.31	
10 PERCENT EXCEEDS	528		1560		1170	
50 PERCENT EXCEEDS	93		156		180	
90 PERCENT EXCEEDS	18		28		29	

e Estimated

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 left bank 20 ft upstream from bridge on U.S. Highway 36 at Montezuma, 2.0 mi upstream from Big Raccoon Creek, 4.9 mi downstream from Sugar Creek, and at mile 240.0.
DRAINAGE AREA.--11,118 mi².
PERIOD OF RECORD.--October 1927 to current year. 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. WDR IN-74-1: 1973.
GAGE.--Water-stage recorder. Datum of gage is 457.75 ft above sea level (levels by U.S. Army Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage on downstream side of bridge and at same datum. July 12, 1950, to July 27, 1988, recording gage in downstream side of first pier from left bank at same datum.
REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 27, 1913, reached a stage of 34.0 ft, from floodmarks, discharge, 230,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	2890	2800	1820	e10000	8140	10500	26000	31800	9120	14500	3010
2	1350	3100	2630	1940	e8600	10800	11300	21500	27800	8400	14000	2900
3	1400	3400	2630	2030	e7000	11100	10000	20400	25100	7810	11700	2710
4	1620	3870	2390	1810	e5400	9460	8690	22900	24000	7300	10100	2590
5	1690	4040	2270	1090	e4800	7690	7590	24200	22600	6780	8700	2510
6	1670	3700	2140	989	e4200	9480	6550	26700	20400	6460	7610	2350
7	1570	3670	1980	e960	e4600	9860	5870	24600	19400	6190	6670	2380
8	1410	3420	2050	e940	e5400	8470	5390	25900	17900	5850	6090	2460
9	1400	3270	1790	e920	e6910	7580	4980	37300	17100	5550	5850	2670
10	1570	3170	918	e900	8400	7440	4800	37100	21700	5260	5730	2650
11	2050	3830	914	e898	12100	6920	4410	48300	27800	5010	5180	e2500
12	2310	4340	1140	e880	7660	5900	4140	56000	33700	4860	4900	e2350
13	2390	4930	1340	e840	5920	5390	4020	52700	32800	4540	4620	2220
14	2430	5600	1650	e1090	5580	5380	3970	46800	29900	4240	4270	2060
15	2290	5720	1960	e1700	5160	5220	3790	38600	26500	4210	4040	2100
16	1970	5710	2020	2080	4810	5020	3680	34700	23600	4030	3730	2120
17	1890	5430	1970	2910	4310	4660	3740	30700	21700	3960	3590	2140
18	1880	5270	2060	6470	3940	4570	3650	27600	23600	5140	3500	2400
19	2470	4690	2270	14000	3520	4760	3550	25700	24000	11300	3760	2190
20	3120	4390	2420	19400	3810	4860	4050	24300	23900	19400	4090	2030
21	3300	4130	2330	18600	3760	4870	3750	22100	22200	22900	3730	2070
22	3440	3970	2250	17100	3700	4650	6020	19300	19700	26000	3600	1990
23	2980	3690	2190	15800	3640	5470	13800	17000	19200	28200	4520	2160
24	2580	3630	2200	18300	3650	6210	17600	17500	22200	28200	5770	2370
25	2470	3620	1910	19500	3680	10200	15800	24100	25900	26100	4960	2380
26	2440	3470	1900	19300	3660	11600	15000	23000	23300	22600	4310	2370
27	2420	3470	1990	18300	4150	10200	14300	33000	17300	18200	4120	2340
28	2440	3170	2030	16200	6350	9250	14400	44800	13400	14800	3780	2430
29	2570	3010	1820	14900	6910	9100	27900	45800	11300	13400	3560	2620
30	2670	2850	1750	13900	---	8710	32700	41800	9940	13500	3390	2540
31	2870	---	1830	e11800	---	8020	---	37000	---	14000	3250	---
TOTAL	68080	119450	61542	247367	161620	230980	275940	977400	679740	363310	177620	71610
MEAN	2196	3982	1985	7980	5573	7451	9198	31530	22660	11720	5730	2387
MAX	3440	5720	2800	19500	12100	11600	32700	56000	33700	28200	14500	3010
MIN	1350	2850	914	840	3520	4570	3550	17000	9940	3960	3250	1990
CFSM	.20	.36	.18	.72	.50	.67	.83	2.84	2.04	1.05	.52	.21
IN.	.23	.40	.21	.83	.54	.77	.92	3.27	2.27	1.22	.59	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	4223	6263	9461	12660	14040	17040	17600	13870	10310	7186	4345	3619
MAX	16990	36840	40350	66690	40610	49690	37650	58400	42730	25110	18840	17800
(WY)	1991	1993	1928	1950	1959	1982	1938	1943	1958	1993	1958	1989
MIN	973	1202	1041	1107	1789	2370	4941	2082	1357	1210	815	710
(WY)	1964	1965	1964	1977	1931	1941	1931	1934	1934	1934	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	2769022		3434659			
ANNUAL MEAN	7586		9384		10030	
HIGHEST ANNUAL MEAN					20290	1950
LOWEST ANNUAL MEAN					2506	1931
HIGHEST DAILY MEAN	38600	May 20	56000	May 12	182000	May 20 1943
LOWEST DAILY MEAN	914	Dec 11	840	Jan 13	571	Sep 24 1941
ANNUAL SEVEN-DAY MINIMUM	1390	Dec 9	905	Jan 7	600	Sep 23 1941
INSTANTANEOUS PEAK FLOW			56900	May 12	184000	May 20 1943
INSTANTANEOUS PEAK STAGE			23.81	May 12	32.83	May 20 1943
ANNUAL RUNOFF (CFSM)	.68		.84		.90	
ANNUAL RUNOFF (INCHES)	9.26		11.49		12.26	
10 PERCENT EXCEEDS	18300		24200		24600	
50 PERCENT EXCEEDS	4630		4780		5620	
90 PERCENT EXCEEDS	1730		1930		1690	

e Estimated

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 mi upstream from Ramp Creek, 3.1 mi west of Fincastle, and at mile 48.8.
DRAINAGE AREA.--139 mi^2.
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. WDR IN-79-1: 1978.
GAGE.--Water-stage recorder. Datum of gage is 686.03 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.10 ft discharge, 39,900 ft^3/s, from slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.2	3.8	7.6	e76	148	498	602	206	73	49	5.2
2	3.8	6.0	3.5	16	e68	126	286	411	228	81	36	4.7
3	12	5.1	3.5	40	e64	84	208	899	209	80	28	4.8
4	9.2	4.2	3.5	26	e60	77	167	2000	176	68	24	4.3
5	3.4	3.8	3.4	e20	e58	149	131	1040	148	62	21	3.9
6	2.8	4.1	3.4	e18	e54	532	113	1280	143	59	18	3.5
7	2.4	12	3.4	e16	e58	303	106	605	202	57	17	3.7
8	2.3	12	3.4	e14	78	177	95	2060	177	61	29	3.7
9	e2.2	6.9	e3.1	e13	93	147	84	3420	291	55	15	4.3
10	e2.1	5.7	e2.9	e11	83	114	77	1300	225	49	13	4.0
11	e2.0	17	e2.8	e10	79	96	73	1900	1180	45	12	3.9
12	e1.9	21	e2.7	e9.6	63	89	71	721	1230	42	11	3.5
13	e1.8	13	e2.9	e8.8	52	89	69	456	477	39	10	3.3
14	e2.1	9.9	3.7	e9.1	53	86	60	335	304	38	9.7	3.2
15	e1.9	8.2	3.8	e10	50	84	61	448	242	38	9.1	3.0
16	e1.8	6.6	3.8	14	43	80	66	728	200	37	8.7	6.1
17	e1.7	6.5	3.8	457	41	75	55	398	165	35	8.4	6.2
18	e2.0	4.6	6.7	875	44	69	53	288	202	174	8.2	5.8
19	e2.7	3.9	27	920	41	69	56	224	218	183	7.9	4.5
20	4.5	3.8	35	383	38	78	58	183	181	79	7.9	3.9
21	4.4	3.8	22	239	37	58	52	157	145	57	7.8	10
22	3.9	3.8	14	153	35	63	222	136	162	140	6.9	11
23	3.9	3.9	e10	190	39	76	1280	124	384	108	8.5	7.5
24	3.4	3.7	e8.0	810	45	178	738	122	233	67	9.2	5.6
25	3.4	3.6	e7.0	401	40	685	426	137	158	83	6.1	4.8
26	3.4	4.6	e6.4	248	50	339	338	552	122	74	5.7	4.5
27	3.8	3.8	e5.6	255	327	196	247	2250	105	48	6.4	6.1
28	3.8	3.8	e5.0	195	377	161	260	1180	94	38	7.3	6.2
29	5.0	3.8	e4.4	155	212	156	3180	564	85	37	5.7	6.2
30	3.9	3.6	e4.2	110	---	145	1210	359	78	42	5.5	5.6
31	3.8	---	e5.1	e82	---	206	---	258	---	69	5.3	---
TOTAL	108.4	196.9	217.8	5716.1	2358	4935	10340	25137	7970	2118	417.3	153.0
MEAN	3.50	6.56	7.03	184	81.3	159	345	811	266	68.3	13.5	5.10
MAX	12	21	35	920	377	685	3180	3420	1230	183	49	11
MIN	1.7	3.6	2.7	7.6	35	58	52	122	78	35	5.3	3.0
CFSM	.03	.05	.05	1.33	.58	1.15	2.48	5.83	1.91	.49	.10	.04
IN.	.03	.05	.06	1.53	.63	1.32	2.77	6.73	2.13	.57	.11	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	51.3	139	195	167	199	261	230	186	115	94.7	49.8	43.4
MAX	312	844	913	616	694	683	730	811	496	430	268	545
(WY)	1970	1993	1991	1974	1985	1978	1964	1996	1974	1979	1979	1989
MIN	3.13	5.89	4.93	4.69	26.2	28.6	43.5	19.5	11.1	4.83	2.75	1.72
(WY)	1967	1964	1964	1977	1964	1981	1976	1976	1988	1991	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	23312.6		59667.5			
ANNUAL MEAN	63.9		163		144	
HIGHEST ANNUAL MEAN					292	1974
LOWEST ANNUAL MEAN					38.5	1966
HIGHEST DAILY MEAN	2310	May 19	3420	May 9	12200	Dec 30 1990
LOWEST DAILY MEAN	1.7	Oct 17	1.7	Oct 17	1.0	Oct 11 1988
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 11	1.9	Oct 11	1.1	Oct 6 1988
INSTANTANEOUS PEAK FLOW			5170	May 9	16000	Dec 30 1990
INSTANTANEOUS PEAK STAGE			12.98	May 9	16.10	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.46		1.17		1.03	
ANNUAL RUNOFF (INCHES)	6.24		15.97		14.06	
10 PERCENT EXCEEDS	110		388		300	
50 PERCENT EXCEEDS	24		42		54	
90 PERCENT EXCEEDS	2.9		3.6		7.0	

e Estimated

03340900 BIG RACCOON CREEK AT FERNDALE, IN

LOCATION.--Lat 39°42'40", long 87°04'15", in SE¼SE¼ sec.28, T.15 N., R.6 W., Parke County, Hydrologic Unit 05120108, on right bank at upstream side of bridge on New Discovery Road, 0.5 mi downstream from Cecil M. Harden Lake, 3.7 mi upstream from Rocky Fork Creek, and at mile 33.3.

DRAINAGE AREA.--222 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-94-1: 1992, 1993: Average discharge.

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to Oct. 1, 1974, water-stage recorder at site 1.7 mi downstream and at datum 7.64 ft lower.

REMARKS.--Flow regulated by Cecil M. Harden Lake since December 1960.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--40 years, 231 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,500 ft³/s June 28, 1957, gage height 19.87 ft, from rating curve extended above 5,000 ft³/s on basis of records for station at Big Raccoon Creek at Mansfield; minimum daily, 2.7 ft³/s Oct. 11, 1956; no flow, Aug. 23, 24, 1977, July 26, 1986, Mar. 11, 12, 18, 19, 1987, due to regulation.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,590 ft³/s, May 22; minimum daily 17 ft³/s, Oct. 1-13 and 15-20 and Aug. 16-Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	514	28	23	889	418	67	32	94	1460	83	17
2	17	510	26	41	328	488	68	32	369	1360	82	17
3	17	507	26	65	53	357	69	32	812	1300	66	17
4	17	504	26	108	53	80	43	33	1170	1290	49	17
5	17	501	26	108	53	86	24	34	1310	1280	39	17
6	17	497	24	108	53	87	24	65	943	1270	29	17
7	17	494	19	73	53	87	24	97	742	1260	29	17
8	17	490	22	38	54	88	24	98	826	1250	29	17
9	17	486	22	38	87	89	24	101	825	1270	29	17
10	17	483	22	38	108	72	24	103	740	1300	29	17
11	17	480	22	38	108	56	25	104	324	1280	29	17
12	17	477	22	38	108	56	25	105	104	1120	29	17
13	17	473	22	38	108	56	25	357	105	896	29	17
14	193	470	22	38	108	57	25	757	242	765	29	17
15	17	466	22	38	108	57	25	756	629	336	21	17
16	17	462	22	38	107	58	25	1000	951	83	17	17
17	17	458	22	74	107	58	25	1180	1180	44	17	17
18	17	454	22	113	96	58	25	1250	710	29	17	17
19	17	450	22	120	85	58	25	1420	691	56	17	17
20	17	445	22	123	85	58	26	1460	1220	83	17	17
21	354	441	22	125	85	59	26	1530	1400	83	17	17
22	273	436	22	223	49	59	26	1590	1210	83	17	17
23	394	432	22	464	42	59	27	1580	572	183	17	17
24	608	427	22	336	53	59	28	1440	572	242	17	17
25	605	422	23	549	54	61	28	1070	907	178	17	17
26	591	212	23	673	54	63	28	752	1290	83	17	17
27	553	79	23	668	54	64	28	118	1190	83	17	17
28	525	32	23	826	143	64	28	93	1460	83	17	17
29	522	32	23	1050	235	65	30	94	1480	83	17	17
30	519	32	23	1030	---	65	31	94	1470	83	17	17
31	516	---	23	1000	---	65	---	94	---	83	17	---
TOTAL	5976	12166	710	8242	3520	3107	922	17471	25538	18999	873	510
MEAN	193	406	22.9	266	121	100	30.7	564	851	613	28.2	17.0
MAX	608	514	28	1050	889	488	69	1590	1480	1460	83	17
MIN	17	32	19	23	42	56	24	32	94	29	17	17

CAL YR 1995 TOTAL 39343 MEAN 108 MAX 1010 MIN 15
WTR YR 1996 TOTAL 98034 MEAN 268 MAX 1590 MIN 17

03341300 BIG RACCOON CREEK AT COXVILLE, IN

LOCATION.--Lat 39°39'09", long 87°17'37", in $SW^1/_4SW^1/_4$ 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 mi upstream from Rock Run, 1.5 mi downstream from Little Raccoon Creek, 2.1 mi northwest of Rosedale, and at mile 13.1.
DRAINAGE AREA.--448 mi^2.
PERIOD OF RECORD.--October 1956 to September 1988 (discharge). October 1988 to September 1992 (gage height only). October 1992 to current year (discharge). Prior to October 1963, published as Raccoon Creek at Coxville.
REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-74-1: 1973.
GAGE.--Water-stage recorder. Datum of gage is 494.00 ft above sea level (Indiana Flood Control and Water Resources Commission bench mark).
REMARKS.--Records good, except for the period of July 15 to Aug. 5 and flows above 500 ft^3/s, which are fair and for estimated daily discharges, which are poor. Flow regulated by Cecil M. Harden Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	500	88	63	e886	e403	995	1910	1010	2110	178	57
2	38	511	81	79	e583	e575	587	1300	942	2070	173	56
3	53	502	77	125	e247	e447	450	1240	1260	1960	168	55
4	67	494	73	167	e205	e249	374	3130	1680	1880	153	54
5	48	491	70	216	e180	e262	292	2100	1990	1830	128	53
6	46	494	68	e210	e160	e667	250	1280	2130	1790	113	53
7	44	525	65	e180	e150	e524	229	1020	1630	1770	106	53
8	43	550	62	e160	e160	e359	209	2270	1400	1750	964	55
9	42	548	e58	e150	e170	e322	192	4320	1760	1730	166	65
10	41	512	e54	e130	e204	e275	180	3160	2060	1760	118	56
11	41	594	e52	e118	e206	e260	168	3990	3360	1760	104	e54
12	40	576	e50	e100	e185	e232	160	1790	2190	1740	96	e52
13	39	513	e55	e90	e174	e222	154	1240	1190	1330	90	50
14	69	495	59	e75	e171	e214	145	1570	885	1150	86	49
15	110	484	57	e80	e165	e220	146	1610	1060	844	83	49
16	49	474	56	84	e158	e210	157	1630	1390	424	77	62
17	45	466	54	e200	e156	e200	143	2000	1720	290	74	68
18	43	461	61	e600	e149	e188	134	1930	2480	228	74	54
19	42	452	96	e1700	e135	e188	350	2070	1120	198	71	51
20	45	447	112	e740	e131	e226	1200	2180	1760	205	67	50
21	67	440	114	e620	e130	e190	418	2170	2040	214	64	53
22	377	432	86	e510	e127	e200	2510	2300	2300	233	59	63
23	144	439	77	e900	e105	e220	4680	2290	2010	223	69	54
24	515	441	72	e1480	e107	e350	2240	2270	1450	292	146	51
25	562	434	68	e840	e102	e1400	1290	1780	1260	343	85	49
26	584	409	e62	e890	e166	e700	1010	2920	1910	277	72	49
27	582	238	e57	e930	e220	e410	691	5910	1950	201	68	54
28	499	130	e54	e1000	e290	e340	1020	4520	2090	183	67	56
29	498	103	e52	e1050	e340	e326	6290	4340	2140	180	62	53
30	494	94	e56	e1020	---	296	3630	1890	2120	183	60	51
31	498	---	61	e990	---	398	---	1330	---	181	58	---
TOTAL	5803	13249	2107	15497	6162	11073	30294	73460	52287	29329	3899	1629
MEAN	187	442	68.0	500	212	357	1010	2370	1743	946	126	54.3
MAX	584	594	114	1700	886	1400	6290	5910	3360	2110	964	68
MIN	38	94	50	63	102	188	134	1020	885	180	58	49
CFSM	.42	.99	.15	1.12	.47	.80	2.25	5.29	3.89	2.11	.28	.12
IN.	.48	1.10	.17	1.29	.51	.92	2.52	6.10	4.34	2.44	.32	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

MEAN	325	570	676	580	626	667	680	614	519	350	239	228
MAX	994	1684	2070	1572	1648	1493	1647	2370	3613	1001	1062	1542
(WY)	1990	1994	1968	1974	1969	1985	1957	1996	1957	1981	1958	1989
MIN	17.5	44.3	48.2	25.9	81.8	145	137	107	64.2	59.4	34.4	34.6
(WY)	1957	1957	1964	1977	1961	1981	1995	1976	1988	1988	1966	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1957 - 1996	
ANNUAL TOTAL	87495		244789			
ANNUAL MEAN	240		669		503	
HIGHEST ANNUAL MEAN					914	1974
LOWEST ANNUAL MEAN					160	1966
HIGHEST DAILY MEAN	3760	Mar 8	6290	Apr 29	51400	Jun 28 1957
LOWEST DAILY MEAN	38	Sep 30	38	Oct 1	6.5	Oct 10 1956
ANNUAL SEVEN-DAY MINIMUM	39	Sep 26	41	Oct 7	8.8	Oct 7 1956
INSTANTANEOUS PEAK FLOW			7060	Apr 29	108000	Jun 28 1957
INSTANTANEOUS PEAK STAGE			14.44	Apr 29	21.23	Jun 28 1957
ANNUAL RUNOFF (CFSM)	.54		1.49		1.12	
ANNUAL RUNOFF (INCHES)	7.27		20.33		15.26	
10 PERCENT EXCEEDS	512		1970		1190	
50 PERCENT EXCEEDS	116		220		268	
90 PERCENT EXCEEDS	45		54		69	

e Estimated

03341500 WABASH RIVER AT TERRE HAUTE, IN

LOCATION.--Lat 39°28'33", long 87°25'07", in NE¼NW¼ sec.21, T.12 N., R.9 W., Vigo County, Hydrologic Unit 05120111, on left bank at Indiana America Water Company, Inc., 1st and Elm Streets in Terre Haute, 3.0 mi upstream from Sugar Creek, and 3.6 mi downstream from Lost Creek and at mile 215.
DRAINAGE AREA.--12,263 mi².
PERIOD OF RECORD.--August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year. Gage-height records collected at site 100 ft downstream June 1891 to June 1897 and since December 1904 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 2051: 1905. WSP 1335: 1944. WDR IN-73-1: Drainage area. WDR IN-84-1: 1983. WDR IN-86-1: 1913 (Gage height).
GAGE.--Water-stage recorder. Datum of gage is 445.78 ft above sea level. Prior to Oct. 17, 1984, water-stage recorder at Wabash Avenue bridge 3,400 ft downstream at datum 2.88 ft lower. See WSP 1725 for history of changes prior to Oct. 27, 1928.
REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 27, 1913, reached a stage of about 31.2 ft, present site and datum, discharge, 245,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	3460	3300	2330	e10300	7670	11500	36700	38900	10600	14200	3360
2	1780	3530	3190	2390	e8800	9860	12400	28500	34800	9840	14500	3210
3	1850	3750	3080	2540	e7400	11100	11400	23800	30400	9160	12600	3110
4	1910	4010	3060	2540	e6400	10300	9790	25200	27600	8610	10700	2940
5	2090	4400	2810	2170	e5400	8550	8660	28500	25700	8120	9280	2880
6	2110	4260	2710	1500	e5000	9370	7570	28100	23700	7710	7930	2750
7	2050	4180	2600	e1400	e5000	10900	6760	27800	22600	7380	6960	2710
8	1910	4070	2490	e1350	6220	9620	6310	27300	20800	7070	6570	2810
9	1810	3890	2500	e1310	7760	8350	5750	35500	19100	6790	6440	2980
10	1820	3790	1890	e1290	9390	8020	5540	42000	21200	6540	6080	3000
11	2170	4020	1300	e1270	11500	7750	5270	46500	26500	6270	5710	e3000
12	2490	4700	1430	e1240	9770	6870	4850	53000	31500	6020	5350	e2750
13	2690	4960	1630	e1200	7110	6200	4680	55500	34500	5790	4980	2650
14	2720	5550	1930	e1300	6370	5950	4590	52600	33900	5340	4660	2530
15	2750	5930	2290	e1500	6050	6080	4470	47000	31600	5160	4450	2420
16	2540	5910	2500	2410	5670	6000	4390	41300	27600	4910	4190	2560
17	2310	5810	2480	3220	5190	5470	4290	37300	24700	4600	3990	2610
18	2270	5660	2500	6290	4890	5210	4260	33500	25600	4530	3870	2590
19	2420	5330	2750	12300	4470	5280	4330	30100	27000	8280	3900	2720
20	3170	4950	2900	18100	4420	5510	5480	27800	25800	16200	4160	2470
21	3440	4710	2990	19000	4520	5550	5310	25600	24600	21200	4090	2430
22	3610	4550	2900	17700	4380	5410	7450	22700	22200	24400	3750	2390
23	3660	4340	2770	16400	4370	5640	17700	19900	21600	27100	4000	2440
24	3160	4230	2770	19400	4360	6840	21300	18000	21900	28000	5490	2590
25	3120	4140	2610	20400	4350	9640	18100	23500	25900	27300	5460	2660
26	3120	4150	2440	19900	4360	12200	16600	24800	25600	24600	4710	2680
27	3140	4020	2430	19500	4450	11200	15300	33100	21200	20500	4380	2670
28	3130	3840	2530	17600	5980	9920	15800	43900	16200	16400	4120	2640
29	3150	3570	2470	15600	7240	9430	29600	49300	13300	14000	3880	2720
30	3230	3390	e2400	14400	---	9170	39900	47300	11600	13600	3660	2780
31	3370	---	2290	e12000	---	9080	---	43400	---	13900	3560	---
TOTAL	80790	133100	77940	259550	181120	248140	319350	1079500	757600	379920	187620	82050
MEAN	2606	4437	2514	8373	6246	8005	10640	34820	25250	12260	6052	2735
MAX	3660	5930	3300	20400	11500	12200	39900	55500	38900	28000	14500	3360
MIN	1780	3390	1300	1200	4350	5210	4260	18000	11600	4530	3560	2390
CFSM	.21	.36	.21	.68	.51	.65	.87	2.84	2.06	1.00	.49	.22
IN.	.25	.40	.24	.79	.55	.75	.97	3.27	2.30	1.15	.57	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	4688	6832	10360	13910	15430	18540	19270	15550	11510	8027	4921	4063
MAX	18880	40220	44490	77540	47990	51250	41940	64810	44130	27840	21330	21440
(WY)	1991	1993	1928	1950	1950	1982	1938	1943	1958	1957	1958	1989
MIN	1103	1405	1145	1216	1998	2645	5250	2405	1492	1292	1002	966
(WY)	1957	1954	1964	1977	1963	1941	1931	1934	1934	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	2955260		3786680			
ANNUAL MEAN	8097		10350		11070	
HIGHEST ANNUAL MEAN					22800	1950
LOWEST ANNUAL MEAN					2864	1931
HIGHEST DAILY MEAN	38600	May 21	55500	May 13	186000	May 20 1943
LOWEST DAILY MEAN	1300	Dec 11	1200	Jan 13	701	Aug 3 1934
ANNUAL SEVEN-DAY MINIMUM	1760	Sep 14	1280	Jan 8	732	Sep 24 1941
INSTANTANEOUS PEAK FLOW			56200	May 13	189000	May 20 1943
INSTANTANEOUS PEAK STAGE			20.60	May 13	30.50	May 20 1943
ANNUAL RUNOFF (CFSM)	.66		.84		.90	
ANNUAL RUNOFF (INCHES)	8.96		11.49		12.26	
10 PERCENT EXCEEDS	18100		27200		27400	
50 PERCENT EXCEEDS	5020		5400		6400	
90 PERCENT EXCEEDS	2150		2420		1960	

e Estimated

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 mi downstream from Turtle Creek, and at mile 162.0.
DRAINAGE AREA.--13,161 mi².
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 U.S. Army Corps of Engineers office, Louisville, Ky.
REVISED RECORDS.--WSP 1335: 1939, 1950. WDR IN-73-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 414.65 ft above sea level. Prior to July 17, 1951, nonrecording gage at same site and datum.
REMARKS.--Records fair. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 28, 1913, reached a stage of 26.4 ft, from graph based on once-daily readings by Illinois Central Railroad Co., discharge, 250,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2060	3420	3500	2280	e13000	7570	14100	39800	46200	13200	14800	4220
2	2010	3610	3390	2330	e11000	8320	14500	42000	45200	12100	15000	4000
3	2100	3620	3290	2420	e9000	10500	13800	40800	42300	11300	14900	3890
4	2170	3770	3150	2510	e7100	11400	12500	38500	38000	10500	13300	3770
5	2130	4030	3090	2580	e6300	10500	10900	39400	33300	9910	11700	3610
6	2260	4390	2900	2470	e5800	9230	9580	38100	29900	9330	10300	3510
7	2280	4430	2800	2090	e5400	10800	8410	35500	29000	8880	9040	3440
8	2250	4330	2700	1890	6470	11400	7550	37600	27500	8510	8090	3330
9	2170	4220	2610	e1800	8110	9970	6960	43300	25200	8150	7660	3590
10	2050	4050	2550	e1750	9640	8820	6350	42300	23300	7840	7400	3870
11	2020	4020	2400	e1700	10400	8450	6050	45300	25500	7550	7020	e3640
12	2190	4220	1920	e1600	12000	8060	5740	48900	26700	7250	6590	e3530
13	2530	4750	1680	e1550	9830	7200	5400	51200	28200	7000	6180	3340
14	2760	5000	1750	e1700	7610	6540	5230	55100	30200	6700	5790	3200
15	2830	5490	1900	e2000	6820	6340	5110	57700	32700	6300	5460	3070
16	2870	5890	2120	2510	6410	6670	4970	56600	34600	6100	5220	3270
17	2770	5970	2340	3260	5960	6440	4820	52300	33700	5810	4960	4030
18	2540	5940	2460	6130	5470	5870	4690	47700	31600	5520	4740	3550
19	2450	5800	2640	10300	5160	5600	4650	42900	30500	5730	4580	3240
20	2500	5460	2920	15000	4770	5720	4870	38100	29900	10500	4590	3300
21	3160	5090	3020	18400	4710	5920	5700	33800	28800	17400	4810	3130
22	3510	4850	3070	18700	4760	5970	7630	30100	27400	20800	4800	3020
23	3720	4690	3000	18500	4660	5990	18000	27700	25100	23100	4520	2970
24	3770	4480	2870	22500	4600	6920	24400	24900	23300	25100	4790	2950
25	3370	4360	2790	22500	4560	9080	23300	22600	23700	26400	6100	3040
26	3260	4260	2720	21500	4580	12000	20400	25100	25400	26500	6120	3140
27	3290	4220	2540	21500	4900	13000	18300	27800	25500	24700	5470	3200
28	3240	4090	2450	20400	5190	12000	18500	30900	22100	20800	5090	3220
29	3210	3940	2470	18300	6610	10900	30700	34500	17800	17400	4820	3170
30	3230	3690	e2300	16500	---	10500	36700	39900	14900	15300	4570	3190
31	3300	---	e2300	14900	---	10400	---	44700	---	14700	4350	---
TOTAL	84000	136080	81640	281570	200820	268080	359810	1235100	877500	400380	222760	102430
MEAN	2710	4536	2634	9083	6925	8648	11990	39840	29250	12920	7186	3414
MAX	3770	5970	3500	22500	13000	13000	36700	57700	46200	26500	15000	4220
MIN	2010	3420	1680	1550	4560	5600	4650	22600	14900	5520	4350	2950
CFSM	.21	.34	.20	.69	.53	.66	.91	3.03	2.22	.98	.55	.26
IN.	.24	.38	.23	.80	.57	.76	1.02	3.49	2.48	1.13	.63	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	4956	7467	11010	13950	16900	20610	21330	17360	13320	8988	5685	4609
MAX	18350	39340	39250	80210	54530	60520	41840	68010	45640	36240	23680	25370
(WY)	1991	1993	1986	1950	1950	1982	1957	1943	1958	1957	1958	1989
MIN	1382	1437	1213	1318	2057	2763	6363	3435	2601	1968	1215	1261
(WY)	1957	1954	1964	1977	1963	1941	1941	1941	1977	1988	1941	1940

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	3299980		4250170			
ANNUAL MEAN	9041		11610		12150	
HIGHEST ANNUAL MEAN					24340	1950
LOWEST ANNUAL MEAN					3206	1941
HIGHEST DAILY MEAN	44000	May 22	57700	May 15	200000	May 21 1943
LOWEST DAILY MEAN	1680	Dec 13	1550	Jan 13	858	Sep 27 1941
ANNUAL SEVEN-DAY MINIMUM	2020	Dec 11	1710	Jan 8	870	Sep 25 1941
INSTANTANEOUS PEAK FLOW			58200	May 15	201000	May 21 1943
INSTANTANEOUS PEAK STAGE			20.41	May 15	29.36	May 21 1943
ANNUAL RUNOFF (CFSM)	.69		.88		.92	
ANNUAL RUNOFF (INCHES)	9.33		12.01		12.55	
10 PERCENT EXCEEDS	19600		30600		29600	
50 PERCENT EXCEEDS	5530		5930		7160	
90 PERCENT EXCEEDS	2390		2470		2190	

e Estimated

03342100 BUSSERON 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 mi upstream from East Fork Busseron Creek, 1.9 mi northwest of Hymera, 4.1 mi upstream from West Fork Busseron Creek, and at mile 30.3.
DRAINAGE AREA.--16.7 mi².
PERIOD OF RECORD.--June 1966 to current year.
REVISED RECORDS.--WDR IN-72-1: 1971. WDR IN-87-1: 1982-86.
GAGE.--Water-stage recorder. Datum of gage is 480.00 ft above sea level (U.S. Soil Conservation Service bench mark).
REMARKS.--Records fair except for daily discharges below 1.0 ft³/s and estimated daily discharges, which are poor. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.10	.07	.15	e3.0	e6.0	8.2	84	58	10	1.1	.36	.46
2	e.10	.12	.13	3.1	e5.3	9.5	41	48	10	1.0	.36	.66
3	.20	.12	.12	4.2	e4.8	10	28	42	8.2	.95	.35	.70
4	.16	.09	.14	3.6	e4.4	11	19	389	8.8	.83	.35	.55
5	.14	.08	.17	e2.4	e4.0	12	13	219	8.4	.76	.35	.62
6	.12	.06	.17	e1.5	e3.7	13	9.9	61	151	.72	.35	.74
7	.09	.08	.17	e1.0	e4.3	13	7.8	52	81	.73	.35	.79
8	.07	.10	e.13	e.86	e5.4	10	6.8	226	26	.71	.32	.84
9	.05	.10	e.10	e.82	e7.0	e9.0	5.8	119	19	.62	.31	1.9
10	.05	.07	e.08	e.78	e9.0	e7.0	6.1	91	82	.60	.31	.39
11	.07	.52	e.10	e.74	12	e5.2	6.2	119	121	.60	.31	.31
12	.10	.72	e.13	e.73	e9.6	e3.7	e5.3	53	60	.58	.32	.29
13	.12	.60	e.17	e.74	e6.6	e4.0	e4.7	41	27	.56	.31	.27
14	.12	.52	.27	e.82	e6.4	e4.3	e4.0	33	19	.56	.28	.29
15	.12	.41	.25	e.90	e6.1	e4.1	e5.0	37	20	.60	.29	.31
16	.10	.30	.19	6.2	e5.0	e3.8	e6.2	29	17	.54	.27	25
17	.10	.27	.17	180	e4.0	e4.2	e8.0	23	13	.49	.36	18
18	.12	.27	.36	139	e3.3	e4.7	e6.0	17	32	.49	.42	12
19	.12	.26	8.5	102	e3.6	e4.0	e5.0	14	14	.49	.55	4.8
20	.18	.24	5.3	38	e3.4	e5.0	e30	11	9.7	.49	.35	2.3
21	.21	.24	1.8	24	e3.4	e6.6	e20	9.3	6.5	.52	.35	1.7
22	.20	.22	e1.1	16	e3.3	8.8	165	7.5	5.1	.50	.35	1.4
23	.18	.20	e.86	236	e3.7	17	351	6.3	4.0	.45	.86	1.0
24	.16	.17	e.74	222	e3.6	67	81	5.9	2.5	.41	.75	.80
25	.13	.17	e.72	67	e5.4	66	53	6.2	1.9	.39	.33	.65
26	.10	.17	e.70	59	e11	36	43	79	1.6	.35	.32	.57
27	.13	.19	e.69	57	24	24	31	176	1.4	.36	.31	.63
28	.17	.18	e.68	26	30	18	219	63	1.3	.36	.32	.76
29	.13	.17	e.68	17	15	15	541	34	1.2	.47	.35	.57
30	.08	.16	e1.1	e10	---	11	126	23	1.1	.40	.39	.48
31	.06	---	e1.8	e7.6	---	131	---	15	---	.38	.44	---
TOTAL	3.78	6.87	27.67	1231.99	213.3	546.1	1931.8	2107.2	763.7	18.01	11.64	79.78
MEAN	.12	.23	.89	39.7	7.36	17.6	64.4	68.0	25.5	.58	.38	2.66
MAX	.21	.72	8.5	236	30	131	541	389	151	1.1	.86	25
MIN	.05	.06	.08	.73	3.3	3.7	4.0	5.9	1.1	.35	.27	.27
CFSM	.01	.01	.05	2.38	.44	1.05	3.86	4.07	1.52	.03	.02	.16
IN.	.01	.02	.06	2.74	.48	1.22	4.30	4.69	1.70	.04	.03	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1996, BY WATER YEAR (WY)

MEAN	3.04	17.0	25.0	23.7	26.8	35.1	34.9	24.1	9.63	12.3	4.90	7.71
MAX	18.8	79.0	96.8	105	67.4	112	74.9	86.2	41.1	79.3	25.4	60.9
(WY)	1994	1994	1983	1969	1971	1973	1992	1981	1980	1973	1979	1989
MIN	.020	.058	.026	.006	1.63	7.23	1.48	1.23	.22	.17	.065	.018
(WY)	1988	1972	1977	1977	1978	1969	1971	1976	1977	1972	1983	1976

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1967 - 1996	
ANNUAL TOTAL	4225.23		6941.84			
ANNUAL MEAN	11.6		19.0		18.6	
HIGHEST ANNUAL MEAN					36.1	1973
LOWEST ANNUAL MEAN					6.93	1977
HIGHEST DAILY MEAN	622	May 18	541	Apr 29	848	Nov 14 1993
LOWEST DAILY MEAN	.05	Oct 9	.05	Oct 9	.00	Oct 12 1966
ANNUAL SEVEN-DAY MINIMUM	.08	Oct 6	.08	Oct 6	.00	Oct 23 1966
INSTANTANEOUS PEAK FLOW			856	May 4	1890	Sep 12 1974
INSTANTANEOUS PEAK STAGE			18.19	May 4	19.16	Jul 8 1982
ANNUAL RUNOFF (CFSM)	.69		1.14		1.11	
ANNUAL RUNOFF (INCHES)	9.41		15.46		15.15	
10 PERCENT EXCEEDS	21		52		45	
50 PERCENT EXCEEDS	1.2		1.2		3.7	
90 PERCENT EXCEEDS	.12		.13		.10	

e Estimated

03342500 BUSSERON CREEK NEAR CARLISLE, IN

LOCATION.--Lat 38°58'27", long 87°25'33", in NW¼, survey 17, Vincennes Tract, Sullivan County, Hydrologic Unit 05120111, on left bank 10 ft downstream from bridge on State Highway 58, 1.5 mi northwest of Carlisle, and 6.7 mi upstream from mouth.
DRAINAGE AREA.--228 mi².
PERIOD OF RECORD.--October 1943 to current year.
REVISED RECORDS.--WSP 1335: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 425.36 ft above sea level (Indiana Department of Highways bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft upstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures and surface-mined areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	6.4	8.1	20	e150	90	445	3540	361	32	44	13
2	2.7	7.5	8.1	24	e110	77	347	2880	356	31	33	13
3	3.4	8.9	8.3	e17	e86	62	228	1830	335	28	26	13
4	3.7	10	8.0	e16	e76	53	187	1970	221	28	22	13
5	5.5	7.7	7.9	e15	e70	52	159	2100	153	24	21	13
6	5.4	6.6	7.5	e14	e64	65	133	2120	239	22	20	14
7	4.2	7.0	7.6	e14	e62	101	117	2140	670	34	18	16
8	3.6	7.9	7.1	e14	e76	77	107	2250	488	81	15	30
9	3.7	11	6.5	e13	e90	e52	100	2650	272	24	14	44
10	3.7	8.4	e6.0	e13	e110	e47	89	2220	321	20	13	25
11	3.7	40	e5.6	e13	130	56	82	2340	685	18	12	18
12	4.0	58	e5.2	e13	106	51	77	1800	951	17	11	16
13	3.9	28	e5.2	e13	95	52	75	1380	490	20	10	15
14	3.5	24	10	e14	95	53	76	991	315	18	9.6	14
15	3.3	19	13	e15	94	54	74	732	225	26	19	13
16	3.6	16	13	e30	68	55	80	652	169	21	52	166
17	4.1	14	11	346	50	56	85	531	143	21	18	172
18	4.1	13	15	786	45	56	80	388	193	20	17	54
19	4.1	12	180	839	50	55	75	272	285	17	15	30
20	4.7	12	e125	549	47	67	445	189	178	16	15	23
21	6.3	11	e80	278	47	98	345	150	106	15	15	25
22	11	10	e54	189	45	117	594	133	87	21	14	26
23	8.3	10	e35	591	51	144	1430	110	114	24	14	20
24	6.1	10	e25	1310	49	286	1700	97	86	22	33	17
25	5.1	9.8	e17	1220	49	563	1810	93	69	27	16	16
26	5.1	9.2	e16	1090	59	497	1590	483	56	27	15	15
27	6.9	9.1	e15	829	103	291	1020	1330	48	20	15	35
28	9.5	9.0	e14	494	142	224	1050	1260	42	15	14	59
29	12	8.9	e14	333	133	226	2990	1270	38	257	13	30
30	8.7	8.4	e14	e250	---	218	3220	929	34	95	13	21
31	7.1	---	e17	e200	---	191	---	486	---	64	13	---
TOTAL	163.7	412.8	759.1	9562	2352	4086	18810	39316	7730	1105	579.6	979
MEAN	5.28	13.8	24.5	308	81.1	132	627	1268	258	35.6	18.7	32.6
MAX	12	58	180	1310	150	563	3220	3540	951	257	52	172
MIN	2.7	6.4	5.2	13	45	47	74	93	34	15	9.6	13
CFSM	.02	.06	.11	1.35	.36	.58	2.75	5.56	1.13	.16	.08	.14
IN.	.03	.07	.12	1.56	.38	.67	3.07	6.41	1.26	.18	.09	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	46.8	175	260	315	362	450	440	336	168	109	54.5	72.3
MAX	263	1250	1421	2380	1317	1284	1102	1268	988	1101	633	701
(WY)	1950	1994	1983	1950	1950	1978	1945	1996	1945	1979	1979	1989
MIN	1.39	.94	2.87	3.64	11.3	12.8	35.6	31.6	8.88	.035	1.89	.88
(WY)	1944	1955	1954	1977	1954	1954	1954	1954	1954	1954	1953	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	68275.1		85855.2			
ANNUAL MEAN	187		235		232	
HIGHEST ANNUAL MEAN					548	1950
LOWEST ANNUAL MEAN					10.8	1954
HIGHEST DAILY MEAN	3550	May 19	3540	May 1	8500	Jan 5 1950
LOWEST DAILY MEAN	2.7	Oct 1	2.7	Oct 1	.00	Jul 12 1954
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 26	3.7	Oct 10	.00	Jul 12 1954
INSTANTANEOUS PEAK FLOW			3620	May 1	8800	Jan 5 1950
INSTANTANEOUS PEAK STAGE			15.53	May 1	20.30	May 9 1961
ANNUAL RUNOFF (CFSM)	.82		1.03		1.02	
ANNUAL RUNOFF (INCHES)	11.14		14.01		13.80	
10 PERCENT EXCEEDS	383		657		641	
50 PERCENT EXCEEDS	50		35		54	
90 PERCENT EXCEEDS	6.1		7.5		5.3	

e Estimated

03343000 WABASH RIVER AT VINCENNES, IN

LOCATION.--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 east of Illinois State Highway 33, 300 ft upstream from Kelso Creek, 570 ft downstream from U.S. Highway 50 bridge, 5.1 mi downstream from Maria Creek, 7.5 mi upstream from Embarras River and at mile 129.6.
DRAINAGE AREA.--13,706 mi^2.
PERIOD OF RECORD.--October 1994 to current year (stage only), October 1929 to September 1994 (discharge). 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 mi 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. WDR IN-73-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 394.43 ft above sea level. Oct. 1, 1968, to June 19, 1979, recording gage at site 570 ft upstream at same datum. Oct. 1, 1960, to September 30, 1968, nonrecording gage at site 1.8 mi downstream at same datum. Oct. 1, 1960, to Sept. 30, 1968, auxiliary water-stage recorder at site 2.8 mi upstream from base gage at datum 0.80 ft lower. See WSP 1725 for history of changes prior to Oct. 1, 1960.
REMARKS.--Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1913, reached a stage of 26.3 ft, at former site 1.8 mi downstream and at present datum, from floodmarks, determined by U.S. Army Corps of Engineers, discharge, 255,000 ft^3/s.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 29.33 ft., May 22, 1943; minimum gage height, unknown.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.77 ft., May 11; minimum gage height, unknown.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.05	5.14	---	9.91	6.87	10.32	19.22	20.08	9.55	10.09	5.31
2	---	5.10	5.24	---	9.63	7.22	10.50	20.17	20.22	9.09	10.18	5.12
3	---	5.09	5.03	---	8.16	8.19	10.33	20.53	19.84	8.67	10.06	---
4	---	5.19	5.02	---	7.27	8.46	9.69	20.24	19.24	8.30	9.36	---
5	---	5.31	4.90	---	7.04	8.03	8.69	19.90	18.19	8.01	8.68	---
6	---	5.52	---	---	6.59	7.54	7.94	19.54	17.59	7.72	8.08	---
7	---	5.48	---	---	6.31	8.39	7.38	19.30	17.14	7.56	7.49	---
8	---	5.42	---	---	6.48	8.56	6.93	20.83	16.51	7.36	7.05	---
9	---	5.37	---	---	7.35	7.86	6.64	21.60	15.57	7.15	6.87	---
10	---	5.36	---	---	7.93	7.33	6.42	22.14	15.09	7.00	6.73	---
11	---	5.43	---	---	8.28	7.23	6.31	22.67	15.52	6.82	6.55	---
12	---	5.45	---	---	8.90	7.00	6.30	22.29	16.04	6.67	6.34	---
13	---	5.71	---	---	7.94	6.70	5.97	21.86	16.34	6.60	6.15	---
14	---	5.82	---	---	7.09	6.37	5.88	21.86	16.59	6.55	5.96	---
15	---	6.08	---	---	6.84	6.27	5.85	22.18	16.55	6.35	5.90	---
16	---	6.23	---	---	6.60	6.39	5.75	22.25	16.68	6.10	5.74	---
17	---	6.26	---	---	6.45	6.26	5.79	21.94	16.69	5.96	5.65	---
18	---	6.22	---	7.16	5.96	6.01	5.78	21.27	16.21	5.82	5.53	---
19	---	6.16	---	8.86	5.84	5.92	5.86	20.45	16.23	5.98	5.43	---
20	---	6.00	5.02	10.60	5.66	5.95	6.31	19.51	16.16	8.16	5.43	---
21	---	5.82	4.97	11.65	5.67	6.08	6.57	18.41	15.77	11.06	5.57	---
22	5.03	5.71	4.97	11.67	5.75	6.13	8.07	17.60	15.30	12.33	5.54	---
23	5.13	5.63	4.90	12.57	5.75	6.20	13.69	16.59	14.59	13.13	5.45	---
24	5.15	5.54	4.83	13.94	5.53	6.94	15.09	15.06	13.85	13.66	5.57	---
25	4.96	5.48	---	14.10	5.56	8.17	15.09	14.01	13.70	14.02	6.12	---
26	4.92	5.44	---	13.95	5.59	9.33	14.39	14.68	14.04	14.10	6.09	---
27	4.94	5.47	---	13.85	5.79	9.82	13.54	16.05	14.13	13.75	5.78	---
28	4.91	5.37	---	13.17	5.93	8.96	14.62	16.93	13.27	12.44	5.61	---
29	4.89	5.30	---	11.96	6.48	8.48	17.60	17.53	11.51	11.19	5.47	---
30	4.91	5.29	---	10.98	---	8.51	18.38	18.44	10.34	10.33	5.40	---
31	4.95	---	---	10.23	---	8.21	---	19.35	---	10.07	5.41	---
MEAN	---	5.58	---	---	6.84	7.40	9.39	19.50	15.97	9.08	6.62	---
MAX	---	6.26	---	---	9.91	9.82	18.38	22.67	20.22	14.10	10.18	---
MIN	---	5.05	---	---	5.53	5.92	5.75	14.01	10.34	5.82	5.40	---

03347000 WHITE RIVER AT MUNCIE, IN

LOCATION.--Lat 40°12'15", long 85°23'14", in SE¼NW¼, Delaware County, Hydrologic Unit 05120201, on right bank 200 ft downstream from Walnut Street bridge in Muncie, 6 mi upstream from Bell Creek, and at mile 315.8.
DRAINAGE AREA.--241 mi².
PERIOD OF RECORD.--November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. 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 above sea level (city of Muncie bench mark). See WSP 1705 for history of changes prior to Jan. 28, 1942. Jan. 28, 1942, to Apr. 27, 1964, water-stage recorder at present site at datum 3.00 ft higher.
REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by regulation of Prairie Creek Reservoir and by diversion of municipal water supply by Muncie Water Works Co. above gage. Records of diversion available since October 1937.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 22.6 ft in March 1913, present datum, discharge, 20,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	31	32	e38	e170	462	619	1790	366	69	62	27
2	21	27	32	e50	e150	334	664	791	300	65	49	27
3	40	30	33	e63	e140	247	408	586	265	63	44	23
4	50	47	29	e62	e130	200	306	1120	249	59	40	22
5	60	43	28	e60	e120	202	248	1510	219	56	35	21
6	110	32	26	e58	e120	284	217	1580	246	50	31	23
7	96	38	25	e56	127	317	200	852	504	49	28	24
8	46	47	18	e55	139	252	175	1090	328	48	39	27
9	25	64	e17	e53	192	222	158	1850	746	46	49	32
10	16	49	e16	e52	182	180	144	1160	1040	42	34	31
11	12	76	e16	e51	170	144	137	1400	622	36	29	33
12	10	362	16	e50	144	131	135	910	608	33	25	26
13	9.4	189	19	e49	111	130	132	573	438	32	22	26
14	15	109	24	e49	117	128	134	428	329	31	22	28
15	17	82	31	e51	99	139	126	378	539	54	19	26
16	16	70	29	e58	83	147	131	395	343	56	23	54
17	20	64	25	1120	81	139	123	356	256	48	22	52
18	20	65	33	4470	80	129	120	315	224	349	20	33
19	20	78	e32	4850	91	140	121	273	244	324	18	15
20	31	70	e31	2440	78	278	483	242	196	153	17	12
21	28	64	e30	680	78	319	509	225	168	120	31	33
22	33	58	e29	411	81	303	454	205	148	307	35	40
23	25	50	e28	500	90	287	1990	191	132	227	42	29
24	22	47	e28	1830	118	427	3450	398	124	145	89	22
25	20	42	e27	1080	131	1700	1240	412	114	103	54	14
26	22	39	e27	531	131	1120	695	292	100	74	34	13
27	24	38	e26	e400	1320	526	505	789	88	74	29	31
28	23	37	e26	e310	2060	366	417	1570	84	63	30	94
29	25	37	e25	e250	867	306	2480	1830	82	56	28	95
30	25	37	e25	e220	---	282	3820	898	76	58	27	50
31	28	---	e28	e190	---	265	---	501	---	71	27	---
TOTAL	936.4	2022	811	20137	7400	10106	20341	24910	9178	2961	1054	983
MEAN	30.2	67.4	26.2	650	255	326	678	804	306	95.5	34.0	32.8
MAX	110	362	33	4850	2060	1700	3820	1850	1040	349	89	95
MIN	9.4	27	16	38	78	128	120	191	76	31	17	12
CFSM	.13	.28	.11	2.70	1.06	1.35	2.81	3.33	1.27	.40	.14	.14
IN.	.14	.31	.13	3.11	1.14	1.56	3.14	3.85	1.42	.46	.16	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

MEAN	55.7	147	222	300	337	412	404	266	209	117	69.8	57.6
MAX	409	1068	1119	1654	1122	963	1476	1239	1492	750	816	825
(WY)	1987	1994	1991	1950	1950	1978	1964	1933	1958	1992	1979	1989
MIN	2.30	7.33	6.57	6.38	21.2	39.0	46.4	16.4	13.6	9.55	4.80	1.96
(WY)	1957	1957	1961	1977	1935	1941	1941	1941	1988	1944	1940	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996	
ANNUAL TOTAL	52501.6		100839.4			
ANNUAL MEAN	144		276		216	
HIGHEST ANNUAL MEAN					421	1950
LOWEST ANNUAL MEAN					42.1	1941
HIGHEST DAILY MEAN	4520	May 20	4850	Jan 19	11600	Apr 21 1964
LOWEST DAILY MEAN	8.2	Sep 6	9.4	Oct 13	1.1	Sep 16 1954
ANNUAL SEVEN-DAY MINIMUM	14	Oct 10	14	Oct 10	1.2	Sep 21 1954
INSTANTANEOUS PEAK FLOW			6040	Jan 18	14300	Apr 21 1964
INSTANTANEOUS PEAK STAGE			10.35	Jan 18	21.07	Jan 15 1937
ANNUAL RUNOFF (CFSM)	.60		1.14		.89	
ANNUAL RUNOFF (INCHES)	8.10		15.57		12.16	
10 PERCENT EXCEEDS	292		635		480	
50 PERCENT EXCEEDS	65		77		74	
90 PERCENT EXCEEDS	22		23		12	

e Estimated

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 mi upstream from Muncie Water Works Co. pumping station, 4.2 mi southeast of court house in Muncie, and at mile 10.6.
DRAINAGE AREA.--35.5 mi².
PERIOD OF RECORD.--October 1954 to current year.
REVISED RECORDS.--WSP 1909: 1955, 1957. WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 944.67 ft above sea level. Prior to May 5, 1955, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor and the period of Aug. 7, 1996 to Sept. 24, 1996, which is fair.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 15 ft, from information by local residents. Date unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	17	e14	e27	46	84	119	48	30	24	17
2	12	17	17	30	e26	39	54	84	45	29	24	17
3	15	15	17	36	e26	31	41	75	43	29	23	17
4	14	14	17	36	e25	29	36	212	43	28	22	17
5	14	14	16	e27	e25	33	32	208	39	27	22	17
6	15	14	16	e24	e26	44	31	175	47	27	21	17
7	13	17	16	e23	27	39	29	102	62	26	22	17
8	13	16	e15	e22	33	31	28	225	51	26	23	17
9	13	15	e14	e22	31	28	27	204	212	26	22	18
10	13	15	e13	e22	32	26	26	124	197	26	21	17
11	13	26	e13	e21	30	25	25	144	88	25	22	17
12	13	26	e12	e20	27	25	25	89	70	25	21	17
13	13	21	e13	e20	27	25	26	69	53	25	21	17
14	13	19	20	e19	26	25	25	60	113	24	20	16
15	13	19	17	e18	25	26	25	62	113	27	20	16
16	13	18	16	263	24	25	26	64	64	25	21	22
17	13	18	16	418	24	24	24	58	53	25	20	22
18	12	19	19	370	23	23	24	52	50	37	20	18
19	13	18	29	107	23	29	28	46	46	29	20	17
20	15	18	36	67	24	55	107	43	43	25	19	17
21	15	18	27	53	24	51	57	41	41	35	19	21
22	13	17	24	59	25	45	71	39	39	57	19	28
23	13	17	22	237	27	42	443	38	37	36	23	21
24	13	16	22	110	27	88	185	78	38	30	24	20
25	13	16	e19	67	26	127	100	60	36	28	20	21
26	13	16	e17	e55	30	61	77	50	34	26	19	20
27	14	16	e16	e46	267	43	58	195	33	25	19	25
28	14	17	e15	e39	147	38	59	138	32	25	19	34
29	14	17	e15	e34	70	36	550	130	31	24	19	23
30	13	17	e14	e31	---	33	226	77	31	27	18	20
31	14	---	e14	e29	---	33	---	57	---	26	18	---
TOTAL	414	521	554	2339	1174	1225	2549	3118	1832	880	645	583
MEAN	13.4	17.4	17.9	75.5	40.5	39.5	85.0	101	61.1	28.4	20.8	19.4
MAX	15	26	36	418	267	127	550	225	212	57	24	34
MIN	12	14	12	14	23	23	24	38	31	24	18	16
CFSM	.38	.49	.50	2.13	1.14	1.11	2.39	2.83	1.72	.80	.59	.55
IN.	.43	.55	.58	2.45	1.23	1.28	2.67	3.27	1.92	.92	.68	.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

MEAN	20.6	32.1	37.7	41.0	50.1	56.7	57.0	44.4	40.1	29.8	23.3	18.6
MAX	58.6	146	109	96.2	123	117	166	101	153	97.9	108	76.4
(WY)	1991	1994	1991	1959	1971	1982	1964	1996	1958	1992	1979	1989
MIN	8.73	9.30	8.77	6.36	11.2	16.4	16.7	17.2	11.3	8.64	9.00	8.13
(WY)	1964	1964	1965	1977	1964	1966	1966	1988	1988	1966	1965	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	10827		15834			
ANNUAL MEAN	29.7		43.3		37.5	
HIGHEST ANNUAL MEAN					57.3	1991
LOWEST ANNUAL MEAN					15.4	1966
HIGHEST DAILY MEAN	688	May 19	550	Apr 29	1260	Apr 21 1964
LOWEST DAILY MEAN	11	Sep 5	12	Oct 1	4.7	Jan 17 1977
ANNUAL SEVEN-DAY MINIMUM	12	Aug 31	13	Oct 12	5.5	Jan 15 1977
INSTANTANEOUS PEAK FLOW			788	Apr 29	1780	Apr 21 1964
INSTANTANEOUS PEAK STAGE			9.53	Apr 29	13.96	Apr 21 1964
ANNUAL RUNOFF (CFSM)	.84		1.22		1.06	
ANNUAL RUNOFF (INCHES)	11.35		16.59		14.37	
10 PERCENT EXCEEDS	49		80		66	
50 PERCENT EXCEEDS	19		25		24	
90 PERCENT EXCEEDS	13		14		12	

e Estimated

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 downstream from bridge on County Road 500 West, at northeast edge of Frankton.
DRAINAGE AREA.--113 mi².
PERIOD OF RECORD.--May 1968 to current year.
GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 10, 1958, reached a stage of 15.5 ft, from floodmark determined by State of Indiana, Department of Natural Resources, discharge, 4,900 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	12	8.8	19	e50	93	115	539	115	27	18	8.2
2	17	16	8.5	26	e44	75	124	293	101	25	17	8.2
3	22	13	8.6	34	e38	56	98	208	88	24	16	8.3
4	17	11	8.5	e24	e35	49	84	213	78	23	16	8.4
5	14	10	8.5	e15	e32	63	72	246	67	21	15	8.1
6	15	9.0	9.8	e13	e31	193	64	376	67	20	13	8.1
7	12	14	9.3	e12	e43	139	61	239	130	20	13	8.5
8	11	15	e9.0	e11	60	90	56	272	106	19	13	8.8
9	11	12	e8.8	e10	64	74	51	426	439	19	13	9.8
10	10	11	e8.6	e10	55	57	48	351	521	17	12	11
11	9.7	32	e8.4	e9.5	50	47	45	927	367	16	12	11
12	9.2	35	e8.2	e9.4	43	46	45	607	309	15	11	9.4
13	8.5	23	e8.0	e9.3	36	46	45	301	188	15	11	8.8
14	11	17	e8.8	e9.3	36	45	41	207	131	14	10	8.5
15	15	14	10	e9.3	34	48	42	172	101	16	10	8.5
16	11	12	9.2	e15	30	49	45	170	82	16	10	11
17	8.5	11	8.9	324	28	47	41	154	71	15	9.7	13
18	8.1	12	11	1210	e28	45	40	130	69	107	9.7	9.9
19	8.1	11	14	1170	27	45	40	108	81	96	9.3	9.0
20	9.8	11	19	620	27	97	41	92	77	47	9.9	8.9
21	12	11	18	242	27	149	37	83	61	36	10	13
22	11	10	e13	164	27	132	63	70	54	53	9.6	27
23	10	10	e11	186	28	121	406	64	48	44	9.9	16
24	9.5	9.7	e11	699	33	254	589	110	44	35	11	12
25	9.2	9.7	e10	482	35	306	285	102	40	33	9.2	10
26	9.0	9.8	e9.6	231	38	173	199	85	35	27	8.9	9.3
27	10	9.8	e9.4	e190	134	107	142	424	33	22	9.1	31
28	10	10	e9.3	e140	286	89	115	841	31	20	9.0	45
29	9.7	9.6	e9.2	e100	150	81	774	375	29	19	8.9	24
30	9.5	8.9	e9.5	e76	---	71	956	223	28	21	8.9	15
31	11	---	e12	e62	---	68	---	153	---	21	8.5	---
TOTAL	354.8	399.5	315.9	6131.8	1549	2955	4764	8561	3591	903	351.6	387.7
MEAN	11.4	13.3	10.2	198	53.4	95.3	159	276	120	29.1	11.3	12.9
MAX	22	35	19	1210	286	306	956	927	521	107	18	45
MIN	8.1	8.9	8.0	9.3	27	45	37	64	28	14	8.5	8.1
CFSM	.10	.12	.09	1.75	.47	.84	1.41	2.44	1.06	.26	.10	.11
IN.	.12	.13	.10	2.02	.51	.97	1.57	2.82	1.18	.30	.12	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	33.0	98.6	130	126	158	196	171	98.9	111	72.4	43.3	44.3
MAX	176	519	482	409	416	544	467	276	409	526	234	529
(WY)	1991	1993	1991	1974	1990	1982	1972	1996	1980	1992	1990	1989
MIN	5.70	7.95	7.31	5.29	16.5	42.4	33.3	19.1	10.3	7.94	4.97	4.76
(WY)	1989	1977	1977	1977	1995	1981	1971	1976	1988	1977	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	23101.5		30264.3			
ANNUAL MEAN	63.3		82.7		106	
HIGHEST ANNUAL MEAN					180	1973
LOWEST ANNUAL MEAN					32.7	1977
HIGHEST DAILY MEAN	1470	Jun 28	1210	Jan 18	3840	Jul 14 1992
LOWEST DAILY MEAN	7.8	Jan 7	8.0	Dec 13	3.0	Oct 11 1988
ANNUAL SEVEN-DAY MINIMUM	8.5	Jan 4	8.3	Aug 31	3.2	Oct 9 1988
INSTANTANEOUS PEAK FLOW			1300	Jan 18	5630	Jul 13 1992
INSTANTANEOUS PEAK STAGE			8.89	Jan 18	15.00	Jul 13 1992
ANNUAL RUNOFF (CFSM)	.56		.73		.94	
ANNUAL RUNOFF (INCHES)	7.61		9.96		12.80	
10 PERCENT EXCEEDS	112		209		247	
50 PERCENT EXCEEDS	23		25		40	
90 PERCENT EXCEEDS	9.5		9.0		9.2	

e Estimated

03349000 WHITE RIVER AT NOBLESVILLE, IN

LOCATION.--Lat 40°02'50", long 86°01'00", in SE¼SE¼ 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 mi upstream from Cicero Creek, 5.1 mi downstream from dam at Clare, and at mile 263.5.
DRAINAGE AREA.--858 mi².
PERIOD OF RECORD.--October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and at site 400 ft 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. WDR IN-94-1: 1993 (M).
GAGE.--Water-stage recorder. Datum of gage is 738.16 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by powerplant above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	160	139	167	e500	1700	1270	7430	1570	405	301	145
2	111	203	137	207	e450	1190	2000	3840	1340	385	276	140
3	135	215	133	e230	e420	918	1580	2450	1180	381	251	140
4	209	172	130	e220	e390	735	1200	2580	1100	352	235	139
5	186	159	131	e210	e380	712	992	3660	995	338	223	136
6	183	168	127	e200	e400	1110	837	4570	938	322	214	134
7	189	196	126	e194	e440	1260	771	3710	1460	311	206	139
8	228	225	125	e190	484	1010	708	3800	1520	311	198	139
9	162	201	113	e185	551	748	651	5750	1840	305	204	145
10	132	198	76	e180	579	707	607	4770	3230	291	218	159
11	118	320	e84	e178	575	600	573	5380	2930	275	198	152
12	110	460	e94	e176	543	559	553	5110	2250	264	184	143
13	109	583	e110	e174	463	538	543	3090	1880	258	180	137
14	105	418	126	e170	404	535	531	2250	1420	253	176	133
15	100	291	138	e180	409	528	526	1870	1390	259	171	131
16	104	231	136	e215	379	539	540	1760	1350	298	166	157
17	112	209	132	510	345	536	524	1630	1040	293	165	318
18	116	209	141	4250	326	517	494	1440	929	461	167	234
19	117	220	198	7130	321	508	500	1250	888	996	162	182
20	129	206	e180	8270	337	733	539	1110	988	721	159	149
21	178	200	e170	4370	323	1160	1120	1000	806	519	155	148
22	175	188	e160	1750	316	1160	1080	897	718	748	166	288
23	145	180	e155	1430	321	1070	2590	822	661	779	170	298
24	138	170	e150	3210	338	1300	5640	967	652	588	184	205
25	126	158	e145	4250	366	2090	5670	1430	591	462	234	169
26	125	153	e140	2350	395	2780	2780	1260	536	389	204	152
27	132	148	e135	1780	1120	1770	1950	2280	492	334	172	272
28	145	148	e132	1560	3560	1190	1500	5200	464	352	163	453
29	140	146	e130	1160	3050	993	3690	4470	445	317	164	403
30	137	143	e134	e900	---	876	7270	3510	424	293	156	328
31	146	---	e147	e600	---	837	---	2200	---	322	150	---
TOTAL	4355	6678	4174	46596	10485	30909	49229	91486	36027	12582	5972	5868
MEAN	140	223	135	1503	637	997	1641	2951	1201	406	193	196
MAX	228	583	198	8270	3560	2780	7270	7430	3230	996	301	453
MIN	100	143	76	167	316	508	494	822	424	253	150	131
CFSM	.16	.26	.16	1.75	.74	1.16	1.91	3.44	1.40	.47	.22	.23
IN.	.19	.29	.18	2.02	.80	1.34	2.13	3.97	1.56	.55	.26	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

MEAN	283	614	874	1153	1268	1560	1511	964	849	569	361	305
MAX	1264	3359	3472	6494	3485	3732	4281	2951	4432	2778	2264	3143
(WY)	1991	1994	1991	1950	1950	1978	1964	1996	1958	1992	1979	1989
MIN	88.4	109	107	102	141	368	322	249	143	138	93.8	69.3
(WY)	1964	1964	1964	1977	1964	1981	1971	1988	1988	1966	1988	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996	
ANNUAL TOTAL	195114		312361			
ANNUAL MEAN	535		853		857	
HIGHEST ANNUAL MEAN					1455	1950
LOWEST ANNUAL MEAN					266	1954
HIGHEST DAILY MEAN	8260	May 20	8270	Jan 20	25400	Dec 31 1990
LOWEST DAILY MEAN	76	Dec 10	76	Dec 10	44	Sep 28 1954
ANNUAL SEVEN-DAY MINIMUM	104	Dec 7	104	Dec 7	58	Sep 23 1954
INSTANTANEOUS PEAK FLOW			8620	Jan 20	27000	Dec 31 1990
INSTANTANEOUS PEAK STAGE			14.52	Jan 20	21.31	Apr 22 1964
ANNUAL RUNOFF (CFSM)	.62		.99		1.00	
ANNUAL RUNOFF (INCHES)	8.46		13.54		13.56	
10 PERCENT EXCEEDS	1060		2250		1930	
50 PERCENT EXCEEDS	307		327		402	
90 PERCENT EXCEEDS	124		135		137	

e Estimated

03350700 STONY CREEK NEAR NOBLESVILLE, IN

LOCATION.--Lat 40°01'44", long 85°59'44", in NE¼NE¼ sec.7, T.18 N., R.5 E., Hamilton County, Hydrologic Unit 05120201, on right bank, between dual bridges on State Highway 37, 1.4 mi upstream from mouth, and 1.4 mi southeast of Noblesville.
DRAINAGE AREA.--50.8 mi².
PERIOD OF RECORD.--July 1967 to current year.
REVISED RECORDS.--WDR IN-82-1: 1981.
GAGE.--Water-stage recorder. Datum of gage is 749.00 ft above sea level (Indiana Department of Highways bench mark). Prior to Oct. 1, 1988, water-stage recorder at county road bridge 200 ft upstream at same datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	e8.0	e7.0	e27	e41	111	136	242	88	31	16	5.2
2	2.6	e19	e6.9	e39	e37	88	107	161	81	30	14	5.0
3	6.8	e14	e6.8	e33	e33	66	78	128	73	29	13	5.0
4	9.5	e11	e6.7	e29	e30	51	64	338	66	26	12	4.9
5	5.6	e13	e6.6	e27	e28	65	51	344	57	24	12	4.9
6	e2.5	e26	e6.5	e25	e27	131	46	362	63	22	11	4.8
7	e1.4	e43	e6.4	e23	e26	91	43	204	76	21	11	5.9
8	e.90	e27	e6.3	e22	33	66	39	719	68	23	10	7.1
9	e.88	e20	e6.2	e21	39	53	36	804	133	22	10	5.9
10	e.94	e15	e6.1	e20	38	41	33	388	104	19	9.3	5.5
11	e.94	e70	e6.0	e19	41	38	32	421	89	17	9.2	5.2
12	e.96	e66	e5.9	e18	34	39	32	250	96	16	9.0	5.0
13	e1.0	e32	e6.1	e17	28	38	32	172	76	15	8.5	4.9
14	e1.1	e20	e7.0	e19	30	38	28	131	68	15	9.0	4.9
15	e1.1	e13	e8.2	e22	26	40	30	172	85	15	8.0	4.9
16	e1.1	e10	e10	e30	22	38	31	151	59	14	7.6	11
17	e1.1	e8.7	e13	e100	21	36	28	117	52	13	7.5	17
18	e1.1	e12	e19	544	21	33	27	97	54	28	7.6	7.1
19	e1.1	e16	e70	497	20	36	29	82	68	25	7.5	6.1
20	e3.5	e13	e58	201	19	77	31	71	88	18	7.4	5.6
21	e5.0	e10	e43	125	19	84	28	64	58	47	7.1	7.5
22	e3.0	e9.0	e33	97	18	72	54	56	48	143	6.8	11
23	e2.0	e8.4	e27	129	22	71	309	53	82	62	6.6	6.9
24	e1.9	e8.0	e23	325	26	114	278	53	245	39	6.4	6.2
25	e1.9	e8.8	e21	185	24	107	156	53	95	29	6.2	5.7
26	e1.9	e8.2	e20	123	26	74	116	59	62	23	6.0	5.8
27	e2.0	e7.8	e19	170	475	56	85	365	49	19	5.9	29
28	e2.1	e7.6	e18	110	378	51	81	530	43	18	5.9	39
29	e2.3	e7.4	e17	84	180	49	567	243	38	17	5.8	19
30	e2.5	e7.1	e16	e54	---	44	434	155	34	19	5.5	12
31	e3.3	---	e19	e47	---	46	---	112	---	19	5.3	---
TOTAL	74.62	539.0	524.7	3182	1762	1944	3041	7097	2298	858	267.1	268.0
MEAN	2.41	18.0	16.9	103	60.8	62.7	101	229	76.6	27.7	8.62	8.93
MAX	9.5	70	70	544	475	131	567	804	245	143	16	39
MIN	.88	7.1	5.9	17	18	33	27	53	34	13	5.3	4.8
CFSM	.05	.35	.33	2.02	1.20	1.23	2.00	4.51	1.51	.54	.17	.18
IN.	.05	.39	.38	2.33	1.29	1.42	2.23	5.20	1.68	.63	.20	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	17.0	49.2	58.8	57.4	78.3	87.1	82.8	61.1	44.4	31.3	22.5	18.3
MAX	68.0	287	235	145	190	203	160	229	142	128	80.5	210
(WY)	1991	1993	1991	1974	1990	1978	1972	1996	1974	1979	1979	1989
MIN	2.41	5.51	5.84	3.87	11.0	17.6	16.9	16.1	6.50	3.25	3.84	3.38
(WY)	1996	1988	1977	1977	1978	1981	1971	1988	1988	1977	1988	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	11270.42		21855.42			
ANNUAL MEAN	30.9		59.7		50.5	
HIGHEST ANNUAL MEAN					83.0	1993
LOWEST ANNUAL MEAN					19.5	1977
HIGHEST DAILY MEAN	701	May 19	804	May 9	1760	Dec 30 1990
LOWEST DAILY MEAN	.88	Oct 9	.88	Oct 9	.88	Oct 9 1995
ANNUAL SEVEN-DAY MINIMUM	.96	Oct 8	.96	Oct 8	.96	Oct 8 1995
INSTANTANEOUS PEAK FLOW			1070	May 8	2090	Dec 30 1990
INSTANTANEOUS PEAK STAGE			6.56	May 8	9.21	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.61		1.18		.99	
ANNUAL RUNOFF (INCHES)	8.25		16.00		13.50	
10 PERCENT EXCEEDS	57		132		114	
50 PERCENT EXCEEDS	17		26		23	
90 PERCENT EXCEEDS	3.2		5.0		5.9	

e Estimated

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 bridge pier on 82nd Street, 2 mi east of Nora, 14 mi upstream from Fall Creek, and at mile 247.9.
DRAINAGE AREA.--1,219 mi².
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 above sea level (levels by U.S. Army Corps of Engineers). Oct. 26, 1929 to July 29, 1942, at site 200 ft downstream at same datum. Supplemental water-stage recorder 4.5 mi downstream.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by Morse Reservoir.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 22.4 ft, from floodmark, determined by Indiana Department of Highways, discharge, 58,500 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	179	190	228	e930	2490	2030	9970	2420	574	448	183
2	166	269	184	280	e820	1710	2760	6580	2100	528	405	182
3	235	241	183	241	e720	1350	2470	3770	1860	529	369	178
4	401	225	177	e235	e660	1040	1890	4200	1690	478	344	173
5	292	187	176	e230	e620	1030	1570	5310	1530	441	323	156
6	252	184	175	e225	e660	1530	1280	6770	1490	414	293	158
7	231	274	174	e220	e730	1870	1140	5880	1920	402	282	175
8	254	247	168	e210	e740	1530	1060	6370	2300	398	263	214
9	241	248	168	e205	e760	1120	966	8710	2310	386	257	222
10	186	221	151	e200	786	999	877	7690	4080	373	266	205
11	157	595	127	e197	823	887	811	7440	4110	350	270	198
12	141	564	e135	e195	757	819	769	7720	3240	330	245	179
13	131	596	e145	e192	679	772	769	5170	2710	313	219	168
14	143	577	158	e190	605	761	753	3500	2150	320	215	183
15	154	421	175	e200	585	751	732	3680	1940	337	206	193
16	151	336	181	270	557	746	775	3060	1970	335	201	328
17	158	309	174	835	510	741	733	2620	1550	340	194	399
18	159	288	212	4100	479	719	681	2290	1440	584	205	365
19	158	291	332	7730	462	750	720	1990	1440	1210	208	262
20	191	276	253	9490	476	987	845	1740	1560	1130	190	218
21	198	269	e240	7250	470	1400	1110	1600	1290	1070	178	262
22	221	257	e225	2690	456	1500	1570	1410	1080	1460	173	331
23	186	243	e210	2100	455	1430	3330	1270	1010	1250	193	382
24	167	230	e190	3860	472	1630	6730	1340	1450	988	211	311
25	155	218	e180	5700	495	2450	7690	1930	1140	735	261	244
26	144	209	e170	3710	536	3610	4850	2090	914	581	285	219
27	155	211	e164	2670	1720	2680	3110	3560	777	489	242	860
28	159	209	e160	2310	4190	1780	2480	7200	703	520	214	928
29	163	200	e160	1790	4390	1480	5030	6910	642	506	211	624
30	152	197	e170	1440	---	1290	8970	5260	610	510	206	498
31	158	---	e180	1150	---	1280	---	3410	---	495	193	---
TOTAL	5829	8771	5687	60343	26543	43132	68501	140440	53426	18376	7770	8998
MEAN	188	292	183	1947	915	1391	2283	4530	1781	593	251	300
MAX	401	596	332	9490	4390	3610	8970	9970	4110	1460	448	928
MIN	131	179	127	190	455	719	681	1270	610	313	173	156
CFSM	.15	.24	.15	1.60	.75	1.14	1.87	3.72	1.46	.49	.21	.25
IN.	.18	.27	.17	1.84	.81	1.32	2.09	4.29	1.63	.56	.24	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)

MEAN	365	750	1094	1590	1662	2074	2068	1417	1100	716	450	379
MAX	1699	5115	4366	9015	4805	5113	5878	6815	6093	3672	2612	4397
(WY)	1991	1993	1991	1950	1950	1978	1964	1943	1958	1992	1979	1989
MIN	108	110	119	119	182	194	280	141	200	102	82.5	72.3
(WY)	1941	1935	1935	1945	1964	1941	1941	1941	1931	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1930 - 1996	
ANNUAL TOTAL	265245		447816			
ANNUAL MEAN	727		1224		1136	
HIGHEST ANNUAL MEAN					2052	1950
LOWEST ANNUAL MEAN					235	1941
HIGHEST DAILY MEAN	9800	May 21	9970	May 1	31500	May 19 1943
LOWEST DAILY MEAN	127	Dec 11	127	Dec 11	49	Sep 17 1941
ANNUAL SEVEN-DAY MINIMUM	148	Oct 11	148	Oct 11	53	Sep 17 1941
INSTANTANEOUS PEAK FLOW			10200	May 1	32400	May 19 1943
INSTANTANEOUS PEAK STAGE			10.98	May 1	19.19	Jan 1 1991
ANNUAL RUNOFF (CFSM)	.60		1.00		.93	
ANNUAL RUNOFF (INCHES)	8.09		13.67		12.66	
10 PERCENT EXCEEDS	1510		3440		2560	
50 PERCENT EXCEEDS	422		492		518	
90 PERCENT EXCEEDS	170		174		160	

e Estimated

03351060 WHITE RIVER AT BROAD RIPPLE

LOCATION.--Lat 39°52'17", long 86°08'16", in SW¼ sec.36, T.17 N., R.3 E., Marion County, Hydrologic Unit 05120201, on left bank at Indianapolis Water Company, 75 ft downstream from diversion canal, and 500 ft upstream from Broad Ripple dam.

DRAINAGE AREA.--1,238 mi².

PERIOD OF RECORD.--October 1989 to current year. Fragmentary record November 1927 to Jan. 24, 1947 and continuous record, Jan. 24, 1947 to Sept. 30, 1989, available in District office.

REVISED RECORDS.--WDR IN-93-1: 1992.

GAGE.--Water-stage recorder. Datum of gage is 709.91 ft above sea level.

REMARKS.--Stage affected by diversion through canal for water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.16 ft, Jan. 1, 1991; minimum, 2.51 ft, Sept. 11, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.62 ft, May 1; minimum 2.66 ft, Sept. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.69	---	2.80	2.87	3.26	3.98	4.10	6.37	4.13	3.06	3.02	2.73
2	2.70	---	2.81	2.89	3.18	3.75	4.35	5.00	4.06	3.07	2.98	2.74
3	2.87	---	2.80	2.91	3.16	3.55	4.01	4.61	3.94	3.06	2.95	2.73
4	2.96	2.82	2.78	2.90	3.15	3.38	3.84	5.02	3.86	3.02	2.90	2.70
5	2.88	2.78	2.78	2.90	3.15	3.57	3.66	5.75	3.72	2.98	2.90	2.66
6	2.83	2.81	2.79	2.90	3.13	3.90	3.55	5.66	3.79	2.98	2.86	2.70
7	2.83	2.87	2.80	2.86	3.15	3.86	3.50	5.18	---	2.97	2.86	2.75
8	2.88	2.84	2.77	2.86	3.21	3.64	3.44	6.12	---	2.96	2.86	2.80
9	2.82	2.85	---	2.89	3.24	3.42	3.38	6.23	4.39	2.96	2.83	2.81
10	2.76	2.83	---	2.87	3.27	3.39	3.33	5.76	4.93	2.94	2.88	2.76
11	2.70	3.10	2.74	---	3.27	3.33	3.30	6.13	4.74	---	2.87	2.77
12	2.67	3.06	2.76	---	3.23	3.29	3.28	5.72	4.46	---	2.83	2.70
13	---	3.17	2.76	2.86	3.17	3.26	3.30	4.94	4.22	2.89	2.80	2.73
14	---	3.04	2.77	2.86	3.12	3.26	3.26	4.54	4.01	2.94	2.80	2.77
15	2.74	2.98	2.78	2.87	3.13	---	3.28	4.82	3.99	2.94	2.80	2.76
16	2.70	2.93	2.80	2.90	3.08	---	3.30	4.44	3.89	2.95	2.79	3.09
17	2.74	2.91	2.79	3.56	3.06	3.24	3.23	4.28	3.69	2.96	2.80	2.95
18	2.73	2.90	2.86	5.40	3.03	3.22	3.26	4.12	3.68	3.15	2.85	2.90
19	2.71	2.92	2.88	5.93	3.02	3.36	3.40	3.98	3.78	3.59	2.81	2.82
20	2.83	2.88	2.94	6.14	3.04	3.51	3.30	3.86	3.76	3.32	2.75	2.77
21	2.82	2.88	2.88	4.62	3.04	3.70	3.74	3.80	3.57	3.83	2.74	2.98
22	2.82	2.89	2.89	4.00	3.01	3.69	3.92	3.69	3.50	3.54	2.75	2.96
23	2.73	2.89	---	4.24	3.02	3.66	5.21	3.66	3.58	3.48	2.81	2.96
24	2.74	2.87	---	5.08	3.04	3.89	6.01	3.84	3.62	3.30	2.80	2.88
25	2.72	2.85	---	5.10	3.05	4.41	5.84	4.16	3.47	3.18	2.86	2.82
26	2.72	2.83	---	4.33	3.10	4.54	---	4.16	3.30	3.10	2.84	2.81
27	2.74	2.82	---	4.18	4.29	4.01	---	5.58	---	3.04	2.80	3.63
28	2.78	2.83	---	3.98	5.11	3.76	4.34	6.01	---	3.10	2.77	3.21
29	2.76	2.81	2.80	3.75	4.55	3.66	5.95	5.40	3.16	3.09	2.78	3.11
30	2.72	2.80	2.78	3.58	---	3.56	6.58	5.01	3.14	3.11	2.75	3.02
31	---	---	2.82	3.31	---	3.77	---	4.42	---	3.06	2.75	---
MEAN	---	---	---	---	3.28	---	---	4.91	---	---	2.83	2.87
MAX	---	---	---	---	5.11	---	---	6.37	---	---	3.02	3.63
MIN	---	---	---	---	3.01	---	---	3.66	---	---	2.74	2.66

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 downstream from 42nd Street bridge in Indianapolis, and at mile 1.6.
DRAINAGE AREA.--17.9 mi².
PERIOD OF RECORD.--June 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 711.00 ft above sea level (Indiana Department of Highways bench mark).
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.8	1.5	9.3	e7.0	9.3	67	58	18	4.2	6.5	1.0
2	2.4	29	1.3	16	e6.0	8.3	28	38	39	3.9	5.0	.98
3	5.9	6.8	1.4	14	e5.2	6.5	21	86	27	3.6	4.2	.97
4	7.1	2.5	1.8	8.6	e4.9	5.1	18	401	21	3.2	3.5	.89
5	4.6	1.5	3.6	e6.2	e4.6	34	14	240	16	2.9	3.1	.91
6	7.2	1.1	3.9	e4.9	e4.4	40	12	148	46	2.7	2.8	.91
7	2.3	30	2.8	e4.3	e4.7	22	10	63	44	2.5	2.5	.92
8	1.1	6.9	2.3	e4.0	10	12	9.1	405	24	2.5	2.3	1.1
9	.76	3.2	1.7	e3.8	12	8.8	8.2	182	20	3.9	2.0	1.6
10	.67	1.9	1.5	e3.6	8.8	7.3	7.5	119	15	2.6	1.8	1.1
11	.63	102	1.4	e3.5	8.2	6.8	7.1	88	32	2.0	1.7	1.0
12	.68	19	1.4	e3.4	6.7	6.7	7.0	45	30	2.5	1.6	1.1
13	.93	9.3	1.6	e3.3	5.8	6.5	7.7	32	17	2.6	1.5	1.1
14	1.2	6.4	2.1	e3.4	5.6	6.4	6.9	26	18	2.0	1.4	1.2
15	1.4	4.7	2.2	e3.6	5.1	6.2	11	398	19	7.2	1.4	1.4
16	1.3	4.0	1.9	e6.8	4.7	5.8	13	102	11	3.1	1.4	39
17	1.5	3.6	1.6	156	4.3	5.3	8.3	53	9.5	2.1	1.4	18
18	1.9	5.8	16	130	4.0	4.8	7.3	35	58	77	1.5	5.6
19	1.9	4.1	51	81	4.0	12	37	26	31	29	1.6	2.8
20	10	3.0	21	24	4.2	26	58	21	18	14	1.6	7.1
21	6.1	2.4	9.2	14	4.5	17	19	29	12	73	1.4	23
22	2.1	3.4	6.5	11	4.5	12	48	19	12	37	1.3	16
23	1.0	3.1	5.4	76	5.6	16	239	16	25	15	1.4	5.2
24	.80	2.1	4.8	97	5.1	22	70	20	13	11	1.3	3.1
25	.74	1.8	4.3	27	4.3	24	39	26	8.8	11	1.4	2.5
26	.79	1.6	e3.8	18	7.1	14	38	75	6.8	6.8	1.2	2.1
27	1.3	1.6	e3.5	38	35	9.9	24	465	6.0	5.4	1.1	330
28	1.2	1.5	e3.2	17	38	9.0	48	105	5.6	5.1	1.1	67
29	1.4	2.2	e3.0	13	14	14	506	44	5.0	6.6	1.1	20
30	1.3	1.7	e2.8	9.9	---	9.8	111	30	4.5	23	1.1	11
31	1.6	---	e3.3	e8.0	---	39	---	22	---	12	1.0	---
TOTAL	73.80	270.0	171.8	818.6	238.3	426.5	1500.1	3417	612.2	379.4	62.2	568.58
MEAN	2.38	9.00	5.54	26.4	8.22	13.8	50.0	110	20.4	12.2	2.01	19.0
MAX	10	102	51	156	38	40	506	465	58	77	6.5	330
MIN	.63	1.1	1.3	3.3	4.0	4.8	6.9	16	4.5	2.0	1.0	.89
CFSM	.13	.50	.31	1.48	.46	.77	2.79	6.16	1.14	.68	.11	1.06
IN.	.15	.56	.36	1.70	.50	.89	3.12	7.10	1.27	.79	.13	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	8.91	21.9	22.6	18.4	24.3	31.2	30.9	27.9	15.6	13.5	8.35	8.99
MAX	60.9	88.2	95.4	54.8	79.4	63.7	58.2	110	73.4	57.7	30.8	69.9
(WY)	1987	1994	1991	1974	1975	1991	1972	1996	1978	1979	1978	1989
MIN	1.86	.88	1.23	.94	4.17	5.65	5.63	4.31	1.59	2.51	1.94	1.07
(WY)	1983	1972	1977	1977	1978	1981	1971	1988	1988	1991	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	3784.50		8538.48			
ANNUAL MEAN	10.4		23.3		19.3	
HIGHEST ANNUAL MEAN					29.6	1974
LOWEST ANNUAL MEAN					8.30	1977
HIGHEST DAILY MEAN	340	May 17	506	Apr 29	1570	Jun 26 1978
LOWEST DAILY MEAN	.63	Oct 11	.63	Oct 11	.00	Oct 7 1991
ANNUAL SEVEN-DAY MINIMUM	.85	Oct 8	.85	Oct 8	.00	Oct 12 1991
INSTANTANEOUS PEAK FLOW			1300	May 27	5500	Jun 26 1978
INSTANTANEOUS PEAK STAGE			7.47	May 27	13.31	Jun 26 1978
ANNUAL RUNOFF (CFSM)	.58		1.30		1.08	
ANNUAL RUNOFF (INCHES)	7.86		17.74		14.68	
10 PERCENT EXCEEDS	18		47		38	
50 PERCENT EXCEEDS	4.1		6.2		7.5	
90 PERCENT EXCEEDS	1.3		1.3		1.7	

e Estimated

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 downstream from bridge on State Highway 238, 0.2 mi downstream from Lick Creek, 2 mi northwest of Fortville, and at mile 26.1.
DRAINAGE AREA.--169 mi².
PERIOD OF RECORD.--July 1941 to current year.
REVISED RECORDS.--WSP 1435: 1949(P). WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 787.43 ft above sea level (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 12 ft March 1913 (information by local resident).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	39	37	e43	e120	311	549	971	258	126	100	35
2	25	48	37	64	e100	250	482	580	245	119	88	35
3	31	52	37	75	e94	187	324	501	237	119	80	35
4	42	38	37	e63	e88	156	258	1030	246	110	75	34
5	35	34	37	e50	e87	164	209	1350	214	103	70	33
6	37	32	35	e47	e87	292	187	1590	248	98	67	33
7	35	41	36	e45	e90	292	170	877	350	94	64	34
8	32	48	35	e43	105	204	154	1630	315	98	64	36
9	31	42	32	e42	116	162	144	3250	706	90	60	39
10	29	37	e31	e41	109	141	133	1570	636	84	57	37
11	27	87	e30	e41	109	126	125	1280	501	78	56	36
12	29	103	e30	e40	98	124	121	852	434	75	55	33
13	30	70	e32	e40	87	123	122	599	346	75	52	32
14	29	58	39	e40	86	123	119	479	310	73	51	32
15	29	53	39	e42	82	124	116	602	494	85	51	30
16	31	50	37	e47	76	121	123	646	333	78	51	45
17	29	47	36	e150	72	119	115	499	262	73	49	82
18	29	48	41	e1100	69	108	114	411	239	120	49	50
19	29	48	64	1290	73	112	140	351	231	120	48	41
20	36	45	86	567	69	290	506	309	230	93	45	37
21	45	43	68	327	69	320	391	282	194	205	43	53
22	41	42	e54	242	76	266	318	248	178	545	43	92
23	37	41	e49	282	76	243	1030	228	191	289	50	58
24	35	41	e45	881	81	346	1610	231	509	190	51	47
25	34	40	e42	544	79	422	725	227	341	148	46	44
26	43	40	e40	333	80	308	492	237	236	118	43	41
27	37	40	e39	317	662	223	372	515	186	105	41	60
28	39	39	e38	253	1020	195	341	816	162	109	40	129
29	39	38	e37	203	505	191	1550	496	148	100	39	95
30	37	38	e37	163	---	175	2240	370	136	105	38	68
31	40	---	e38	136	---	176	---	304	---	119	36	---
TOTAL	1045	1422	1275	7551	4465	6394	13280	23331	9116	3944	1702	1456
MEAN	33.7	47.4	41.1	244	154	206	443	753	304	127	54.9	48.5
MAX	45	103	86	1290	1020	422	2240	3250	706	545	100	129
MIN	23	32	30	40	69	108	114	227	136	73	36	30
CFSM	.20	.28	.24	1.44	.91	1.22	2.62	4.45	1.80	.75	.32	.29
IN.	.23	.31	.28	1.66	.98	1.41	2.92	5.14	2.01	.87	.37	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1996, BY WATER YEAR (WY)

MEAN	65.0	121	170	212	251	300	295	226	174	115	76.8	58.1
MAX	353	788	727	1210	720	674	829	753	888	416	467	498
(WY)	1987	1994	1991	1950	1950	1978	1964	1996	1958	1992	1979	1989
MIN	20.1	30.1	24.2	24.4	42.1	71.2	70.3	71.4	39.2	24.7	16.0	15.6
(WY)	1964	1945	1964	1977	1964	1981	1971	1955	1988	1966	1988	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1942 - 1996	
ANNUAL TOTAL	40069		74981			
ANNUAL MEAN	110		205		171	
HIGHEST ANNUAL MEAN					298	1950
LOWEST ANNUAL MEAN					61.4	1966
HIGHEST DAILY MEAN	2600	May 20	3250	May 9	6950	Apr 21 1964
LOWEST DAILY MEAN	23	Sep 30	23	Oct 1	7.0	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	24	Sep 26	29	Oct 9	9.7	Aug 21 1988
INSTANTANEOUS PEAK FLOW			3860	May 9	8750	Apr 21 1964
INSTANTANEOUS PEAK STAGE			8.27	May 9	9.88	Apr 21 1964
ANNUAL RUNOFF (CFSM)	.65		1.21		1.01	
ANNUAL RUNOFF (INCHES)	8.82		16.50		13.78	
10 PERCENT EXCEEDS	195		501		349	
50 PERCENT EXCEEDS	65		86		90	
90 PERCENT EXCEEDS	31		35		31	

e Estimated

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 mi upstream from mouth.
DRAINAGE AREA.--298 mi².
PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for October 1929, 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 above sea level. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Geist Reservoir.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 16.3 ft Mar. 26, 1913, from floodmarks, discharge, 22,000 ft³/s by slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	54	48	50	e170	622	862	2520	460	196	186	54
2	54	73	46	83	e160	447	870	1320	452	175	149	54
3	98	70	42	102	e140	344	635	1060	427	172	124	52
4	130	59	39	e58	e136	277	485	2150	446	149	110	50
5	58	60	43	e54	e130	288	400	2640	378	139	91	51
6	57	60	42	e52	e132	508	315	3040	438	130	86	51
7	50	93	43	e50	e137	521	280	2120	577	122	87	53
8	47	78	43	e48	154	392	255	2440	559	124	78	52
9	46	65	41	e47	186	307	231	3870	793	110	71	56
10	43	63	e39	e45	184	258	212	3470	960	107	72	61
11	44	268	e38	e44	182	221	198	2370	840	94	77	58
12	46	172	e37	e44	168	205	186	1630	803	89	68	54
13	46	107	e40	e44	148	198	207	1120	639	88	58	54
14	46	65	49	e45	139	192	203	839	513	80	55	54
15	47	56	43	e47	132	190	177	1440	563	108	53	53
16	47	53	42	e52	120	190	198	1790	549	101	57	118
17	46	52	39	643	111	175	185	1120	435	93	56	175
18	46	53	49	2050	106	166	166	809	464	290	55	56
19	46	52	123	2610	104	221	316	642	428	326	57	51
20	57	50	109	1540	105	352	651	535	460	267	53	47
21	55	50	80	800	103	476	701	498	361	468	52	63
22	54	50	57	541	102	449	627	425	301	1170	52	106
23	50	49	e49	599	107	425	1830	376	311	771	60	68
24	49	49	e47	1360	107	539	2330	371	729	484	154	55
25	50	48	e45	1200	113	623	1730	360	788	336	78	51
26	49	49	e44	763	129	562	1070	468	513	244	64	49
27	53	51	e42	674	394	434	728	1350	373	186	59	129
28	53	48	e41	547	1230	342	662	1770	301	157	58	251
29	53	49	e40	427	1020	312	2610	1190	248	153	60	177
30	51	50	e39	345	---	279	3310	775	216	248	61	114
31	53	---	e40	e200	---	336	---	575	---	257	57	---
TOTAL	1679	2096	1519	15164	6149	10851	22630	45083	15325	7434	2398	2317
MEAN	54.2	69.9	49.0	489	212	350	754	1454	511	240	77.4	77.2
MAX	130	268	123	2610	1230	623	3310	3870	960	1170	186	251
MIN	43	48	37	44	102	166	166	360	216	80	52	47
CFSM	.18	.23	.16	1.64	.71	1.17	2.53	4.88	1.71	.80	.26	.26
IN.	.21	.26	.19	1.89	.77	1.35	2.82	5.63	1.91	.93	.30	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)

MEAN	98.0	188	278	401	425	516	517	389	274	190	119	94.8
MAX	713	1283	1059	2390	1278	1399	1503	1524	1449	796	739	965
(WY)	1987	1994	1991	1950	1950	1963	1964	1943	1958	1979	1979	1989
MIN	23.4	32.1	38.2	37.1	50.4	47.5	59.7	33.6	42.2	29.1	15.5	11.5
(WY)	1941	1935	1935	1945	1935	1941	1941	1941	1934	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1930 - 1996	
ANNUAL TOTAL	69243		132645			
ANNUAL MEAN	190		362		290	
HIGHEST ANNUAL MEAN					539	1950
LOWEST ANNUAL MEAN					44.0	1941
HIGHEST DAILY MEAN	3780	May 19	3870	May 9	10600	May 18 1943
LOWEST DAILY MEAN	37	Jan 5	37	Dec 12	7.8	Sep 28 1941
ANNUAL SEVEN-DAY MINIMUM	38	Jan 3	40	Dec 7	9.0	Sep 24 1941
INSTANTANEOUS PEAK FLOW			4340	May 9	12900	May 28 1956
INSTANTANEOUS PEAK STAGE			10.14	May 9	13.53	May 28 1956
ANNUAL RUNOFF (CFSM)	.64		1.22		.97	
ANNUAL RUNOFF (INCHES)	8.64		16.56		13.23	
10 PERCENT EXCEEDS	386		847		650	
50 PERCENT EXCEEDS	96		130		127	
90 PERCENT EXCEEDS	46		47		47	

e Estimated

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 mi downstream from Fall Creek, 3.4 mi upstream from Eagle Creek, 4.0 mi upstream from Indianapolis Power and Light Company dam, and at mile 230.3.
DRAINAGE AREA.--1,635 mi².
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 mi upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 mi 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 above sea level. March 1904 to July 1906, nonrecording gage at railroad bridge 0.8 mi upstream at datum approximately 2.9 ft higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant, 2.5 mi downstream at datum 660.00 ft lower. July 21, 1931 to Mar. 2, 1932, nonrecording gage and March 3, 1932, to September 30, 1960, water-stage recorder at present site at datum 660.00 ft lower.
REMARKS.--Records poor. Natural flow affected by regulation of Morse Reservoir and Geist Reservoir, and by diversion of municipal water supply by the Indianapolis Water Company. Stage-discharge relation affected at times by large releases from Eagle Creek and by variable leakage at Indianapolis Power and Light Company dam.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 30.0 ft, from floodmarks determined by Indianapolis Water Company, discharge, 70,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	e133	e158	315	992	3320	2850	11700	2920	e736	526	e155
2	77	406	e136	385	e780	2090	3390	8550	2740	e650	459	e165
3	280	334	e127	345	e660	1610	2990	5410	2410	e618	401	135
4	406	286	e134	e288	e630	1130	2310	8580	2160	e573	364	e128
5	411	e200	e116	e250	e590	1220	1870	8280	1830	e503	337	e112
6	348	e156	e103	e207	e562	2020	1390	10400	2330	e451	307	e97
7	e249	457	e111	e173	e539	2270	1190	8290	2780	e422	290	e94
8	e206	350	e125	e156	e581	1880	1040	9590	2810	e499	271	e170
9	e226	299	e120	e158	e695	1360	968	12900	2910	e408	258	286
10	e192	e300	e107	e160	807	1070	830	11700	4220	e390	240	189
11	e131	1380	e92	e163	820	939	803	9790	4850	e342	258	177
12	e96	746	e75	e170	705	811	705	9170	4170	e300	255	162
13	e80	519	e86	e179	645	771	780	6570	3290	e282	e203	e150
14	e70	538	e125	e200	579	729	698	4520	2670	e272	e174	e136
15	e63	423	e128	e250	535	722	711	7020	2500	e500	e226	e148
16	e80	356	e128	350	549	718	802	6270	2370	e350	234	1020
17	e77	327	e143	1730	496	707	691	4150	1990	e376	219	608
18	e74	326	383	5090	452	631	643	3400	2410	2040	233	331
19	e80	306	727	9220	433	792	1120	2760	2180	1220	250	258
20	e237	305	430	9830	435	1230	1870	2350	2030	1320	226	218
21	e250	276	e351	8220	440	1560	1490	2090	1750	1900	e214	546
22	e190	285	e315	3460	417	1740	2390	1780	1440	2920	e163	460
23	e170	285	e287	2830	430	1670	5950	1500	1700	1850	349	289
24	e114	e254	e268	4900	447	1870	8470	1560	1900	1390	381	269
25	e93	e242	e249	6620	446	2750	9090	2180	1940	988	248	215
26	e87	e231	e228	4800	545	3500	6360	3260	1470	686	247	211
27	e109	e237	e210	3460	1500	3020	3900	6510	1180	551	237	1640
28	e128	e186	e191	2850	4710	2010	3500	9190	1030	605	215	1630
29	e113	e196	e178	2250	5330	1620	9640	8160	921	534	197	707
30	e117	e150	e164	1710	---	1360	11600	5870	841	751	e168	481
31	e103	---	253	1300	---	1570	---	4270	---	676	e157	---
TOTAL	4919	10489	6248	72019	26750	48690	90041	197770	69742	25103	8307	11187
MEAN	159	350	202	2323	922	1571	3001	6380	2325	810	268	373
MAX	411	1380	727	9830	5330	3500	11600	12900	4850	2920	526	1640
MIN	62	133	75	156	417	631	643	1500	841	272	157	94
CFSM	.10	.21	.12	1.42	.56	.96	1.84	3.90	1.42	.50	.16	.23
IN.	.11	.24	.14	1.64	.61	1.11	2.05	4.50	1.59	.57	.19	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	426	927	1375	1929	2129	2700	2712	1916	1396	895	535	424
MAX	2081	6425	5826	12120	6452	6610	7777	8594	7910	4259	3399	5063
(WY)	1991	1994	1991	1950	1950	1963	1964	1943	1958	1992	1979	1989
MIN	70.1	110	77.3	78.4	178	207	274	113	126	90.3	42.5	31.5
(WY)	1941	1935	1964	1977	1964	1941	1941	1941	1988	1936	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	314231		571265			
ANNUAL MEAN	861		1561		1443	
HIGHEST ANNUAL MEAN					2698	1950
LOWEST ANNUAL MEAN					233	1941
HIGHEST DAILY MEAN	12100	May 20	12900	May 9	36800	Dec 31 1990
LOWEST DAILY MEAN	58	Sep 29	62	Oct 1	8.0	Sep 29 1941
ANNUAL SEVEN-DAY MINIMUM	66	Sep 26	75	Oct 13	12	Sep 24 1941
INSTANTANEOUS PEAK FLOW			13200	May 9	38000	Dec 31 1990
INSTANTANEOUS PEAK STAGE			12.24	May 9	21.57	Jan 16 1937
ANNUAL RUNOFF (CFSM)	.53		.95		.88	
ANNUAL RUNOFF (INCHES)	7.15		13.00		11.99	
10 PERCENT EXCEEDS	2010		4340		3320	
50 PERCENT EXCEEDS	419		536		650	
90 PERCENT EXCEEDS	97		132		145	

e Estimated

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 upstream from Arlington Avenue bridge in Indianapolis, 0.5 mi downstream from small left-bank tributary, and at mile 7.9.
DRAINAGE AREA.--7.58 mi².
PERIOD OF RECORD.--December 1959 to current year.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 780.00 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1956 reached a stage of 16.0 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	11	e.62	15	2.3	2.8	33	12	3.3	.81	1.5	.33
2	.62	6.7	e.42	9.0	2.0	2.3	8.2	8.5	17	.77	.88	.26
3	22	.84	e.47	7.7	e1.8	1.5	5.2	27	11	.74	.70	.26
4	1.3	.36	e.52	3.7	e1.7	1.4	8.3	199	4.1	.68	.72	.30
5	13	.23	e.66	e2.6	e1.6	25	3.9	35	2.6	.70	.64	.30
6	2.1	.28	e1.0	e2.1	e1.5	18	2.6	17	41	.64	.53	.34
7	.82	25	e.80	e1.9	e1.8	6.8	2.1	14	13	1.0	.52	.40
8	.61	1.4	e.62	e1.7	e3.5	3.8	1.7	98	6.2	2.2	.59	8.4
9	.47	.60	e.50	e1.6	7.8	2.5	1.5	26	7.5	2.5	.49	7.2
10	.41	.54	e.45	e1.5	5.6	1.9	1.4	44	4.1	.65	.48	.84
11	.32	89	e.44	e1.4	3.9	1.8	1.5	21	14	.88	.49	.43
12	.10	4.5	e.43	e1.3	2.6	1.7	1.3	9.6	7.2	.43	.47	.35
13	.40	1.5	e.50	e1.3	2.1	1.6	3.9	6.4	3.7	.41	.49	.42
14	1.5	.82	e1.0	e1.4	1.9	1.5	1.7	4.6	2.7	1.1	.49	.34
15	1.1	.51	1.3	e1.5	1.5	1.5	5.5	297	2.4	26	3.4	.31
16	.84	.39	.89	e3.0	1.2	1.2	6.0	34	1.8	1.2	.54	116
17	1.1	1.8	.93	117	e1.1	1.1	2.0	13	1.6	.79	.39	12
18	.99	1.9	24	76	e1.0	1.1	1.4	8.0	42	86	.50	2.6
19	1.4	.46	48	24	e1.0	18	57	5.4	12	9.8	.38	1.2
20	17	.25	15	12	1.4	23	42	4.2	4.0	2.6	.34	.82
21	1.1	.33	3.4	4.8	1.5	12	8.7	3.9	2.3	91	1.3	41
22	.29	.54	2.2	4.3	1.3	10	59	2.7	2.1	15	.74	7.4
23	.23	.38	1.5	70	1.3	14	148	5.0	14	4.1	52	2.3
24	.38	.44	1.1	28	1.2	14	21	16	4.8	2.8	13	1.4
25	.73	.42	e.90	11	1.1	12	16	7.5	2.2	2.1	1.8	1.0
26	.65	.46	e.84	8.3	12	5.3	12	69	1.5	1.3	.84	1.4
27	5.9	.55	e.80	15	15	3.7	6.5	141	1.2	1.3	.73	56
28	.47	.99	e.76	6.2	8.4	3.1	83	21	1.0	2.7	.52	22
29	.33	1.1	e.74	4.1	3.7	8.1	223	11	1.0	1.3	.49	3.9
30	.26	.99	e.72	3.0	---	3.0	28	6.1	.83	24	.44	1.7
31	4.4	---	e1.0	2.6	---	33	---	4.3	---	3.8	.37	---
TOTAL	81.32	154.28	112.51	443.0	92.8	236.7	795.4	1171.2	232.13	289.30	86.77	291.20
MEAN	2.62	5.14	3.63	14.3	3.20	7.64	26.5	37.8	7.74	9.33	2.80	9.71
MAX	22	89	48	117	15	33	223	297	42	91	52	116
MIN	.10	.23	.42	1.3	1.0	1.1	1.3	2.7	.83	.41	.34	.26
CFSM	.35	.68	.48	1.89	.42	1.01	3.50	4.98	1.02	1.23	.37	1.28
IN.	.40	.76	.55	2.17	.46	1.16	3.90	5.75	1.14	1.42	.43	1.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1996, BY WATER YEAR (WY)

MEAN	4.31	9.01	8.82	7.67	8.68	13.0	11.6	10.4	6.67	8.85	5.29	4.33
MAX	27.5	36.9	33.3	25.0	25.7	42.3	28.5	37.8	21.6	33.8	21.3	23.2
(WY)	1987	1994	1991	1969	1971	1963	1961	1996	1973	1979	1979	1989
MIN	.38	1.28	.72	.45	1.11	1.94	1.61	1.12	.69	.61	.67	.49
(WY)	1964	1964	1964	1977	1978	1994	1971	1964	1967	1967	1967	1967

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1960 - 1996	
ANNUAL TOTAL	2591.12		3986.61			
ANNUAL MEAN	7.10		10.9		8.24	
HIGHEST ANNUAL MEAN					11.6	1978
LOWEST ANNUAL MEAN					3.25	1966
HIGHEST DAILY MEAN	247	May 18	297	May 15	574	Mar 4 1963
LOWEST DAILY MEAN	.08	Jul 11	.10	Oct 12	.00	Sep 11 1960
ANNUAL SEVEN-DAY MINIMUM	.26	Sep 22	.31	Aug 31	.00	Oct 5 1960
INSTANTANEOUS PEAK FLOW			1750	May 15	2600	Jun 25 1978
INSTANTANEOUS PEAK STAGE			10.72	May 15	13.86	Jun 25 1978
ANNUAL RUNOFF (CFSM)	.94		1.44		1.09	
ANNUAL RUNOFF (INCHES)	12.72		19.56		14.77	
10 PERCENT EXCEEDS	15		24		17	
50 PERCENT EXCEEDS	1.7		1.8		1.9	
90 PERCENT EXCEEDS	.40		.43		.50	

e Estimated

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 upstream from Long Branch, and at mile 24.7.
DRAINAGE AREA.--103 mi².
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 above sea level. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Low flow affected by the Zionsville well field located on the right bank below the gage before 1989.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.20 ft. from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	1.0	1.7	7.7	e37	115	319	353	118	24	14	e1.1
2	.01	3.9	1.7	14	e30	93	195	261	127	21	9.5	e1.0
3	.09	3.5	1.7	e10	e25	69	140	245	109	19	7.2	e1.0
4	.52	2.7	1.6	e7.0	e22	58	109	612	95	16	5.8	e.96
5	1.0	2.3	1.6	e6.1	e20	103	84	909	78	14	4.6	e.94
6	1.1	2.6	1.6	e5.6	e19	241	74	639	168	12	3.9	e.92
7	.20	9.4	1.6	e5.2	e21	147	68	360	270	11	3.2	e.90
8	.19	10	e1.5	e4.9	42	101	59	1830	170	11	2.9	e1.1
9	.19	6.5	e1.5	e4.7	48	78	52	1200	139	12	2.4	e1.5
10	.20	5.0	e1.4	e4.5	42	73	47	601	121	9.8	2.1	e1.6
11	.20	33	e1.3	e4.4	44	52	45	704	121	8.0	1.7	e1.3
12	.20	16	e1.3	e4.3	34	52	44	367	165	7.0	1.6	e1.2
13	.24	7.4	e1.4	e4.2	32	53	43	268	121	6.5	1.5	e1.1
14	.25	4.3	2.4	e4.4	29	55	36	194	101	6.0	1.3	1.0
15	.25	2.7	2.6	e4.7	27	59	41	833	90	6.7	1.3	.56
16	.25	2.5	2.6	e9.0	21	55	45	458	72	6.2	.99	4.1
17	.25	2.0	2.5	227	19	52	36	304	63	5.6	.92	2.7
18	.25	2.4	6.0	553	18	47	34	207	76	99	1.0	1.3
19	.25	3.5	18	434	19	50	38	140	109	124	1.1	.77
20	1.0	3.1	15	242	20	61	39	107	91	63	1.2	.47
21	1.1	2.4	10	146	19	52	31	90	67	155	e1.1	1.9
22	.71	2.5	7.5	75	18	52	195	73	57	263	e1.0	e1.0
23	.43	2.2	6.4	140	21	60	704	68	53	106	e.96	e.70
24	.39	1.8	5.6	442	26	160	386	168	152	52	e1.1	e.50
25	.39	2.0	e4.8	206	24	249	247	259	98	34	e1.0	e.40
26	.39	1.8	e4.5	130	28	143	215	285	60	20	e1.1	e2.0
27	.55	1.7	e4.2	145	579	95	162	1260	46	13	e1.0	105
28	.60	1.7	e3.9	120	328	84	169	633	38	20	e1.1	48
29	.65	1.7	e3.7	79	173	81	1380	342	32	27	e1.3	13
30	.65	1.7	e3.5	e62	---	73	563	223	28	42	e1.2	7.4
31	.72	---	e4.0	e47	---	99	---	154	---	25	e1.1	---
TOTAL	13.26	143.3	127.1	3148.7	1785	2762	5600	14147	3035	1238.8	80.17	205.42
MEAN	.43	4.78	4.10	102	61.6	89.1	187	456	101	40.0	2.59	6.85
MAX	1.1	33	18	553	579	249	1380	1830	270	263	14	105
MIN	.01	1.0	1.3	4.2	18	47	31	68	28	5.6	.92	.40
CFSM	.00	.05	.04	.99	.60	.87	1.81	4.43	.98	.39	.03	.07
IN.	.00	.05	.05	1.14	.64	1.00	2.02	5.11	1.10	.45	.03	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	22.1	90.7	129	117	147	197	181	105	86.7	63.8	38.0	22.3
MAX	131	542	530	452	423	459	532	456	523	520	444	332
(WY)	1970	1993	1991	1974	1976	1963	1964	1996	1958	1979	1958	1989
MIN	.000	1.16	1.65	1.23	9.05	28.7	30.0	12.0	1.55	1.52	.000	.000
(WY)	1967	1965	1977	1977	1964	1966	1971	1988	1988	1966	1966	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	16581.71		32285.75			
ANNUAL MEAN	45.4		88.2		99.6	
HIGHEST ANNUAL MEAN					188	1974
LOWEST ANNUAL MEAN					22.2	1977
HIGHEST DAILY MEAN	1390	May 19	1830	May 8	6840	Dec 30 1990
LOWEST DAILY MEAN	.01	Oct 2	.01	Oct 2	.00	Sep 9 1959
ANNUAL SEVEN-DAY MINIMUM	.08	Sep 27	.20	Oct 7	.00	Sep 15 1959
INSTANTANEOUS PEAK FLOW			3180	May 8	12400	Apr 20 1964
INSTANTANEOUS PEAK STAGE			9.37	May 8	14.64	Apr 20 1964
ANNUAL RUNOFF (CFSM)	.44		.86		.97	
ANNUAL RUNOFF (INCHES)	5.99		11.66		13.14	
10 PERCENT EXCEEDS	95		241		215	
50 PERCENT EXCEEDS	13		18		30	
90 PERCENT EXCEEDS	.38		.93		1.4	

e Estimated

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 upstream from Interstate Highway 74, 0.5 mi downstream from School Branch, 1.0 mi northeast of Clermont, and 2 mi west of Indianapolis.

DRAINAGE AREA.--162 mi².

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

GAGE.--Water-stage recorder. Datum of gage is sea level. (Prior to 1993 water year, erroneously published as 780.00 ft above sea level).

REMARKS.--Reservoir is formed by earth-fill dam. Low flow is controlled through a 48-inch diameter conduit. Spillway elevation, 783 ft is an ogee section with 6 taintor gates, each 40 ft wide and 25 ft high. Permanent pool capacity is 24,000 acre-ft, elevation, 790.00 ft. Reservoir is used for flood control, low-flow maintenance, water supply, and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.--Water-stage elevations and capacity tables furnished by Indianapolis Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 30,580 acre-ft Dec. 30, 1990, elevation, 794.61 ft; minimum, 11,390 acre-ft Nov. 17-18, 1991, elevation, 778.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 25,670 acre-ft May 27, elevation, 791.19 ft; minimum, 16,680 acre-ft Dec. 17, elevation, 784.07 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	785.99	18,890	
Oct. 31	784.70	17,370	-1,520
Nov. 30	784.54	17,190	-180
Dec. 31	784.25	16,870	-320
CAL YR 1995			-5,360
Jan. 31	790.15	24,210	+7,340
Feb. 29	790.01	24.010	-200
Mar. 31	789.99	23,990	+20
Apr. 30	790.05	24,070	+80
May 31	790.62	24,870	+800
June 30	790.95	25,330	+460
July 31	791.14	25,600	+270
Aug. 31	789.64	23,530	-2,070
Sept. 30	789.62	23,510	-20
WYR YR 1996			+4,660

03353451 EAGLE CREEK BELOW RESERVOIR AT 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 upstream from Interstate Highway 74, 0.5 mi downstream from School Branch, 1.0 mi northeast of Clermont, and 2 mi west of Indianapolis.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1992 to current year. Published as "03353450 Eagle Creek Reservoir near Indianapolis" October 1992 to September 1994.

GAGE.--Water stage recorder located 100 ft downstream of outlet structure. Datum of gage is 741.15 ft above sea level.

REMARKS.--Mean daily discharges below 50 ft³/s published. Unit discharges below 50 ft³/s available in district office. For a complete record of Eagle Creek in this vicinity use records of Eagle Creek at Indianapolis, IN (station 03353500) about 4.9 mile downstream. Prior to this year this station was published under Eagle Creek Reservoir at Indianapolis (station 03353450).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	---	3.7	3.7	---	---	---	---	---	11	7.9	6.2
2	3.4	---	3.9	3.7	---	---	---	---	---	12	7.3	5.7
3	---	4.6	3.7	3.8	3.7	---	---	---	---	12	7.2	5.5
4	---	4.7	3.9	2.8	3.7	---	---	---	---	11	7.0	5.5
5	5.0	4.8	3.8	4.0	6.5	---	34	---	---	10	6.3	5.4
6	3.9	4.4	4.1	4.0	10	---	---	---	---	9.3	6.2	5.0
7	3.9	4.1	4.2	3.9	9.0	---	34	---	---	8.7	5.5	5.1
8	4.1	4.2	4.2	4.0	8.8	---	---	---	---	9.2	5.6	5.1
9	4.3	4.1	3.7	3.9	---	---	13	---	---	11	6.6	5.1
10	4.0	3.8	4.3	3.9	---	---	---	---	---	11	6.4	5.3
11	3.8	4.0	4.2	3.9	---	---	11	---	---	10	6.0	5.6
12	3.9	4.2	4.1	3.7	11	---	---	---	---	9.1	5.7	6.3
13	4.2	4.0	3.9	3.6	11	---	---	---	---	8.4	5.8	7.0
14	4.4	4.0	3.7	3.5	10	---	12	---	---	9.4	5.4	7.1
15	4.7	3.9	3.9	3.6	---	---	---	---	---	9.0	5.4	6.2
16	4.7	3.9	3.9	3.6	---	---	31	---	---	8.1	5.8	6.5
17	4.6	3.9	3.9	3.5	11	---	29	---	---	7.9	6.3	6.1
18	4.2	3.9	3.9	3.8	11	---	27	---	---	---	5.8	6.1
19	4.2	3.9	3.7	5.1	9.6	---	---	---	---	---	5.2	5.8
20	4.5	3.9	3.7	5.6	9.1	---	---	---	---	---	5.0	6.2
21	4.6	3.9	3.7	5.0	9.5	---	27	---	---	---	5.1	6.5
22	4.4	4.0	3.7	4.7	9.5	11	---	---	---	---	5.1	6.4
23	4.1	3.8	---	6.3	8.9	---	---	23	---	---	5.4	6.6
24	4.2	3.9	---	---	---	---	---	---	---	---	5.9	6.7
25	4.4	3.8	---	---	9.9	---	---	---	---	---	6.0	8.4
26	4.2	3.8	---	---	---	---	---	---	20	10	6.6	9.8
27	4.0	3.6	---	---	---	---	---	---	12	---	6.4	10
28	4.3	3.9	3.8	---	---	---	---	---	12	---	6.5	11
29	4.3	4.0	3.8	---	---	---	---	---	11	7.6	6.7	11
30	4.2	3.8	3.8	---	---	9.6	---	---	11	7.6	6.5	11
31	---	---	3.7	---	---	---	---	---	---	7.8	6.5	---
TOTAL	---	---	---	---	---	---	---	---	---	---	189.1	204.2
MEAN	---	---	---	---	---	---	---	---	---	---	6.10	6.81
MAX	---	---	---	---	---	---	---	---	---	---	7.9	11
MIN	---	---	---	---	---	---	---	---	---	---	5.0	5.0
CFSM	---	---	---	---	---	---	---	---	---	---	.04	.04
IN.	---	---	---	---	---	---	---	---	---	---	.04	.05

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 south of intersection of West 10th Street and Lynhurst Drive, 0.5 mi downstream from West 10th Street bridge, 1.0 mi upstream from Vermont Street bridge, 3.0 mi upstream from Little Eagle Creek, and 7.1 mi upstream from mouth.
DRAINAGE AREA.--174 mi².
PERIOD OF RECORD.--November 1938 to current year.
REVISED RECORDS.--WSP 953: 1939. WSP 1625: 1958. WSP 2109: Drainage area. WDR IN-93-1: 1992.
GAGE.--Water-stage recorder. Datum of gage is 697.00 ft above sea level. Aug. 8, 1957 to June 30, 1958, temporary site during reconstruction of bridge on Lynhurst Drive, a nonrecording gage on downstream side of 10th Street bridge. Mar. 10, 1966 to Aug. 16, 1967, during channelization of Eagle Creek, a nonrecording gage on downstream side of Lynhurst Drive bridge. Prior to Oct. 1, 1967, at datum 9.21 ft higher, (erroneously published as 7.21 ft higher in 1992 report). Oct. 1, 1967 to Sept. 30, 1992 at datum 2 ft higher.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated since November 1969 by Eagle Creek Reservoir, 4.7 mi upstream (see station 03353450).
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 23.2 ft present datum, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	12	5.3	12	132	241	612	e530	54	13	12	3.9
2	3.1	8.5	5.2	16	123	44	526	e675	337	13	11	3.8
3	39	5.8	6.3	16	e20	163	e106	e300	216	14	10	5.0
4	44	5.4	5.1	13	e20	14	e260	2120	211	12	9.6	6.1
5	8.1	5.5	5.0	11	e20	234	e110	1250	34	12	9.0	6.2
6	4.4	5.4	4.7	11	e19	364	172	2340	448	12	8.9	6.3
7	3.7	15	4.8	e10	e18	154	39	615	688	19	8.5	5.5
8	4.7	5.6	e4.5	e10	e18	151	132	2410	280	25	7.4	6.5
9	4.5	5.3	e4.6	e9.9	42	148	32	3220	378	10	7.9	5.4
10	3.8	7.4	e4.6	e9.7	152	144	88	1260	23	12	7.5	e4.6
11	3.7	70	e4.6	e9.5	108	144	20	1760	328	14	7.5	4.1
12	3.8	15	e4.6	e9.4	22	69	29	778	363	12	7.1	4.2
13	4.1	11	e4.6	e9.1	21	100	149	345	137	11	6.8	4.5
14	3.4	7.3	8.2	e8.8	19	93	13	480	209	13	6.5	5.2
15	4.3	6.8	8.1	e8.6	19	63	139	1600	418	13	5.8	4.7
16	4.4	6.3	7.8	e9.2	126	147	64	1280	102	11	6.6	53
17	4.1	6.8	7.8	104	22	90	42	596	106	11	6.7	9.9
18	3.9	6.5	21	89	21	56	31	561	384	494	7.7	5.8
19	3.5	6.0	48	54	19	91	160	203	195	318	6.9	6.1
20	9.4	5.7	22	32	18	147	252	199	154	120	5.5	5.7
21	4.8	5.6	11	21	16	70	41	201	138	311	5.0	29
22	4.6	7.8	10	18	15	27	280	107	161	645	4.8	11
23	3.9	9.7	9.7	73	15	124	1570	34	323	167	12	7.5
24	3.6	9.4	9.4	404	78	207	1190	103	108	159	7.8	6.1
25	4.4	9.1	9.5	564	16	564	654	427	98	88	5.1	6.6
26	4.5	9.0	9.5	138	32	105	319	636	32	16	5.6	8.9
27	5.7	8.8	9.2	146	715	197	400	2160	18	15	5.2	174
28	4.1	8.6	8.9	135	900	179	390	2330	16	216	4.8	55
29	4.1	8.8	9.0	131	309	179	2990	541	15	16	4.9	24
30	4.5	7.2	8.8	132	---	43	1510	111	13	22	4.6	17
31	6.1	---	9.4	133	---	352	---	388	---	14	4.1	---
TOTAL	213.5	301.3	291.2	2347.2	3055	4704	12320	29560	5987	2828	222.8	495.6
MEAN	6.89	10.0	9.39	75.7	105	152	411	954	200	91.2	7.19	16.5
MAX	44	70	48	564	900	564	2990	3220	688	645	12	174
MIN	3.1	5.3	4.5	8.6	15	14	13	34	13	10	4.1	3.8
CFSM	.04	.06	.05	.44	.61	.87	2.36	5.48	1.15	.52	.04	.09
IN.	.05	.06	.06	.50	.65	1.01	2.63	6.32	1.28	.60	.05	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

MEAN	33.7	116	166	204	238	309	312	215	140	87.9	39.9	39.6
MAX	201	851	906	1485	765	900	906	1127	904	800	490	625
(WY)	1970	1993	1991	1950	1976	1978	1964	1943	1957	1979	1958	1989
MIN	1.52	3.05	3.48	4.06	20.6	27.7	28.0	14.3	4.66	3.69	.19	.40
(WY)	1941	1941	1945	1945	1978	1941	1976	1976	1988	1968	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	27497.7		62325.6			
ANNUAL MEAN	75.3		170		158	
HIGHEST ANNUAL MEAN					316	1974
LOWEST ANNUAL MEAN					18.8	1941
HIGHEST DAILY MEAN	3110	May 19	3220	May 9	9890	Dec 30 1990
LOWEST DAILY MEAN	3.1	Oct 2	3.1	Oct 2	.00	Aug 7 1941
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 26	3.9	Oct 10	.01	Aug 22 1941
INSTANTANEOUS PEAK FLOW			4770	May 9	28800	Jun 28 1957
INSTANTANEOUS PEAK STAGE			9.29	May 9	23.59	Jun 28 1957
ANNUAL RUNOFF (CFSM)	.43		.98		.91	
ANNUAL RUNOFF (INCHES)	5.88		13.32		12.34	
10 PERCENT EXCEEDS	194		421		354	
50 PERCENT EXCEEDS	12		16		40	
90 PERCENT EXCEEDS	4.5		4.6		5.6	

e Estimated

03353551 LITTLE EAGLE CREEK AT 52ND STREET AT INDIANAPOLIS, IN

LOCATION.--Lat 39°50'45", long 86°14'55", in NE¼SW¼ sec.7, T.16 N., R.2 E., Marion County, Hydrologic Unit 05120201, on right bank at downstream side of West 52nd Street, 0.4 mi east of Lafayette Road, 1.1 mi upstream from Guion Creek, and at mile 7.2.
DRAINAGE AREA.--6.28 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 766.34 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	7.4	.74	18	e3.5	4.8	48	14	4.2	1.3	2.8	.65
2	.31	24	.75	16	e2.9	4.0	13	8.7	21	1.1	2.1	.65
3	9.4	5.1	.74	e10	e2.6	e3.5	8.2	45	6.8	1.0	1.7	.64
4	2.7	1.2	.72	e6.6	e2.4	e3.1	6.9	210	4.8	.91	1.5	.60
5	7.1	.76	.72	e4.5	e2.3	35	5.2	72	3.5	.88	1.3	.56
6	4.7	.69	.71	e3.3	e2.2	27	4.3	29	32	.87	1.1	.59
7	1.1	35	.69	e2.7	e3.0	12	3.9	19	14	.84	1.0	.59
8	.71	4.5	.67	e2.4	21	9.3	3.2	153	6.1	.87	.97	.58
9	.58	1.6	.65	e2.2	18	6.4	3.1	34	5.3	2.8	.93	3.7
10	.47	1.6	.59	e2.0	9.6	6.1	2.8	54	4.0	3.4	.88	1.2
11	.40	117	.56	e1.9	6.0	3.9	2.5	26	15	2.6	.84	.70
12	e.38	8.9	.59	e1.8	4.0	3.6	2.4	12	11	2.2	.82	.60
13	e.37	3.7	.71	e1.7	3.8	3.2	3.0	7.2	4.8	1.2	.90	.57
14	e.36	2.2	1.4	e1.9	2.9	3.2	2.8	5.7	8.8	1.5	.88	.57
15	e.35	1.4	1.2	e2.5	2.7	3.0	8.5	239	7.5	4.4	.79	.54
16	e.34	1.1	1.2	e6.0	e2.3	2.6	8.4	29	3.5	2.0	.76	40
17	e.33	2.3	1.9	182	e2.0	2.7	3.9	13	3.0	1.6	.80	8.1
18	e.32	6.1	27	119	e1.8	2.3	3.0	7.7	43	142	.83	2.2
19	e.34	1.8	50	46	1.6	7.7	65	5.7	11	16	1.2	1.3
20	12	1.4	26	28	1.9	18	45	4.3	5.6	4.6	1.0	.94
21	3.3	1.1	9.6	8.8	2.2	11	9.6	12	3.7	65	.81	21
22	.84	.95	3.7	5.9	2.2	8.4	43	4.6	7.2	20	.77	8.6
23	.50	.90	e2.4	95	2.4	15	196	6.2	37	6.6	.81	1.8
24	.51	.84	e2.0	60	2.3	16	26	9.2	7.5	5.3	.88	1.4
25	.42	.86	e1.7	18	1.8	14	16	13	4.0	6.0	.79	1.0
26	.38	.87	e1.5	12	6.7	7.1	17	72	2.8	3.1	.71	.99
27	1.6	.82	e1.4	28	17	5.2	8.4	176	2.4	2.5	.82	236
28	1.7	.79	e1.3	15	14	4.8	52	26	2.0	2.4	.71	33
29	.71	.76	e1.2	7.2	5.5	8.5	233	13	1.7	2.3	.72	7.7
30	.56	.80	e1.1	e5.4	---	5.4	30	7.5	1.4	19	.70	4.0
31	2.3	---	e1.6	e4.2	---	54	---	5.3	---	5.0	.66	---
TOTAL	55.39	236.44	145.04	718.0	150.6	310.8	874.1	1333.1	284.6	329.27	31.48	380.77
MEAN	1.79	7.88	4.68	23.2	5.19	10.0	29.1	43.0	9.49	10.6	1.02	12.7
MAX	12	117	50	182	21	54	233	239	43	142	2.8	236
MIN	.31	.69	.56	1.7	1.6	2.3	2.4	4.3	1.4	.84	.66	.54
CFSM	.28	1.25	.75	3.69	.83	1.60	4.64	6.85	1.51	1.69	.16	2.02
IN.	.33	1.40	.86	4.25	.89	1.84	5.18	7.90	1.69	1.95	.19	2.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	5.24	16.9	11.7	11.6	10.0	11.7	16.5	16.9	6.98	9.04	4.04	6.44
MAX	13.3	41.1	49.8	23.2	31.1	25.0	29.1	43.0	16.2	22.5	6.54	16.3
(WY)	1991	1994	1991	1996	1990	1991	1996	1996	1993	1992	1995	1993
MIN	1.06	7.88	1.15	5.92	3.12	3.36	4.66	4.32	1.63	2.21	1.02	1.05
(WY)	1995	1996	1990	1995	1995	1994	1995	1992	1991	1991	1996	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	2256.18		4849.59			
ANNUAL MEAN	6.18		13.3		10.6	
HIGHEST ANNUAL MEAN					13.3	1993
LOWEST ANNUAL MEAN					6.14	1995
HIGHEST DAILY MEAN	206	May 17	239	May 15	664	Nov 14 1993
LOWEST DAILY MEAN	.28	Sep 26	.31	Oct 1	.15	Sep 21 1991
ANNUAL SEVEN-DAY MINIMUM	.34	Sep 21	.34	Oct 13	.28	Aug 21 1991
INSTANTANEOUS PEAK FLOW			991	May 15	1550	Nov 14 1993
INSTANTANEOUS PEAK STAGE			5.68	May 15	8.30	Jul 5 1992
ANNUAL RUNOFF (CFSM)	.98		2.11		1.68	
ANNUAL RUNOFF (INCHES)	13.36		28.73		22.89	
10 PERCENT EXCEEDS	12		29		21	
50 PERCENT EXCEEDS	1.7		3.0		3.0	
90 PERCENT EXCEEDS	.50		.68		.74	

e Estimated

03353560 GUION CREEK ABOVE 52ND STREET AT INDIANAPOLIS, IN

LOCATION.--Lat 39°50'45", long 86°13'57", in NW¼SW¼ sec.08., T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank 25 ft upstream from private bridge, 0.2 mi north of West 52nd Street along Guion Road, and 1.25 mi upstream of the confluence with Little Eagle Creek.
DRAINAGE AREA.--4.10 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 760.11 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.12	2.6	e.34	3.9	e1.3	e2.0	19	13	2.8	.81	1.3	e.27
2	e.54	9.3	e.34	5.6	e1.2	e1.4	7.4	8.3	6.7	.76	.98	e.27
3	e3.5	2.0	e.33	e3.2	e1.1	e1.2	4.7	18	5.1	.71	.83	e.26
4	e1.0	.07	e.33	e2.2	e1.1	1.1	3.6	86	3.4	.57	.74	e.25
5	e2.8	.03	e.32	e1.6	e1.0	e12	2.4	35	2.3	.54	.67	e.24
6	e.80	.02	e.32	e1.2	e1.0	e5.2	1.9	20	12	.53	.60	e.25
7	e.33	11	e.31	e1.0	e1.6	e3.3	1.6	13	7.2	.51	.55	e.25
8	e.15	.25	e.31	e.90	7.4	e2.5	1.4	51	4.3	.56	.51	e.27
9	e.09	.09	e.27	e.80	6.4	e2.1	1.2	24	3.3	.84	.46	e.54
10	e.05	.59	e.24	e.76	2.1	e1.8	1.1	29	2.6	.51	e.40	e.35
11	e.03	40	e.23	e.74	1.5	e1.6	1.1	17	7.4	.43	e.38	e.28
12	e.03	8.3	e.23	e.72	1.4	1.5	1.3	7.8	6.6	.36	e.37	e.23
13	e.03	2.7	e.35	e.70	1.2	1.4	1.4	4.5	3.5	.33	e.46	e.22
14	e.02	1.7	.79	e.80	1.1	1.4	1.1	3.2	3.2	.56	e.44	e.22
15	e.02	.91	.67	e1.1	.94	1.4	2.3	96	2.7	1.5	e.35	e.21
16	e.02	.61	.44	e2.0	.85	1.2	2.2	24	2.0	.62	e.33	9.8
17	e.02	.67	.35	65	.80	1.1	1.2	12	1.6	.47	e.35	3.5
18	e.02	.94	4.4	59	.80	1.1	1.0	7.2	15	47	e.40	1.9
19	e.02	.54	18	22	.78	2.3	26	3.8	7.0	7.2	e.60	1.2
20	e4.8	.47	5.5	8.9	.79	5.3	21	2.6	3.9	2.9	e.48	1.8
21	e.90	.44	2.2	5.6	.83	3.8	7.9	3.3	2.5	24	e.39	6.2
22	e.17	.37	1.5	2.9	.83	3.5	14	2.5	3.8	11	e.36	2.5
23	e.02	e.37	e1.0	22	.89	4.4	55	2.5	14	4.8	e.37	1.5
24	e.02	e.36	e.82	21	.91	4.7	17	3.3	4.1	2.7	e.45	1.3
25	e.02	e.36	e.72	7.9	.87	4.7	11	3.5	2.4	2.0	e.40	1.1
26	e.01	e.36	e.64	5.5	1.4	2.7	6.9	30	1.7	1.3	e.33	1.1
27	e.45	e.35	e.58	10	2.7	2.1	3.8	93	1.3	1.0	e.42	68
28	.32	e.35	e.54	7.0	3.9	1.9	17	24	1.1	1.1	e.32	16
29	.27	e.35	e.50	2.6	4.4	2.5	104	14	.97	1.0	e.31	5.5
30	.02	e.36	e.47	e1.7	---	2.1	24	7.4	.84	5.4	e.29	3.2
31	.67	---	e.64	e1.4	---	12	---	3.8	---	2.2	e.28	---
TOTAL	17.26	86.46	43.68	269.72	51.09	95.3	363.5	662.7	135.31	124.21	15.12	128.71
MEAN	.56	2.88	1.41	8.70	1.76	3.07	12.1	21.4	4.51	4.01	.49	4.29
MAX	4.8	40	18	65	7.4	12	104	96	15	47	1.3	68
MIN	.01	.02	.23	.70	.78	1.1	1.0	2.5	.84	.33	.28	.21
CFSM	.14	.70	.34	2.12	.43	.75	2.96	5.21	1.10	.98	.12	1.05
IN.	.16	.78	.40	2.45	.46	.86	3.30	6.01	1.23	1.13	.14	1.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	1.84	8.00	4.68	5.57	4.76	5.97	8.00	8.92	3.10	3.71	1.49	2.52
MAX	5.45	20.8	19.6	10.6	16.4	12.5	12.1	21.4	9.27	10.5	3.32	9.03
(WY)	1991	1994	1991	1993	1990	1991	1996	1996	1993	1992	1993	1993
MIN	.15	2.88	.52	1.94	1.17	1.77	1.98	1.76	.56	.33	.15	.17
(WY)	1995	1996	1990	1992	1995	1994	1995	1992	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	1054.58		1993.06			
ANNUAL MEAN	2.89		5.45		4.87	
HIGHEST ANNUAL MEAN					7.26	1993
LOWEST ANNUAL MEAN					2.87	1995
HIGHEST DAILY MEAN	108	May 17	104	Apr 29	283	Nov 14 1993
LOWEST DAILY MEAN	.01	Oct 26	.01	Oct 26	.00	Aug 28 1991
ANNUAL SEVEN-DAY MINIMUM	.02	Oct 13	.02	Oct 13	.01	Aug 23 1991
INSTANTANEOUS PEAK FLOW			304	May 15	435	Nov 14 1993
INSTANTANEOUS PEAK STAGE			5.58	May 15	7.35	May 16 1990
ANNUAL RUNOFF (CFSM)	.70		1.33		1.19	
ANNUAL RUNOFF (INCHES)	9.57		18.08		16.15	
10 PERCENT EXCEEDS	5.0		13		9.9	
50 PERCENT EXCEEDS	.84		1.2		1.4	
90 PERCENT EXCEEDS	.14		.27		.16	

e Estimated

03353583 FALCON CREEK AT 30TH ST. AT INDIANAPOLIS, IN

LOCATION.--Lat 39°48'33", long 86°13'56", in NW¼NW¼ sec.29, T.16 N., R.03 E., Marion County, Hydrologic Unit 05120201, on left bank, 150 ft downstream from bridge on West 30th Street, 0.6 mi west of Lafayette Road, and 0.6 mi upstream of confluence with Little Eagle Creek.
DRAINAGE AREA.--4.15 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 727.27 ft above sea level.
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.09	7.7	e.12	e2.8	e.72	1.1	16	8.9	5.6	e1.7	e.66	.15
2	e.08	2.5	e.12	e2.6	e.66	1.1	4.4	5.4	18	e1.5	e.49	.15
3	3.9	.81	e.11	e1.6	e.59	.91	2.7	19	15	e1.4	e.38	.14
4	.59	.53	e.11	e1.1	e.54	.83	2.6	103	5.8	e1.3	e.34	.19
5	2.9	.50	e.11	e.77	e.52	8.2	1.6	35	3.8	e1.3	e.29	.14
6	.66	.53	e.11	e.62	e.50	7.3	1.4	15	37	e1.2	e.25	.14
7	.46	8.2	e.10	e.52	e.56	2.8	1.2	12	14	e4.1	e.23	.16
8	e.39	.66	e.10	e.45	e3.7	1.4	1.1	53	7.7	1.8	e.22	.77
9	e.33	.53	e.10	e.40	1.1	1.1	1.0	25	5.9	.72	e.21	.28
10	e.29	1.7	e.09	e.37	1.1	.98	.96	41	4.9	.47	e.20	.14
11	e.26	34	e.08	e.35	1.0	.91	.90	20	27	.54	e.19	.14
12	e.25	2.3	e.09	e.33	.87	.90	.90	7.8	12	.66	e.19	.12
13	e.24	1.1	e.12	e.32	.86	.90	1.2	4.6	5.8	.84	e.21	.12
14	e.23	.81	e.18	e.35	.78	.90	.90	3.2	11	2.3	.20	.12
15	e.23	.67	e.15	e.56	.75	.86	3.3	112	7.2	.96	.21	.12
16	e.22	.62	e.14	e1.2	.69	.79	1.9	26	4.2	.45	.21	24
17	e.22	1.5	e.78	e23	.68	.76	1.1	8.8	3.2	.52	.21	.34
18	e.21	.79	e4.0	e19	.62	.74	1.5	5.4	32	84	.27	.16
19	e.23	.59	e8.3	e9.6	.62	4.5	24	3.3	21	1.8	.24	.14
20	5.5	e.26	e2.7	e3.4	.66	7.0	22	e2.9	6.1	.56	.18	.14
21	.71	e.16	e1.2	e2.3	.69	2.9	4.3	e7.8	3.2	40	.17	11
22	.50	e.15	e.70	e1.2	.69	2.4	24	e3.1	6.7	6.1	.18	.33
23	e.33	e.14	e.50	e11	.72	2.5	78	e4.5	38	.96	2.4	.18
24	e.34	e.14	e.40	e11	.71	2.7	15	e6.4	12	.58	.20	.16
25	e.28	e.13	e.32	e2.7	.69	3.5	8.4	17	6.7	.42	.17	.14
26	e.25	e.14	e.28	e2.0	5.0	1.8	5.8	80	3.4	.33	.17	.14
27	1.7	e.13	e.25	e5.0	6.4	1.4	3.2	134	2.5	.62	.17	75
28	.66	e.13	e.23	e1.9	2.7	1.6	27	37	2.2	.51	.15	10
29	.55	e.12	e.22	e1.3	1.4	2.1	115	16	2.0	.45	.14	1.9
30	.47	e.13	e.29	e1.0	---	1.4	22	10	e1.9	4.6	.15	.80
31	1.3	---	e.70	e.84	---	15	---	6.9	---	e1.0	.15	---
TOTAL	24.37	67.67	22.70	109.58	36.52	81.28	393.36	834.0	325.8	163.69	9.43	127.31
MEAN	.79	2.26	.73	3.53	1.26	2.62	13.1	26.9	10.9	5.28	.30	4.24
MAX	5.5	34	8.3	23	6.4	15	115	134	38	84	2.4	75
MIN	.08	.12	.08	.32	.50	.74	.90	2.9	1.9	.33	.14	.12
CFSM	.19	.54	.18	.85	.30	.63	3.16	6.48	2.62	1.27	.07	1.02
IN.	.22	.61	.20	.98	.33	.73	3.53	7.48	2.92	1.47	.08	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	1.87	6.53	4.22	4.20	3.96	5.25	7.75	9.38	3.98	3.77	1.52	2.42
MAX	4.37	16.0	17.8	8.64	13.7	12.3	13.1	26.9	10.9	10.0	2.40	6.22
(WY)	1991	1994	1991	1993	1990	1991	1996	1996	1996	1992	1993	1993
MIN	.31	2.23	.73	1.44	.89	1.37	1.91	1.57	.82	.61	.30	.52
(WY)	1995	1995	1996	1992	1995	1994	1995	1992	1991	1991	1996	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	958.58		2195.71			
ANNUAL MEAN	2.63		6.00		4.57	
HIGHEST ANNUAL MEAN					6.00	1996
LOWEST ANNUAL MEAN					2.66	1995
HIGHEST DAILY MEAN	107	May 17	134	May 27	226	Nov 14 1993
LOWEST DAILY MEAN	.08	Oct 2	.08	Oct 2	.00	Sep 21 1991
ANNUAL SEVEN-DAY MINIMUM	.10	Dec 6	.10	Dec 6	.07	Sep 26 1991
INSTANTANEOUS PEAK FLOW			565	Jul 18	565	Jul 18 1996
INSTANTANEOUS PEAK STAGE			6.78	Jul 18	6.78	Jul 18 1996
ANNUAL RUNOFF (CFSM)	.63		1.45		1.10	
ANNUAL RUNOFF (INCHES)	8.59		19.68		14.96	
10 PERCENT EXCEEDS	4.6		15		9.6	
50 PERCENT EXCEEDS	.70		.90		1.2	
90 PERCENT EXCEEDS	.17		.14		.24	

e Estimated

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 mi upstream from Dry Run, and 2.3 mi upstream from mouth.
DRAINAGE AREA.--24.3 mi² including 5.57 mi² from Dry Run basin. Since June 1964 part of the flow from the 5.57 mi² of Dry Run basin has been diverted into Little Eagle Creek above gage.
PERIOD OF RECORD.--October 1959 to current year. Figures of runoff for June 1964 to September 1966 have been found to be in error and should not be used.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 707.82 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to June 13, 1975, at datum 3.00 ft higher.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	e15	e1.9	e44	e11	7.1	e88	87	24	5.5	10	1.7
2	.68	e44	e1.9	e40	e10	6.8	e50	56	77	4.9	7.6	1.6
3	21	9.8	e1.8	e25	e9.0	5.6	e35	145	45	4.4	6.4	e1.6
4	6.6	4.3	e1.8	e17	e8.4	4.5	22	574	25	4.2	6.0	e1.5
5	16	3.0	e1.7	e12	e8.0	54	16	247	17	4.1	5.5	e1.5
6	11	2.3	e1.7	e9.8	e7.6	52	13	123	139	3.7	4.9	e1.4
7	3.1	56	e1.6	e8.0	e8.6	20	12	74	62	21	4.5	e1.4
8	2.0	9.1	e1.6	e7.0	e56	15	10	372	30	15	4.5	e2.0
9	1.7	7.1	e1.5	e6.3	e50	9.2	9.3	169	22	6.9	4.6	11
10	e1.2	10	e1.5	e5.8	e29	6.6	8.6	225	17	6.1	4.1	3.9
11	e1.0	251	e1.4	e5.4	e19	6.0	8.7	126	84	5.5	4.0	2.4
12	e.90	21	e1.4	e5.2	e15	6.0	8.7	50	52	5.8	3.8	2.1
13	e.86	7.7	e1.8	e5.0	e11	5.6	10	31	24	4.2	3.5	2.0
14	e.84	5.0	e2.8	e5.4	e9.6	5.8	9.0	23	38	6.9	3.3	2.0
15	e.82	3.6	e2.3	e8.8	e8.2	5.6	23	580	32	13	3.1	2.6
16	e.80	3.4	e2.2	e19	e7.2	4.8	24	158	15	5.6	3.3	174
17	.79	5.7	12	352	e6.4	4.6	14	64	12	4.8	3.3	29
18	.70	6.0	53	286	e5.8	4.1	12	47	150	532	4.6	8.3
19	.72	3.2	131	153	e5.4	17	132	36	76	55	5.4	4.5
20	22	2.6	43	51	e5.0	37	170	26	27	23	3.8	e3.5
21	5.6	e2.4	e19	35	3.8	20	42	40	17	254	3.6	e82
22	2.0	e2.3	e11	19	3.8	14	138	19	22	98	3.2	e25
23	1.2	e2.2	e7.8	167	4.0	18	435	28	148	34	15	e11
24	.83	e2.1	e6.2	171	3.9	24	112	40	33	22	4.9	e5.2
25	.74	e2.1	e5.0	43	3.4	25	66	e76	17	22	3.1	4.5
26	.78	e2.2	e4.3	31	20	12	56	e180	12	13	3.9	3.9
27	5.6	e2.1	e3.9	78	30	e9.8	30	e430	9.4	10	4.2	550
28	5.1	e2.0	e3.6	28	26	e8.5	146	e150	7.6	13	5.7	120
29	2.9	e1.9	e3.5	20	9.5	e14	666	74	6.5	10	2.9	30
30	2.1	e2.0	e4.5	e16	---	e9.5	167	45	5.8	56	3.1	19
31	e5.0	---	e11	e13	---	e94	---	32	---	19	2.1	---
TOTAL	125.33	491.1	347.7	1686.7	394.6	526.1	2533.3	4327	1246.3	1282.6	147.9	1108.6
MEAN	4.04	16.4	11.2	54.4	13.6	17.0	84.4	140	41.5	41.4	4.77	37.0
MAX	22	251	131	352	56	94	666	580	150	532	15	550
MIN	.68	1.9	1.4	5.0	3.4	4.1	8.6	19	5.8	3.7	2.1	1.4
CFSM	.17	.67	.46	2.24	.56	.70	3.48	5.74	1.71	1.70	.20	1.52
IN.	.19	.75	.53	2.58	.60	.81	3.88	6.62	1.91	1.96	.23	1.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

MEAN	10.8	26.1	29.4	25.4	29.9	36.9	36.8	33.9	17.3	19.1	11.7	11.6
MAX	88.9	115	111	78.3	75.5	87.8	84.4	140	63.4	92.3	44.7	101
(WY)	1987	1994	1991	1969	1990	1978	1996	1996	1978	1979	1979	1989
MIN	.81	1.50	.85	.32	3.82	4.84	5.51	4.84	.98	.67	.15	.20
(WY)	1967	1966	1977	1977	1978	1981	1976	1976	1988	1966	1966	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1965 - 1996	
ANNUAL TOTAL	6529.52		14217.23			
ANNUAL MEAN	17.9		38.8		24.0	
HIGHEST ANNUAL MEAN					43.6	1993
LOWEST ANNUAL MEAN					4.86	1966
HIGHEST DAILY MEAN	647	May 17	666	Apr 29	1670	Nov 14 1993
LOWEST DAILY MEAN	.66	Sep 26	.68	Oct 2	.00	Jul 8 1966
ANNUAL SEVEN-DAY MINIMUM	.79	Oct 13	.79	Oct 13	.07	Aug 2 1966
INSTANTANEOUS PEAK FLOW			1980	Jul 18	3330	Jul 28 1979
INSTANTANEOUS PEAK STAGE			8.71	Jul 18	12.13	Jul 28 1979
ANNUAL RUNOFF (CFSM)	.74		1.60		.99	
ANNUAL RUNOFF (INCHES)	10.00		21.76		13.44	
10 PERCENT EXCEEDS	30		102		50	
50 PERCENT EXCEEDS	5.8		9.1		7.8	
90 PERCENT EXCEEDS	1.5		1.9		1.3	

e Estimated

03353611 WHITE RIVER AT STOUT GEN. STN. AT INDIANAPOLIS, IN

LOCATION.--Lat 39°42'52", long 86°12'02", in SE¼NE¼ sec.28, T.15N., R.3E., Marion County, Hydrologic Unit 05120201, on right bank 0.30 mi above confluence with Lick Creek and 0.31 mi above dam at Stout Generating Plant, and at mile 226.32
DRAINAGE AREA.--1,098 mi².
PERIOD OF RECORD.--Oct. 1, 1992 to current year.
GAGE.--Water-stage recorder. Datum of gage is 663.40 above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by regulation of Morse Reservoir and Geist Reservoir, and by diversion of municipal water supply by the Indianapolis Water Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	286	284	e430	1310	3970	3860	12800	3250	871	840	282
2	182	637	246	e600	1130	2450	4360	9860	3240	787	746	299
3	429	497	250	e520	e900	2020	3590	6900	2800	754	637	283
4	614	391	253	e420	e820	1460	2880	11400	2490	701	555	280
5	632	311	229	396	e760	1670	2390	10100	2060	629	541	260
6	494	266	214	372	789	2710	1830	12900	2970	573	465	250
7	358	753	226	348	803	2770	1580	9700	3670	558	423	244
8	320	533	227	321	896	2340	1420	11800	3250	654	397	318
9	335	399	217	319	1010	1790	1350	15500	3450	544	379	502
10	298	436	208	335	1140	1470	1150	13100	4850	516	350	317
11	234	2270	198	327	1150	1310	1110	11600	5960	466	403	289
12	209	1130	176	330	985	1130	958	10500	5190	431	377	306
13	195	830	199	330	880	1090	1150	7760	3870	419	321	284
14	185	873	242	353	802	1030	1000	5620	3200	414	313	260
15	170	649	248	391	737	1050	1040	8970	3150	658	356	275
16	199	536	247	416	785	1060	1190	8300	2770	479	406	1720
17	183	483	257	2410	672	1030	1010	5340	2310	505	333	1090
18	186	486	626	6260	607	893	893	4230	3190	3340	352	609
19	191	452	e1300	10100	579	1210	1600	3160	2810	1880	399	498
20	396	458	e950	10400	580	1840	2680	2650	2520	1880	362	394
21	362	407	e800	8900	594	2040	1990	2420	2120	2810	348	1020
22	297	411	e650	3880	560	2220	3140	2060	1740	4030	301	844
23	281	421	e560	3450	569	2180	8410	1740	2260	2470	627	578
24	227	377	e480	6290	610	2430	10400	1850	2290	1920	685	537
25	209	371	e430	7930	603	3550	10600	2670	2330	1440	438	399
26	203	363	e400	5650	784	4190	7830	4450	1730	1000	462	382
27	249	369	e370	4020	2090	3730	4970	9070	1380	806	417	2690
28	236	323	e360	3300	6120	2560	4690	11600	1180	965	375	2550
29	223	333	e340	2630	6480	2160	13000	9500	1030	770	338	1140
30	217	293	e330	2110	---	1830	13400	6950	924	1240	305	824
31	219	---	e320	1640	---	2250	---	5280	---	1120	297	---
TOTAL	8683	16344	11837	85178	35745	63433	115471	239780	83984	35630	13548	19724
MEAN	280	545	382	2748	1233	2046	3849	7735	2799	1149	437	657
MAX	632	2270	1300	10400	6480	4190	13400	15500	5960	4030	840	2690
MIN	150	266	176	319	560	893	893	1740	924	414	297	244
CFSM	.15	.29	.20	1.45	.65	1.08	2.03	4.08	1.47	.61	.23	.35
IN.	.17	.32	.23	1.67	.70	1.24	2.26	4.70	1.65	.70	.27	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	620	3896	1371	2916	1434	2522	3408	3713	1886	1617	540	676
MAX	1039	7366	2746	4718	2192	4507	4170	7735	2799	3806	812	1485
(WY)	1993	1994	1994	1993	1994	1993	1993	1996	1996	1993	1993	1993
MIN	227	455	382	1250	666	1375	1738	1517	829	538	406	254
(WY)	1995	1995	1996	1995	1995	1994	1995	1994	1994	1994	1994	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1992 - 1996	
ANNUAL TOTAL	428677		729357			
ANNUAL MEAN	1174		1993		2050	
HIGHEST ANNUAL MEAN					2947	1993
LOWEST ANNUAL MEAN					1186	1995
HIGHEST DAILY MEAN	13700	May 19	15500	May 9	32700	Nov 17 1993
LOWEST DAILY MEAN	150	Oct 1	150	Oct 1	150	Oct 1 1995
ANNUAL SEVEN-DAY MINIMUM	186	Sep 26	187	Oct 13	171	Sep 16 1994
INSTANTANEOUS PEAK FLOW			16100	May 9	36500	Nov 17 1993
INSTANTANEOUS PEAK STAGE			8.69	May 9	13.22	Nov 17 1993
ANNUAL RUNOFF (CFSM)	.62		1.05		1.08	
ANNUAL RUNOFF (INCHES)	8.40		14.30		14.68	
10 PERCENT EXCEEDS	2680		5420		4600	
50 PERCENT EXCEEDS	622		788		1050	
90 PERCENT EXCEEDS	217		256		280	

e Estimated

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.
DRAINAGE AREA.--15.6 mi².
PERIOD OF RECORD.--October 1970 to current year.
GAGE.--Water-stage recorder. Datum of gage is 742.00 ft above sea level (Indiana Flood Control and Water Resources Commission bench mark).
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	5.5	e.80	20	e6.0	6.1	99	e60	e11	3.4	3.3	1.1
2	.16	14	e.76	21	e5.2	5.2	32	e19	e14	2.9	2.6	.93
3	19	3.6	.72	e15	e4.6	4.2	18	e96	e11	2.8	2.4	.72
4	2.4	1.7	.77	e10	e4.4	3.3	16	e720	e9.0	2.4	2.2	.73
5	11	1.1	.73	e7.2	e4.0	28	11	e170	e6.4	2.2	1.9	.83
6	6.9	.88	.55	e5.8	e3.8	62	8.8	e70	e110	2.1	1.6	1.0
7	2.2	30	.53	e5.2	e4.0	27	7.1	e26	e175	2.0	1.6	1.1
8	1.3	3.6	e.50	e4.7	e6.6	16	e6.2	e94	e60	2.8	1.5	3.8
9	.52	1.8	e.48	e4.4	e12	13	e5.6	e84	e25	4.5	1.4	22
10	.55	1.5	e.46	e4.2	e7.6	7.1	e5.2	e100	e13	2.4	1.3	2.4
11	.90	112	e.44	e4.0	e7.2	5.8	e4.6	e120	e30	1.9	1.2	1.5
12	1.0	15	e.42	e3.9	e6.0	5.4	e4.4	e60	54	2.1	1.2	1.2
13	.88	6.9	e.45	e3.8	e5.2	5.2	e5.4	e25	20	1.8	1.1	1.1
14	.78	5.2	e.49	e4.5	e4.3	5.1	e4.8	e13	13	3.2	1.1	1.1
15	.77	2.9	.54	e6.2	e3.6	12	e5.4	e115	10	15	22	.80
16	.70	2.3	.54	21	e3.2	6.5	e6.2	e96	7.5	3.1	4.3	149
17	.75	2.6	.54	204	e3.0	5.4	e4.5	e50	6.5	2.2	1.7	29
18	.77	3.4	25	175	e2.8	4.6	e4.2	e30	111	108	2.9	6.9
19	1.0	2.0	80	103	2.7	26	e15	e16	94	12	1.4	4.2
20	14	1.6	55	49	3.0	53	e38	e8.2	60	5.8	1.1	3.7
21	3.0	1.6	23	16	4.3	36	e10	e8.0	20	77	4.1	49
22	1.1	1.6	7.2	9.9	3.5	30	e80	e5.8	12	34	1.5	18
23	.79	1.4	4.6	112	3.5	42	e290	e5.6	32	11	9.4	5.9
24	.87	1.1	3.4	119	3.4	62	e91	e15	13	12	11	3.9
25	.90	1.0	2.9	33	2.7	47	e45	e17	8.3	9.2	2.4	3.1
26	.57	.90	e2.7	19	12	22	e22	e300	6.1	4.5	1.6	3.0
27	5.2	.90	e2.5	36	17	14	e13	e440	5.9	4.6	1.2	61
28	2.0	1.0	e2.4	23	16	12	e200	e180	5.5	5.5	1.2	51
29	.94	.93	e2.3	10	7.1	21	e840	e130	4.2	3.2	1.1	13
30	.76	.84	e2.2	e8.4	---	13	e250	e60	3.6	25	1.2	4.7
31	2.2	---	e4.0	e7.0	---	52	---	e35	---	8.2	1.1	---
TOTAL	84.10	228.85	226.92	1065.2	168.7	651.9	2142.4	3168.6	951.0	376.8	93.6	445.71
MEAN	2.71	7.63	7.32	34.4	5.82	21.0	71.4	102	31.7	12.2	3.02	14.9
MAX	19	112	80	204	17	62	840	720	175	108	22	149
MIN	.16	.84	.42	3.8	2.7	3.3	4.2	5.6	3.6	1.8	1.1	.72
CFSM	.17	.49	.47	2.20	.37	1.35	4.58	6.55	2.03	.78	.19	.95
IN.	.20	.55	.54	2.54	.40	1.55	5.11	7.56	2.27	.90	.22	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	7.92	22.2	24.2	20.5	26.7	31.5	28.4	26.9	15.8	18.7	11.8	8.38
MAX	53.1	102	76.4	49.5	57.1	64.6	71.4	102	48.5	95.5	54.1	48.2
(WY)	1987	1994	1991	1975	1975	1978	1996	1996	1978	1992	1979	1989
MIN	1.03	1.44	2.14	1.00	4.67	5.98	3.92	1.87	.39	2.55	1.28	.53
(WY)	1983	1982	1981	1981	1978	1994	1971	1988	1988	1991	1986	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	5255.24		9603.78			
ANNUAL MEAN	14.4		26.2		20.2	
HIGHEST ANNUAL MEAN					27.6	1979
LOWEST ANNUAL MEAN					11.7	1977
HIGHEST DAILY MEAN	438	May 18	840	Apr 29	1380	Nov 14 1993
LOWEST DAILY MEAN	.16	Oct 2	.16	Oct 2	.05	Sep 19 1983
ANNUAL SEVEN-DAY MINIMUM	.19	Sep 26	.46	Dec 8	.11	Sep 13 1983
INSTANTANEOUS PEAK FLOW			Unknown		2500	Jun 25 1978
INSTANTANEOUS PEAK STAGE			Unknown		9.61	Jun 25 1978
ANNUAL RUNOFF (CFSM)	.92		1.68		1.30	
ANNUAL RUNOFF (INCHES)	12.53		22.90		17.61	
10 PERCENT EXCEEDS	30		62		44	
50 PERCENT EXCEEDS	4.6		5.2		7.1	
90 PERCENT EXCEEDS	.54		.88		1.3	

e Estimated

03353630 LITTLE BUCK CREEK NEAR SOUTHPORT, IN

LOCATION.--Lat 39°40'11", long 86°04'57", in SW¼SW¼ sec.10, T.14 N., T.4 E., Marion County, Hydrologic Unit 05120201, on right bank 5 ft upstream from Emerson Avenue bridge in Indianapolis, 1.1 mi downstream from Bunker Creek, and 2.5 mi upstream from Derbyshire Creek.
DRAINAGE AREA.--5.75 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 783.17 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.40	e.32	4.5	e2.6	4.5	40	33	7.4	1.7	2.3	.09
2	.00	2.1	e.31	2.9	e2.4	4.1	14	13	9.0	1.5	1.6	.06
3	1.1	1.4	e.32	e1.9	e2.2	4.4	8.6	59	6.8	1.2	1.2	.02
4	.57	.73	e.32	e1.6	e2.1	3.0	6.7	294	5.3	.95	.91	.00
5	1.4	.58	e.32	e1.5	e2.0	6.8	5.1	99	4.0	.73	.70	.00
6	1.4	.53	e.31	e1.5	e1.9	27	4.5	32	39	.64	.57	.00
7	.52	3.4	e.30	e1.4	e1.9	14	3.8	16	76	.55	.47	.00
8	.30	1.0	e.29	e1.4	e3.5	8.8	3.2	54	20	.47	.37	.00
9	.20	.68	e.27	e1.3	8.2	7.4	2.8	42	12	.42	.28	.23
10	.15	.60	e.26	e1.3	5.1	6.7	2.5	56	9.3	.36	.20	.42
11	.10	24	e.26	e1.3	e2.5	3.7	2.3	73	37	.33	.17	.31
12	.08	3.7	e.28	e1.3	e2.2	3.5	2.2	21	30	.26	.14	.22
13	.07	1.6	.49	e1.2	e2.0	3.4	2.9	11	12	.21	.16	.20
14	.05	.99	.85	e1.2	e1.9	3.4	2.3	7.6	7.4	.22	.12	.23
15	.03	.80	.90	e1.6	e1.8	10	2.5	93	5.4	1.0	8.8	.22
16	.02	.72	.71	3.4	e1.7	6.1	3.7	70	3.9	.59	4.4	60
17	.02	.68	.63	117	e1.7	4.9	2.3	20	3.1	.37	1.6	14
18	.02	1.0	5.3	96	e1.6	3.8	2.2	9.8	75	12	1.3	3.6
19	.02	.72	23	48	1.6	8.4	6.0	6.0	66	2.7	1.3	1.7
20	.67	.65	14	16	1.7	18	12	4.5	30	1.4	.70	1.1
21	.93	.56	6.2	8.2	1.8	15	5.4	3.9	14	13	.45	19
22	.54	.53	2.3	6.6	1.8	13	11	2.7	8.8	8.9	.31	9.9
23	.41	.53	e1.6	71	2.4	20	150	2.7	26	4.0	.22	3.6
24	.31	e.52	e1.2	58	2.2	35	42	8.2	11	11	.62	2.2
25	.28	e.47	e1.0	16	2.0	23	18	8.0	6.7	13	.58	1.9
26	.22	e.43	e.94	10	4.2	11	14	141	4.6	4.4	.42	1.4
27	.26	e.40	e.84	17	6.9	7.2	7.9	164	3.6	3.0	.46	39
28	.37	e.37	e.79	9.7	9.2	6.3	123	71	2.9	5.6	.23	46
29	.50	e.38	e.75	e4.9	5.3	9.4	355	45	2.7	4.9	.18	9.8
30	.39	e.34	.73	e3.6	---	6.7	98	17	1.9	4.9	.13	5.4
31	.36	---	1.8	e3.0	---	22	---	10	---	3.7	.11	---
TOTAL	11.29	50.81	67.59	514.3	86.4	320.5	953.9	1487.4	540.8	104.00	31.00	220.60
MEAN	.36	1.69	2.18	16.6	2.98	10.3	31.8	48.0	18.0	3.35	1.00	7.35
MAX	1.4	24	23	117	9.2	35	355	294	76	13	8.8	60
MIN	.00	.34	.26	1.2	1.6	3.0	2.2	2.7	1.9	.21	.11	.00
CFSM	.06	.29	.38	2.89	.52	1.80	5.53	8.34	3.14	.58	.17	1.28
IN.	.07	.33	.44	3.33	.56	2.07	6.17	9.62	3.50	.67	.20	1.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	3.18	13.9	9.20	10.9	8.80	12.3	17.4	16.4	8.91	8.94	1.77	2.93
MAX	6.73	38.1	34.3	16.6	23.2	26.9	31.8	48.0	18.0	39.0	4.94	9.18
(WY)	1994	1994	1991	1996	1990	1991	1996	1996	1996	1992	1990	1993
MIN	.13	1.69	2.18	4.39	2.98	3.67	8.03	2.61	.18	.23	.17	.065
(WY)	1995	1996	1996	1992	1996	1994	1990	1993	1991	1991	1994	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	2130.20		4388.59			
ANNUAL MEAN	5.84		12.0		9.55	
HIGHEST ANNUAL MEAN					12.0	1996
LOWEST ANNUAL MEAN					5.92	1995
HIGHEST DAILY MEAN	153	May 18	355	Apr 29	531	Nov 14 1993
LOWEST DAILY MEAN	.00	Aug 27	.00	Oct 1	.00	Jun 27 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 27	.01	Sep 2	.00	Jun 27 1991
INSTANTANEOUS PEAK FLOW			587	Apr 29	1260	Jul 9 1992
INSTANTANEOUS PEAK STAGE			8.08	Apr 29	8.93	Jul 9 1992
ANNUAL RUNOFF (CFSM)	1.01		2.09		1.66	
ANNUAL RUNOFF (INCHES)	13.78		28.39		22.57	
10 PERCENT EXCEEDS	14		30		18	
50 PERCENT EXCEEDS	1.7		2.2		2.8	
90 PERCENT EXCEEDS	.08		.23		.16	

e Estimated

03353635 DERBYSHIRE CREEK AT SOUTHPORT, IN

LOCATION.--Lat 39°40'15", long 86°07'21", in NE¼SE¼ sec.07, T.14 N., R.04 E., Marion County Hydrologic Unit 05120201, on left bank, 10 ft downstream from bridge on Derbyshire Road, and 0.3 mi upstream from mouth.
DRAINAGE AREA.--1.76 mi².
PERIOD OF RECORD.--September 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 746.37 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.29	.20	2.0	e1.2	1.5	8.5	e13	e2.8	.88	.61	.17
2	.18	.63	.20	2.1	e1.1	1.4	4.1	e6.2	e3.5	.74	.55	.15
3	1.0	.29	.20	1.6	e1.0	1.3	3.1	e18	e2.5	.66	.52	.15
4	.30	.22	.20	e1.1	e.86	1.2	2.8	e56	e2.0	.59	.48	.15
5	.77	.21	.20	e.92	e.84	2.7	2.3	e28	e1.6	.57	.47	.13
6	.40	.21	.18	e.82	1.1	6.5	2.1	e14	e4.5	.52	.45	.13
7	.24	1.3	e.17	e.76	1.2	4.2	2.0	e7.2	16	.52	.45	.13
8	.20	.40	e.16	e.74	2.4	2.8	1.7	e15	4.9	.56	.40	.17
9	.18	.30	e.15	e.72	1.8	2.1	1.5	e13	3.5	.47	.35	.50
10	.17	.29	e.14	e.70	1.5	1.9	1.4	e15	2.9	.43	.33	.18
11	.16	6.8	e.14	e.72	1.4	1.7	1.3	e17	7.4	.40	.29	.14
12	.15	.86	e.15	e.74	1.3	1.7	1.2	e10	6.1	.39	.30	.11
13	.15	.46	e.17	e.76	1.2	1.6	1.5	e6.2	3.1	.36	.29	.10
14	.20	.34	.27	e.84	1.2	1.6	1.3	e4.0	2.4	.42	.26	.10
15	.20	.30	.21	e1.0	1.1	3.0	1.6	e18	2.0	.68	1.5	.09
16	.11	.28	.20	1.9	1.1	2.2	1.8	e10	1.7	.43	.77	12
17	.09	.40	.19	20	1.1	2.0	1.3	e6.8	1.4	.38	.38	1.8
18	.08	.44	2.0	15	1.0	1.7	1.3	e4.7	16	4.7	.64	.72
19	.10	.34	6.3	9.6	1.0	3.4	2.9	e3.4	15	.83	.40	.53
20	.66	.32	1.8	3.4	1.1	6.1	4.0	e2.6	5.5	.55	.30	.45
21	.33	.35	1.2	2.5	1.1	5.3	2.3	e2.1	2.8	3.7	.27	4.5
22	.21	.37	.97	2.3	1.1	4.9	4.5	e1.7	2.2	1.7	.25	1.7
23	.16	.37	e.76	16	1.1	6.1	27	e1.4	5.3	.86	.28	.87
24	.15	.33	e.66	13	1.1	7.6	e17	e2.5	2.5	1.9	.41	.70
25	.13	.30	e.60	4.3	.98	5.9	e10	e6.0	1.8	1.5	.23	.59
26	.15	.24	e.54	3.3	1.5	3.7	e6.0	e27	1.5	.76	.21	.58
27	.56	.23	e.52	4.2	2.2	3.1	e4.0	e32	1.3	1.2	.23	4.4
28	.28	.20	e.50	2.6	2.3	3.0	e12	e18	1.1	1.6	.22	4.1
29	.24	.20	e.47	e2.0	1.7	3.3	e70	e10	1.1	1.0	.20	1.5
30	.19	.21	e.44	e1.6	---	2.9	e33	e6.2	.92	1.1	.19	1.0
31	.21	---	.75	e1.4	---	4.8	---	e4.2	---	.79	.16	---
TOTAL	8.06	17.48	20.64	118.62	37.58	101.2	233.5	379.2	125.32	31.19	12.39	37.84
MEAN	.26	.58	.67	3.83	1.30	3.26	7.78	12.2	4.18	1.01	.40	1.26
MAX	1.0	6.8	6.3	20	2.4	7.6	70	56	16	4.7	1.5	12
MIN	.08	.20	.14	.70	.84	1.2	1.2	1.4	.92	.36	.16	.09
CFSM	.15	.33	.38	2.17	.74	1.85	4.42	6.95	2.37	.57	.23	.72
IN.	.17	.37	.44	2.51	.79	2.14	4.94	8.01	2.65	.66	.26	.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	.89	3.67	3.58	3.27	3.49	4.19	4.85	4.98	2.15	2.64	.90	.88
MAX	2.49	11.9	17.0	5.74	13.1	8.25	7.78	12.2	4.18	10.8	2.54	2.30
(WY)	1991	1994	1991	1990	1990	1991	1996	1996	1996	1992	1990	1993
MIN	.14	.58	.67	1.00	1.17	.87	2.78	.74	.28	.26	.17	.052
(WY)	1995	1996	1996	1995	1992	1994	1995	1992	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	586.00		1123.02			
ANNUAL MEAN	1.61		3.07		2.95	
HIGHEST ANNUAL MEAN					4.25	1990
LOWEST ANNUAL MEAN					1.60	1995
HIGHEST DAILY MEAN	55	May 18	70	Apr 29	273	Dec 30 1990
LOWEST DAILY MEAN	.08	Oct 18	.08	Oct 18	.03	Sep 14 1991
ANNUAL SEVEN-DAY MINIMUM	.11	Sep 25	.13	Oct 13	.04	Sep 13 1991
INSTANTANEOUS PEAK FLOW			280	Apr 29	1010	May 15 1990
INSTANTANEOUS PEAK STAGE			4.32	Apr 29	5.14	Jul 9 1992
ANNUAL RUNOFF (CFSM)	.91		1.74		1.68	
ANNUAL RUNOFF (INCHES)	12.39		23.74		22.81	
10 PERCENT EXCEEDS	2.8		6.8		5.3	
50 PERCENT EXCEEDS	.65		1.1		.99	
90 PERCENT EXCEEDS	.15		.18		.22	

e Estimated

03353636 LITTLE BUCK CREEK AT SOUTHPORT, IN

LOCATION.--Lat 39°39'54", long 86°08'11", in SW¼SW¼ sec.7, T.14 N., R.4 E., Marion County, Hydrologic Unit 05120201, on left bank 50 ft downstream from Southport Road bridge in Indianapolis.
DRAINAGE AREA.--10.8 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 725.50 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.7	.79	10	e6.8	8.9	68	46	16	2.5	2.9	.18
2	.46	4.2	.74	15	e6.2	7.9	29	27	20	2.2	1.9	.17
3	6.5	3.1	.80	e10	e5.6	7.9	20	61	14	1.8	1.4	.17
4	2.4	1.7	.78	e7.0	e5.2	5.0	17	518	12	1.5	1.1	.17
5	5.2	1.2	.80	e5.2	e4.9	15	13	124	8.8	1.3	.92	.14
6	4.5	1.1	.78	e4.5	e4.6	46	11	49	71	1.2	.78	.13
7	1.5	9.9	.74	e4.0	e4.3	29	10	35	120	1.1	.70	.15
8	.81	3.2	.69	e3.7	e6.0	16	8.6	64	39	1.1	.60	.32
9	.53	1.7	e.66	e3.5	12	12	7.4	55	25	.94	.49	1.8
10	.44	1.4	e.64	e3.4	9.4	9.1	6.5	70	18	.86	.51	.43
11	.39	48	e.62	e3.3	8.8	7.9	5.9	81	45	.73	.54	.41
12	.41	11	e.60	e3.2	6.7	7.7	5.5	37	48	.68	.43	.31
13	.42	4.9	e.70	e3.1	5.6	7.2	7.3	24	22	.63	.57	.25
14	.49	3.1	e1.0	e3.5	5.3	7.1	6.1	18	15	.79	.43	.24
15	.67	2.1	1.5	e4.0	4.8	25	6.8	81	12	2.5	9.7	.20
16	e.50	1.6	1.2	e7.0	4.0	15	8.8	64	8.2	1.3	8.1	111
17	e.38	1.9	1.0	161	3.9	12	5.9	32	6.4	.86	2.2	29
18	e.35	2.6	13	134	e3.5	9.3	5.3	22	110	30	5.0	7.5
19	e.50	1.8	40	81	3.1	20	16	16	88	5.2	2.1	3.5
20	4.9	1.4	19	29	3.4	39	27	12	43	2.3	1.1	2.4
21	2.0	1.3	10	17	3.4	34	15	11	21	23	.69	32
22	1.1	1.2	5.4	14	3.5	29	27	7.9	14	17	.49	20
23	.65	1.2	e4.2	108	3.9	36	201	7.8	35	6.3	.69	7.6
24	.67	1.2	e3.2	104	3.8	56	64	21	17	11	1.2	4.4
25	.63	1.1	e2.8	33	3.3	41	34	23	10	20	.58	3.3
26	.62	.98	e2.4	22	7.9	24	28	203	6.9	6.1	.42	2.9
27	2.1	.92	e2.1	31	14	17	19	316	5.2	5.8	.39	43
28	.95	.83	e2.0	17	20	16	136	124	4.2	8.6	.36	46
29	.74	.89	e1.9	e11	11	20	602	82	3.6	7.9	.30	16
30	.70	.81	e1.8	e9.0	---	16	102	36	2.9	8.0	.25	9.0
31	.78	---	e2.5	e7.6	---	34	---	22	---	5.0	.20	---
TOTAL	42.51	118.03	124.34	869.0	184.9	630.0	1513.1	2289.7	861.2	178.19	47.04	342.67
MEAN	1.37	3.93	4.01	28.0	6.38	20.3	50.4	73.9	28.7	5.75	1.52	11.4
MAX	6.5	48	40	161	20	56	602	518	120	30	9.7	111
MIN	.22	.81	.60	3.1	3.1	5.0	5.3	7.8	2.9	.63	.20	.13
CFSM	.13	.36	.37	2.60	.59	1.88	4.67	6.84	2.66	.53	.14	1.06
IN.	.15	.41	.43	2.99	.64	2.17	5.21	7.89	2.97	.61	.16	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	6.29	23.7	18.5	18.5	17.6	24.0	31.3	29.4	15.2	16.8	4.83	5.96
MAX	14.0	68.9	72.5	32.2	48.1	53.8	50.4	73.9	28.7	70.6	12.9	17.8
(WY)	1991	1994	1991	1993	1990	1991	1996	1996	1996	1992	1990	1993
MIN	.86	3.85	4.01	7.58	6.38	7.12	16.6	5.95	1.68	1.55	1.23	.36
(WY)	1995	1995	1996	1995	1996	1994	1990	1993	1991	1991	1994	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	3932.98		7200.68			
ANNUAL MEAN	10.8		19.7		17.7	
HIGHEST ANNUAL MEAN					19.9	1991
LOWEST ANNUAL MEAN					10.8	1995
HIGHEST DAILY MEAN	423	May 18	602	Apr 29	1110	Dec 30 1990
LOWEST DAILY MEAN	.16	Sep 29	.13	Sep 6	.13	Sep 30 1991
ANNUAL SEVEN-DAY MINIMUM	.19	Sep 25	.16	Sep 1	.16	Sep 26 1991
INSTANTANEOUS PEAK FLOW			1220	Apr 29	2120	Dec 30 1990
INSTANTANEOUS PEAK STAGE			8.88	Apr 29	10.63	Nov 14 1993
ANNUAL RUNOFF (CFSM)	1.00		1.82		1.63	
ANNUAL RUNOFF (INCHES)	13.55		24.80		22.21	
10 PERCENT EXCEEDS	18		45		34	
50 PERCENT EXCEEDS	4.9		5.2		6.5	
90 PERCENT EXCEEDS	.55		.52		.80	

e Estimated

03353637 LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN

LOCATION.--Lat 39°40'00", long 86°11'48", in SW¼SW¼ sec.10, T.14 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank, 10 ft upstream from bridge on South Belmont Street, and 2.2 mi above mouth.
DRAINAGE AREA.--17.0 mi².
PERIOD OF RECORD.--October 1989 to current year.
REVISED RECORDS.--WDR IN-95-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 666.20 above sea level.
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	44	e9.6	13	75	89	31	6.9	5.7	.11
2	.00	2.7	.00	28	e9.0	10	39	60	35	6.0	3.9	.05
3	4.8	.89	.00	e8.6	e8.5	13	30	98	28	5.1	2.9	.00
4	1.4	.43	.00	e7.1	e8.2	9.8	26	612	25	4.2	2.2	.00
5	5.2	.00	.00	e6.6	e8.0	15	23	176	21	3.8	1.8	.00
6	4.9	.00	.00	e6.3	e8.0	49	20	84	107	3.3	1.5	.00
7	.85	8.6	.00	e6.0	e52	38	18	59	149	2.9	1.2	.00
8	.00	2.8	.00	e5.8	56	26	16	99	60	3.5	1.1	.00
9	.00	1.2	.00	e5.7	63	22	15	95	40	2.4	.90	2.0
10	.00	.57	.00	e5.6	40	18	13	102	30	2.0	.91	.03
11	.00	57	.00	e5.6	e10	11	12	123	56	1.9	1.1	.00
12	.00	18	.00	e5.6	e8.0	10	11	63	69	1.6	.82	.00
13	.00	9.0	.00	e5.6	e7.0	9.3	13	46	34	1.4	.85	.00
14	.00	5.8	.00	e5.6	e6.2	8.9	13	39	27	1.2	.71	.00
15	.00	4.2	.00	79	e5.5	29	12	108	21	5.3	4.4	.00
16	.00	3.3	.00	67	e5.1	21	16	94	16	2.2	16	107
17	.00	3.2	.00	218	e4.7	16	12	52	13	1.5	4.1	42
18	.00	4.6	16	143	e4.2	12	9.9	41	135	45	9.4	13
19	.00	3.2	57	115	3.8	23	24	34	107	11	4.8	6.3
20	5.2	2.5	39	56	3.7	45	36	29	62	4.8	1.9	3.9
21	1.2	2.1	e21	27	3.7	40	23	27	34	29	1.2	37
22	.29	2.1	e11	24	3.7	35	37	23	26	27	.87	32
23	.00	2.0	e6.6	97	4.2	38	201	23	44	13	.89	14
24	.00	1.9	e5.0	140	4.3	60	87	39	28	9.7	3.2	8.0
25	.00	1.7	e4.5	48	3.5	51	49	43	21	28	.90	5.0
26	.00	1.3	e4.0	34	8.6	32	43	216	16	11	.62	5.4
27	1.1	.00	e3.8	44	16	26	32	406	13	9.0	.65	44
28	.00	.00	e3.6	34	25	24	116	158	11	17	.63	56
29	.00	.00	e3.4	e14	16	29	726	122	9.5	13	.46	23
30	.00	.00	e3.4	e12	---	24	163	57	8.3	13	.32	13
31	.00	---	26	e10	---	37	---	40	---	9.7	.21	---
TOTAL	24.94	139.09	204.30	1308.1	405.5	795.0	1910.9	3257	1276.8	295.4	76.14	411.79
MEAN	.80	4.64	6.59	42.2	14.0	25.6	63.7	105	42.6	9.53	2.46	13.7
MAX	5.2	57	57	218	63	60	726	612	149	45	16	107
MIN	.00	.00	.00	5.6	3.5	8.9	9.9	23	8.3	1.2	.21	.00
CFSM	.05	.27	.39	2.48	.82	1.51	3.75	6.18	2.50	.56	.14	.81
IN.	.05	.30	.45	2.86	.89	1.74	4.18	7.13	2.79	.65	.17	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	8.61	33.5	24.9	26.8	23.4	31.2	41.4	39.5	22.1	22.5	7.18	8.20
MAX	20.6	91.9	99.4	50.1	54.5	68.0	63.7	105	42.6	85.7	18.3	28.6
(WY)	1991	1994	1991	1993	1990	1991	1996	1996	1996	1992	1990	1993
MIN	.22	4.07	4.67	8.93	8.87	9.58	20.3	9.22	4.99	2.67	1.35	.13
(WY)	1995	1995	1995	1995	1995	1994	1995	1992	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	4438.13		10104.96			
ANNUAL MEAN	12.2		27.6		24.1	
HIGHEST ANNUAL MEAN					30.3	1993
LOWEST ANNUAL MEAN					11.9	1995
HIGHEST DAILY MEAN	434	May 18	726	Apr 29	1390	Dec 30 1990
LOWEST DAILY MEAN	.00	Aug 26	.00	Oct 1	.00	Sep 8 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 26	.00	Oct 8	.00	Sep 8 1991
INSTANTANEOUS PEAK FLOW			1390	Apr 29	2300	Dec 30 1990
INSTANTANEOUS PEAK STAGE			8.97	Apr 29	11.21	Nov 14 1993
ANNUAL RUNOFF (CFSM)	.72		1.62		1.42	
ANNUAL RUNOFF (INCHES)	9.71		22.11		19.25	
10 PERCENT EXCEEDS	24		62		49	
50 PERCENT EXCEEDS	4.5		8.9		9.7	
90 PERCENT EXCEEDS	.00		.00		.85	

e Estimated

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN

LOCATION.--Lat 39°45'39", long 86°30'54", in NW¼NE¼ sec.10, T.15 N., R.1 W., Hendricks County, Hydrologic Unit 05120201, 600 ft upstream of U.S. Highway 36 bridge, at Danville Filtration Plant, 0.6 mi upstream from small left bank tributary, and 7 mi west of Avon.
DRAINAGE AREA.--28.8 mi². Relocation of gage changed drainage area by only .033 mi², so no change was made to the published drainage area.
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 above sea level. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage on upstream side of bridge at same datum. Oct. 23, 1968, to Aug. 6, 1970, water-stage recorder on upstream side of bridge at same datum. Prior to Nov. 14, 1994, water-stage recorder on downstream side of bridge at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 16.0 ft, from floodmarks, discharge, 6,660 ft³/s, from contracted-opening measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.3	1.4	e5.0	e11	25	130	171	42	11	4.4	.29
2	.00	1.5	1.3	21	e9.0	19	62	99	38	9.9	3.5	.21
3	1.2	.36	1.4	46	e7.4	14	42	206	37	8.4	3.0	.14
4	.01	.05	1.3	23	e6.6	15	31	705	39	6.3	2.7	.07
5	.00	.04	1.4	e15	e6.0	39	23	300	27	5.1	2.4	.04
6	.00	.11	1.3	e11	e5.6	109	21	158	154	4.5	2.2	.04
7	.00	5.2	1.2	e7.8	e7.0	57	19	116	148	4.4	2.0	.03
8	.00	1.5	1.1	e6.0	46	32	16	498	68	6.9	1.9	.29
9	.00	1.0	e.80	e4.9	42	24	14	359	50	4.9	1.7	.46
10	.73	1.2	e.60	e4.3	32	20	13	328	40	3.5	1.5	.13
11	.82	20	e.45	e3.8	17	15	13	266	147	2.9	1.4	.09
12	.25	8.4	e.38	e3.4	11	15	13	128	179	2.8	1.4	.02
13	.14	4.3	e.60	e3.1	11	15	12	80	74	2.8	1.3	.04
14	.22	2.9	2.2	e3.5	9.8	15	10	54	46	2.5	1.2	.04
15	.20	2.3	2.2	e4.5	9.0	16	13	111	33	2.6	1.1	.03
16	.07	2.0	2.0	e8.0	e8.0	14	12	126	26	2.1	1.2	4.3
17	.04	2.0	1.6	467	e7.2	13	9.7	75	22	2.1	.92	1.6
18	.07	1.9	4.3	408	e6.6	11	10	49	129	132	1.2	1.1
19	.06	1.7	72	170	6.2	13	85	35	70	34	1.3	.86
20	1.7	1.7	112	72	6.2	10	207	27	43	14	1.1	.88
21	.63	1.4	29	36	6.4	9.4	68	23	30	106	.85	3.0
22	.38	1.4	11	26	7.6	13	203	18	34	136	.67	2.4
23	.30	1.3	e7.0	145	10	16	631	16	192	40	1.5	1.6
24	.18	1.3	e4.5	304	8.1	95	241	28	82	20	18	1.3
25	.03	1.2	e3.2	88	7.3	194	128	22	46	13	3.3	.76
26	.07	1.4	e2.4	48	25	73	85	166	30	8.4	1.8	.73
27	.77	1.5	e2.0	55	52	42	53	723	22	6.2	1.6	11
28	.33	1.4	e1.6	32	88	34	114	287	18	5.6	1.2	4.4
29	.28	1.3	e1.7	24	34	31	1100	172	15	4.9	.93	2.2
30	.27	1.4	e2.0	18	---	27	321	97	13	6.7	.65	.93
31	.81	---	e3.0	e14	---	57	---	60	---	6.6	.50	---
TOTAL	9.56	74.06	276.93	2077.3	503.0	1082.4	3699.7	5503	1894	616.1	68.42	38.98
MEAN	.31	2.47	8.93	67.0	17.3	34.9	123	178	63.1	19.9	2.21	1.30
MAX	1.7	20	112	467	88	194	1100	723	192	136	18	11
MIN	.00	.04	.38	3.1	5.6	9.4	9.7	16	13	2.1	.50	.02
CFSM	.01	.09	.31	2.33	.60	1.21	4.28	6.16	2.19	.69	.08	.05
IN.	.01	.10	.36	2.68	.65	1.40	4.78	7.11	2.45	.80	.09	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

MEAN	9.35	29.6	39.7	37.1	46.8	60.2	53.2	39.6	18.2	19.8	8.61	6.57
MAX	82.0	156	154	131	151	145	123	178	75.9	134	69.4	109
(WY)	1987	1986	1991	1974	1990	1978	1996	1996	1974	1979	1979	1989
MIN	.000	.053	.035	.062	2.82	8.86	9.14	3.87	.51	.14	.026	.003
(WY)	1965	1965	1964	1977	1964	1994	1971	1976	1988	1991	1964	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1959 - 1996	
ANNUAL TOTAL	6165.69		15843.45			
ANNUAL MEAN	16.9		43.3		30.7	
HIGHEST ANNUAL MEAN					55.7	1973
LOWEST ANNUAL MEAN					6.35	1966
HIGHEST DAILY MEAN	539	May 18	1100	Apr 29	1790	Jul 14 1962
LOWEST DAILY MEAN	.00	Aug 25	.00	Oct 1	.00	Oct 3 1960
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 25	.11	Oct 4	.00	Oct 3 1960
INSTANTANEOUS PEAK FLOW			2220	Apr 29	3330	Jul 14 1962
INSTANTANEOUS PEAK STAGE			8.22	Apr 29	12.13	Jul 13 1979
ANNUAL RUNOFF (CFSM)	.59		1.50		1.07	
ANNUAL RUNOFF (INCHES)	7.96		20.46		14.49	
10 PERCENT EXCEEDS	31		127		72	
50 PERCENT EXCEEDS	4.2		7.3		8.1	
90 PERCENT EXCEEDS	.01		.29		.20	

e Estimated

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 downstream side of bridge on State Highway 42 at Mooresville, 0.9 mi downstream from McCracken Creek, 2.0 mi upstream from East Fork White Lick Creek, and at mile 11.4.
DRAINAGE AREA.--212 mi².
PERIOD OF RECORD.--August 1957 to current year.
GAGE.--Water-stage recorder. Datum of gage is 644.64 ft above sea level. Dec. 10, 1963 to Sept. 30, 1964, nonrecording gage at bridge 1,950 ft upstream at datum 1.39 ft higher.
REMARKS.--Records good except for Oct. 1-Nov. 5 and June 11-Aug. 1 which are fair, and estimated daily discharges which are poor. Pumpage from a well field above gage affects low flows.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 22.5 ft, from levels to high-water mark by State of Indiana, Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	15	11	27	e110	168	889	998	418	212	78	28
2	3.4	35	9.5	50	e100	143	538	692	428	193	68	27
3	5.6	32	8.3	100	e90	110	339	927	358	180	60	26
4	14	22	8.1	e84	e84	93	274	2530	343	169	55	25
5	11	17	8.7	e70	e80	114	209	2050	283	157	52	25
6	12	e13	8.7	e60	e76	393	174	1440	469	146	49	23
7	6.6	28	8.9	e52	e80	469	159	842	883	137	45	24
8	5.3	34	8.4	e46	102	254	140	1520	495	130	42	24
9	4.9	26	e8.0	e40	133	178	126	2640	370	127	40	35
10	4.5	19	e7.8	e36	121	142	116	1310	314	121	38	28
11	3.8	148	e7.6	e33	123	123	110	1740	423	115	37	25
12	4.4	121	e7.4	e30	102	112	106	904	1210	109	35	23
13	4.7	57	e8.0	e28	87	110	108	613	531	104	34	22
14	4.1	39	11	e29	87	110	104	482	354	100	33	21
15	3.9	30	11	e32	83	188	104	667	460	98	33	19
16	4.0	23	11	e40	71	150	118	1220	325	97	32	136
17	4.4	20	9.5	772	65	123	99	700	250	93	32	110
18	4.4	20	32	1350	63	109	94	497	524	299	32	47
19	5.7	17	120	1300	67	109	133	375	746	516	34	33
20	12	16	e90	452	64	161	713	291	673	411	32	28
21	25	14	e60	276	65	151	349	246	533	320	30	79
22	17	13	e45	196	65	138	535	214	452	481	29	80
23	12	13	e35	363	68	158	3060	195	413	485	32	45
24	7.7	12	e27	1600	73	272	1480	208	432	386	70	35
25	6.3	11	e24	621	66	609	771	391	397	292	45	29
26	6.9	11	e21	360	72	556	592	718	351	230	35	28
27	9.6	11	e19	393	169	309	415	3050	311	180	34	818
28	13	11	e17	264	365	225	583	2620	281	147	34	590
29	11	11	e16	216	258	209	4030	1540	254	124	32	172
30	10	11	e15	159	---	188	1950	764	232	104	31	101
31	11	---	e19	e130	---	325	---	548	---	90	30	---
TOTAL	252.4	850	692.9	9209	2989	6499	18418	32932	13513	6353	1263	2706
MEAN	8.14	28.3	22.4	297	103	210	614	1062	450	205	40.7	90.2
MAX	25	148	120	1600	365	609	4030	3050	1210	516	78	818
MIN	3.4	11	7.4	27	63	93	94	195	232	90	29	19
CFSM	.04	.13	.11	1.40	.49	.99	2.90	5.01	2.12	.97	.19	.43
IN.	.04	.15	.12	1.62	.52	1.14	3.23	5.78	2.37	1.11	.22	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

MEAN	68.3	205	273	258	324	428	386	298	154	147	83.6	59.0
MAX	547	1193	975	845	942	1154	1327	1062	550	764	567	712
(WY)	1987	1994	1991	1969	1971	1963	1964	1996	1974	1979	1979	1989
MIN	5.97	9.86	8.83	9.60	35.7	98.2	83.1	46.3	12.9	11.7	5.10	3.51
(WY)	1965	1968	1964	1977	1964	1966	1971	1976	1988	1966	1966	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1957 - 1996	
ANNUAL TOTAL	37667.2		95677.3			
ANNUAL MEAN	103		261		224	
HIGHEST ANNUAL MEAN					372	1974
LOWEST ANNUAL MEAN					51.1	1966
HIGHEST DAILY MEAN	3350	May 19	4030	Apr 29	12100	Dec 30 1990
LOWEST DAILY MEAN	3.4	Oct 2	3.4	Oct 2	.68	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	4.2	Oct 11	4.2	Oct 11	1.8	Sep 24 1988
INSTANTANEOUS PEAK FLOW			6090	Apr 29	19000	Jul 13 1979
INSTANTANEOUS PEAK STAGE			17.26	Apr 29	23.31	Jul 13 1979
ANNUAL RUNOFF (CFSM)	.49		1.23		1.06	
ANNUAL RUNOFF (INCHES)	6.61		16.79		14.36	
10 PERCENT EXCEEDS	165		635		474	
50 PERCENT EXCEEDS	48		97		89	
90 PERCENT EXCEEDS	7.5		11		13	

e Estimated

03354000 WHITE RIVER NEAR CENTERTON, IN

(Former National stream-quality accounting network station)

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 mi downstream from White Lick Creek, 1 mi south of Centerton, and at mile 199.3.
DRAINAGE AREA.--2,444 mi².
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 above sea level (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953. July 1953 to Aug. 7, 1975, water-stage recorder at site 0.4 mi downstream at same datum.
REMARKS.--No estimated daily discharges. Records good. Flow regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 22.8 ft at Martinsville site (from information by Indiana State Highway Commission) and 21.9 ft at site 0.4 mi downstream (from information by Corps of Engineers), discharge, 90,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	386	429	585	2210	5270	6060	17100	5560	1570	1420	487
2	272	601	436	842	1940	3550	5580	14700	4900	1480	1230	459
3	313	692	421	862	1680	2760	4970	10600	4580	1400	1140	464
4	716	555	414	793	1380	2290	4030	15300	4100	1330	1030	444
5	741	481	411	776	1360	2040	3520	19800	3620	1240	963	444
6	780	439	387	754	1330	3550	2780	14500	4670	1180	901	418
7	587	616	372	711	1360	4010	2520	14300	7270	1120	856	410
8	483	799	389	660	1460	3330	2210	12500	5310	1250	816	405
9	444	601	393	633	1740	2700	2120	19100	5040	1180	772	680
10	470	531	369	633	1750	2240	1880	19000	5180	1070	735	605
11	437	1510	355	627	1820	2040	1810	18800	6670	1030	703	535
12	391	2010	337	610	1680	1880	1660	14700	8290	965	719	465
13	348	1180	329	599	1520	1780	1670	11200	5800	930	696	450
14	318	1020	361	614	1440	1700	1680	8040	4720	897	647	399
15	296	947	397	705	1340	2700	1580	8090	5000	1070	621	383
16	297	785	390	759	1280	2070	1800	13900	4060	1040	698	844
17	305	674	396	3670	1260	1870	1630	8460	3570	948	621	2630
18	304	656	557	7280	1130	1680	1500	6440	5190	3840	650	1160
19	305	612	1480	11200	1090	1710	1830	5220	4870	2800	927	830
20	348	583	1420	10800	1060	2630	4000	4330	4570	2570	690	680
21	599	569	938	10700	1060	2870	3190	3870	3480	2240	610	876
22	482	510	814	6910	1030	3030	3700	3510	2930	5600	595	1800
23	431	520	698	4750	1000	3080	11300	2990	3130	3680	545	1030
24	401	505	671	9300	1000	3870	12800	2880	3180	2790	1340	857
25	354	490	616	8490	1040	4780	11700	4090	3230	2330	837	743
26	342	487	549	7770	1040	4910	10800	6940	2730	1840	678	648
27	353	474	531	5850	1590	4730	6740	15200	2300	1510	673	1990
28	406	470	517	4630	5010	3680	6740	18800	2020	1600	631	4630
29	365	451	482	3920	6600	3120	22500	17200	1830	1520	591	2220
30	349	450	458	3180	---	2780	21300	10400	1670	1450	540	1520
31	351	---	488	2610	---	3480	---	7840	---	1760	519	---
TOTAL	12875	20604	16805	112223	49200	92130	165600	349800	129470	55230	24394	29506
MEAN	415	687	542	3620	1697	2972	5520	11280	4316	1782	787	984
MAX	780	2010	1480	11200	6600	5270	22500	19800	8290	5600	1420	4630
MIN	272	386	329	585	1000	1680	1500	2880	1670	897	519	383
CFSM	.17	.28	.22	1.48	.69	1.22	2.26	4.62	1.77	.73	.32	.40
IN.	.20	.31	.26	1.71	.75	1.40	2.52	5.32	1.97	.84	.37	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

MEAN	841	1884	2592	3292	3787	4577	4418	3092	2310	1838	1127	908
MAX	3709	11760	8248	17760	10430	10390	11530	11280	10270	6629	6001	8417
(WY)	1987	1994	1958	1950	1950	1963	1964	1996	1958	1979	1979	1989
MIN	281	320	305	302	460	1207	1097	799	419	344	338	213
(WY)	1964	1954	1964	1977	1964	1966	1971	1976	1988	1954	1966	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1948 - 1996	
ANNUAL TOTAL	594033		1057837			
ANNUAL MEAN	1627		2890		2548	
HIGHEST ANNUAL MEAN					4115	1950
LOWEST ANNUAL MEAN					812	1954
HIGHEST DAILY MEAN	19600	May 19	22500	Apr 29	47100	Apr 22 1964
LOWEST DAILY MEAN	272	Oct 2	272	Oct 2	138	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	297	Sep 27	310	Oct 13	157	Sep 27 1954
INSTANTANEOUS PEAK FLOW			27600	Apr 29	50500	Apr 22 1964
INSTANTANEOUS PEAK STAGE			15.61	Apr 29	18.38	Dec 31 1990
ANNUAL RUNOFF (CFSM)	.67		1.18		1.04	
ANNUAL RUNOFF (INCHES)	9.04		16.10		14.17	
10 PERCENT EXCEEDS	3330		7270		5720	
50 PERCENT EXCEEDS	1020		1330		1350	
90 PERCENT EXCEEDS	369		409		405	

03357000 WHITE RIVER AT SPENCER, IN

LOCATION.--Lat 39°16'49", long 86°45'42", in NE¼NE¼ sec.29, T.10 N., R. 3 W., Owen County, Hydrologic Unit 05120202, on right bank at upstream side of county road bridge at the south edge of Spencer, 3.3 mi upstream from McBrides Creek, and at mile 165.9.

DRAINAGE AREA.--2,988 mi².

PERIOD OF RECORD.--July 1925 to September 1971 (discharge), October 1971 to current year (gage heights only).

REVISED RECORDS.--WDR IN-95-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 526.04 ft above sea level. Prior to Dec. 26, 1940, nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 23.99 ft Jan. 1, 1991; minimum gage height, 0.88 ft Sept. 25, 30, and Oct. 1, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.5 ft Mar. 26, 1913, from flood marks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.63 ft Apr. 30; minimum gage height, 2.74 ft Oct. 1, 2, and 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.74	2.94	2.91	3.22	6.13	9.32	11.40	19.78	10.44	5.03	4.57	3.54
2	2.74	2.99	3.03	3.70	5.75	7.53	10.61	18.14	9.49	4.90	4.33	3.54
3	2.76	3.44	3.03	3.91	5.37	6.47	---	16.38	9.11	4.80	4.17	3.54
4	3.19	3.30	---	3.84	5.12	5.96	---	16.41	8.45	4.66	4.03	3.54
5	3.39	3.16	---	3.85	4.77	5.75	---	19.25	7.87	4.52	3.91	3.54
6	3.47	3.15	---	3.83	4.64	7.44	---	18.58	9.78	4.40	3.81	3.54
7	3.34	3.11	---	4.95	4.69	8.34	---	17.47	12.76	4.35	3.73	3.54
8	3.15	3.62	---	5.18	4.85	7.45	---	17.83	10.65	4.32	3.65	3.54
9	3.06	3.42	2.92	4.96	5.19	6.62	---	17.95	9.74	4.36	3.58	3.54
10	3.04	3.27	2.86	4.26	5.18	6.01	---	18.76	10.76	4.19	3.54	3.47
11	3.03	3.75	2.88	3.49	5.27	5.70	---	18.96	11.95	4.11	3.54	3.47
12	2.96	5.58	2.83	3.43	5.14	5.49	5.04	18.39	13.44	4.00	3.54	3.47
13	2.91	4.47	2.82	3.38	4.93	5.29	4.95	16.84	10.86	3.94	3.54	3.47
14	2.82	4.10	2.85	3.40	4.81	5.16	5.05	13.84	9.32	3.91	3.54	3.54
15	2.78	4.04	2.91	3.50	4.67	6.97	4.94	12.46	9.54	3.88	5.48	3.53
16	2.76	3.82	2.91	3.82	4.55	5.92	5.11	15.52	8.41	4.07	3.54	3.53
17	2.76	3.64	2.90	8.39	4.53	5.55	4.96	15.30	7.89	3.95	3.54	5.85
18	2.78	3.51	3.14	12.48	4.35	5.27	4.84	11.60	9.22	5.71	3.54	4.28
19	2.76	3.47	4.62	14.12	4.31	5.33	5.24	10.19	9.19	6.40	3.81	3.72
20	2.85	3.39	5.09	14.54	4.23	6.56	9.05	9.10	8.94	5.99	3.58	3.54
21	3.12	3.35	4.29	14.07	4.22	6.95	8.30	8.42	7.75	5.48	3.54	3.73
22	3.11	3.28	4.04	12.36	4.21	7.09	8.77	7.93	7.05	8.74	3.54	5.18
23	3.04	3.24	3.77	11.09	4.17	7.38	14.88	7.29	6.79	7.33	3.54	4.11
24	2.98	3.23	3.64	14.13	4.15	10.11	17.61	7.09	6.95	6.38	4.09	3.73
25	2.92	3.18	3.54	13.12	4.15	11.45	17.07	8.22	7.02	5.84	3.72	3.55
26	2.90	3.16	3.40	12.49	4.56	10.67	16.09	11.46	6.54	5.27	3.54	3.53
27	2.91	---	3.35	10.61	5.27	10.38	12.69	16.67	6.02	4.80	3.54	4.31
28	2.92	---	3.28	9.15	8.61	8.66	14.07	18.80	5.68	4.78	3.54	8.43
29	2.95	2.95	3.20	8.30	10.11	7.83	19.57	18.81	5.41	4.71	3.54	5.95
30	2.90	2.93	3.16	7.37	---	7.31	21.58	17.16	5.19	4.51	3.54	4.90
31	2.88	---	3.15	6.63	---	7.45	---	12.98	---	4.98	3.54	---
MEAN	2.97	---	---	7.47	5.10	7.21	---	14.76	8.74	4.98	3.76	4.04
MAX	3.47	---	---	14.54	10.11	11.45	---	19.78	13.44	8.74	5.48	8.43
MIN	2.74	---	---	3.22	4.15	5.16	---	7.09	5.19	3.88	3.54	3.47

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 mi west of Groveland, and 4.5 mi east of Bainbridge.
DRAINAGE AREA.--3.00 mi².
PERIOD OF RECORD.--July 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 828.44 ft above sea level (Indiana Department of Highways bench mark).
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.02	.11	e.84	4.9	19	5.5	3.6	1.3	.06	.00
2	.00	.02	.02	.24	e.64	4.0	9.5	3.9	4.3	1.4	.03	.00
3	.01	.01	.02	.21	e.48	1.8	6.7	13	4.4	1.4	.03	.00
4	.00	.01	.02	e.15	e.41	1.5	5.5	49	3.7	1.0	.02	.00
5	.00	.01	.02	e.11	e.37	8.5	4.2	12	2.9	.46	.02	.00
6	.00	.01	.02	e.09	e.35	14	3.6	7.7	20	.38	.02	.00
7	.00	.04	.02	e.08	e.40	8.0	3.0	7.3	9.3	.35	.02	.00
8	.00	.02	.02	e.07	1.7	4.7	2.3	48	5.5	.34	.02	.00
9	.00	.02	.01	e.07	2.4	3.2	1.9	17	4.6	.27	.02	.00
10	.00	.02	.00	e.06	2.2	2.4	1.7	32	12	.19	.02	.00
11	.00	.10	.00	e.06	1.6	2.2	1.7	14	36	.14	.02	.00
12	.00	.05	.01	e.06	1.1	2.4	1.5	8.3	13	.14	.02	.00
13	.00	.03	.09	e.05	1.1	2.3	1.4	6.3	6.2	.14	.01	.00
14	.00	.03	.07	e.07	1.2	2.3	1.2	5.4	4.5	.13	.01	.00
15	.00	.03	.03	e.12	.95	2.2	1.5	7.2	3.3	.14	.01	.00
16	.00	.03	.03	e.46	.88	1.8	1.4	6.4	2.7	.13	.01	.03
17	.00	.03	.03	38	.92	1.6	1.1	5.5	2.5	.13	.01	.00
18	.00	.03	.06	25	.83	1.4	1.1	4.7	10	.13	.01	.00
19	.00	.03	.24	14	.82	1.6	25	4.0	4.2	.12	.02	.00
20	.00	.03	.24	6.3	.84	1.3	17	3.7	3.1	.11	.01	.00
21	.00	.03	.11	3.7	.83	1.9	7.5	3.5	2.5	2.0	.01	.01
22	.00	.02	e.08	2.7	.90	2.0	38	3.0	5.0	2.5	.01	.00
23	.00	.02	e.07	21	1.1	2.7	54	3.0	5.9	.72	.01	.00
24	.00	.02	e.06	20	.88	15	15	6.1	3.9	.38	.01	.00
25	.00	.02	e.05	8.6	.86	28	11	5.0	2.6	.34	.00	.00
26	.00	.02	e.05	6.3	1.9	9.5	9.1	31	2.0	.20	.00	.00
27	.01	.02	e.04	7.0	7.7	6.5	6.6	65	1.8	.12	.00	.00
28	.01	.02	e.03	4.5	11	5.7	20	37	1.6	.08	.00	.00
29	.00	.02	e.03	3.2	6.1	5.7	100	13	1.5	.07	.00	.00
30	.00	.02	e.04	2.1	---	4.9	11	6.2	1.4	.11	.00	.00
31	.01	---	e.05	e1.4	---	18	---	4.5	---	.13	.00	---
TOTAL	0.04	0.77	1.58	165.81	51.30	172.0	382.5	438.2	184.0	15.05	0.43	0.04
MEAN	.001	.026	.051	5.35	1.77	5.55	12.7	14.1	6.13	.49	.014	.001
MAX	.01	.10	.24	38	11	28	100	65	36	2.5	.06	.03
MIN	.00	.01	.00	.05	.35	1.3	1.1	3.0	1.4	.07	.00	.00
CFSM	.00	.01	.02	1.78	.59	1.85	4.25	4.71	2.04	.16	.00	.00
IN.	.00	.01	.02	2.06	.64	2.13	4.74	5.43	2.28	.19	.01	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	1.21	4.19	5.02	3.72	5.55	6.78	5.72	4.24	2.17	2.40	1.24	1.15
MAX	5.80	20.6	18.4	13.5	17.1	19.1	12.7	16.1	6.53	12.9	7.90	12.8
(WY)	1987	1986	1991	1974	1971	1978	1996	1981	1973	1979	1979	1989
MIN	.000	.019	.011	.000	.76	1.46	.92	.14	.007	.019	.001	.000
(WY)	1989	1977	1977	1977	1978	1981	1971	1976	1988	1988	1991	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	529.09		1411.72			
ANNUAL MEAN	1.45		3.86		3.60	
HIGHEST ANNUAL MEAN					5.71	1973
LOWEST ANNUAL MEAN					1.55	1995
HIGHEST DAILY MEAN	76	Mar 7	100	Apr 29	218	Nov 19 1985
LOWEST DAILY MEAN	.00	Sep 4	.00	Oct 1	.00	Aug 18 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 4	.00	Oct 4	.00	Aug 26 1970
INSTANTANEOUS PEAK FLOW			293	May 27	940	Sep 14 1989
INSTANTANEOUS PEAK STAGE			3.84	May 27	6.50	Sep 14 1989
ANNUAL RUNOFF (CFSM)	.48		1.29		1.20	
ANNUAL RUNOFF (INCHES)	6.56		17.51		16.29	
10 PERCENT EXCEEDS	3.1		9.6		7.4	
50 PERCENT EXCEEDS	.21		.24		1.0	
90 PERCENT EXCEEDS	.00		.00		.02	

e Estimated

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 mi southwest of Reelsville, and 4.1 mi upstream from Mill Creek.
DRAINAGE AREA.--326 mi².
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 above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partly regulated by Soil Conservation Service control structures on tributaries to Little Walnut Creek beginning in 1971.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	12	42	e185	244	1150	2040	753	199	116	11
2	11	10	12	82	e175	216	743	1230	807	190	94	10
3	20	19	11	78	e167	176	518	1180	636	355	81	10
4	23	14	9.8	e70	e160	151	408	3600	584	220	71	9.6
5	11	12	9.6	e62	e155	204	328	3140	495	182	64	8.8
6	8.7	12	9.1	e58	e150	672	270	2000	650	164	57	8.3
7	8.2	23	8.8	e56	e170	668	245	1390	1070	151	49	7.9
8	7.4	32	8.6	e54	218	350	225	2420	760	144	50	9.9
9	6.4	28	8.4	e52	261	256	204	5570	776	140	46	41
10	5.9	25	7.7	e51	225	221	190	3050	988	128	37	19
11	5.7	76	e7.2	e50	193	207	178	3590	2170	116	33	12
12	5.2	95	e7.0	e49	166	190	170	1770	2630	108	30	9.5
13	4.5	66	e7.6	e48	150	181	165	1150	1300	102	28	7.8
14	4.5	48	12	e50	144	178	157	874	886	97	27	7.2
15	5.0	35	12	e56	141	544	155	929	727	93	24	7.0
16	4.6	28	12	e80	123	233	167	1340	623	89	22	69
17	4.4	25	12	1270	107	195	156	984	501	83	21	81
18	4.5	23	24	1660	102	176	144	753	889	83	23	41
19	5.3	20	126	1880	115	175	158	602	723	279	27	31
20	8.7	17	244	671	111	223	912	503	645	180	24	25
21	12	15	e170	411	112	205	495	441	475	166	19	28
22	11	15	e110	304	109	189	1270	390	396	485	17	42
23	9.4	14	e74	518	110	217	4120	347	572	444	30	35
24	8.4	13	e54	1980	109	575	2480	331	610	271	32	30
25	9.5	12	e40	902	101	1770	1350	518	434	208	20	25
26	9.8	12	e32	535	108	1060	1030	1400	335	174	15	23
27	12	12	e27	478	160	571	764	5160	283	137	17	27
28	9.6	11	e23	349	460	425	973	4380	250	112	20	38
29	8.8	11	e21	310	371	386	6670	3700	233	126	15	35
30	8.6	11	e19	237	---	343	5340	1520	210	112	13	30
31	8.5	---	e25	e195	---	416	---	983	---	122	12	---
TOTAL	274.6	753	1155.8	12638	4858	11617	31135	57285	22411	5460	1134	739.0
MEAN	8.86	25.1	37.3	408	168	375	1038	1848	747	176	36.6	24.6
MAX	23	95	244	1980	460	1770	6670	5570	2630	485	116	81
MIN	4.4	11	7.0	42	101	151	144	331	210	83	12	7.0
CFSM	.03	.08	.11	1.25	.51	1.15	3.18	5.67	2.29	.54	.11	.08
IN.	.03	.09	.13	1.44	.55	1.33	3.55	6.54	2.56	.62	.13	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	100	283	410	462	513	641	604	469	308	222	129	119
MAX	642	1655	1602	2947	1402	1636	1459	1848	2183	1221	1047	1248
(WY)	1987	1986	1991	1950	1950	1978	1957	1996	1957	1979	1979	1989
MIN	4.79	13.7	9.71	13.6	65.1	151	142	69.5	26.7	19.4	9.49	4.76
(WY)	1965	1964	1964	1977	1964	1966	1971	1976	1988	1954	1966	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	58423.4		149460.4			
ANNUAL MEAN	160		408		354	
HIGHEST ANNUAL MEAN					640	1950
LOWEST ANNUAL MEAN					76.0	1954
HIGHEST DAILY MEAN	4280	May 19	6670	Apr 29	18600	Jun 29 1957
LOWEST DAILY MEAN	4.4	Oct 17	4.4	Oct 17	1.4	Sep 8 1954
ANNUAL SEVEN-DAY MINIMUM	4.7	Oct 12	4.7	Oct 12	2.3	Oct 6 1988
INSTANTANEOUS PEAK FLOW			8020	Apr 29	30700	Jun 28 1957
INSTANTANEOUS PEAK STAGE			14.94	Apr 29	18.63	Jun 28 1957
ANNUAL RUNOFF (CFSM)	.49		1.25		1.09	
ANNUAL RUNOFF (INCHES)	6.67		17.05		14.76	
10 PERCENT EXCEEDS	245		1040		766	
50 PERCENT EXCEEDS	84		113		149	
90 PERCENT EXCEEDS	11		9.6		23	

e Estimated

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 left bank at downstream side of bridge on U.S. Highway 231, 3 mi east of Cataract, and at mile 17.5.
DRAINAGE AREA.--245 mi².
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 above sea level. Prior to Nov. 8, 1949, nonrecording gage, and Nov. 8, 1949, to Sept. 22, 1968, water-stage recorder at site 100 ft upstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height may have occurred Dec. 30, 1990, during period of no gage height record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	5.3	5.3	17	e120	146	876	3190	382	99	36	7.9
2	2.6	8.2	5.4	42	e105	136	497	902	410	70	27	7.5
3	3.6	18	5.6	56	e96	91	331	532	335	203	23	7.4
4	4.1	10	5.6	e48	e88	93	255	2050	249	107	20	6.9
5	5.3	8.3	5.6	e41	e84	128	199	3570	197	75	18	6.7
6	4.5	7.0	5.5	e38	e82	552	172	1920	1130	62	17	6.4
7	4.1	9.1	5.6	e36	e90	565	158	640	1930	55	16	6.6
8	3.4	12	5.3	e34	130	235	143	2000	623	51	15	6.4
9	3.7	12	5.1	e33	188	188	127	3050	426	48	14	32
10	3.7	11	4.5	e32	155	162	117	1930	502	43	13	18
11	3.5	37	3.8	e31	153	130	110	2630	1550	37	13	8.9
12	3.5	64	3.9	e30	119	129	107	1440	2330	35	13	7.1
13	3.1	33	4.5	e29	99	126	107	557	1420	35	12	6.0
14	3.2	16	5.8	e31	104	124	98	390	537	35	12	5.6
15	3.2	11	8.8	e37	101	1250	99	704	492	35	13	5.3
16	4.5	8.8	8.7	e50	89	684	118	950	264	32	13	256
17	5.4	7.6	7.4	1420	73	347	100	504	207	30	12	333
18	3.3	7.1	14	1960	76	239	91	353	1100	41	12	60
19	3.2	7.0	74	1750	84	212	141	266	946	32	37	25
20	5.9	6.6	162	525	74	270	606	214	644	31	26	15
21	7.7	6.2	116	299	75	305	312	179	309	38	14	87
22	13	5.8	53	214	75	329	721	158	224	138	12	277
23	4.7	6.0	e30	659	84	354	2820	138	204	63	21	87
24	2.0	5.9	e21	2440	90	1200	3490	130	182	44	329	41
25	2.6	5.6	e17	1070	73	2210	1440	414	163	97	45	25
26	2.8	5.6	e14	442	78	794	649	1260	125	44	19	17
27	5.0	5.7	e13	554	134	392	426	3430	112	30	17	969
28	6.6	5.8	e12	313	326	309	1000	4540	108	26	26	1930
29	7.1	5.6	e11	249	196	282	4610	4050	106	43	13	680
30	5.8	5.6	e10	174	---	240	5440	2650	105	68	10	262
31	5.0	---	e11	e140	---	238	---	701	---	67	8.8	---
TOTAL	139.0	356.8	654.4	12794	3241	12460	25360	45442	17312	1814	876.8	5202.7
MEAN	4.48	11.9	21.1	413	112	402	845	1466	577	58.5	28.3	173
MAX	13	64	162	2440	326	2210	5440	4540	2330	203	329	1930
MIN	2.0	5.3	3.8	17	73	91	91	130	105	26	8.8	5.3
CFSM	.02	.05	.09	1.68	.46	1.64	3.45	5.98	2.36	.24	.12	.71
IN.	.02	.05	.10	1.94	.49	1.89	3.85	6.90	2.63	.28	.13	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	60.3	235	316	340	406	500	428	336	222	189	112	80.9
MAX	435	1576	1135	2214	1088	1425	1064	1522	1120	1694	1092	918
(WY)	1987	1994	1958	1950	1971	1963	1964	1981	1957	1979	1993	1989
MIN	2.88	4.46	4.05	6.55	41.1	108	74.5	35.1	11.2	6.84	3.72	.91
(WY)	1965	1965	1964	1977	1954	1994	1971	1954	1988	1954	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	48824.9		125652.7			
ANNUAL MEAN	134		343		268	
HIGHEST ANNUAL MEAN					528	1979
LOWEST ANNUAL MEAN					37.3	1954
HIGHEST DAILY MEAN	3870	May 19	5440	Apr 30	11500	Dec 30 1990
LOWEST DAILY MEAN	2.0	Oct 24	2.0	Oct 24	.10	Sep 7 1954
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 26	3.4	Oct 9	.20	Sep 2 1954
INSTANTANEOUS PEAK FLOW			5720	Apr 30	12200	Dec 30 1990
INSTANTANEOUS PEAK STAGE			17.32	Apr 30	22.58	Jun 24 1960
ANNUAL RUNOFF (CFSM)	.55		1.40		1.09	
ANNUAL RUNOFF (INCHES)	7.41		19.08		14.86	
10 PERCENT EXCEEDS	253		956		578	
50 PERCENT EXCEEDS	36		73		80	
90 PERCENT EXCEEDS	4.2		5.6		8.2	

e Estimated

03359000 MILL CREEK NEAR MANHATTAN, IN

LOCATION.--Lat 39°29'16", long 86°55'30", in SE¼SE¼ sec.11, T.12 N., R.5 W., Putnam County, Hydrologic Unit 05120203, on left bank 0.3 mi upstream from Cagles Mill Dam, 0.4 mi downstream from Cagles Mill Lake, 1.3 mi upstream from Deer Creek, 5.0 mi south of Manhattan, and at mile 2.3.

DRAINAGE AREA.--294 mi^2.

PERIOD OF RECORD.--May to September 1931 (fragmentary), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1940-41. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 581.83 ft above sea level. May 12, 1941 to Sept. 30, 1974, water-stage recorder at site 0.3 mi downstream. See WSP 1725 for history of changes prior to May 12, 1941.

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Cagles Mill Lake since July 1953.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--58 years (1938 to current year), 327 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,960 ft^3/s, Jan. 5, 1950, gage height, 18.38 ft; no flow Aug. 7, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,060 ft^3/s July 7; minimum daily, 6 ft^3/s Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	18	46	1160	433	660	126	160	1830	1320	20
2	19	18	18	46	1710	430	662	127	481	1820	571	20
3	19	18	18	53	1860	186	660	127	966	1810	157	20
4	19	18	18	65	1820	65	797	128	1280	1800	82	20
5	19	18	18	72	1790	66	1150	131	1270	1790	56	20
6	19	18	18	83	1750	68	1260	133	723	1920	50	20
7	19	18	18	83	1700	317	1240	134	160	2060	50	20
8	19	18	18	83	1270	738	890	135	160	2040	50	20
9	19	18	18	83	582	852	229	137	422	2020	39	20
10	19	18	18	82	225	502	133	138	583	2010	33	20
11	19	19	18	70	225	288	133	140	161	1990	33	20
12	19	25	18	46	276	167	133	141	162	1970	24	20
13	19	32	18	46	327	106	133	141	326	1950	20	20
14	19	32	18	46	325	149	118	141	1060	1930	20	20
15	19	32	18	46	325	324	93	142	1450	1910	20	20
16	18	32	18	46	203	633	83	142	1760	1940	20	20
17	18	41	18	74	82	896	84	142	1910	2000	20	309
18	18	47	35	99	82	1020	84	143	599	1980	20	561
19	18	57	57	103	83	814	85	348	216	1950	20	173
20	18	65	65	105	116	443	87	1140	704	1930	20	50
21	18	65	77	105	148	177	91	1410	1330	1900	6.0	51
22	18	65	84	105	148	356	95	1750	1590	1880	17	157
23	18	65	84	106	101	459	103	1840	1580	1850	33	261
24	18	65	84	108	82	464	107	1830	1400	1830	315	225
25	18	50	83	110	82	247	110	1600	1770	1800	325	133
26	18	39	83	111	83	110	111	733	1880	1770	174	89
27	18	39	74	111	83	111	111	153	1870	1820	63	92
28	18	39	55	162	85	297	112	155	1860	1820	40	323
29	18	26	46	112	228	667	117	157	1850	1780	20	549
30	18	18	46	246	---	664	122	159	1840	1750	20	658
31	18	---	46	754	---	660	---	160	---	1710	20	---
TOTAL	573	1033	1225	3407	16951	12709	9793	13883	31523	58560	3658.0	3951
MEAN	18.5	34.4	39.5	110	585	410	326	448	1051	1889	118	132
MAX	19	65	84	754	1860	1020	1260	1840	1910	2060	1320	658
MIN	18	18	18	46	82	65	83	126	160	1710	6.0	20

CAL YR 1995 TOTAL 64089 MEAN 176 MAX 1640 MIN 18
WTR YR 1996 TOTAL 157266.0 MEAN 430 MAX 2060 MIN 6.0

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 downstream from bridge on State Highway 46 at Bowling Green, 0.2 mi downstream from Jordan Creek, and at mile 38.4.
DRAINAGE AREA.--830 mi².
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 above sea level, (levels by U.S. Army Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.
REMARKS.--Records good except for estimated daily discharges, and flows above 500 ft³/s which are fair. Flow regulated by Cataract Lake.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 30.0 ft in 1875, present datum, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	39	63	192	1220	756	2320	4370	1490	2020	1630	76
2	53	46	63	243	1530	708	1990	2220	1650	1990	984	74
3	58	52	61	264	1860	599	1530	1700	1870	2110	401	72
4	70	52	58	264	1840	306	1340	4620	2130	2110	284	70
5	59	49	58	e250	1780	340	1560	7630	2030	1980	222	68
6	49	47	59	e240	1750	939	1660	3400	2630	2100	196	67
7	45	55	59	e300	1730	1400	1590	2470	2900	2130	184	65
8	43	65	57	e300	1600	1160	1490	4370	1650	2110	173	65
9	42	69	e54	e250	1110	1170	723	7580	1410	2090	168	111
10	40	66	e52	e160	581	1010	507	5770	1930	2060	148	e120
11	38	123	e50	e150	572	599	476	6340	4010	2030	138	e96
12	37	213	e49	e140	518	540	453	3620	4040	2010	131	e80
13	37	160	e52	e140	547	384	440	2200	2590	2000	119	68
14	36	131	70	e150	530	421	415	1670	2180	1970	112	65
15	35	115	65	e170	406	1540	376	1730	2400	1950	109	63
16	34	105	63	e250	376	1400	370	2240	2480	1930	136	109
17	32	97	63	1810	310	1150	359	1860	2560	1960	e100	e250
18	31	103	78	2670	281	1290	331	1380	3360	1980	e160	e680
19	33	101	214	3320	279	1220	428	1240	1780	2040	e300	408
20	38	108	341	1370	285	1050	855	1790	1640	2100	e110	137
21	43	105	330	797	342	672	934	1930	1930	2020	e100	156
22	41	104	320	579	343	709	1690	2090	2180	2110	93	190
23	37	104	478	908	330	952	5960	2200	2150	2360	93	308
24	34	101	477	3580	276	1800	6040	2160	2240	2160	234	299
25	35	99	405	1810	265	3890	2380	2300	2150	2020	386	219
26	38	84	275	995	264	2270	1730	3030	2270	1940	296	159
27	44	79	295	909	338	1180	1300	5320	2190	1890	173	250
28	47	78	220	e720	548	898	1990	10400	2130	1900	116	322
29	42	79	169	e580	663	1280	8700	9370	2090	1860	99	521
30	39	66	160	e480	---	1250	9950	3670	2050	1860	85	672
31	37	---	198	864	---	1300	---	1990	---	1830	80	---
TOTAL	1305	2695	4956	24855	22474	34183	59887	112660	68110	62620	7560	5840
MEAN	42.1	89.8	160	802	775	1103	1996	3634	2270	2020	244	195
MAX	70	213	478	3580	1860	3890	9950	10400	4040	2360	1630	680
MIN	31	39	49	140	264	306	331	1240	1410	1830	80	63
CFSM	.05	.11	.19	.97	.93	1.33	2.41	4.38	2.74	2.43	.29	.23
IN.	.06	.12	.22	1.11	1.01	1.53	2.68	5.05	3.05	2.81	.34	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	273	591	911	1239	1291	1553	1622	1238	835	584	332	304
MAX	1393	3076	2960	7212	3249	3843	4120	5090	4077	2746	2656	2488
(WY)	1987	1986	1991	1950	1950	1938	1944	1943	1957	1987	1979	1989
MIN	22.5	29.7	29.0	27.5	107	125	285	129	66.9	39.4	24.1	13.9
(WY)	1941	1965	1964	1977	1934	1941	1971	1934	1988	1954	1936	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	168991		407145			
ANNUAL MEAN	463		1112		899	
HIGHEST ANNUAL MEAN					1551	1950
LOWEST ANNUAL MEAN					161	1954
HIGHEST DAILY MEAN	7840	May 19	10400	May 28	28700	Jun 29 1957
LOWEST DAILY MEAN	31	Oct 18	31	Oct 18	11	Oct 7 1954
ANNUAL SEVEN-DAY MINIMUM	34	Oct 13	34	Oct 13	12	Oct 2 1954
INSTANTANEOUS PEAK FLOW			18600	May 28	34000	Jan 4 1950
INSTANTANEOUS PEAK STAGE			21.33	May 28	23.53	Jan 4 1950
ANNUAL RUNOFF (CFSM)	.56		1.34		1.08	
ANNUAL RUNOFF (INCHES)	7.57		18.25		14.72	
10 PERCENT EXCEEDS	1250		2280		2210	
50 PERCENT EXCEEDS	220		418		360	
90 PERCENT EXCEEDS	50		53		56	

e Estimated

03360500 WHITE RIVER AT NEWBERRY, IN

LOCATION.--Lat 38°55'39", long 87°00'41", in NE¼NW¼ sec.30, T.6 N., R.5 W., Greene County, Hydrologic Unit 05120202, on left bank 0.4 mi upstream from bridge on State Highway 57 at Newberry, 1.9 mi downstream from Doans Creek, and at mile 113.0.
DRAINAGE AREA.--4,688 mi².
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 above sea level. Nonrecording gage prior to Oct. 21, 1928. Prior to Aug. 5, 1982, recording gage 0.3 mi downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 27.5 ft Mar. 27, 1913, from floodmarks by Indiana Department of Highways, discharge, 130,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e600	601	675	943	4800	7000	7930	42100	24000	4420	3550	784
2	e570	634	660	1020	e4500	7280	10900	50100	14900	4230	3460	750
3	e570	650	641	1160	e4200	6010	10800	41100	10100	4070	2860	726
4	e580	702	624	e1070	e4100	4790	9360	33500	8860	4060	2210	693
5	e590	812	615	e1020	e4000	4030	7990	30100	8060	3950	1880	659
6	758	771	602	e990	e3900	4200	7130	28400	7820	3740	1680	632
7	858	755	594	e960	e3900	5950	6480	31300	12100	3750	1550	732
8	871	733	586	e940	e4000	7030	5890	30600	14300	3770	1460	732
9	792	755	575	e910	4240	6240	5510	31000	13000	3700	1380	783
10	724	894	537	e900	3930	5460	4600	31700	10100	3690	1290	889
11	686	1140	e510	e890	3590	4790	4070	35900	13100	3530	1230	817
12	677	1260	e490	e880	3470	4060	3740	37000	15500	3420	1170	800
13	658	2030	e480	e870	3310	3730	3600	32800	16200	3330	1120	687
14	631	1930	e520	e900	3200	3420	3490	28300	14600	3260	1100	645
15	599	1530	560	e1000	3080	3270	3480	22900	10500	3240	1060	629
16	573	1360	569	e1800	2870	4310	3530	17000	9280	3150	1020	679
17	554	1260	575	e2800	2650	5190	3560	15400	8600	3210	1690	1460
18	543	1150	615	7850	2520	4260	3480	16800	8070	3200	1210	2260
19	544	1040	1270	12400	2380	4180	3270	14300	9070	3460	1050	2300
20	573	991	2400	13600	2290	4220	6460	10200	9350	5310	1090	1790
21	586	949	2480	13400	2250	4690	8170	8700	7980	4630	1200	1510
22	593	892	2020	12300	2240	5190	8340	7880	7080	4420	1060	1570
23	687	875	1680	12300	2250	5490	14700	7340	7520	5530	1080	1790
24	690	829	1430	14600	2220	7420	21700	6850	6240	6440	1060	1850
25	649	804	e1270	15800	2120	14200	23300	6450	6370	5460	1210	1510
26	621	786	e1170	15600	2190	16400	24100	7520	6040	4790	1400	1310
27	621	766	e1100	13200	3020	13600	22900	12500	5900	4280	1310	1400
28	621	743	e1030	10700	4010	10200	20000	17900	5390	3850	1090	2370
29	611	705	e990	8210	5040	8590	26600	22800	4970	3660	962	4110
30	620	687	e960	6760	---	7540	36100	26600	4660	3630	878	3900
31	614	---	941	5600	---	6810	---	28000	---	3520	828	---
TOTAL	19864	29034	29169	181373	96270	199550	321180	733040	299660	124700	45938	40767
MEAN	641	968	941	5851	3320	6437	10710	23650	9989	4023	1482	1359
MAX	871	2030	2480	15800	5040	16400	36100	50100	24000	6440	3550	4110
MIN	543	601	480	870	2120	3270	3270	6450	4660	3150	828	629
CFSM	.14	.21	.20	1.25	.71	1.37	2.28	5.04	2.13	.86	.32	.29
IN.	.16	.23	.23	1.44	.76	1.58	2.55	5.82	2.38	.99	.36	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1996, BY WATER YEAR (WY)

MEAN	1446	3093	4594	6765	6968	8651	8956	6931	4413	3204	1972	1600
MAX	6193	24180	16780	36920	21870	19150	20340	25090	15080	13270	15900	13510
(WY)	1994	1994	1958	1950	1950	1963	1944	1943	1958	1979	1979	1989
MIN	259	408	386	405	705	686	1539	677	771	536	308	317
(WY)	1941	1945	1945	1945	1931	1941	1941	1941	1988	1936	1941	1940

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1929 - 1996	
ANNUAL TOTAL	1218872		2120545			
ANNUAL MEAN	3339		5794		4871	
HIGHEST ANNUAL MEAN					8752	1950
LOWEST ANNUAL MEAN					958	1941
HIGHEST DAILY MEAN	33700	May 22	50100	May 2	103000	Nov 18 1993
LOWEST DAILY MEAN	480	Dec 13	480	Dec 13	200	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	524	Dec 10	524	Dec 10	211	Sep 26 1941
INSTANTANEOUS PEAK FLOW			51400	May 2	105000	Nov 18 1993
INSTANTANEOUS PEAK STAGE			22.53	May 2	25.87	Nov 18 1993
ANNUAL RUNOFF (CFSM)	.71		1.24		1.04	
ANNUAL RUNOFF (INCHES)	9.67		16.83		14.12	
10 PERCENT EXCEEDS	6980		14800		11500	
50 PERCENT EXCEEDS	2020		3220		2520	
90 PERCENT EXCEEDS	633		630		623	

e Estimated

03360895 KESSINGER DITCH NEAR MONROE CITY, IN

LOCATION.--Lat 38°34'14", long 87°16'37", in SE¼SE¼ sec.27 T.2N., R.8W., Knox County, Hydrologic Unit 05120202 on left bank at county road bridge 1.7 miles upstream of the confluence with White River, and approximately 4.7 miles southeast of Monroe City.

DRAINAGE AREA.--56.2 mi² (revised).

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 410.34 ft, above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Stage-discharge relation affected by backwater from White River during times of flood.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	7.9	4.3	10	e18	17	170	e90	e12	7.7	6.1	2.2
2	2.0	11	4.0	16	e16	17	65	e56	e150	7.3	5.3	2.3
3	2.5	5.3	4.4	e19	e14	e10	45	e70	e60	7.5	4.8	2.8
4	2.8	2.9	4.3	e14	e13	e10	36	e150	e30	6.0	4.4	2.9
5	2.7	2.3	4.2	e11	e13	15	29	e450	e10	5.5	4.1	2.4
6	2.6	3.1	3.9	e10	e14	29	26	e180	e400	5.2	4.0	2.6
7	2.7	9.1	3.9	e9.2	e14	20	23	e90	e450	9.1	3.8	4.4
8	2.6	5.5	e4.0	e8.4	e14	e10	21	e2100	e140	23	3.5	5.0
9	2.5	e4.0	e3.5	e8.0	15	e10	19	e54	e300	7.5	3.4	22
10	2.3	e2.5	e2.9	e7.7	17	e10	17	e250	e420	5.2	2.8	6.0
11	2.2	e10	e2.4	e7.5	18	11	16	e900	e160	4.4	2.4	1.8
12	2.3	e37	e2.6	e7.3	12	12	16	e100	e100	4.3	2.8	2.0
13	2.3	e14	e3.2	e7.5	11	13	20	e32	e80	4.2	3.0	2.1
14	2.2	e11	e4.5	e8.0	14	12	19	e56	e66	17	2.5	2.2
15	2.3	e8.6	7.0	e9.0	14	12	18	e29	e56	57	2.4	2.1
16	2.3	e7.4	15	28	11	10	22	e24	e50	9.5	2.6	55
17	2.4	e6.7	8.4	306	9.6	12	17	e20	e45	6.7	2.6	17
18	2.2	e6.2	20	225	10	10	16	e17	e42	5.3	6.1	4.0
19	2.3	e6.0	309	309	11	12	16	e14	e37	42	2.6	3.8
20	5.9	e5.7	153	e54	12	16	784	e12	244	65	2.3	3.4
21	5.3	e5.2	37	e70	12	23	151	e10	41	11	2.3	6.6
22	5.0	e5.0	23	e130	12	34	191	e9.2	28	8.5	2.2	12
23	1.5	e4.9	17	e383	14	50	e700	e8.6	21	7.0	6.3	4.4
24	1.5	e4.8	14	e600	12	198	e150	e17	17	5.7	123	3.7
25	2.7	e4.6	12	e50	9.0	e300	e56	20	14	387	9.4	2.7
26	2.4	e4.5	e10	e70	11	e100	e64	157	11	40	4.5	3.3
27	4.9	e4.5	e8.4	e92	57	e52	e40	470	10	14	3.4	29
28	5.7	e4.3	e7.2	e40	71	e54	e150	379	9.6	9.6	2.8	40
29	4.3	e4.3	e6.6	e32	21	e58	e1640	e150	8.8	16	2.4	11
30	4.3	e4.2	e6.2	e28	---	e38	e350	e60	8.1	8.7	2.2	5.2
31	5.9	---	8.4	e23	---	e90	---	e27	---	7.5	2.2	---
TOTAL	94.6	212.5	714.3	2592.6	489.6	1265	4887	6001.8	3020.5	814.4	232.2	263.9
MEAN	3.05	7.08	23.0	83.6	16.9	40.8	163	194	101	26.3	7.49	8.80
MAX	5.9	37	309	600	71	300	1640	2100	450	387	123	55
MIN	1.5	2.3	2.4	7.3	9.0	10	16	8.6	8.1	4.2	2.2	1.8
CFSM	.05	.13	.41	1.49	.30	.73	2.90	3.44	1.79	.47	.13	.16
IN.	.06	.14	.47	1.72	.32	.84	3.23	3.97	2.00	.54	.15	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	13.1	106	44.8	117	48.7	67.3	120	155	46.7	18.5	16.4	26.8
MAX	40.0	318	90.5	163	66.0	106	163	295	101	27.2	36.0	85.9
(WY)	1994	1994	1994	1994	1994	1993	1996	1995	1996	1995	1995	1993
MIN	3.05	7.08	23.0	73.9	16.9	25.1	44.6	63.8	12.1	5.75	6.77	2.47
(WY)	1996	1996	1996	1995	1996	1994	1995	1994	1994	1994	1994	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1993 - 1996	
ANNUAL TOTAL	21835.9		20588.4			
ANNUAL MEAN	59.8		56.3		65.0	
HIGHEST ANNUAL MEAN					76.5	1994
LOWEST ANNUAL MEAN					56.3	1996
HIGHEST DAILY MEAN	1900	May 18	e2100	May 8	2240	Nov 15 1993
LOWEST DAILY MEAN	1.5	Oct 23	1.5	Oct 23	.26	Oct 5 1994
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 26	2.3	Oct 10	.92	Oct 27 1994
INSTANTANEOUS PEAK FLOW			Unknown		2580	Nov 14 1993
INSTANTANEOUS PEAK STAGE			a19.90	May 5	20.24	Nov 20 1993
ANNUAL RUNOFF (CFSM)	1.06		1.00		1.16	
ANNUAL RUNOFF (INCHES)	14.45		13.63		15.72	
10 PERCENT EXCEEDS	127		143		143	
50 PERCENT EXCEEDS	13		11		16	
90 PERCENT EXCEEDS	2.4		2.5		2.8	

e Estimated
a Backwater

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 upstream from highway bridge, 0.5 mi northwest of Carthage, 2.2 mi downstream from Three Mile Creek, and at mile 50.7.
DRAINAGE AREA.--184 mi².
PERIOD OF RECORD.--October 1950 to current year. Prior to October 1961, published as Blue River at Carthage.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 859.33 ft above sea level. Prior to July 19, 1951, nonrecording gage at site 300 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partly regulated by Big Blue River Conservancy District control structures on tributaries to Big Blue River beginning in 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	69	67	72	e156	219	595	1120	321	182	118	62
2	54	89	66	81	e150	186	455	688	298	176	110	62
3	70	81	66	e76	e140	152	316	650	346	173	104	61
4	73	71	66	e72	e135	137	263	2210	370	161	99	60
5	71	68	66	e70	e130	153	225	1960	292	157	94	59
6	84	68	64	e69	e125	257	203	1920	427	149	92	59
7	65	88	63	e68	e120	285	189	929	621	143	90	60
8	62	82	63	e66	e130	198	175	2070	502	145	87	60
9	60	74	e56	e65	150	164	163	2260	1650	142	83	69
10	60	72	e54	e64	141	145	156	1190	1030	131	80	68
11	59	130	e55	e63	143	138	150	1460	796	129	78	61
12	59	115	e56	e62	129	137	145	949	881	127	78	60
13	59	91	e58	e61	119	135	152	696	590	127	76	59
14	59	83	e62	e60	120	135	147	571	532	119	75	60
15	60	78	e65	e62	117	145	142	1160	605	133	80	56
16	60	76	64	e68	112	145	147	1230	431	122	95	141
17	60	76	62	431	108	140	138	743	356	117	80	189
18	60	80	83	1230	106	135	135	581	409	159	76	87
19	60	76	117	1490	106	155	147	486	514	146	75	73
20	74	75	111	607	107	407	522	419	417	127	73	68
21	76	74	86	372	106	374	349	380	331	170	71	81
22	66	72	78	274	106	304	321	337	291	358	72	128
23	63	70	e70	381	111	273	1470	311	269	214	71	85
24	63	68	e64	1190	116	458	1430	303	452	167	83	75
25	62	67	e62	602	111	733	723	295	339	166	70	72
26	63	68	e60	385	118	440	571	365	264	137	67	68
27	68	69	e59	374	232	291	435	786	235	125	65	99
28	68	68	e58	275	624	243	535	843	219	120	65	273
29	67	67	e57	225	326	237	3220	632	204	116	64	148
30	65	66	e56	189	---	220	2050	481	191	137	63	107
31	66	---	e60	163	---	236	---	377	---	144	63	---
TOTAL	1989	2331	2074	9267	4394	7377	15669	28402	14183	4719	2497	2610
MEAN	64.2	77.7	66.9	299	152	238	522	916	473	152	80.5	87.0
MAX	84	130	117	1490	624	733	3220	2260	1650	358	118	273
MIN	53	66	54	60	106	135	135	295	191	116	63	56
CFSM	.35	.42	.36	1.62	.82	1.29	2.84	4.98	2.57	.83	.44	.47
IN.	.40	.47	.42	1.87	.89	1.49	3.17	5.74	2.87	.95	.50	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

MEAN	94.7	170	215	231	290	331	332	261	199	152	105	78.2
MAX	579	925	702	619	741	967	829	916	848	581	649	400
(WY)	1987	1994	1991	1959	1951	1963	1964	1996	1958	1979	1979	1989
MIN	34.2	38.6	33.2	27.9	59.6	84.2	97.8	81.5	48.1	32.5	30.5	24.4
(WY)	1964	1977	1977	1977	1964	1981	1971	1976	1988	1977	1988	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	56531		95512			
ANNUAL MEAN	155		261		204	
HIGHEST ANNUAL MEAN					324	1973
LOWEST ANNUAL MEAN					78.8	1977
HIGHEST DAILY MEAN	3030	May 19	3220	Apr 29	6900	Mar 5 1963
LOWEST DAILY MEAN	48	Jan 6	53	Oct 1	17	Jan 18 1977
ANNUAL SEVEN-DAY MINIMUM	51	Jan 4	58	Dec 8	19	Jul 31 1977
INSTANTANEOUS PEAK FLOW			4530	Apr 29	12900	Mar 4 1963
INSTANTANEOUS PEAK STAGE			10.06	Apr 29	14.62	Mar 4 1963
ANNUAL RUNOFF (CFSM)	.84		1.42		1.11	
ANNUAL RUNOFF (INCHES)	11.43		19.31		15.09	
10 PERCENT EXCEEDS	255		603		407	
50 PERCENT EXCEEDS	93		123		116	
90 PERCENT EXCEEDS	57		61		50	

e Estimated

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 mi downstream from bridge on State Highway 9 in Shelbyville, 0.6 mi downstream from Little Blue River, and at mile 23.9.
DRAINAGE AREA.--421 mi².
PERIOD OF RECORD.--September 1943 to current year. 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-79-1: 1975.
GAGE.--Water-stage recorder. Datum of gage is 737.67 ft above sea level. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mi upstream at datum 3.5 ft higher.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 20.2 ft from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	89	90	117	e350	507	1650	4330	935	355	231	101
2	59	95	90	166	e300	420	1540	2110	817	338	224	100
3	67	121	89	162	e280	337	1030	1740	758	323	235	98
4	83	105	88	e130	e270	283	777	4450	852	303	208	96
5	94	94	87	e120	e260	296	629	7710	670	286	186	94
6	95	90	87	e110	e250	555	536	4700	676	274	168	92
7	96	108	86	e103	e240	893	488	3070	1320	264	161	92
8	80	125	85	e98	e260	594	440	2730	1270	258	156	93
9	75	112	75	e96	e300	429	398	4580	2540	256	148	103
10	73	103	e72	e94	e360	356	367	3690	2510	243	142	110
11	73	153	e74	e93	320	323	345	3280	1750	228	139	101
12	70	228	e78	e92	306	309	332	2730	1990	220	138	94
13	71	179	e80	e91	264	304	336	1820	1490	213	133	91
14	69	152	e86	e90	262	304	332	1390	1080	211	129	88
15	69	134	e90	e96	247	753	311	2130	1190	224	181	87
16	70	123	88	e120	226	627	312	5870	923	217	359	132
17	71	119	84	966	211	491	294	2960	743	201	218	424
18	71	117	105	3230	202	408	277	1770	845	293	171	224
19	71	117	199	e3900	203	437	295	1310	1070	307	160	156
20	84	112	262	e1700	201	1210	1070	1070	1110	270	149	132
21	95	108	218	e800	198	1230	1120	930	824	245	137	145
22	95	105	184	e520	195	984	831	824	665	584	130	252
23	82	103	e140	e1000	207	893	2640	735	605	462	128	215
24	76	99	e120	e3000	221	1150	4680	708	703	352	167	162
25	75	95	e100	e1800	216	1440	2620	900	768	341	143	141
26	76	94	e94	e1100	235	1130	1610	1500	605	296	126	130
27	83	94	e88	e900	331	778	1180	3230	496	253	120	181
28	84	95	e84	e660	923	636	1330	3460	444	231	117	765
29	85	92	e82	e520	752	589	6570	2370	407	256	114	610
30	83	90	e80	e450	---	551	8320	1520	379	253	109	353
31	80	---	e86	e400	---	597	---	1140	---	231	105	---
TOTAL	2415	3451	3271	22724	8590	19814	42660	80757	30435	8788	5032	5462
MEAN	77.9	115	106	733	296	639	1422	2605	1014	283	162	182
MAX	96	228	262	3900	923	1440	8320	7710	2540	584	359	765
MIN	59	89	72	90	195	283	277	708	379	201	105	87
CFSM	.19	.27	.25	1.74	.70	1.52	3.38	6.19	2.41	.67	.39	.43
IN.	.21	.30	.29	2.01	.76	1.75	3.77	7.14	2.69	.78	.44	.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	171	358	481	637	714	805	793	610	433	324	203	147
MAX	1199	2114	1575	4319	2208	1970	1973	2605	1574	1363	1404	953
(WY)	1987	1994	1967	1950	1950	1963	1964	1996	1958	1979	1979	1989
MIN	41.7	52.5	52.3	38.3	92.0	204	183	149	81.2	56.1	46.4	43.2
(WY)	1964	1954	1964	1977	1964	1957	1971	1976	1988	1954	1988	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	126226		233399			
ANNUAL MEAN	346		638		472	
HIGHEST ANNUAL MEAN					908	1950
LOWEST ANNUAL MEAN					166	1954
HIGHEST DAILY MEAN	6150	May 19	8320	Apr 30	13800	Mar 5 1963
LOWEST DAILY MEAN	59	Oct 2	59	Oct 2	27	Jan 18 1977
ANNUAL SEVEN-DAY MINIMUM	63	Sep 26	70	Oct 12	32	Jan 16 1977
INSTANTANEOUS PEAK FLOW			8980	Apr 30	13800	Nov 15 1993
INSTANTANEOUS PEAK STAGE			16.13	Apr 30	18.41	Nov 15 1993
ANNUAL RUNOFF (CFSM)	.82		1.51		1.12	
ANNUAL RUNOFF (INCHES)	11.15		20.62		15.22	
10 PERCENT EXCEEDS	751		1560		1000	
50 PERCENT EXCEEDS	180		241		239	
90 PERCENT EXCEEDS	72		86		74	

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 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 downstream from bridge on County Road 450 West, 0.5 mi south of New Palestine, 3.1 mi upstream from Little Sugar Creek, and 37.3 mi upstream from mouth.
DRAINAGE AREA.--93.9 mi².
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 above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	8.5	5.9	12	e46	141	445	1220	124	43	47	9.5
2	2.6	9.7	5.8	24	e41	98	427	475	112	39	36	8.6
3	3.2	15	5.7	35	e38	73	248	340	111	36	30	8.2
4	5.9	21	5.9	e30	e35	59	168	1210	112	33	26	8.3
5	6.3	13	5.9	e25	e33	60	126	1020	92	31	23	7.9
6	9.2	7.6	5.6	e21	e31	114	101	1220	129	28	21	7.6
7	11	5.7	5.5	e18	e35	152	89	1040	243	27	20	7.8
8	e7.8	21	e5.3	e16	e45	110	78	875	193	26	18	8.5
9	e5.6	8.3	e5.2	e15	57	77	69	1240	291	25	17	13
10	e4.2	4.7	e5.1	e14	53	69	62	1380	340	23	16	11
11	e3.0	5.0	e5.0	e13	49	57	57	734	308	21	15	8.9
12	e3.3	42	e4.9	e12	45	52	55	472	285	20	14	8.0
13	e4.0	57	e5.2	e12	39	51	55	311	198	19	14	7.8
14	e7.0	29	e5.8	e13	38	51	52	226	145	18	13	7.7
15	e4.9	19	6.6	e15	36	52	50	784	249	21	18	7.0
16	e3.9	17	6.2	e20	33	50	50	826	335	20	18	108
17	e3.2	14	6.6	e200	31	47	46	482	157	18	13	114
18	e2.7	12	9.5	685	32	44	43	288	159	75	13	36
19	2.3	12	35	836	29	49	74	205	133	55	13	25
20	3.6	11	47	499	29	110	284	160	108	47	12	18
21	6.0	9.6	29	262	28	198	238	133	87	97	12	47
22	8.0	7.6	20	175	27	160	170	113	75	240	17	87
23	8.0	6.3	e16	231	29	146	584	99	69	188	14	39
24	5.5	6.8	e14	565	32	221	771	94	86	104	28	27
25	4.7	6.1	e12	518	33	278	715	92	131	73	16	21
26	4.3	6.2	e11	275	36	206	332	157	99	53	15	17
27	5.4	6.2	e10	225	48	135	213	501	70	43	13	50
28	6.5	6.2	e9.6	186	197	106	257	561	59	42	12	181
29	7.6	5.9	e9.4	134	269	111	1610	391	52	34	11	92
30	7.9	5.9	e9.6	102	---	107	1510	221	47	79	11	57
31	8.5	---	e10	e62	---	122	---	157	---	74	9.9	---
TOTAL	168.2	399.3	338.3	5250	1474	3306	8979	17027	4599	1652	555.9	1048.8
MEAN	5.43	13.3	10.9	169	50.8	107	299	549	153	53.3	17.9	35.0
MAX	11	57	47	836	269	278	1610	1380	340	240	47	181
MIN	2.1	4.7	4.9	12	27	44	43	92	47	18	9.9	7.0
CFSM	.06	.14	.12	1.80	.54	1.14	3.19	5.85	1.63	.57	.19	.37
IN.	.07	.16	.13	2.08	.58	1.31	3.56	6.75	1.82	.65	.22	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	37.4	95.3	125	130	166	172	162	133	83.7	66.1	47.0	29.9
MAX	309	441	352	345	439	413	299	549	232	241	306	314
(WY)	1987	1994	1991	1969	1982	1978	1996	1996	1973	1969	1979	1989
MIN	4.14	10.4	9.11	5.35	35.7	35.0	30.0	23.4	8.47	9.21	4.06	3.42
(WY)	1989	1988	1977	1977	1978	1981	1971	1976	1988	1977	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	28323.9		44797.5			
ANNUAL MEAN	77.6		122		104	
HIGHEST ANNUAL MEAN					150	1973
LOWEST ANNUAL MEAN					37.7	1977
HIGHEST DAILY MEAN	1390	May 19	1610	Apr 29	1930	Nov 15 1993
LOWEST DAILY MEAN	2.1	Oct 1	2.1	Oct 1	2.1	Oct 1 1995
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 27	3.8	Oct 15	3.0	Sep 10 1983
INSTANTANEOUS PEAK FLOW			2030	Apr 29	2340	Nov 14 1993
INSTANTANEOUS PEAK STAGE			8.82	Apr 29	10.34	Feb 23 1979
ANNUAL RUNOFF (CFSM)	.83		1.30		1.10	
ANNUAL RUNOFF (INCHES)	11.22		17.75		15.00	
10 PERCENT EXCEEDS	149		289		244	
50 PERCENT EXCEEDS	27		35		47	
90 PERCENT EXCEEDS	5.3		5.9		9.2	

e Estimated

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 downstream from McGregor Road bridge, 0.5 mi east of Acton, and 4.1 mi upstream from mouth.
DRAINAGE AREA.--78.8 mi².
PERIOD OF RECORD.--October 1967 to current year.
REVISED RECORDS.--WDR IN-79-1: 1969 (M).
GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor. Low flow is affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	27	8.9	14	e35	64	533	458	120	31	61	7.8
2	1.5	49	7.9	61	e30	55	308	276	115	29	42	7.2
3	6.4	48	5.9	102	e26	42	191	334	115	26	32	6.0
4	16	42	6.1	e64	e23	35	144	1750	122	23	26	5.4
5	11	40	6.0	e50	e21	47	115	1170	94	22	23	4.9
6	20	39	5.3	e31	e19	174	97	566	200	21	21	4.1
7	13	56	5.3	e25	e20	170	88	367	575	19	20	3.7
8	8.2	63	e5.2	e22	42	99	78	563	274	18	18	4.5
9	7.9	49	e4.6	e20	65	69	70	732	258	19	17	24
10	10	43	e4.2	e18	57	56	64	414	193	19	15	19
11	9.8	114	e4.0	e16	58	49	59	543	311	15	14	12
12	9.0	96	e3.8	e16	48	48	57	303	411	13	13	8.6
13	7.8	39	e4.0	e18	40	49	58	204	198	13	13	6.2
14	7.4	21	e6.9	e19	41	49	55	155	130	13	12	5.1
15	8.8	13	10	e20	37	67	52	689	102	19	49	5.0
16	8.5	9.5	8.3	e24	32	59	60	1370	82	21	47	111
17	7.1	7.3	5.7	564	29	50	51	398	69	15	23	220
18	6.1	8.4	20	1010	27	43	47	240	261	211	20	66
19	6.1	9.6	119	992	27	57	63	169	351	116	16	36
20	8.3	9.4	e92	e420	26	170	312	127	242	84	14	24
21	29	10	e52	e200	25	187	192	104	120	126	12	55
22	20	9.6	e33	120	26	155	165	86	88	354	11	133
23	18	8.9	e23	288	31	166	868	75	98	164	10	69
24	15	8.0	e16	723	32	293	684	73	80	105	42	41
25	13	7.2	e12	293	29	272	319	108	74	110	28	28
26	14	6.9	e9.4	174	36	173	228	349	60	62	18	22
27	16	9.0	e7.8	197	64	121	161	1140	50	46	14	73
28	24	8.3	e6.8	133	111	104	316	730	43	49	12	260
29	29	6.5	e5.6	102	86	121	2430	450	38	43	11	128
30	26	8.4	e4.9	81	---	113	1190	228	34	68	10	51
31	24	---	e5.6	e40	---	142	---	156	---	105	9.0	---
TOTAL	402.4	866.0	509.2	5857	1143	3299	9055	14327	4908	1979	673.0	1440.5
MEAN	13.0	28.9	16.4	189	39.4	106	302	462	164	63.8	21.7	48.0
MAX	29	114	119	1010	111	293	2430	1750	575	354	61	260
MIN	1.5	6.5	3.8	14	19	35	47	73	34	13	9.0	3.7
CFSM	.16	.37	.21	2.40	.50	1.35	3.83	5.86	2.08	.81	.28	.61
IN.	.19	.41	.24	2.76	.54	1.56	4.27	6.76	2.32	.93	.32	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	32.9	100	116	115	139	158	142	121	70.1	71.4	40.4	23.6
MAX	312	463	333	352	349	347	302	462	196	324	216	166
(WY)	1987	1994	1991	1969	1971	1978	1996	1996	1974	1969	1979	1989
MIN	4.08	6.90	8.11	4.09	18.8	27.8	18.5	17.4	6.04	5.97	3.74	2.42
(WY)	1969	1972	1977	1977	1978	1969	1971	1976	1988	1991	1983	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	24772.2		44459.1			
ANNUAL MEAN	67.9		121		93.8	
HIGHEST ANNUAL MEAN					138	1979
LOWEST ANNUAL MEAN					36.7	1977
HIGHEST DAILY MEAN	1690	May 19	2430	Apr 29	3570	Nov 14 1993
LOWEST DAILY MEAN	1.5	Sep 5	1.5	Oct 1	.60	Oct 1 1967
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 26	4.4	Dec 7	1.7	Sep 16 1991
INSTANTANEOUS PEAK FLOW			3120	Apr 29	7140	Jul 20 1969
INSTANTANEOUS PEAK STAGE			11.69	Apr 29	14.99	Jul 20 1969
ANNUAL RUNOFF (CFSM)	.86		1.54		1.19	
ANNUAL RUNOFF (INCHES)	11.69		20.99		16.17	
10 PERCENT EXCEEDS	116		304		209	
50 PERCENT EXCEEDS	29		42		34	
90 PERCENT EXCEEDS	5.5		7.3		6.0	

e Estimated

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 right bank at downstream side of county highway bridge, 0.5 mi southwest of Amity, 2.0 mi upstream from mouth, and 5.0 mi northwest of Edinburgh.
DRAINAGE AREA.--107 mi².
PERIOD OF RECORD.--October 1942 to current year. 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 above sea level. Prior to June 30, 1955, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	9.5	11	32	e82	e250	529	599	222	44	41	6.3
2	5.4	19	11	99	e70	e170	302	372	190	41	31	6.5
3	8.2	20	11	90	e62	e130	201	287	185	39	26	7.1
4	13	20	11	e70	e56	e98	151	1410	166	34	22	7.5
5	16	14	11	e56	e50	e77	118	2060	124	32	20	7.2
6	18	12	10	e48	e48	e130	103	596	287	30	18	7.0
7	15	20	10	e41	e46	e240	94	376	784	29	19	6.6
8	9.2	31	10	e36	e52	e180	86	373	436	29	19	6.3
9	8.6	19	10	e32	123	e140	78	467	247	31	15	11
10	8.9	15	9.4	e29	102	e110	73	333	238	26	13	12
11	8.1	69	8.9	e27	102	e96	69	733	332	23	12	9.1
12	8.3	72	9.0	e25	87	e86	68	429	250	22	12	6.9
13	8.3	34	10	e23	76	e80	72	281	178	21	11	5.9
14	8.0	25	13	e22	79	e75	69	215	167	21	10	5.4
15	7.9	20	14	e25	73	e378	65	386	301	29	9.6	5.6
16	7.8	18	12	e35	67	e403	66	500	159	24	17	25
17	7.4	16	11	745	61	e240	59	294	119	20	16	90
18	6.9	16	31	1470	57	e156	57	215	296	68	12	32
19	6.8	15	148	e1300	58	e142	91	168	260	65	15	19
20	15	15	153	e800	55	e352	215	139	298	37	16	13
21	20	13	81	e370	53	e398	143	118	155	33	11	40
22	15	12	57	188	53	e350	203	98	115	86	9.5	99
23	9.6	12	e40	326	57	e315	1320	87	112	51	9.0	38
24	8.3	11	e32	1090	59	e350	1180	84	89	36	9.2	23
25	7.8	11	e27	430	52	e567	439	130	75	64	10	16
26	8.0	11	e22	266	70	e410	306	526	64	42	9.2	14
27	12	11	e19	295	154	e250	210	1750	58	30	10	43
28	14	11	e17	200	356	e170	574	1490	54	26	9.2	172
29	12	11	e16	160	e310	e165	4550	1730	50	48	8.8	85
30	9.5	11	e15	126	---	144	1890	533	46	79	7.7	45
31	9.0	---	e18	98	---	165	---	308	---	70	7.0	---
TOTAL	317.2	593.5	858.3	8554	2570	6817	13381	17087	6057	1230	455.2	864.4
MEAN	10.2	19.8	27.7	276	88.6	220	446	551	202	39.7	14.7	28.8
MAX	20	72	153	1470	356	567	4550	2060	784	86	41	172
MIN	5.2	9.5	8.9	22	46	75	57	84	46	20	7.0	5.4
CFSM	.10	.18	.26	2.58	.83	2.06	4.17	5.15	1.89	.37	.14	.27
IN.	.11	.21	.30	2.97	.89	2.37	4.65	5.94	2.11	.43	.16	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	21.8	84.2	118	157	175	211	185	150	87.9	72.0	29.5	22.6
MAX	260	593	470	837	441	498	516	551	463	492	231	228
(WY)	1994	1994	1991	1950	1971	1963	1964	1996	1958	1979	1979	1989
MIN	1.82	3.91	2.90	3.13	15.1	40.9	28.3	20.7	6.73	2.03	2.43	2.36
(WY)	1954	1954	1964	1977	1954	1969	1971	1988	1988	1944	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	36502.7		58784.6			
ANNUAL MEAN	100		161		109	
HIGHEST ANNUAL MEAN					176	1979
LOWEST ANNUAL MEAN					20.3	1954
HIGHEST DAILY MEAN	2660	May 19	4550	Apr 29	6260	May 24 1968
LOWEST DAILY MEAN	5.2	Oct 1	5.2	Oct 1	.50	Sep 29 1953
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 26	6.9	Sep 1	.73	Oct 19 1953
INSTANTANEOUS PEAK FLOW			6090	Apr 29	10700	Jan 27 1952
INSTANTANEOUS PEAK STAGE			11.44	Apr 29	13.40	Jan 27 1952
ANNUAL RUNOFF (CFSM)	.93		1.50		1.02	
ANNUAL RUNOFF (INCHES)	12.69		20.44		13.86	
10 PERCENT EXCEEDS	178		372		247	
50 PERCENT EXCEEDS	38		50		35	
90 PERCENT EXCEEDS	9.0		9.1		4.5	

e Estimated

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 upstream from highway bridge in Camp Atterbury, 1.3 mi upstream from confluence with Blue River, 1.5 mi northwest of Edinburgh, and at mile 1.3.
DRAINAGE AREA.--474 mi².
PERIOD OF RECORD.--October 1942 to current year. 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 above sea level. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	56	70	115	e450	682	1870	6630	1200	283	352	68
2	48	67	71	214	e400	523	2140	3010	1000	266	253	66
3	53	75	71	279	e370	405	1390	1850	938	250	206	64
4	59	93	69	339	e340	340	985	3320	921	224	178	63
5	76	80	67	e270	e310	327	762	8680	760	207	161	61
6	77	68	68	e220	e290	583	625	6270	884	195	149	59
7	64	72	67	e190	e270	1250	549	3160	2530	187	140	59
8	60	89	64	e160	e290	802	484	2560	2170	180	135	58
9	52	108	e60	e150	445	577	432	3300	1510	179	124	62
10	49	87	e56	e140	422	436	391	3220	1500	172	116	75
11	49	138	e54	e135	421	379	364	3560	1800	160	109	77
12	51	307	e52	e130	375	358	348	2800	2140	151	105	64
13	71	251	e50	e125	318	348	350	1740	1490	145	103	57
14	76	168	e52	e120	311	343	344	1290	1070	141	99	54
15	75	134	e58	e130	293	919	318	1400	1100	150	95	52
16	69	113	73	e160	268	977	319	3670	1020	148	673	67
17	58	102	70	951	246	666	303	4560	843	142	295	605
18	50	97	92	4080	227	516	283	1790	996	222	168	442
19	45	91	236	5110	233	494	326	1240	1500	632	133	201
20	53	88	495	e3200	225	1100	801	964	1530	353	118	134
21	67	84	456	1520	217	1460	1150	795	922	271	105	129
22	67	81	283	1020	211	1270	923	673	685	904	95	418
23	67	80	e210	1040	218	1190	2660	583	601	908	94	388
24	58	76	e180	3310	235	1660	4780	537	575	563	90	212
25	54	73	e150	2730	225	1750	3010	655	512	488	146	150
26	52	74	e130	1550	245	1260	1850	1380	502	390	111	121
27	56	72	e120	1290	400	892	1260	4340	425	274	95	139
28	60	73	e110	1070	897	723	1430	5720	376	241	89	1010
29	58	72	e100	825	876	685	7730	5250	332	257	82	1060
30	57	71	e94	664	---	693	12000	2640	301	332	77	533
31	55	---	e100	518	---	662	---	1630	---	407	73	---
TOTAL	1836	3040	3828	31755	10028	24270	50177	89217	32133	9422	4769	6548
MEAN	59.2	101	123	1024	346	783	1673	2878	1071	304	154	218
MAX	77	307	495	5110	897	1750	12000	8680	2530	908	673	1060
MIN	45	56	50	115	211	327	283	537	301	141	73	52
CFSM	.12	.21	.26	2.16	.73	1.65	3.53	6.07	2.26	.64	.32	.46
IN.	.14	.24	.30	2.49	.79	1.90	3.94	7.00	2.52	.74	.37	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

MEAN	133	380	515	707	797	947	856	695	426	326	182	126
MAX	983	2591	1742	4000	2192	2281	2076	2878	1608	1564	1348	1295
(WY)	1987	1994	1991	1950	1950	1961	1964	1996	1958	1979	1979	1989
MIN	22.2	33.4	30.4	36.5	74.8	215	170	120	58.7	29.5	25.4	13.4
(WY)	1945	1954	1964	1977	1964	1981	1971	1976	1988	1954	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996	
ANNUAL TOTAL	155960		267023			
ANNUAL MEAN	427		730		506	
HIGHEST ANNUAL MEAN					849	1950
LOWEST ANNUAL MEAN					160	1954
HIGHEST DAILY MEAN	7750	May 19	12000	Apr 30	19200	May 29 1956
LOWEST DAILY MEAN	45	Oct 19	45	Oct 19	9.2	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	52	Sep 26	55	Dec 9	10	Sep 13 1954
INSTANTANEOUS PEAK FLOW			13100	Apr 30	27600	May 29 1956
INSTANTANEOUS PEAK STAGE			15.19	Apr 30	18.38	May 29 1956
ANNUAL RUNOFF (CFSM)	.90		1.54		1.07	
ANNUAL RUNOFF (INCHES)	12.24		20.96		14.49	
10 PERCENT EXCEEDS	851		1760		1150	
50 PERCENT EXCEEDS	221		270		210	
90 PERCENT EXCEEDS	59		62		46	

e Estimated

03363500 FLATROCK RIVER AT ST. PAUL, IN

LOCATION.--Lat 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 downstream from county road bridge, 0.8 mi southwest of St. Paul, 1.5 mi downstream from Mill Creek, and at mile 34.4.
DRAINAGE AREA.--303 mi².
PERIOD OF RECORD.--October 1930 to current year. 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 above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft upstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of approximately 20.5 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	30	38	e110	e360	516	1490	3190	656	162	82	16
2	8.5	36	39	291	e330	406	1450	1610	519	150	70	15
3	11	52	37	261	e300	314	947	1140	436	138	60	15
4	25	55	37	e230	e280	253	687	3650	679	128	54	14
5	32	42	37	e200	e260	268	533	7720	512	116	49	15
6	43	39	36	e180	e250	517	448	2860	582	107	43	15
7	41	42	36	e170	e240	806	404	1810	835	100	40	14
8	28	64	31	e160	e250	556	359	1370	1180	99	37	14
9	22	55	e30	e150	380	384	325	1700	2960	98	33	16
10	19	50	e29	e145	319	343	298	1990	3180	84	31	17
11	16	149	e28	e140	314	278	274	2890	1930	78	28	18
12	15	231	e27	e135	285	263	262	2350	1360	73	27	16
13	14	168	e26	e130	217	258	265	1490	1410	70	27	14
14	13	117	e27	e125	213	251	247	944	835	67	25	13
15	13	92	e31	e120	192	675	233	1690	737	75	23	12
16	13	79	39	e140	165	845	243	5310	756	68	115	20
17	13	71	35	1580	147	570	216	2300	500	69	97	52
18	15	68	82	2860	149	434	205	1190	463	244	56	81
19	20	62	421	4400	149	469	220	844	520	179	44	47
20	24	57	489	2600	142	1050	936	668	763	112	37	32
21	29	55	349	1340	138	1130	1090	528	471	102	33	30
22	32	51	243	704	138	920	747	431	354	140	29	34
23	23	50	e180	888	154	782	3170	357	315	162	28	34
24	20	48	e160	2090	178	1130	3800	333	347	118	30	31
25	19	45	e140	1880	176	1590	2690	655	508	103	29	26
26	19	45	e130	1100	223	1290	1360	1150	302	131	24	e29
27	23	46	e120	836	427	789	906	3430	235	92	23	e39
28	22	46	e110	686	998	615	1350	2590	207	78	22	e70
29	24	42	e100	534	816	554	11100	2720	188	73	21	e250
30	23	39	e94	431	---	500	8170	1240	173	80	20	e200
31	25	---	e90	389	---	515	---	847	---	86	18	---
TOTAL	652.8	2026	3271	25005	8190	19271	44425	60997	23913	3382	1255	1199
MEAN	21.1	67.5	106	807	282	622	1481	1968	797	109	40.5	40.0
MAX	43	231	489	4400	998	1590	11100	7720	3180	244	115	250
MIN	8.3	30	26	110	138	251	205	333	173	67	18	12
CFSM	.07	.22	.35	2.66	.93	2.05	4.89	6.49	2.63	.36	.13	.13
IN.	.08	.25	.40	3.07	1.01	2.37	5.45	7.49	2.94	.42	.15	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	85.7	221	343	499	525	590	578	454	267	190	94.6	68.0
MAX	585	1342	1567	3450	1808	1605	1534	1968	991	915	716	392
(WY)	1937	1994	1991	1937	1950	1961	1964	1996	1947	1979	1979	1989
MIN	1.96	9.67	9.98	15.1	27.7	41.8	51.9	42.9	19.7	9.28	4.06	3.37
(WY)	1964	1954	1964	1977	1935	1941	1941	1934	1934	1936	1988	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	96052.2		193586.8			
ANNUAL MEAN	263		529		325	
HIGHEST ANNUAL MEAN					642	1950
LOWEST ANNUAL MEAN					40.6	1941
HIGHEST DAILY MEAN	4780	May 19	11100	Apr 29	16500	Jan 5 1949
LOWEST DAILY MEAN	8.2	Sep 30	8.3	Oct 1	.60	Aug 7 1931
ANNUAL SEVEN-DAY MINIMUM	9.1	Sep 26	14	Oct 12	.80	Oct 12 1963
INSTANTANEOUS PEAK FLOW			13600	Apr 29	18500	Jan 5 1949
INSTANTANEOUS PEAK STAGE			10.92	Apr 29	12.37	May 24 1968
ANNUAL RUNOFF (CFSM)	.87		1.75		1.07	
ANNUAL RUNOFF (INCHES)	11.79		23.77		14.59	
10 PERCENT EXCEEDS	596		1360		752	
50 PERCENT EXCEEDS	137		149		132	
90 PERCENT EXCEEDS	15		22		16	

e Estimated

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, 0.2 mi northwest of Columbus city limits, and 2.6 mi upstream from mouth.
DRAINAGE AREA.--534 mi².
PERIOD OF RECORD.--October 1967 to current year.
GAGE.--Water-stage recorder. Datum of gage is 610.14 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	61	89	194	605	1120	2070	10200	1390	358	198	82
2	52	65	87	387	560	846	2720	4320	1110	342	193	80
3	56	69	87	550	529	692	1930	2520	939	322	180	76
4	55	73	86	447	472	559	1370	2890	912	306	170	73
5	60	84	84	e360	e430	521	1060	10300	950	288	160	71
6	73	87	83	e290	e410	689	863	10300	811	276	153	70
7	78	85	83	e240	e380	1330	771	4200	1170	264	147	70
8	86	85	83	e220	e410	1150	698	3100	1570	257	138	70
9	78	91	81	e200	533	785	628	2980	3280	254	129	80
10	71	98	71	e190	632	632	576	3330	4530	244	121	74
11	67	119	e66	e185	594	575	534	4610	3800	229	116	71
12	63	252	e64	e180	558	522	508	5240	2660	222	114	69
13	60	327	e62	e175	481	507	500	3620	2060	215	112	69
14	58	260	e64	e170	445	495	486	2150	1610	211	110	67
15	56	205	e70	e180	428	637	449	1920	1160	215	106	66
16	54	170	86	e250	381	1630	443	5610	1100	212	102	75
17	53	152	85	1330	345	1190	419	7100	897	205	144	79
18	52	142	98	4600	320	898	383	3150	861	219	157	88
19	52	133	259	6220	314	781	380	1890	921	367	130	118
20	58	125	1010	5730	317	1490	1050	1400	1180	294	116	103
21	61	118	802	3050	306	2090	1820	1130	969	254	106	100
22	64	114	551	1690	296	1830	1370	952	722	252	99	106
23	64	111	e380	1560	299	1550	2420	823	647	277	108	99
24	66	106	e290	3340	322	1830	7460	751	580	271	120	95
25	62	102	e240	3290	331	2480	5360	780	690	243	108	91
26	60	99	e200	2360	347	2190	2920	1460	596	232	107	85
27	63	97	e180	1670	559	1580	1870	4400	488	238	104	95
28	63	96	e160	1430	1670	1170	1590	6940	435	212	97	150
29	63	96	e150	1150	1670	1020	9290	6110	404	201	92	389
30	61	93	e140	962	---	923	17100	3810	379	196	88	325
31	60	---	e165	773	---	868	---	2030	---	198	85	---
TOTAL	1922	3715	5956	43373	14944	34580	69038	120016	38821	7874	3910	3086
MEAN	62.0	124	192	1399	515	1115	2301	3871	1294	254	126	103
MAX	86	327	1010	6220	1670	2480	17100	10300	4530	367	198	389
MIN	52	61	62	170	296	495	380	751	379	196	85	66
CFSM	.12	.23	.36	2.62	.97	2.09	4.31	7.25	2.42	.48	.24	.19
IN.	.13	.26	.41	3.02	1.04	2.41	4.81	8.36	2.70	.55	.27	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	167	468	687	752	967	980	1001	940	489	401	269	157
MAX	912	2336	2092	1827	2524	2223	2301	3871	1294	1556	1296	837
(WY)	1994	1994	1991	1969	1982	1978	1996	1996	1996	1979	1979	1989
MIN	33.2	47.6	44.8	30.6	189	204	251	132	77.2	50.8	35.0	30.1
(WY)	1992	1977	1977	1977	1992	1992	1976	1976	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	163963		347235			
ANNUAL MEAN	449		949		605	
HIGHEST ANNUAL MEAN					949	1996
LOWEST ANNUAL MEAN					271	1977
HIGHEST DAILY MEAN	7380	May 19	17100	Apr 30	18200	Dec 31 1990
LOWEST DAILY MEAN	52	Sep 30	52	Oct 2	22	Oct 5 1967
ANNUAL SEVEN-DAY MINIMUM	54	Sep 26	55	Oct 14	23	Oct 1 1967
INSTANTANEOUS PEAK FLOW			18400	Apr 30	20000	May 25 1968
INSTANTANEOUS PEAK STAGE			15.30	Apr 30	15.87	May 25 1968
ANNUAL RUNOFF (CFSM)	.84		1.78		1.13	
ANNUAL RUNOFF (INCHES)	11.42		24.19		15.39	
10 PERCENT EXCEEDS	966		2490		1350	
50 PERCENT EXCEEDS	252		292		316	
90 PERCENT EXCEEDS	64		69		60	

e Estimated

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 mi downstream from confluence of Driftwood River and Flatrock River, 1.3 mi upstream from Haw Creek, and at mile 238.7.
DRAINAGE AREA.--1,707 mi².
PERIOD OF RECORD.--October 1947 to current year. 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 above sea level. Prior to Oct. 22, 1952, nonrecording gage 600 ft upstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	295	332	597	1460	2680	4870	31300	4360	1210	1040	328
2	237	313	328	795	1330	1840	7370	16800	3640	1180	887	315
3	252	330	328	1110	1250	1470	5560	7830	3120	1140	784	307
4	259	365	322	945	1190	1290	4010	8270	2990	1110	705	297
5	287	389	316	e820	e1100	1250	3070	19400	2930	1070	650	289
6	340	372	311	e720	e1050	1570	2320	28100	2470	1040	609	281
7	337	376	312	e640	e1000	3530	1950	16000	4470	999	578	281
8	349	380	309	e580	e1100	3130	1710	11000	5890	967	550	275
9	323	418	307	e540	1300	1910	1510	10500	6130	944	514	315
10	300	430	256	e520	1380	1480	1390	12000	8530	915	488	292
11	284	572	e240	e500	1350	1340	1340	15200	8940	884	461	317
12	277	737	e230	e490	1310	1280	1300	13800	6900	839	444	295
13	276	889	e220	e480	1230	1260	1290	9590	6090	801	431	271
14	290	737	e250	e470	1170	1240	1300	5920	4750	785	421	259
15	289	621	e280	e500	1160	1660	1250	5690	4130	813	404	250
16	281	576	339	e700	1120	3810	1230	11200	3850	791	729	326
17	274	516	327	2710	1070	2600	1210	16900	3210	781	1040	536
18	265	481	461	9770	1030	1850	1170	11200	3570	1250	754	1130
19	259	455	1200	15100	1000	1630	1210	5680	4290	1140	591	778
20	288	436	1860	15100	998	3470	3740	4360	4660	1060	519	568
21	300	418	1520	8510	983	5290	4930	3590	3620	1040	474	572
22	310	401	1180	4500	959	4850	3920	2970	2520	1200	437	695
23	323	393	e880	4130	954	4330	7620	2380	2110	1700	463	976
24	308	380	e760	8140	991	5230	15200	2090	1840	1340	476	753
25	287	366	e660	10400	1000	6490	14800	2210	2020	1190	491	579
26	280	358	e600	6820	1090	5580	9280	4220	1850	1160	491	492
27	294	353	e540	4710	1300	4110	5460	10500	1500	1070	434	604
28	296	347	e480	4140	3400	3060	5180	16200	1360	942	406	1160
29	294	345	e440	3200	3790	2650	19400	16800	1300	894	385	2420
30	291	337	e400	2430	---	2390	37600	12100	1250	951	366	1480
31	287	---	e450	1840	---	2220	---	5820	---	962	347	---
TOTAL	8980	13386	16438	111907	38065	86490	172190	339620	114290	32168	17369	17441
MEAN	290	446	530	3610	1313	2790	5740	10960	3810	1038	560	581
MAX	349	889	1860	15100	3790	6490	37600	31300	8940	1700	1040	2420
MIN	237	295	220	470	954	1240	1170	2090	1250	781	347	250
CFSM	.17	.26	.31	2.11	.77	1.63	3.36	6.42	2.23	.61	.33	.34
IN.	.20	.29	.36	2.44	.83	1.88	3.75	7.40	2.49	.70	.38	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	550	1380	1978	2652	3024	3259	3095	2590	1536	1285	777	528
MAX	2957	8137	6004	14400	8640	8014	7466	10960	5565	4990	5185	3696
(WY)	1987	1994	1967	1950	1950	1963	1964	1996	1958	1958	1979	1989
MIN	104	172	191	163	342	829	852	532	325	161	136	101
(WY)	1995	1955	1964	1977	1964	1954	1971	1976	1988	1954	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	515545		968344			
ANNUAL MEAN	1412		2646		1882	
HIGHEST ANNUAL MEAN					3304	1950
LOWEST ANNUAL MEAN					534	1954
HIGHEST DAILY MEAN	21500	May 20	37600	Apr 30	49000	Mar 6 1963
LOWEST DAILY MEAN	190	Jan 5	220	Dec 13	85	Sep 22 1994
ANNUAL SEVEN-DAY MINIMUM	229	Jan 4	255	Dec 9	90	Sep 28 1954
INSTANTANEOUS PEAK FLOW			39700	Apr 30	52300	Mar 6 1963
INSTANTANEOUS PEAK STAGE			14.20	Apr 30	16.23	Mar 6 1963
ANNUAL RUNOFF (CFSM)	.83		1.55		1.10	
ANNUAL RUNOFF (INCHES)	11.24		21.10		14.98	
10 PERCENT EXCEEDS	3270		6840		4240	
50 PERCENT EXCEEDS	759		1040		960	
90 PERCENT EXCEEDS	287		295		250	

e Estimated

03364500 CLIFTY CREEK AT HARTSVILLE, IN

LOCATION.--Lat 39°16'25", long 85°42'10", in NW¼NW¼ sec.36, T.10 N., R.7 E., Bartholomew County, Hydrologic Unit 05120206, at downstream side of left abutment of county highway bridge, 0.2 mi north of Hartsville, 5.9 mi upstream from Duck Creek, and at mile 22.0.
DRAINAGE AREA.--91.4 mi².
PERIOD OF RECORD.--February 1948 to current year.
REVISED RECORDS.--WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area. WDR IN-74-1: 1973.
GAGE.--Water-stage recorder. Datum of gage is 677.34 ft above sea level. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached an elevation of 702.4 ft above sea level, from floodmarks, upstream from bridge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	12	16	70	e80	167	842	466	116	27	13	.31
2	.41	17	17	236	e73	132	460	304	96	26	11	.29
3	1.3	47	16	209	e68	93	270	210	82	24	9.8	.22
4	9.5	39	15	154	e66	79	196	921	71	22	8.7	.24
5	11	25	14	117	e64	95	151	1280	71	20	7.8	.25
6	110	17	14	e94	e63	540	128	376	143	18	7.1	.24
7	46	19	13	e74	e61	492	113	247	315	18	6.4	.23
8	19	36	12	e64	e66	217	99	276	340	17	6.2	.39
9	12	43	e11	e61	124	139	87	318	1770	19	5.4	1.8
10	8.1	29	e9.2	e58	101	109	78	263	374	17	4.6	.95
11	6.5	154	e9.0	e56	94	97	73	2780	386	15	4.1	.74
12	5.3	247	e8.9	e54	79	94	69	640	333	13	3.8	.50
13	4.7	120	e8.8	e53	65	92	70	306	180	12	3.6	.36
14	5.4	82	e12	e52	64	88	65	198	127	12	3.2	.35
15	5.7	63	18	e60	57	193	60	864	103	15	2.9	.37
16	5.0	53	17	112	49	247	63	1040	83	13	2.7	1.7
17	5.0	45	13	1480	41	154	54	348	69	18	2.6	1.9
18	5.3	41	70	1700	e40	115	50	219	144	112	2.5	1.8
19	6.0	38	550	1660	e40	144	59	148	159	93	2.3	1.9
20	9.5	32	500	426	42	534	949	114	109	40	2.0	1.9
21	13	31	258	249	41	477	414	93	71	34	2.2	3.0
22	21	29	164	185	41	366	236	77	67	114	1.7	3.9
23	15	26	120	474	47	300	2050	66	67	54	1.5	2.4
24	12	24	e90	1170	50	648	1010	63	52	34	3.4	2.1
25	10	21	e71	447	44	892	428	70	44	28	1.6	1.6
26	8.8	21	e60	275	97	381	282	335	37	22	.89	1.5
27	11	23	e51	285	308	207	191	1190	34	18	1.2	38
28	11	21	e44	200	580	157	713	835	32	15	1.4	53
29	12	20	e39	157	276	144	6230	488	30	15	.80	21
30	12	16	e35	124	---	133	1670	243	28	15	.47	12
31	13	---	e43	90	---	129	---	156	---	15	.34	---
TOTAL	414.91	1391	2318.9	10446	2821	7655	17160	14934	5533	915	125.20	154.94
MEAN	13.4	46.4	74.8	337	97.3	247	572	482	184	29.5	4.04	5.16
MAX	110	247	550	1700	580	892	6230	2780	1770	114	13	53
MIN	.40	12	8.8	52	40	79	50	63	28	12	.34	.22
CFSM	.15	.51	.82	3.69	1.06	2.70	6.26	5.27	2.02	.32	.04	.06
IN.	.17	.57	.94	4.25	1.15	3.12	6.98	6.08	2.25	.37	.05	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	21.5	74.3	118	162	166	184	160	135	65.5	56.1	33.6	18.9
MAX	183	431	515	874	551	465	572	482	209	242	264	261
(WY)	1978	1986	1991	1949	1950	1961	1996	1996	1958	1992	1995	1974
MIN	.000	.000	.13	1.47	7.17	21.1	17.7	10.9	1.16	.000	.000	.000
(WY)	1954	1954	1954	1977	1954	1954	1976	1976	1988	1954	1954	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	39918.12		63868.95			
ANNUAL MEAN	109		175		99.3	
HIGHEST ANNUAL MEAN					197	1950
LOWEST ANNUAL MEAN					9.00	1954
HIGHEST DAILY MEAN	2190	Aug 6	6230	Apr 29	6230	Apr 29 1996
LOWEST DAILY MEAN	.40	Oct 1	.22	Sep 3	.00	Oct 14 1948
ANNUAL SEVEN-DAY MINIMUM	.72	Sep 26	.25	Sep 1	.00	Sep 2 1951
INSTANTANEOUS PEAK FLOW			7740	Apr 29	11300	Jan 21 1959
INSTANTANEOUS PEAK STAGE			11.90	Apr 29	14.29	Jan 21 1959
ANNUAL RUNOFF (CFSM)	1.20		1.91		1.09	
ANNUAL RUNOFF (INCHES)	16.25		25.99		14.77	
10 PERCENT EXCEEDS	257		418		219	
50 PERCENT EXCEEDS	41		53		32	
90 PERCENT EXCEEDS	4.9		2.2		.84	

e Estimated

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 downstream from highway bridge, 1 mi north of Seymour, 9.5 mi downstream from Sand Creek, and at mile 214.6.
DRAINAGE AREA.--2,341 mi².
PERIOD OF RECORD.--October 1927 to current year. 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 above sea level. Oct. 1, 1927 to July 2, 1931, nonrecording gage 1,700 ft upstream at datum 7.61 ft higher. July 3, 1931 to July 16, 1934, nonrecording gage at site 100 ft downstream at present datum.
REMARKS.--Records good except for estimated daily discharges, which are fair.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 21.0 ft, from information by Corps of Engineers and Indiana Department of Highways, discharge, 120,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	314	486	847	2880	4610	5760	43500	7560	2240	1170	501
2	322	350	473	1060	e2400	3450	11200	32500	5710	2120	1140	483
3	329	360	469	1620	e2100	2780	9570	17600	4900	2010	1020	471
4	351	402	464	e1330	e1900	2260	6510	12700	4400	1880	936	457
5	371	419	460	e1160	e1800	1990	4630	19400	4320	1770	875	446
6	980	410	451	e1020	e1700	2850	3700	32900	4050	1680	826	432
7	683	416	448	e920	e1600	5140	3180	30900	6540	1600	790	429
8	526	399	445	e860	e1730	5260	2850	18300	9930	1540	780	435
9	460	402	447	e800	2000	3740	2570	16900	10800	1470	e750	477
10	413	467	394	e750	2330	2780	2340	14100	12300	1410	e720	454
11	379	833	e393	e720	2310	2360	2160	22500	13000	1340	e690	448
12	356	1900	e380	e690	2200	2110	2040	32100	11700	1270	e660	455
13	338	1380	e370	e670	1990	1970	1960	17700	9900	1210	e640	434
14	330	1170	e360	e660	1830	1910	1940	11200	8270	1150	e620	420
15	326	960	465	e900	1750	1870	1870	9040	6820	1160	e590	408
16	320	842	521	e1300	1640	2960	1770	19100	5830	1200	e580	453
17	312	774	547	3250	1530	3870	1720	19500	5290	1150	e800	542
18	307	719	832	13500	1430	3010	1630	21200	4900	1110	e1100	900
19	300	676	3260	25200	1380	2580	1640	11500	6690	1260	e800	1000
20	311	643	6400	23500	1370	3670	4100	7790	7130	1840	706	766
21	328	618	3390	16900	1350	5990	9810	5920	6540	1500	659	661
22	328	589	2290	9410	1340	6810	6580	5020	4840	1350	626	800
23	354	571	1750	6520	1320	6800	6820	4420	5130	1980	600	898
24	358	552	1400	12200	1330	6800	25800	3970	4230	2130	753	937
25	336	537	e1190	15000	1340	12900	21800	3730	3550	1760	680	772
26	318	524	e1040	12200	1390	11000	16900	3900	3540	1550	653	672
27	317	513	e940	8680	2770	7390	10400	7220	3140	1410	636	643
28	322	508	e870	6580	4490	4920	6940	20000	2790	1240	613	2050
29	314	498	e800	5280	5860	4060	29400	27900	2540	1120	602	2870
30	311	495	e750	4310	---	3750	58900	22600	2380	1090	547	2690
31	315	---	e720	3560	---	3410	---	12400	---	1120	518	---
TOTAL	11643	19241	33205	181397	59060	135000	266490	527510	188720	46660	23080	23404
MEAN	376	641	1071	5852	2037	4355	8883	17020	6291	1505	745	780
MAX	980	1900	6400	25200	5860	12900	58900	43500	13000	2240	1170	2870
MIN	300	314	360	660	1320	1870	1630	3730	2380	1090	518	408
CFSM	.16	.27	.46	2.50	.87	1.86	3.79	7.27	2.69	.64	.32	.33
IN.	.19	.31	.53	2.88	.94	2.15	4.23	8.38	3.00	.74	.37	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	711	1634	2538	3837	3978	4579	4344	3509	2088	1571	971	646
MAX	3599	11570	9245	19560	12290	10690	9211	17020	7164	6040	8795	4244
(WY)	1994	1994	1928	1950	1950	1963	1944	1996	1947	1979	1979	1989
MIN	162	182	207	192	373	299	356	264	394	199	148	136
(WY)	1941	1935	1964	1977	1931	1941	1941	1941	1931	1941	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	864275		1515410			
ANNUAL MEAN	2368		4140		2527	
HIGHEST ANNUAL MEAN					4575	1950
LOWEST ANNUAL MEAN					287	1941
HIGHEST DAILY MEAN	42300	May 19	58900	Apr 30	63500	Jan 6 1949
LOWEST DAILY MEAN	300	Oct 19	300	Oct 19	86	Sep 28 1941
ANNUAL SEVEN-DAY MINIMUM	315	Oct 15	315	Oct 15	93	Sep 25 1941
INSTANTANEOUS PEAK FLOW			63600	Apr 30	78500	Jan 5 1949
INSTANTANEOUS PEAK STAGE			19.07	Apr 30	19.67	Jan 5 1949
ANNUAL RUNOFF (CFSM)	1.01		1.77		1.08	
ANNUAL RUNOFF (INCHES)	13.73		24.08		14.67	
10 PERCENT EXCEEDS	5030		11600		5690	
50 PERCENT EXCEEDS	1230		1420		1210	
90 PERCENT EXCEEDS	377		402		298	

e Estimated

03365575 VON FANGE DITCH AT SEYMOUR, IN

LOCATION.--Lat 38°56'42", long 85°54'54", in NW¼SE¼ sec. 24, T.6 N., R.5 E., Jackson County, Hydrologic Unit 05120206, on left bank 4500 ft upstream of U.S. 50 bridge over Von Fange Ditch, 1.5 mi southwest of Seymour, 1.0 mi north of Freeman Municipal Airport, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--4.17 mi^2.

PERIOD OF RECORD.--October 17, 1994 to current year.

GAGE.--Water-stage recorder and Acoustic Velocity Meter. Datum of gage is 557.30 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and discharges below 1.0 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	e2.7	e.00	.81	1.6	1.7	22	14	1.9	.46	.22	e.00
2	e.00	2.8	e.00	5.3	e.75	1.4	6.8	8.8	3.3	.47	.19	e.00
3	e3.5	.52	e.00	5.8	e.50	1.4	4.4	17	3.4	.41	.15	e.00
4	.16	e.00	e.00	1.3	e.25	.87	3.3	32	1.9	.34	.12	e.00
5	3.9	e.00	e.00	e.10	e.15	5.5	2.1	13	1.1	.33	.12	e.00
6	.40	e.00	e.00	e.00	e.08	3.4	1.8	8.3	9.3	.26	.10	e.00
7	e.02	e1.6	e.00	e.00	e.05	1.5	1.4	5.6	34	.61	.08	e.00
8	e.00	.08	e.00	e.00	e.15	1.4	1.4	22	12	.49	10	e.00
9	e.00	e.00	e.00	e.00	.47	.95	1.2	12	8.9	.23	.67	e1.6
10	e.00	e.53	e.00	e.00	.50	.76	1.1	11	23	.17	.24	e.00
11	e.00	12	e.00	e.00	.88	.75	1.0	67	17	.16	.18	e.00
12	e.00	.75	e.09	e.00	.79	.78	.98	14	7.7	.21	.13	e.00
13	e.00	.32	1.6	e.50	.77	.72	1.5	8.5	4.7	.20	.10	e.00
14	e.00	.18	.21	6.8	.82	.58	.95	5.9	4.1	2.8	.08	e.00
15	e.00	.03	e4.2	1.7	.69	.58	.81	25	3.0	6.4	.06	e.00
16	e.00	e.00	2.1	2.3	.64	.47	.81	12	1.9	.65	.02	e11
17	e.00	e.01	e.07	23	.56	.57	.63	7.1	1.5	.53	.14	.14
18	e.00	e.13	e16	26	.56	.41	.63	4.2	12	.49	.56	e.00
19	e.00	e.00	34	16	.58	4.8	.73	3.0	3.2	.40	.05	e.00
20	e3.7	e.00	7.3	5.3	.79	9.3	27	2.4	1.9	.33	e.00	e.00
21	e.08	e.00	e1.0	3.7	.55	5.4	4.2	1.8	1.5	.41	e.00	e2.8
22	e.00	e.00	e.15	3.2	.48	5.5	2.7	1.4	1.2	.32	e.00	.16
23	e.00	e.00	e.00	22	.49	6.0	37	1.3	1.6	.27	e.00	e.00
24	e.00	e.00	e.00	19	.37	11	9.8	1.3	1.1	.43	1.7	e.00
25	e.00	e.00	e.00	6.4	.36	9.7	e36	1.0	.91	1.0	e.00	e.00
26	e.00	e.00	e.00	5.1	4.0	5.0	e18	3.6	.82	.27	e.00	e1.8
27	e.62	e.00	e.00	4.9	8.4	3.1	e4.5	9.2	.71	.18	e.00	16
28	e.00	e.00	e.00	2.9	6.5	3.2	e40	18	.67	.22	e.00	9.6
29	e.00	e.00	e.00	2.6	2.2	5.6	180	14	.58	.17	e.00	.40
30	e.00	e.00	e.00	2.1	---	2.7	39	4.8	.52	3.2	e.00	.16
31	e.00	---	e.15	2.2	---	6.2	---	2.9	---	1.8	e.00	---
TOTAL	12.38	21.65	66.87	169.01	34.93	101.24	451.74	352.1	165.41	24.21	14.91	43.66
MEAN	.40	.72	2.16	5.45	1.20	3.27	15.1	11.4	5.51	.78	.48	1.46
MAX	3.9	12	34	26	8.4	11	180	67	34	6.4	10	16
MIN	.00	.00	.00	.00	.05	.41	.63	1.0	.52	.16	.00	.00
CFSM	.10	.17	.52	1.31	.29	.78	3.61	2.72	1.32	.19	.12	.35
IN.	.11	.19	.60	1.51	.31	.90	4.03	3.14	1.48	.22	.13	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	.23	.69	2.18	3.46	1.43	2.80	10.4	11.8	4.14	1.65	1.75	.81
MAX	.40	.72	2.21	5.45	1.67	3.27	15.1	12.3	5.51	2.53	3.01	1.46
(WY)	1996	1996	1995	1996	1995	1996	1996	1995	1996	1995	1995	1996
MIN	.059	.66	2.16	1.48	1.20	2.33	5.70	11.4	2.76	.78	.48	.17
(WY)	1995	1995	1996	1995	1996	1995	1995	1996	1995	1996	1996	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1995 - 1996	
ANNUAL TOTAL	1078.42		1458.11			
ANNUAL MEAN	2.95		3.98		3.46	
HIGHEST ANNUAL MEAN					3.98	1996
LOWEST ANNUAL MEAN					2.92	1995
HIGHEST DAILY MEAN	83	May 18	180	Apr 29	180	Apr 29 1996
LOWEST DAILY MEAN	.00	Jan 3	.00	Oct 1	.00	Oct 1 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 22	.00	Oct 8	.00	Oct 1 1994
INSTANTANEOUS PEAK FLOW			225	Apr 29	225	Apr 29 1996
INSTANTANEOUS PEAK STAGE			6.71	Apr 29	6.71	Apr 29 1996
INSTANTANEOUS LOW FLOW					.00	Oct 1 1994
ANNUAL RUNOFF (CFSM)	.71		.96		.83	
ANNUAL RUNOFF (INCHES)	9.62		13.01		11.26	
10 PERCENT EXCEEDS	8.1		11		9.3	
50 PERCENT EXCEEDS	.65		.58		.65	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

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, mounted on left downstream wingwall of bridge on County Road 533 West, 0.2 mi west of Smyrna, 3.7 mi upstream from Big Creek, and 4 mi northwest of Madison.
DRAINAGE AREA.--9.31 mi².
PERIOD OF RECORD.--August 1968 to current year.
GAGE.--Water-stage recorder. Datum of gage is 725.75 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.19	.38	15	4.8	12	295	33	4.5	1.6	.53	.19
2	.00	1.3	.46	25	4.0	10	40	19	4.7	2.9	.49	.13
3	.00	.84	.44	19	3.3	7.3	19	329	4.0	1.0	.44	2.2
4	.02	.43	.38	12	e3.0	5.8	13	530	2.7	.70	.40	.69
5	37	.30	.34	9.1	e2.7	17	13	53	2.0	.57	.38	.34
6	5.4	.26	.32	6.9	e2.3	80	9.6	24	46	.51	.37	.36
7	.38	.30	.35	6.4	e1.9	23	7.9	15	199	72	.33	.32
8	.23	.43	.32	e8.0	e2.9	13	6.9	121	284	39	.38	.27
9	.19	.36	.32	e5.5	7.3	8.8	6.2	72	121	6.3	.34	13
10	.16	.29	.21	e4.1	5.5	7.4	5.2	67	44	2.8	.29	2.0
11	.15	11	.19	e3.3	6.0	6.6	4.0	411	17	1.6	.26	.64
12	.14	4.7	.32	e2.8	4.9	6.2	3.5	37	11	1.2	.26	.47
13	.14	2.0	.43	e2.4	4.3	5.9	4.2	16	8.1	.98	.27	.38
14	.11	1.8	2.7	e1.9	4.9	5.4	7.6	11	8.0	8.5	.24	.34
15	.10	.95	1.6	e1.7	4.5	11	8.9	312	9.8	34	.17	.31
16	.10	.68	20	e1.5	3.7	10	14	64	5.3	6.4	.21	63
17	.10	.55	7.3	e1.6	2.7	8.7	8.3	20	3.7	3.3	.27	7.6
18	.10	.53	107	e2.0	2.5	7.4	5.8	12	3.1	2.3	.24	2.3
19	.10	.48	170	e8.0	2.4	177	5.3	8.3	2.5	14	.22	1.1
20	.37	.44	39	20	17	97	274	6.4	1.8	15	.19	.80
21	.50	.41	14	12	14	48	28	4.9	1.4	4.6	.15	4.2
22	.25	.37	9.5	9.6	9.2	39	14	3.6	1.2	2.9	.10	7.2
23	.18	.43	7.0	164	8.0	56	184	2.7	1.0	2.1	.09	2.1
24	.15	.40	4.9	221	6.7	80	40	2.1	15	1.5	.71	1.2
25	.14	.37	3.5	28	5.1	51	17	1.8	5.7	1.2	.37	.88
26	.14	.35	2.6	17	6.5	22	26	8.8	2.3	1.1	.28	.79
27	.19	.37	1.8	20	57	13	13	100	1.3	.84	.89	90
28	.27	.45	1.5	11	90	11	221	34	.97	.73	.88	142
29	.27	.41	1.2	8.9	19	34	1110	24	.79	.72	.36	17
30	.23	.37	1.2	7.9	---	18	131	10	.70	.68	.28	7.7
31	.20	---	2.5	5.4	---	32	---	6.5	---	.64	.23	---
TOTAL	47.31	31.76	401.76	661.0	306.1	923.5	2535.4	2359.1	812.56	231.67	10.62	369.51
MEAN	1.53	1.06	13.0	21.3	10.6	29.8	84.5	76.1	27.1	7.47	.34	12.3
MAX	37	11	170	221	90	177	1110	530	284	72	.89	142
MIN	.00	.19	.19	1.5	1.9	5.4	3.5	1.8	.70	.51	.09	.13
CFSM	.16	.11	1.39	2.29	1.13	3.20	9.08	8.17	2.91	.80	.04	1.32
IN.	.19	.13	1.61	2.64	1.22	3.69	10.13	9.43	3.25	.93	.04	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	3.91	13.7	18.6	18.4	20.7	25.6	25.2	17.8	6.85	4.30	4.34	2.29
MAX	28.8	48.6	64.1	57.5	51.9	52.0	84.5	76.1	27.2	14.7	28.2	18.7
(WY)	1984	1980	1991	1982	1971	1975	1996	1996	1982	1993	1992	1979
MIN	.081	.29	1.52	.49	1.47	4.72	2.65	1.12	.083	.21	.11	.003
(WY)	1970	1982	1977	1977	1992	1969	1976	1976	1988	1991	1975	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	4258.03		8690.29			
ANNUAL MEAN	11.7		23.7		13.4	
HIGHEST ANNUAL MEAN					23.7	1996
LOWEST ANNUAL MEAN					6.13	1981
HIGHEST DAILY MEAN	380	May 18	1110	Apr 29	1110	Apr 29 1996
LOWEST DAILY MEAN	.00	Jul 18	.00	Oct 1	.00	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 28	.11	Oct 13	.00	Aug 26 1969
INSTANTANEOUS PEAK FLOW			1970	Apr 29	2150	May 16 1990
INSTANTANEOUS PEAK STAGE			7.67	Apr 29	8.96	May 16 1990
ANNUAL RUNOFF (CFSM)	1.25		2.55		1.44	
ANNUAL RUNOFF (INCHES)	17.01		34.72		19.62	
10 PERCENT EXCEEDS	31		47		26	
50 PERCENT EXCEEDS	1.8		3.3		2.5	
90 PERCENT EXCEEDS	.00		.24		.09	

e Estimated

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 mi northwest of Deputy, 1.9 mi upstream from Coffee Creek, 2.4 mi downstream from confluence of Graham Creek and Big Creek, and at mile 50.0.
DRAINAGE AREA.--293 mi².
PERIOD OF RECORD.--November 1947 to current year.
REVISED RECORDS.--WSP 1335: 1948. WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 540.00 ft above sea level. Prior to June 22, 1955, nonrecording gage at same site. Prior to Aug. 25, 1983, at datum 1.17 ft higher.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	22	153	144	376	5830	1540	248	338	20	13
2	18	18	20	372	e130	281	2360	787	213	407	17	10
3	20	20	20	741	e120	224	758	3400	205	139	14	8.8
4	24	22	20	e600	e110	177	467	8060	189	106	13	26
5	514	24	19	e400	e100	174	390	2660	168	89	12	19
6	941	22	18	e280	e94	1700	334	988	401	78	11	15
7	212	24	17	e210	e90	952	270	603	4220	2220	10	12
8	78	37	17	e160	e86	454	233	1130	e2500	5230	10	9.8
9	49	23	19	e130	e100	289	206	2860	e350	373	9.8	268
10	36	15	15	e110	180	225	182	978	e1800	211	8.9	110
11	27	40	14	e90	174	199	162	10300	867	159	8.5	36
12	20	148	13	e78	158	187	149	2720	498	129	8.5	21
13	14	148	16	e68	136	179	142	820	362	113	8.5	14
14	10	91	28	e80	127	169	152	508	303	104	8.4	10
15	7.5	69	38	e100	128	241	155	2350	1540	322	8.1	9.0
16	6.9	57	196	e400	121	253	185	3990	451	130	8.4	574
17	6.4	49	386	3560	107	211	206	928	254	70	8.4	366
18	7.2	44	1640	2570	98	186	172	517	212	54	8.8	162
19	8.7	40	4730	5900	98	1170	149	367	676	44	8.0	80
20	11	38	3420	1190	115	3280	3960	290	460	136	7.8	44
21	14	37	656	445	216	1710	1770	245	261	102	7.5	41
22	15	35	342	309	221	1190	539	215	182	58	7.2	148
23	18	33	247	1730	187	1300	3590	193	899	43	7.0	100
24	14	32	196	6040	170	2320	3610	178	471	35	18	77
25	12	29	164	1580	147	2020	821	171	e290	52	14	45
26	11	26	e120	598	132	995	617	235	e190	56	11	34
27	12	24	e94	514	259	487	482	755	141	37	11	323
28	14	25	e74	413	2330	354	1020	985	118	27	68	1930
29	13	24	e60	271	781	745	22300	2780	101	23	43	741
30	13	21	e48	232	---	691	7500	780	92	21	32	264
31	14	---	e70	189	---	470	---	358	---	23	19	---
TOTAL	2175.7	1229	12739	29513	6859	23209	58711	52691	18662	10929	446.8	5510.6
MEAN	70.2	41.0	411	952	237	749	1957	1700	622	353	14.4	184
MAX	941	148	4730	6040	2330	3280	22300	10300	4220	5230	68	1930
MIN	6.4	14	13	68	86	169	142	171	92	21	7.0	8.8
CFSM	.24	.14	1.40	3.25	.81	2.56	6.68	5.80	2.12	1.20	.05	.63
IN.	.28	.16	1.62	3.75	.87	2.95	7.45	6.69	2.37	1.39	.06	.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	61.0	259	442	617	638	724	580	456	208	160	91.8	48.9
MAX	720	1438	1723	2896	1826	2055	1957	1967	879	661	748	480
(WY)	1984	1980	1991	1950	1950	1964	1996	1983	1960	1958	1992	1974
MIN	.000	.15	.21	9.24	18.1	65.2	73.2	23.8	9.46	.42	.000	.000
(WY)	1954	1964	1964	1977	1954	1954	1976	1976	1988	1954	1954	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	134132.7		222675.1			
ANNUAL MEAN	367		608		356	
HIGHEST ANNUAL MEAN					636	1950
LOWEST ANNUAL MEAN					25.3	1954
HIGHEST DAILY MEAN	8280	May 18	22300	Apr 29	32400	Jan 21 1959
LOWEST DAILY MEAN	6.4	Oct 17	6.4	Oct 17	.00	Oct 1 1948
ANNUAL SEVEN-DAY MINIMUM	8.2	Oct 14	7.8	Aug 17	.00	Oct 1 1948
INSTANTANEOUS PEAK FLOW			30700	Apr 29	52200	Jan 21 1959
INSTANTANEOUS PEAK STAGE			28.47	Apr 29	34.30	Jan 21 1959
ANNUAL RUNOFF (CFSM)	1.25		2.08		1.22	
ANNUAL RUNOFF (INCHES)	17.03		28.27		16.51	
10 PERCENT EXCEEDS	835		1660		751	
50 PERCENT EXCEEDS	91		147		76	
90 PERCENT EXCEEDS	15		12		3.5	

e Estimated

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, at downstream side of bridge on right bank on county road, 1.5 mi northwest of Nebraska, 2.9 mi northeast of Butlerville, and 3.6 mi upstream from Brush Creek Dam.
DRAINAGE AREA.--11.4 mi².
PERIOD OF RECORD.--May 1955 to current year.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 717.17 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.03	8.5	1.7	9.3	e1.7	e31	330	25	6.0	1.1	.18	.03
2	e.01	32	1.7	33	e1.4	e16	40	16	6.1	1.8	.16	.02
3	.22	15	1.8	19	e1.1	e12	16	51	5.0	1.0	.13	.02
4	.76	3.5	1.8	14	e.95	e8.8	19	254	4.0	.75	.10	.02
5	221	2.1	1.7	10	e.84	e36	18	41	3.4	.61	.07	.01
6	15	1.6	1.8	7.7	e1.2	e100	11	20	10	.51	.06	.01
7	3.4	3.7	e1.6	e6.0	1.8	e46	7.9	13	336	.44	.05	.01
8	1.6	2.8	e1.4	e4.7	e3.5	e20	6.0	85	240	.55	.04	.00
9	1.2	1.9	e1.2	e3.6	e25	e17	4.5	42	99	.65	.04	.01
10	1.4	1.7	e1.0	e3.2	e20	e14	3.6	134	44	.37	.03	.01
11	1.9	71	e1.1	e2.8	e12	e12	2.9	496	24	.28	.03	.00
12	2.7	15	1.5	e2.5	e7.0	e11	2.5	35	15	.24	.03	.00
13	4.3	7.6	2.1	e2.1	e6.4	e9.7	2.6	17	8.9	.23	.02	.00
14	e2.1	4.5	4.4	e5.0	e5.8	e8.7	2.3	12	72	.24	.02	.00
15	e1.7	3.1	4.7	26	e5.2	e7.8	2.4	458	33	1.1	.02	.00
16	e1.1	2.4	21	85	e4.1	e7.0	2.6	54	8.1	.51	.01	1.9
17	e.74	2.0	5.4	349	e3.3	e6.0	1.9	20	4.7	.30	.01	1.8
18	e.54	2.1	246	277	e2.5	e5.2	1.6	12	11	.28	.01	.46
19	e3.5	1.8	330	135	e3.0	e190	1.7	8.0	50	.59	.01	.17
20	7.9	1.5	50	21	e22	e110	91	5.5	25	.74	.00	.08
21	10	1.4	19	12	e16	e71	15	5.0	6.9	.39	.00	.50
22	9.2	1.2	8.8	9.0	e11	e42	8.7	3.6	35	1.2	.00	3.3
23	6.1	1.2	5.7	208	e9.4	e70	311	2.9	52	.80	.00	.83
24	e2.1	1.2	4.0	168	e8.2	e87	36	2.4	8.1	.39	.00	.36
25	e1.0	1.1	3.2	23	e7.0	e42	17	2.5	4.3	.35	.16	.20
26	e1.8	1.1	2.4	16	e10	e19	14	5.8	3.0	.25	.09	.17
27	e4.0	1.2	2.1	22	e60	e11	8.2	36	2.2	.16	.69	9.1
28	9.9	1.5	1.8	8.1	e100	10	287	251	1.8	.15	.89	16
29	e4.9	1.5	1.4	e4.5	e62	36	993	71	1.5	.17	.14	2.5
30	e2.5	1.4	1.4	e3.0	---	15	95	17	1.2	.23	.06	1.1
31	e1.4	---	2.5	e2.2	---	35	---	9.6	---	.32	.04	---
TOTAL	324.00	196.6	734.2	1491.7	412.39	1106.2	2352.4	2205.3	1121.2	16.70	3.09	38.61
MEAN	10.5	6.55	23.7	48.1	14.2	35.7	78.4	71.1	37.4	.54	.10	1.29
MAX	221	71	330	349	100	190	993	496	336	1.8	.89	16
MIN	.01	1.1	1.0	2.1	.84	5.2	1.6	2.4	1.2	.15	.00	.00
CFSM	.92	.57	2.08	4.22	1.25	3.13	6.88	6.24	3.28	.05	.01	.11
IN.	1.06	.64	2.40	4.87	1.35	3.61	7.68	7.20	3.66	.05	.01	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1996, BY WATER YEAR (WY)

MEAN	2.56	10.3	17.3	19.3	22.0	28.4	24.7	20.9	8.08	7.21	4.39	1.62
MAX	19.7	64.5	86.9	70.4	51.8	89.6	78.4	86.1	45.2	72.0	41.9	11.0
(WY)	1984	1986	1991	1959	1971	1963	1996	1995	1981	1962	1978	1974
MIN	.000	.000	.000	.063	1.44	4.22	2.12	.76	.12	.025	.000	.000
(WY)	1958	1964	1964	1977	1964	1969	1976	1976	1965	1970	1964	1957

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1956 - 1996	
ANNUAL TOTAL	8292.07		10002.39			
ANNUAL MEAN	22.7		27.3		13.9	
HIGHEST ANNUAL MEAN					27.3	1996
LOWEST ANNUAL MEAN					5.92	1977
HIGHEST DAILY MEAN	749	May 18	993	Apr 29	1460	Jan 21 1959
LOWEST DAILY MEAN	.01	Oct 2	.00	Aug 20	.00	Oct 4 1955
ANNUAL SEVEN-DAY MINIMUM	.11	Sep 26	.00	Aug 18	.00	Aug 6 1956
INSTANTANEOUS PEAK FLOW			2210	Apr 29	9360	Jun 10 1981
INSTANTANEOUS PEAK STAGE			9.95	Apr 29	12.99	Jun 10 1981
ANNUAL RUNOFF (CFSM)	1.99		2.40		1.22	
ANNUAL RUNOFF (INCHES)	27.06		32.64		16.52	
10 PERCENT EXCEEDS	39		56		24	
50 PERCENT EXCEEDS	3.7		3.3		2.2	
90 PERCENT EXCEEDS	.87		.06		.00	

e Estimated

03369000 VERNON FORK MUSCATATUCK RIVER 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 mi downstream from Muscatatuck State School dam, 1.1 mi downstream from Brush Creek, 2 mi northwest of Butlerville, and at mile 50.6.
DRAINAGE AREA.--85.9 mi².
PERIOD OF RECORD.--February 1942 to current year. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville, and as Vernon Fork near Butlerville, October 1960 to September 1979.
REVISED RECORDS.--WSP 2109: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 669.40 ft above sea level. Prior to Aug. 19, 1942, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.9	11	47	42	99	1510	248	e72	15	5.2	e1.7
2	2.7	31	10	135	39	80	293	174	e62	22	4.8	e1.3
3	2.6	35	10	120	30	56	172	164	e56	12	4.2	e1.1
4	1.7	13	9.6	e84	e22	41	130	962	e54	9.5	3.6	e4.0
5	994	8.2	9.1	e64	e18	146	118	396	e40	8.5	3.4	e2.6
6	252	5.8	8.8	e50	e14	568	91	200	e52	7.6	3.2	e2.0
7	75	7.5	8.8	e41	e15	259	75	151	e1200	9.1	3.1	e1.5
8	23	8.4	8.6	e33	36	130	63	459	e780	6.9	3.0	e1.2
9	12	8.7	8.6	e28	124	82	52	371	e1500	12	2.6	e5.4
10	7.8	7.5	7.5	e23	67	62	44	285	e300	7.0	e2.4	e2.5
11	5.0	329	6.6	e20	73	56	38	2090	e210	5.8	e2.3	e1.3
12	3.4	176	6.1	e17	47	51	34	338	e140	5.2	e2.2	1.2
13	2.9	87	7.2	e15	34	48	33	178	e100	4.9	e2.0	.87
14	2.3	58	11	e20	38	48	32	128	77	5.5	e1.8	.64
15	1.8	39	19	e30	33	58	30	2170	138	21	e1.5	.52
16	1.6	30	70	e100	29	63	32	583	70	18	e1.7	5.1
17	1.4	26	39	2050	26	48	28	212	46	9.0	e2.0	4.8
18	1.5	24	718	925	26	40	26	140	93	19	e2.3	5.8
19	1.7	22	1390	1400	25	472	58	100	122	25	e2.0	4.0
20	3.6	20	379	214	36	796	681	69	235	13	e1.7	2.7
21	3.6	19	170	137	65	411	195	52	74	8.4	e1.5	4.1
22	4.0	17	113	104	61	295	115	41	74	29	e1.4	5.1
23	3.5	16	82	604	68	288	1500	31	354	13	e1.3	4.1
24	3.6	15	e56	1300	58	817	390	26	97	8.9	e2.2	3.7
25	3.3	14	e43	243	40	520	191	e24	55	6.9	e3.7	3.2
26	3.2	13	e32	159	216	225	140	e30	38	6.3	e2.5	3.6
27	4.1	13	e24	178	234	141	97	e250	28	6.1	e1.9	18
28	4.3	13	e18	103	391	109	609	e350	23	5.2	e5.0	109
29	4.3	11	e13	87	153	163	6520	e1000	19	4.6	e3.5	32
30	4.4	11	e10	72	---	129	856	e150	16	4.1	e3.0	10
31	4.2	---	e15	48	---	114	---	e100	---	4.4	e2.3	---
TOTAL	1442.7	1083.0	3313.9	8451	2060	6415	14153	11472	6125	332.9	83.3	243.03
MEAN	46.5	36.1	107	273	71.0	207	472	370	204	10.7	2.69	8.10
MAX	994	329	1390	2050	391	817	6520	2170	1500	29	5.2	109
MIN	1.4	4.9	6.1	15	14	40	26	24	16	4.1	1.3	.52
CFSM	.54	.42	1.24	3.17	.83	2.41	5.49	4.31	2.38	.13	.03	.09
IN.	.62	.47	1.44	3.66	.89	2.78	6.13	4.97	2.65	.14	.04	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

MEAN	16.3	62.9	107	155	161	205	169	132	57.4	44.7	28.6	15.4
MAX	99.7	441	395	763	492	604	472	554	297	277	308	126
(WY)	1991	1986	1991	1950	1950	1945	1996	1968	1960	1992	1978	1950
MIN	.33	.34	.37	1.28	11.3	29.3	18.4	6.91	1.56	1.22	1.32	.37
(WY)	1952	1944	1944	1977	1964	1983	1976	1949	1965	1954	1951	1943

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996	
ANNUAL TOTAL	46317.9		55174.83			
ANNUAL MEAN	127		151		96.0	
HIGHEST ANNUAL MEAN					188	1950
LOWEST ANNUAL MEAN					13.1	1954
HIGHEST DAILY MEAN	4630	May 18	6520	Apr 29	13200	Jan 21 1959
LOWEST DAILY MEAN	1.4	Oct 17	.52	Sep 15	.00	Jul 20 1944
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 13	1.7	Sep 10	.00	Oct 29 1944
INSTANTANEOUS PEAK FLOW			12400	Apr 29	26200	Jan 21 1959
INSTANTANEOUS PEAK STAGE			18.06	Apr 29	25.41	Jan 21 1959
ANNUAL RUNOFF (CFSM)	1.48		1.75		1.12	
ANNUAL RUNOFF (INCHES)	20.06		23.89		15.18	
10 PERCENT EXCEEDS	252		342		188	
50 PERCENT EXCEEDS	29		30		20	
90 PERCENT EXCEEDS	5.4		2.5		1.4	

e Estimated

03369500 VERNON FORK MUSCATATUCK RIVER 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 mi southwest of Vernon, 3.1 mi downstream from Otter Creek, and at mile 36.4.
DRAINAGE AREA.--198 mi².
PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1979, published as Vernon Fork at Vernon.
REVISED RECORDS.--WSP 1335: 1940, 1953. WSP 1909: 1952-53. WSP 2109: Drainage area. WDR IN-91-1: 1990. WDR IN-95-1: 1991-94 (M).
GAGE.--Water-stage recorder. Datum of gage is 585.00 ft above sea level, (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. Prior to Aug. 8, 1983, datum 2.30 ft higher.
REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diverson returned above gage as sewage effluent by North Vernon Sewage Treatment Plant. Some regulation at times at low flow by Old Timbers Lake on Jefferson Proving Grounds and Brush Creek Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.5	e8.0	23	123	106	257	3520	775	192	45	e15	e5.4
2	e3.5	e40	23	321	e90	208	873	533	157	75	e14	e4.4
3	e3.0	e50	21	339	e64	166	483	435	141	46	e12	e3.5
4	e2.5	e25	22	e260	e50	127	365	2520	141	32	e11	e13
5	e1300	e14	21	e200	e40	187	374	1220	114	28	e9.6	e9.0
6	e500	e10	20	e150	e34	1240	281	620	165	25	e8.8	e6.4
7	e120	e11	20	e110	e36	652	230	416	3960	156	e8.4	e5.0
8	e50	e14	20	e90	79	321	198	921	2130	175	e8.0	e3.5
9	e25	e16	19	e70	258	215	172	1320	4860	e50	e7.4	e17
10	e14	e14	18	e54	197	171	149	690	977	e31	e6.6	e7.0
11	e8.6	421	16	e45	189	163	134	6770	633	e24	e6.2	e3.7
12	e5.8	421	15	e39	149	146	122	1080	436	e18	e5.6	e3.2
13	e4.0	169	16	e35	109	137	116	552	277	e14	e5.2	e2.6
14	e3.3	111	23	e45	108	131	116	359	201	e30	e4.8	e2.2
15	e3.0	83	34	e70	101	140	108	3940	461	e70	e4.0	e1.8
16	e2.7	65	174	e200	90	173	115	2040	240	e38	e4.6	e15
17	e2.4	54	141	3830	71	137	109	614	148	e23	e5.6	e14
18	e2.7	49	1620	1790	67	118	94	371	187	e35	e6.8	e18
19	e3.1	45	3350	3830	72	914	93	261	334	e84	e6.0	e12
20	e5.0	42	962	563	93	1890	1420	193	683	e38	e5.0	e8.8
21	e6.0	39	421	340	169	1050	583	147	250	e22	e4.3	e12
22	e6.6	36	273	245	161	774	330	122	147	e96	e3.8	e16
23	e6.0	33	198	1190	159	764	3340	99	1710	e58	e3.5	e12
24	e6.2	31	e140	3160	142	1680	1210	85	369	e35	e7.0	e11
25	e5.8	29	e100	670	112	1330	560	77	195	e25	e11	e10
26	e5.4	29	e70	405	256	606	408	100	128	e20	e7.0	e12
27	e5.6	27	e50	415	629	372	308	707	93	e17	e5.4	e80
28	e6.4	26	e40	266	1020	289	1020	1070	72	e15	e15	e340
29	e7.0	25	e30	210	401	489	19500	3170	58	e14	e11	e120
30	e7.4	23	e24	177	---	392	3000	513	50	e11	e9.0	e35
31	e7.0	---	e35	128	---	321	---	281	---	e12	e6.8	---
TOTAL	2132.5	1960.0	7939	19370	5052	15560	39331	32001	19509	1362	238.4	803.5
MEAN	68.8	65.3	256	625	174	502	1311	1032	650	43.9	7.69	26.8
MAX	1300	421	3350	3830	1020	1890	19500	6770	4860	175	15	340
MIN	2.4	8.0	15	35	34	118	93	77	50	11	3.5	1.8
CFSM	.35	.33	1.29	3.16	.88	2.54	6.62	5.21	3.28	.22	.04	.14
IN.	.40	.37	1.49	3.64	.95	2.92	7.39	6.01	3.67	.26	.04	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	37.8	143	257	358	390	479	403	305	150	100	65.2	33.9
MAX	292	986	962	2049	1188	1798	1311	1440	963	581	639	284
(WY)	1984	1986	1991	1950	1950	1945	1996	1968	1960	1962	1978	1974
MIN	.22	.61	1.03	4.23	24.4	19.0	37.3	8.77	1.80	.63	.003	.19
(WY)	1941	1954	1944	1977	1964	1941	1941	1941	1988	1954	1940	1943

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	112333.2		145258.4			
ANNUAL MEAN	308		397		226	
HIGHEST ANNUAL MEAN					468	1950
LOWEST ANNUAL MEAN					32.8	1954
HIGHEST DAILY MEAN	10300	May 18	19500	Apr 29	31900	Jan 21 1959
LOWEST DAILY MEAN	2.4	Oct 17	1.8	Sep 15	.00	Aug 2 1940
ANNUAL SEVEN-DAY MINIMUM	3.0	Oct 13	3.0	Oct 13	.00	Aug 2 1940
INSTANTANEOUS PEAK FLOW			31200	Apr 29	56800	Jan 21 1959
INSTANTANEOUS PEAK STAGE			26.29	Apr 29	32.83	Jan 21 1959
ANNUAL RUNOFF (CFSM)	1.55		2.00		1.14	
ANNUAL RUNOFF (INCHES)	21.11		27.29		15.51	
10 PERCENT EXCEEDS	672		933		460	
50 PERCENT EXCEEDS	82		87		47	
90 PERCENT EXCEEDS	8.8		5.8		2.6	

e Estimated

03371500 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 right downstream end of the bridge on county road, 0.4 mi upstream from Mill Creek, 2.9 mi downstream from Sugar Creek, 3.9 mi northeast of Mitchell, 7.8 mi southeast of Bedford, and at mile 153.3.
DRAINAGE AREA.--3,861 mi².
PERIOD OF RECORD.--May 1939 to current year (high-water records only October 1943 to September 1957).
REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-73-1: 1972.
GAGE.--Water-stage recorder. Datum of gage is 473.59 ft above sea level. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940, to Sept. 24, 1957, water-stage recorder, at site 9.8 mi downstream at datum 4.39 ft lower.
REMARKS.--Records good except for estimated daily discharges, which are fair.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 47.5 ft, from floodmark determined by U.S. Army Corps of Engineers, discharge, 155,000 ft³/s, at former site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e510	e420	e670	e1700	e7000	e8000	e7800	e78200	e18000	e4200	e2100	e800
2	e495	e400	e660	e1900	e5800	e8200	e9000	e69800	e15000	e4300	e1900	e740
3	e500	e400	e640	e2300	e4800	e6400	e11000	e60000	e11000	e3800	e1800	e689
4	e500	e440	e620	e2700	e4100	e5000	e14000	e53000	e9000	e3600	e1800	e660
5	e520	e480	e620	e3000	e3600	e4000	e12000	e47000	e8300	e3400	e1830	e660
6	e540	e520	e600	e3000	e3300	e4700	e9200	e42000	e8000	e3200	e1900	e660
7	e860	e560	e580	e2300	e3000	e5600	e8000	e35000	e10000	e3100	e1700	e650
8	e1600	e580	e570	e2000	e3200	e6800	e7000	e38000	e13000	e3000	e1400	e620
9	e1200	e560	e560	e1800	e3600	e7600	e6200	e42000	e14000	e3200	e1250	e660
10	e900	e740	e480	e1700	e3800	e5600	e5500	e38000	e16000	e3400	e1150	e700
11	e700	e1000	e430	e1650	e3800	e4500	e5000	e35000	e18000	e3500	e1080	e988
12	e600	e1400	e400	e1600	e3700	e4000	e4700	e33000	e20000	e3000	e1000	e860
13	e540	e1800	e390	e1600	e3700	e3800	e4400	e35000	e17000	e2850	e960	e760
14	e500	e2200	e380	e1600	e3500	e3600	e4100	e38000	e15000	e2750	e930	e680
15	e480	e1900	e600	e1800	e3300	e3400	e4000	e33000	e13000	e2700	e900	e600
16	e460	e1600	e820	e3000	e3000	e3800	e3900	e29000	e11500	e2750	e880	847
17	e450	e1300	e940	e5000	e2800	e4200	e3750	e25000	e10000	e2700	e870	1590
18	e440	e1200	e940	e8000	e2600	e4500	e3600	e23000	e9000	e2600	e1000	2060
19	e430	e1080	e1700	e13000	e2500	e4800	e3500	e24000	e8000	e2500	e1200	1790
20	e450	e1000	e2800	e14000	e2400	e5000	e6000	e20000	e8000	e2600	e1030	1580
21	e460	e940	e4800	e17000	e2300	e6000	e11400	e15000	e9600	e2900	e960	1400
22	e470	e900	e7400	e19000	e2200	e7000	e9000	e11000	e9600	e2450	e900	1370
23	e450	e860	e7400	e22000	e2200	e9000	e15000	e8500	e8000	e2300	e880	1230
24	e430	e820	e4600	e15000	e2200	e12000	e25000	e7200	e7000	e2650	e860	1270
25	e400	e800	e3500	e16300	e2200	e17000	e23000	e6600	e7300	e2900	e950	1280
26	e400	e760	e2900	e18000	e2300	e16300	e21000	e8000	e7500	e3100	e1000	1190
27	e430	e743	e2500	e19000	e3000	e14000	e19000	e10000	e5500	e2900	e960	1430
28	e430	e720	e2200	e15000	e4500	e13500	e23000	e14000	e4700	e2800	e940	3360
29	e430	e700	e2000	e12000	e6000	e11000	e33000	e20000	e4300	e2700	e1070	4520
30	e430	e690	e1900	e10000	---	e9500	e45000	e26000	e4000	e2600	e960	5370
31	e430	---	e1800	e8400	---	e8000	---	e26000	---	e2350	e870	---
TOTAL	17435	27513	56400	245350	100400	226800	357050	950300	319300	92800	37030	41014
MEAN	562	917	1819	7915	3462	7316	11900	30650	10640	2994	1195	1367
MAX	1600	2200	7400	22000	7000	17000	45000	78200	20000	4300	2100	5370
MIN	400	400	380	1600	2200	3400	3500	6600	4000	2300	860	600
CFSM	.15	.24	.47	2.05	.90	1.89	3.08	7.94	2.76	.78	.31	.35
IN.	.17	.27	.54	2.36	.97	2.19	3.44	9.16	3.08	.89	.36	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	1040	2458	4332	4931	6342	8075	7415	6532	3340	2451	1829	1109
MAX	4186	15520	12090	15010	15610	18710	15180	30650	10640	9649	11280	5234
(WY)	1994	1994	1958	1991	1982	1964	1989	1996	1996	1958	1979	1989
MIN	228	297	272	300	712	450	730	382	622	603	291	244
(WY)	1941	1965	1964	1977	1941	1941	1941	1941	1988	1941	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	1547448		2471392			
ANNUAL MEAN	4240		6752		4144	
HIGHEST ANNUAL MEAN					6752	1996
LOWEST ANNUAL MEAN					643	1941
HIGHEST DAILY MEAN	38200	May 22	78200	May 1	78200	May 1 1996
LOWEST DAILY MEAN	380	Dec 14	380	Dec 14	138	Sep 7 1941
ANNUAL SEVEN-DAY MINIMUM	420	Oct 28	420	Oct 28	196	Sep 5 1941
INSTANTANEOUS PEAK FLOW			80500	May 1	80500	May 1 1996
INSTANTANEOUS PEAK STAGE			36.32	May 1	36.32	May 1 1996
ANNUAL RUNOFF (CFSM)	1.10		1.75		1.07	
ANNUAL RUNOFF (INCHES)	14.91		23.81		14.58	
10 PERCENT EXCEEDS	10700		18000		10200	
50 PERCENT EXCEEDS	2200		2900		2100	
90 PERCENT EXCEEDS	540		554		480	

e Estimated

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 mi west of Leesville, 2.5 mi upstream from Jones Defeat Hollow, and 7 mi above mouth.
DRAINAGE AREA.--24.1 mi².
PERIOD OF RECORD.--October 1970 to current year.
REVISED RECORDS.--WDR IN-72-1: 1971.
GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached a stage of 18.1 ft from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.24	1.5	1.7	e7.0	e15	31	66	146	9.6	1.4	.36	.00
2	e.14	3.9	1.9	e9.0	e14	24	48	90	16	1.2	.26	.00
3	.21	4.8	1.8	13	e12	17	37	391	13	.89	.22	.00
4	.25	3.7	1.7	e18	e11	14	30	668	11	.72	.15	.00
5	.38	2.9	1.5	e14	e10	28	24	276	9.3	.55	.11	.00
6	.42	2.4	1.4	e11	e9.5	79	20	164	151	.46	.10	.00
7	.41	2.9	1.3	e9.8	e9.0	43	17	100	293	.43	.07	.00
8	.34	2.3	e1.2	e9.0	e13	29	16	601	135	.53	.06	.00
9	.31	2.2	e1.1	e8.3	21	20	13	303	125	.43	.06	.00
10	.30	2.2	e1.0	e7.6	15	18	12	341	386	.29	.05	.00
11	.30	74	e1.0	e7.4	11	15	11	746	315	.21	.03	.00
12	.30	20	e.94	e7.2	8.5	14	9.9	198	104	.16	.03	.00
13	.30	11	e.90	e8.0	7.5	13	12	104	56	.15	.02	.00
14	.29	7.5	e2.0	e12	8.1	12	11	66	35	.30	.02	.00
15	.30	5.8	5.1	23	8.2	11	10	53	26	1.5	.02	.00
16	.30	4.8	19	38	7.2	9.9	11	41	20	1.2	.01	.21
17	.32	4.3	11	691	6.7	9.8	9.5	32	17	.82	.00	.08
18	.33	4.0	157	614	6.7	8.7	9.0	24	28	.56	.02	.08
19	.35	3.7	477	310	6.3	21	10	18	17	.52	.02	.05
20	.69	3.2	107	92	7.0	41	505	15	14	.52	.01	.03
21	.84	2.8	45	52	7.0	35	111	13	12	.42	.00	40
22	.84	2.6	27	36	6.8	38	62	11	10	.42	.00	17
23	.76	2.7	e16	326	6.7	55	798	9.7	8.3	.39	.00	4.5
24	.65	2.5	e12	325	6.5	402	203	8.9	6.6	.30	.00	2.1
25	.60	2.2	e9.6	97	5.9	628	97	8.1	4.8	1.2	.00	1.3
26	.65	2.2	e8.0	61	24	159	66	14	3.6	.80	.00	1.1
27	.88	2.1	e7.0	e45	73	81	42	32	2.9	.55	.00	103
28	1.1	1.9	e6.4	e33	119	56	796	20	2.3	.48	.00	94
29	1.1	1.9	e5.7	e26	45	58	1820	17	1.9	.45	.00	23
30	1.1	1.8	e5.4	e20	---	44	351	13	1.5	.46	.00	11
31	1.1	---	e5.0	e17	---	39	---	11	---	.63	.00	---
TOTAL	16.10	189.8	942.64	2947.3	500.6	2053.4	5227.4	4534.7	1834.8	18.94	1.62	297.45
MEAN	.52	6.33	30.4	95.1	17.3	66.2	174	146	61.2	.61	.052	9.91
MAX	1.1	74	477	691	119	628	1820	746	386	1.5	.36	103
MIN	.14	1.5	.90	7.0	5.9	8.7	9.0	8.1	1.5	.15	.00	.00
CFSM	.02	.26	1.26	3.94	.72	2.75	7.23	6.07	2.54	.03	.00	.41
IN.	.02	.29	1.46	4.55	.77	3.17	8.07	7.00	2.83	.03	.00	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	8.49	32.1	42.0	41.7	48.9	63.6	67.1	46.4	16.4	21.3	14.2	6.18
MAX	48.0	132	101	147	105	168	176	174	63.3	195	92.4	60.9
(WY)	1984	1986	1983	1982	1979	1989	1972	1995	1973	1973	1979	1974
MIN	.000	1.05	2.37	.98	5.78	9.74	8.62	2.70	.25	.014	.052	.000
(WY)	1989	1988	1990	1977	1992	1981	1976	1988	1988	1991	1996	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	15913.09		18564.75			
ANNUAL MEAN	43.6		50.7		34.0	
HIGHEST ANNUAL MEAN					64.6	1973
LOWEST ANNUAL MEAN					14.4	1987
HIGHEST DAILY MEAN	1700	May 18	1820	Apr 29	5000	Jul 21 1973
LOWEST DAILY MEAN	.14	Oct 2	.00	Aug 17	.00	Oct 4 1970
ANNUAL SEVEN-DAY MINIMUM	.25	Jul 29	.00	Aug 21	.00	Jul 12 1975
INSTANTANEOUS PEAK FLOW			5110	Apr 28	15300	Jul 21 1973
INSTANTANEOUS PEAK STAGE			8.91	Apr 28	14.00	Jul 21 1973
ANNUAL RUNOFF (CFSM)	1.81		2.10		1.41	
ANNUAL RUNOFF (INCHES)	24.56		28.66		19.15	
10 PERCENT EXCEEDS	114		104		74	
50 PERCENT EXCEEDS	5.8		7.4		9.1	
90 PERCENT EXCEEDS	.36		.03		.33	

e Estimated

03372500 SALT CREEK NEAR HARRODSBURG, IN

LOCATION.--Lat 39°00'16", long 86°30'31", in NE¼NW¼ sec.34, T.7 N., R.1 W., Monroe County, Hydrologic Unit 05120208, on right bank 0.35 mi downstream from Monroe Lake, 0.9 mi upstream from Clear Creek, 2.2 mi southeast of Harrodsburg, and 25.7 mi upstream from mouth.

DRAINAGE AREA.--432 mi^2.

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

REVISED RECORDS.--WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 480.00 ft above sea level, (levels by U.S. Army Corps of Engineers). Oct. 1, 1960, to Sept. 30, 1974, water-stage recorder at site described in "LOCATION" paragraph. Prior to Oct. 1, 1960, nonrecording gage at site 0.7 mi upstream at datum 2.41 ft higher.

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Monroe Lake since April 1966.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1976.

AVERAGE DISCHARGE.--41 years, 495 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft^3/s June 25, 1960, gage height, 32.76 ft site and datum then in use; maximum gage height at present site and datum, 35.35 ft May 9, 1961; no flow Sept. 29 to Dec. 2, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2370 ft^3/s May 23; minimum daily, 48 ft^3/s May 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	55	55	129	1210	1380	1110	239	710	2280	2000	56
2	55	55	55	202	1810	1530	1600	239	962	2270	1850	56
3	55	55	55	202	1930	1530	1510	122	1270	2260	1540	56
4	55	55	55	202	1920	1520	1110	48	1650	2250	1240	56
5	55	55	55	202	1910	1020	1110	48	2210	2240	902	56
6	55	55	55	202	1900	558	1100	49	1400	2240	674	56
7	55	55	55	202	1900	843	1470	49	909	2230	565	56
8	55	55	55	202	1890	1210	1930	138	910	2220	563	56
9	55	55	55	202	1880	1080	2020	246	911	2210	562	56
10	55	55	55	202	1870	770	2010	247	1120	2210	472	56
11	55	55	55	202	1860	556	2000	249	723	2200	367	56
12	55	55	55	202	1860	333	1990	251	249	2190	284	56
13	55	55	55	202	1850	200	1980	480	571	2180	201	56
14	55	55	55	202	1720	200	1980	720	712	2170	201	56
15	55	55	55	202	1400	200	1370	721	963	2160	201	56
16	55	55	55	202	1220	262	1060	1090	1310	2150	146	56
17	55	55	55	203	1210	365	1060	1700	1700	2140	92	56
18	55	55	55	208	1020	365	805	2000	2060	2140	66	56
19	55	55	55	211	759	366	561	2170	2290	2130	56	56
20	55	55	56	213	557	367	571	2220	2350	2120	56	56
21	55	55	56	214	556	368	585	2220	2340	2110	56	56
22	55	55	56	214	378	368	503	2320	2330	2100	56	56
23	55	55	56	214	200	369	271	2370	2330	2090	56	56
24	55	55	56	216	200	764	219	2360	2330	2080	56	56
25	55	55	56	219	200	554	223	2350	2320	2070	56	56
26	55	55	56	220	200	212	224	2350	2310	2060	56	56
27	55	55	56	220	410	213	225	1640	2310	2050	56	56
28	55	55	56	221	751	213	225	1270	2300	2040	56	56
29	55	55	56	221	1050	214	231	1050	2290	2030	56	56
30	55	55	56	419	---	466	237	711	2280	2020	56	56
31	55	---	56	785	---	737	---	711	---	2010	56	---
TOTAL	1705	1650	1717	7157	35621	19133	31290	32378	48120	66650	12654	1680
MEAN	55.0	55.0	55.4	231	1228	617	1043	1044	1604	2150	408	56.0
MAX	55	55	56	785	1930	1530	2020	2370	2350	2280	2000	56
MIN	55	55	55	129	200	200	219	48	249	2010	56	56

CAL YR 1995 TOTAL 184922 MEAN 507 MAX 2190 MIN 55
WTR YR 1996 TOTAL 259755 MEAN 710 MAX 2370 MIN 48

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

LOCATION.--Lat 38°39'58", long 86°47'35", in SW¼NW¼ sec.30, T.3 N., R.3 W., Martin County, Hydrologic Unit 05120208, on left bank 100 feet downstream of Baltimore and Ohio Railroad bridge, 440 feet downstream from U.S. Highway 50 bridge at Shoals, 0.9 mi upstream from Beaver Creek, 6.6 mi downstream from Indian Creek, and at mile 105.2
DRAINAGE AREA.--4,927 mi².
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, 1903-06, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the National Weather Service. Prior to Dec. 13, 1989 at site 440 ft upstream at same datum.
REVISED RECORDS.--WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area. WDR IN-91-1: Location.
GAGE.--Water-stage recorder. Datum of gage is 442.25 ft above sea level. Oct. 26, 1932 to Dec. 13, 1989, water-stage recorder located at U.S. Highway 50 bridge 440 ft upstream. See WSP 1725 for history of changes prior to Oct. 26, 1932.
REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partially regulated by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	574	555	815	2220	11300	8700	12700	46200	23600	5730	4060	1070
2	557	583	793	2290	8290	10100	13000	53700	23400	5580	4000	967
3	557	592	778	2730	6710	9810	13900	62100	19700	5740	3880	900
4	561	611	759	3370	5850	8000	16000	65800	14800	6060	3580	844
5	569	611	732	4280	e5400	6720	17900	64500	11200	6050	3160	793
6	614	627	705	e3700	e5200	6380	18200	58400	10400	5660	2710	760
7	635	766	688	e3200	e5000	6680	16400	51900	15000	5320	2330	778
8	1610	792	673	e2800	e5200	e8000	13600	e45000	16900	5110	2060	743
9	2680	789	660	e2600	5810	e9600	11400	e50000	17200	5060	1980	750
10	2050	760	601	e2500	6110	e10000	9080	48500	18500	5820	2030	898
11	1440	936	457	e2450	5860	7800	7530	46500	21400	6650	1920	e1000
12	1120	1360	416	e2400	5890	6160	6850	44700	23900	6780	1730	e1180
13	941	1660	547	e2350	5900	5360	6480	42200	24700	5900	1590	1100
14	823	2450	802	e2300	5780	4840	6270	41100	25200	5120	1410	928
15	738	2670	923	e2400	5530	4560	6150	41400	24100	4790	1350	800
16	679	2330	939	e2800	5100	4370	5730	39000	21200	4670	1300	873
17	634	1940	1040	6210	4730	4490	5370	34100	17400	4760	1250	1260
18	604	1680	1450	13100	4540	5340	5190	29500	14500	4830	1110	2210
19	587	1490	3470	16400	4250	5820	4910	27700	12900	4640	1120	2530
20	613	1350	7830	17400	3860	6110	7910	27600	11000	4480	1390	2210
21	626	1220	8470	18400	3520	7240	14200	27000	10800	4440	1390	2030
22	618	1130	9030	21700	3470	9350	12800	23000	11100	4650	1220	2040
23	598	1080	9160	25600	3370	11700	17300	17400	10900	4690	1120	2120
24	570	1030	8750	29200	3230	15000	24600	12700	9300	4540	1110	1760
25	559	985	8100	28700	3200	20500	24100	9750	9030	4760	1080	1700
26	571	945	6910	24500	3160	22900	22700	8720	9100	5020	1150	1660
27	608	918	5400	22100	3530	21100	25100	9330	7960	4780	1230	1860
28	607	878	3890	22100	5350	20600	27400	11000	7020	4570	1150	3500
29	597	854	3040	21300	7270	20000	35200	12600	6450	4420	1160	5290
30	585	826	2640	18800	---	17600	43200	16700	5990	4270	1300	5630
31	562	---	2410	14900	---	14300	---	20700	---	4160	1230	---
TOTAL	25087	34418	92878	344800	152410	319130	451170	1088800	454650	159050	57100	50184
MEAN	809	1147	2996	11120	5256	10290	15040	35120	15150	5131	1842	1673
MAX	2680	2670	9160	29200	11300	22900	43200	65800	25200	6780	4060	5630
MIN	557	555	416	2220	3160	4370	4910	8720	5990	4160	1080	743
CFSM	.16	.23	.61	2.26	1.07	2.09	3.05	7.13	3.08	1.04	.37	.34
IN.	.19	.26	.70	2.60	1.15	2.41	3.41	8.22	3.43	1.20	.43	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

MEAN	1599	2962	5302	8732	8646	11090	10140	7630	4286	2928	1940	1377
MAX	12520	18370	17890	47640	30870	34300	24000	35120	15150	13520	15220	9154
(WY)	1911	1994	1928	1937	1950	1945	1913	1996	1996	1958	1979	1926
MIN	262	293	305	432	589	562	1029	529	696	365	265	233
(WY)	1941	1955	1964	1931	1931	1941	1915	1941	1936	1954	1936	1954

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1996	
ANNUAL TOTAL	2073440		3229677			
ANNUAL MEAN	5681		8824		5532	
HIGHEST ANNUAL MEAN					10370	1950
LOWEST ANNUAL MEAN					855	1941
HIGHEST DAILY MEAN	36100	May 24	65800	May 4	155000	Mar 28 1913
LOWEST DAILY MEAN	416	Dec 12	416	Dec 12	64	Oct 6 1935
ANNUAL SEVEN-DAY MINIMUM	576	Sep 30	577	Dec 7	168	Oct 3 1935
INSTANTANEOUS PEAK FLOW			66700	May 4	160000	Mar 28 1913
INSTANTANEOUS PEAK STAGE			31.25	May 4	42.20	Mar 28 1913
ANNUAL RUNOFF (CFSM)	1.15		1.79		1.12	
ANNUAL RUNOFF (INCHES)	15.65		24.38		15.25	
10 PERCENT EXCEEDS	13200		23500		14400	
50 PERCENT EXCEEDS	3800		4710		2600	
90 PERCENT EXCEEDS	652		700		524	

e Estimated

03373530 LOST RIVER NEAR LEIPSIC, IN

LOCATION.--Lat 38°38'11", long 86°21'55", in NE¼SE¼, sec.2, T.2N., R.1E., Orange County, Hydrologic Unit 05120208, on left bank 5 ft upstream from bridge on Potato Road, and 2.2 mile south of Leipsic.
DRAINAGE AREA.--34.8 mi² (revised).
PERIOD OF RECORD.--October 1992 to current year.
REVISED RECORDS.--WDR IN-94-1: 1993.
GAGE.--Water-stage recorder. Datum of gage is 645.00 ft above sea level.
REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.5	e2.2	2.2	16	e37	38	210	e350	41	20	3.9	2.8
2	e2.3	e4.5	2.1	33	e33	34	111	e170	49	25	3.7	2.7
3	e2.1	e5.2	2.1	49	e29	28	91	e150	48	18	3.6	2.8
4	e2.3	e2.5	2.0	41	e25	24	79	e200	40	16	3.1	2.7
5	e3.5	e1.2	2.0	e33	e23	27	69	e180	33	15	2.8	2.7
6	e5.6	e1.6	2.0	e30	e21	98	61	e230	614	14	2.6	5.6
7	e4.0	e2.1	2.0	e26	e20	55	56	e140	1030	13	2.3	15
8	e2.5	e1.8	2.1	e23	22	41	51	e350	246	12	24	9.0
9	e1.7	e1.6	e1.7	e20	20	34	46	e390	201	11	17	306
10	e1.1	6.7	e1.3	e18	18	30	42	e180	292	10	4.9	47
11	e1.9	16	e1.1	e17	17	28	39	e900	289	9.2	3.4	31
12	e1.5	16	e1.2	e16	15	26	37	e350	152	8.7	2.8	24
13	e.80	10	e1.5	e18	13	24	36	e180	123	8.2	2.5	19
14	e1.1	7.5	e2.5	e23	13	23	34	e130	105	11	2.1	17
15	e.74	6.2	4.6	e35	12	27	31	e210	141	24	1.9	15
16	e1.6	5.5	13	76	11	25	29	e180	70	11	1.8	351
17	e2.0	4.7	8.5	314	9.4	25	27	e120	59	8.9	1.6	86
18	e1.3	4.0	25	320	8.4	22	25	e100	53	8.0	1.5	58
19	e1.8	3.6	97	255	8.4	33	24	e80	46	7.3	1.4	45
20	e2.2	2.8	57	101	8.8	72	630	e67	41	6.8	1.2	37
21	e2.9	3.2	34	76	8.3	90	146	60	38	6.3	1.0	121
22	e3.3	2.9	26	62	10	96	109	51	34	7.1	.96	92
23	e1.2	3.7	21	264	12	99	653	44	31	5.9	1.1	65
24	e1.1	3.5	18	353	9.5	360	185	40	29	5.3	56	52
25	e1.3	3.0	16	123	8.2	710	143	38	27	5.8	11	44
26	e1.5	3.0	e14	100	8.5	172	139	56	25	4.6	6.6	172
27	e1.8	2.8	e12	e78	58	136	102	293	23	4.3	5.1	567
28	e2.2	2.4	e11	69	126	115	713	146	22	4.1	4.3	474
29	e1.5	2.3	e10	61	46	112	e4100	122	20	5.5	3.7	100
30	e1.0	2.3	e8.6	53	---	94	e1200	67	19	6.1	3.4	75
31	e1.0	---	e8.0	45	---	86	---	50	---	4.7	2.9	---
TOTAL	61.34	134.8	409.5	2748	650.5	2784	9218	5624	3941	316.8	184.16	2841.3
MEAN	1.98	4.49	13.2	88.6	22.4	89.8	307	181	131	10.2	5.94	94.7
MAX	5.6	16	97	353	126	710	4100	900	1030	25	56	567
MIN	.74	1.2	1.1	16	8.2	22	24	38	19	4.1	.96	2.7
CFSM	.06	.13	.38	2.55	.64	2.58	8.83	5.21	3.77	.29	.17	2.72
IN.	.07	.14	.44	2.94	.70	2.98	9.85	6.01	4.21	.34	.20	3.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	7.16	48.8	42.4	64.5	41.8	61.3	145	133	55.1	13.1	20.3	29.2
MAX	16.3	148	75.2	88.6	50.5	89.8	307	251	131	28.1	40.2	94.7
(WY)	1994	1994	1994	1996	1993	1996	1996	1995	1996	1995	1993	1996
MIN	1.98	4.49	8.16	44.7	22.4	24.1	80.3	37.8	8.15	5.95	5.94	2.79
(WY)	1996	1996	1993	1995	1996	1994	1993	1993	1994	1994	1996	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1993 - 1996	
ANNUAL TOTAL	18918.04		28913.40			
ANNUAL MEAN	51.8		79.0		55.1	
HIGHEST ANNUAL MEAN					79.0	1996
LOWEST ANNUAL MEAN					36.2	1993
HIGHEST DAILY MEAN	1470	Apr 21	4100	Apr 29	4100	Apr 29 1996
LOWEST DAILY MEAN	e.74	Oct 15	e.74	Oct 15	e.74	Oct 15 1995
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 10	1.2	Oct 10	1.2	Oct 10 1995
INSTANTANEOUS PEAK FLOW			10700	Apr 29	10700	Apr 29 1996
INSTANTANEOUS PEAK STAGE			15.01	Apr 29	15.01	Apr 29 1996
ANNUAL RUNOFF (CFSM)	1.49		2.27		1.58	
ANNUAL RUNOFF (INCHES)	20.22		30.91		21.49	
10 PERCENT EXCEEDS	94		180		105	
50 PERCENT EXCEEDS	16		21		19	
90 PERCENT EXCEEDS	2.0		2.0		3.1	

e Estimated

03373980 WHITE RIVER ABOVE PETERSBURG, IN

LOCATION.--Lat 38°31'42", long 87°15'12", in NE¼SW¼ sec.12, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, on left bank 300 ft upstream from intake structure of Indianapolis Power and Light Company's generating plant, 1.5 mi downstream from East Fork White River, 2.2 mi upstream from State Highway 61, 2.9 mi northeast of Petersburg, and at mile 48.0.

DRAINAGE AREA.--11,123 mi^2.

PERIOD OF RECORD.--October 1976 to current year. Discharges below 1500 ft^3/s only, published 1980 to 1993, and 1995.

GAGE.--Water-stage recorder. Datum of gage is 401.52 ft above sea level.

REMARKS.--Discharges below 1,500 ft^3/s only published. No estimated daily discharges. Records good. For a complete record of White River in this vicinity use records of White River at Petersburg, IN (sta. 03374000), 2.3 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1360	---	---	---	---	---	---	---	---	---	---
2	---	1390	---	---	---	---	---	---	---	---	---	---
3	---	1360	---	---	---	---	---	---	---	---	---	---
4	1490	1350	---	---	---	---	---	---	---	---	---	---
5	1460	1370	---	---	---	---	---	---	---	---	---	---
6	1450	1440	---	---	---	---	---	---	---	---	---	---
7	1450	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	1460	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	1480	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	1470	---	---	---	---	---	---	---	---	---	---	---
18	1410	---	---	---	---	---	---	---	---	---	---	---
19	1360	---	---	---	---	---	---	---	---	---	---	---
20	1390	---	---	---	---	---	---	---	---	---	---	---
21	1420	---	---	---	---	---	---	---	---	---	---	---
22	1380	---	---	---	---	---	---	---	---	---	---	---
23	1370	---	---	---	---	---	---	---	---	---	---	---
24	1370	---	---	---	---	---	---	---	---	---	---	---
25	1390	---	---	---	---	---	---	---	---	---	---	---
26	1370	---	---	---	---	---	---	---	---	---	---	---
27	1390	---	---	---	---	---	---	---	---	---	---	---
28	1380	---	---	---	---	---	---	---	---	---	---	---
29	1360	---	---	---	---	---	---	---	---	---	---	---
30	1350	---	---	---	---	---	---	---	---	---	---	---
31	1350	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
CFSM	---	---	---	---	---	---	---	---	---	---	---	---
IN.	---	---	---	---	---	---	---	---	---	---	---	---

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 downstream from bridge on State Highway 61, 0.4 mi upstream from Prides Creek, 1.4 mi north of Petersburg, and at mile 45.7.
DRAINAGE AREA.--11,125 mi².
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 above sea level. See WSP 1725 for history of changes prior to Apr. 1, 1941.
REMARKS.--Records good except for estimated daily discharges which are poor. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913, reached a stage of 29.5 ft, present site and datum, from floodmarks by U.S. Army Corps of Engineers, discharge, 235,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	1470	1910	3630	23000	12600	26400	79900	44100	11800	8170	2840
2	1660	1510	1870	3490	17300	15400	23900	90200	51200	11300	7970	2690
3	1650	1510	1840	3710	13500	16900	24600	99300	51400	10800	7870	2550
4	1620	1500	1790	3960	11300	16000	26000	116000	43500	10700	7390	2460
5	1590	1510	1760	4680	9270	13600	26800	121000	31900	10900	6690	2360
6	1560	1570	1730	5300	9520	12500	27100	118000	27100	10700	6030	2280
7	1580	1680	1700	4850	10200	12300	26400	107000	35500	10300	5480	2410
8	1680	1720	1670	2820	10500	13500	24000	105000	36500	10200	5020	2900
9	2020	1730	1680	2960	10800	15400	20700	108000	35800	9850	4660	2930
10	3030	1710	1470	e3000	11600	16300	18000	96400	36500	9530	4420	2510
11	2890	2330	1540	e3150	11100	15500	15300	99100	37900	9960	4300	2500
12	2440	2590	1550	e3300	10200	13400	13200	98800	38600	10600	4160	2720
13	2110	2690	1500	e3400	9820	11200	12100	92500	40900	10600	3980	2730
14	1940	3110	1520	e3120	9690	9760	11500	88200	43100	9900	3760	2600
15	1790	3840	1640	e4000	9420	8880	11100	84000	45300	10300	3550	2350
16	1680	4000	1860	e5000	8990	8310	10800	78800	43500	9150	3410	2890
17	1600	3690	1920	7470	8350	8480	10300	71700	38500	8640	3490	3150
18	1530	3380	2070	11900	7760	9680	9830	64100	31800	8590	3970	3180
19	1480	3090	3550	22100	7380	10100	9490	57200	26000	8640	3480	4540
20	1520	2840	6850	26900	7000	10700	16200	52400	23300	8760	3170	5010
21	1540	2670	10100	29400	6530	11400	20700	47800	21800	9590	3170	4650
22	1500	2500	11000	31400	6160	13100	24100	43000	20200	9480	3310	4450
23	1480	2420	10900	34600	6010	15800	29400	38200	19200	9390	3220	4230
24	1500	2330	10500	39600	5910	19600	38700	30300	18700	9850	3920	4190
25	1520	2250	10000	43500	5700	28100	43500	22700	16800	12100	3430	4130
26	1500	2180	9160	46400	5600	34400	47900	19300	16200	11000	2970	3770
27	1520	2130	8210	47300	5660	38400	50500	22300	15700	10200	3150	4180
28	1530	2080	6710	45400	7530	40600	54700	26200	14700	9560	3390	6880
29	1500	2010	5230	41700	9930	39600	67300	28500	13600	9010	3160	7790
30	1490	1960	4320	36700	---	36300	76700	31000	12600	8680	2950	9430
31	1480	---	3930	30100	---	31100	---	36600	---	8440	2890	---
TOTAL	53630	70000	131480	554840	275730	558910	817220	2173500	931900	308520	136530	111300
MEAN	1730	2333	4241	17900	9508	18030	27240	70110	31060	9952	4404	3710
MAX	3030	4000	11000	47300	23000	40600	76700	121000	51400	12100	8170	9430
MIN	1480	1470	1470	2820	5600	8310	9490	19300	12600	8440	2890	2280
CFSM	.16	.21	.38	1.61	.85	1.62	2.45	6.30	2.79	.89	.40	.33
IN.	.18	.23	.44	1.86	.92	1.87	2.73	7.27	3.12	1.03	.46	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	3209	6686	10970	17320	18200	22590	22230	17740	10750	7336	4725	3421
MAX	12780	46800	38140	86440	67070	55340	42900	70110	31060	25620	39590	19640
(WY)	1994	1994	1986	1950	1950	1945	1944	1996	1996	1958	1979	1989
MIN	653	884	861	981	1388	1597	3767	1597	1950	1118	870	878
(WY)	1941	1954	1964	1977	1931	1941	1941	1941	1988	1954	1936	1936

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	3939540		6123560			
ANNUAL MEAN	10790		16730		12070	
HIGHEST ANNUAL MEAN					22760	1950
LOWEST ANNUAL MEAN					2138	1941
HIGHEST DAILY MEAN	78300	May 24	121000	May 5	182000	Jan 22 1937
LOWEST DAILY MEAN	1470	Nov 1	1470	Nov 1	573	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	1490	Oct 29	1490	Oct 29	598	Sep 26 1941
INSTANTANEOUS PEAK FLOW			122000	May 5	183000	Jan 22 1937
INSTANTANEOUS PEAK STAGE			25.87	May 5	28.30	Jan 22 1937
ANNUAL RUNOFF (CFSM)	.97		1.50		1.09	
ANNUAL RUNOFF (INCHES)	13.17		20.48		14.74	
10 PERCENT EXCEEDS	24700		43500		29700	
50 PERCENT EXCEEDS	7060		8820		6380	
90 PERCENT EXCEEDS	1680		1680		1500	

e Estimated

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 end of center pier of county road bridge, 0.3 mi downstream from Fudge Creek, 0.7 mi northeast of Valeene, 6.0 mi southwest of Hardinsburg, and at mile 158.0.
DRAINAGE AREA.--12.8 mi².
PERIOD OF RECORD.--October 1968 to current year.
GAGE.--Water-stage recorder and concrete control. Datum of gage is 606.89 ft above sea level.
REMARKS.--Records fair except for daily discharges of less than 1.0 ft³/s and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.04	.52	5.9	e13	24	176	133	25	.57	.51	.03
2	.26	.09	.55	13	e8.0	18	68	75	26	.52	.35	.01
3	.41	.09	.58	34	e6.4	12	39	56	23	.52	.34	.01
4	.92	.07	.54	e22	e5.3	9.8	28	184	18	.47	.32	.00
5	1.3	.07	.54	e17	e4.5	16	23	480	15	.42	.26	.00
6	1.5	.06	.52	e13	e3.8	125	19	279	377	.38	.24	.00
7	1.1	.09	.50	e11	e4.5	74	16	98	595	.37	.23	.00
8	.73	.10	.48	e9.0	e5.6	42	13	771	509	.37	1.2	.01
9	.68	.09	e.46	e7.0	9.4	26	12	214	251	.37	.98	2.8
10	.59	.08	e.43	e6.0	8.7	18	10	225	243	.34	.43	1.4
11	.57	.31	e.40	e4.8	6.4	15	9.3	813	238	.30	.27	.53
12	.56	.33	e.37	e4.0	5.9	14	8.9	155	83	.29	.31	.30
13	.53	.29	e.35	e14	5.5	13	8.9	70	34	.29	.24	.22
14	.51	.21	e.50	e20	6.3	11	10	43	16	.41	.16	.17
15	.51	.11	e1.5	e27	6.3	29	10	127	13	1.2	.12	.14
16	.46	.15	30	e45	5.6	32	9.1	78	6.2	.79	.10	17
17	.19	.19	18	266	5.1	66	8.2	45	4.5	.56	.13	5.2
18	.04	.25	68	267	4.9	41	7.8	30	3.7	.43	.22	2.2
19	.00	.25	144	237	4.8	68	11	23	3.2	.37	.78	1.5
20	.01	.27	57	70	5.4	102	314	19	2.8	.38	.40	1.1
21	.02	.29	28	39	6.3	78	99	16	2.5	.37	.24	11
22	.01	.30	19	29	8.4	67	48	14	2.1	.39	.15	12
23	.01	.39	15	259	12	92	460	12	1.9	.33	.10	4.6
24	.01	.41	13	335	9.6	323	165	12	1.5	.43	.12	2.7
25	.01	.41	e9.0	91	7.7	418	76	12	1.2	2.6	.24	2.1
26	.02	.47	e7.0	53	8.3	132	93	20	.98	1.6	.15	128
27	.04	.53	e5.4	45	19	55	52	285	.83	1.1	.14	343
28	.04	.54	e4.7	29	89	38	470	301	.73	.81	.13	370
29	.04	.54	e4.3	24	35	41	1450	208	.70	.75	.11	92
30	.04	.51	e3.9	18	---	31	289	66	.63	.85	.09	33
31	.04	---	e3.5	e14	---	27	---	35	---	.82	.05	---
TOTAL	11.44	7.53	438.04	2028.7	320.7	2057.8	4003.2	4899	2499.47	19.40	9.11	1031.02
MEAN	.37	.25	14.1	65.4	11.1	66.4	133	158	83.3	.63	.29	34.4
MAX	1.5	.54	144	335	89	418	1450	813	595	2.6	1.2	370
MIN	.00	.04	.35	4.0	3.8	9.8	7.8	12	.63	.29	.05	.00
CFSM	.03	.02	1.10	5.11	.86	5.19	10.4	12.3	6.51	.05	.02	2.68
IN.	.03	.02	1.27	5.90	.93	5.98	11.63	14.24	7.26	.06	.03	3.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	3.30	19.8	31.9	34.0	38.2	48.6	51.0	37.6	16.4	9.52	5.00	4.40
MAX	11.9	77.3	109	107	89.6	101	133	158	83.3	89.6	33.4	34.4
(WY)	1991	1980	1991	1982	1990	1973	1996	1996	1996	1979	1977	1996
MIN	.001	.20	1.17	.61	2.58	8.80	6.79	2.66	.46	.26	.000	.003
(WY)	1992	1992	1981	1981	1992	1981	1976	1988	1988	1983	1991	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	9750.35		17325.41			
ANNUAL MEAN	26.7		47.3		24.9	
HIGHEST ANNUAL MEAN					47.3	1996
LOWEST ANNUAL MEAN					6.35	1992
HIGHEST DAILY MEAN	766	Apr 21	1450	Apr 29	1770	Jul 26 1979
LOWEST DAILY MEAN	.00	Oct 19	.00	Oct 19	.00	Oct 4 1970
ANNUAL SEVEN-DAY MINIMUM	.01	Oct 19	.00	Sep 2	.00	Sep 11 1972
INSTANTANEOUS PEAK FLOW			2580	Apr 29	9270	Jul 26 1979
INSTANTANEOUS PEAK STAGE			9.02	Apr 29	11.35	Jul 26 1979
ANNUAL RUNOFF (CFSM)	2.09		3.70		1.95	
ANNUAL RUNOFF (INCHES)	28.34		50.35		26.43	
10 PERCENT EXCEEDS	58		129		52	
50 PERCENT EXCEEDS	5.8		4.8		5.3	
90 PERCENT EXCEEDS	.30		.11		.30	

e Estimated

03374500 PATOKA RIVER NEAR CUZCO, IN

LOCATION.--Lat 38°26'31", long 86°42'51", in SW¼SW¼ sec.11, T.1 S., R.3 W., Dubois County, Hydrologic Unit 05120209 on right bank 20 ft upstream from bridge on Cuzco Road South, 0.7 mi downstream from Patoka Lake, 2.3 mi south of Cuzco, 4.5 mi upstream from Dillon Creek, and at mile 117.8.

DRAINAGE AREA.--170 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft above sea level, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 1.7 mi downstream at same datum. Oct. 1, 1961 to Sept. 30, 1981, water-stage recorder at site described above. Prior to October 1979, published as "near Ellsworth".

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Patoka Lake since February 1978.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1981.

AVERAGE DISCHARGE.--35 years, 222 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 14,700 ft³/s Mar. 10, 1964, gage height, 20.02 ft; no flow Oct. 30, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.1 ft according to information by local resident, discharge, 12,300 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,830 ft³/s June 1; minimum daily, 25 ft ³/s Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	393	226	491	474	101	412	49	2830	140	207	403
2	468	393	226	490	944	101	412	49	2820	140	207	402
3	468	393	226	490	1050	101	530	49	2540	183	207	402
4	468	392	126	316	1040	101	614	49	1650	210	207	402
5	467	392	26	279	1040	101	768	49	684	210	207	401
6	467	392	26	487	1040	102	844	50	67	210	206	326
7	466	391	167	487	1030	102	843	50	49	209	206	201
8	466	391	467	485	1030	161	702	50	49	209	232	201
9	465	391	507	483	1030	203	446	230	184	209	257	318
10	465	390	507	482	1030	203	206	465	273	209	308	400
11	464	390	506	190	1020	203	342	1130	274	232	308	400
12	464	390	505	291	854	203	409	1830	274	244	308	400
13	463	389	505	479	617	203	409	2250	274	243	307	399
14	463	389	504	375	230	203	408	1150	274	243	307	399
15	462	389	504	221	101	203	408	1400	274	151	307	398
16	462	388	504	147	101	204	408	1780	274	142	307	150
17	461	388	503	25	101	203	408	1860	141	209	307	117
18	461	388	503	37	101	203	407	2150	141	208	307	316
19	212	387	504	51	101	203	407	2220	140	208	320	399
20	100	387	505	81	101	204	409	2210	120	208	340	398
21	272	387	504	103	101	204	410	2200	105	208	340	299
22	492	386	504	61	101	205	319	2190	105	208	339	200
23	491	386	503	76	101	205	46	2190	105	208	339	200
24	207	386	503	104	101	205	46	1780	105	208	339	311
25	53	385	502	104	101	206	46	956	105	208	339	397
26	53	234	501	164	101	207	72	451	105	208	374	249
27	53	46	501	207	101	207	164	831	120	208	404	102
28	53	46	500	303	101	207	197	1550	140	207	404	47
29	53	46	498	377	101	207	89	2020	140	207	404	47
30	272	188	495	161	---	343	49	2470	140	207	403	47
31	394	---	493	26	---	411	---	2770	---	207	403	---
TOTAL	11074	10293	13051	8073	13944	5915	11230	38478	14502	6301	9450	8731
MEAN	357	343	421	260	481	191	374	1241	483	203	305	291
MAX	492	393	507	491	1050	411	844	2770	2830	244	404	403
MIN	53	46	26	25	101	101	46	49	49	140	206	47

CAL YR 1995 TOTAL 97527 MEAN 267 MAX 816 MIN 19
WTR YR 1996 TOTAL 151042 MEAN 413 MAX 2830 MIN 25

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 mi upstream from unnamed outlet of Idlewild Lake, 1.0 mi downstream from Coon Seitz bridge, 1.2 mi downstream from Beaver Creek, 3.3 mi northeast of Jasper, and at mile 91.5.
DRAINAGE AREA.--262 mi^2.
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 above sea level (levels by State of Indiana, Department of Natural Resources). Nonrecording gage at bridge 5.6 mi downstream, used for high-water periods when flow exceeds about 2,500 ft^3/s, at datum 0.34 ft lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 mi downstream at datum 0.34 ft lower.
REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Beaver Creek Reservoir beginning Oct. 11, 1955, and by Patoka Lake beginning Feb. 13, 1978.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 15.9 ft at downstream site, from floodmark furnished by local residents, discharge 16,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	396	160	514	138	222	878	2900	2330	176	237	479
2	443	409	238	543	753	194	877	1670	2610	174	235	479
3	447	408	240	639	1120	168	620	808	2650	171	234	479
4	448	403	238	597	e1060	152	640	1180	2570	206	234	479
5	450	403	124	376	e1060	168	650	1310	2360	228	233	478
6	454	401	40	342	e1060	532	746	1450	2330	227	233	477
7	453	403	35	459	e1060	452	949	1370	2950	236	233	346
8	454	401	166	464	1060	280	982	1110	3030	231	293	196
9	453	400	445	458	1060	263	884	1580	2010	227	283	222
10	454	401	476	455	1060	272	521	2080	1330	225	269	323
11	453	426	477	447	1060	260	277	2430	1310	225	308	377
12	451	427	477	242	1050	256	384	2690	1250	253	311	375
13	452	409	e477	385	958	251	435	2360	704	265	314	367
14	453	404	495	552	439	252	460	2180	444	337	310	389
15	455	400	493	522	165	259	450	2340	388	467	309	391
16	454	398	549	415	140	281	456	2610	365	222	311	670
17	452	397	528	654	131	302	449	2440	289	186	311	417
18	452	396	602	518	127	302	440	2210	260	249	309	196
19	444	394	869	982	127	343	435	2120	239	250	307	355
20	232	393	881	574	129	616	1170	2140	250	253	323	456
21	127	392	640	285	129	619	1480	2200	213	251	348	386
22	284	391	570	249	127	555	1480	2210	174	246	349	348
23	468	392	546	439	127	598	1380	2200	162	243	349	310
24	471	391	534	1060	124	952	1650	2210	157	241	398	300
25	216	390	526	801	121	1400	1540	2190	149	248	357	396
26	66	389	519	416	123	1630	804	2230	144	244	349	450
27	61	250	516	424	149	1330	471	2290	142	240	426	650
28	61	78	510	387	480	617	804	2160	156	238	463	1120
29	59	65	507	453	329	466	4000	2130	177	238	463	713
30	59	64	506	326	---	418	5450	2100	177	239	473	276
31	268	---	507	182	---	491	---	2150	---	246	478	---
TOTAL	10936	10871	13891	15160	15466	14901	31762	63048	31320	7482	10050	12900
MEAN	353	362	448	489	533	481	1059	2034	1044	241	324	430
MAX	471	427	881	1060	1120	1630	5450	2900	3030	467	478	1120
MIN	59	64	35	182	121	152	277	808	142	171	233	196
CFSM	1.35	1.38	1.71	1.87	2.04	1.83	4.04	7.76	3.98	.92	1.24	1.64
IN.	1.55	1.54	1.97	2.15	2.20	2.12	4.51	8.95	4.45	1.06	1.43	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	99.1	241	422	612	659	771	618	445	213	122	100	90.4
MAX	494	800	1506	2742	1898	2543	1574	2034	1044	787	530	484
(WY)	1980	1975	1952	1950	1950	1964	1972	1996	1996	1958	1977	1979
MIN	.000	.000	.17	17.5	27.7	144	130	37.5	8.66	.074	.000	.000
(WY)	1949	1954	1954	1964	1964	1992	1976	1952	1953	1954	1952	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	143400		237787			
ANNUAL MEAN	393		650		365	
HIGHEST ANNUAL MEAN					673	1950
LOWEST ANNUAL MEAN					63.6	1954
HIGHEST DAILY MEAN	2380	May 19	5450	Apr 30	13500	Mar 11 1964
LOWEST DAILY MEAN	35	Dec 7	35	Dec 7	.00	Oct 1 1948
ANNUAL SEVEN-DAY MINIMUM	66	Apr 6	113	Oct 25	.00	Oct 1 1948
INSTANTANEOUS PEAK FLOW			6370	Apr 30	14100	Mar 11 1964
INSTANTANEOUS PEAK STAGE			17.21	Apr 30	21.20	Mar 11 1964
ANNUAL RUNOFF (CFSM)	1.50		2.48		1.39	
ANNUAL RUNOFF (INCHES)	20.36		33.76		18.91	
10 PERCENT EXCEEDS	706		1640		1060	
50 PERCENT EXCEEDS	370		425		128	
90 PERCENT EXCEEDS	112		168		6.2	

e Estimated

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 right bank 10 ft downstream of bridge on County Road 125 South, 0.7 mi upstream from Grassy Fork, 3.3 mi north of St. Anthony, and at mile 4.1.
DRAINAGE AREA.--21.8 mi².
PERIOD OF RECORD.--October 1970 to current year.
REVISED RECORDS.--WDR IN-75-1: 1971-74.
GAGE.--Water-stage recorder. Datum of gage is 459.22 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records good except for estimated daily dischargs, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.31	.88	8.7	e10	9.0	200	116	17	.89	.20	e.02
2	.06	2.0	.81	53	e8.8	8.6	63	69	58	.93	e.16	e.01
3	.19	.77	.73	51	e7.8	6.9	37	73	24	.93	e.13	e.00
4	2.0	.41	.71	27	e7.2	6.4	30	114	15	.90	e.13	e.00
5	.62	.25	.67	17	e6.6	18	25	152	11	.90	e.12	e.00
6	2.0	.21	.60	e13	e7.4	92	21	100	575	.90	e.11	e.03
7	.43	.39	.55	e11	e9.4	48	16	51	539	.96	e.14	.20
8	.22	.61	.51	e9.6	14	e22	12	215	108	1.0	.41	.61
9	.14	.32	e.34	e8.8	10	e14	8.5	71	78	1.0	.66	74
10	.24	.22	e.30	e8.2	9.7	12	6.7	107	202	.90	.40	2.1
11	.36	13	e.27	e7.6	9.5	10	5.5	428	111	.90	.29	1.0
12	.40	4.4	.54	e7.4	7.5	9.7	4.6	74	42	.91	.66	.62
13	.42	3.2	3.6	e7.2	7.6	8.7	13	40	24	1.0	1.1	.55
14	.45	2.8	7.3	e7.7	8.8	7.8	10	28	15	7.3	.47	.51
15	.38	1.9	11	58	8.5	30	8.6	127	11	9.0	.35	.48
16	.34	1.5	48	132	7.2	23	10	48	8.1	1.6	.31	193
17	.29	1.3	10	122	6.6	43	6.8	30	6.4	1.1	.27	11
18	.23	1.4	92	286	6.4	24	5.4	20	6.8	.86	.34	4.2
19	.23	1.2	160	144	7.1	96	5.2	14	5.0	.46	.26	2.3
20	1.9	1.0	42	39	8.1	141	391	11	4.0	1.1	.20	1.4
21	2.1	.99	20	25	7.5	106	58	7.7	3.2	.74	e.07	12
22	.31	.82	13	20	7.4	95	29	5.7	2.5	.61	e.07	6.7
23	.17	1.8	9.8	332	7.4	124	489	4.6	2.0	.54	1.5	2.9
24	.13	1.6	8.1	269	6.2	431	96	7.4	1.6	.52	7.5	1.9
25	.12	1.2	e6.7	60	6.5	466	43	7.1	1.0	.58	.42	1.1
26	.11	1.2	e5.7	45	7.2	100	71	213	.76	.26	.24	1.3
27	.33	1.2	e5.0	49	8.8	54	30	534	.66	.21	.21	308
28	.74	1.4	e4.6	31	14	42	638	180	.69	.20	e.14	203
29	.29	1.0	e4.3	23	9.6	53	1490	99	.72	.22	e.17	34
30	.15	.83	e4.2	17	---	36	193	40	.80	.24	e.08	17
31	.13	---	e4.0	e13	---	51	---	23	---	.23	e.04	---
TOTAL	15.56	49.23	466.21	1902.2	242.8	2188.1	4016.3	3009.5	1874.23	37.89	17.15	879.93
MEAN	.50	1.64	15.0	61.4	8.37	70.6	134	97.1	62.5	1.22	.55	29.3
MAX	2.1	13	160	332	14	466	1490	534	575	9.0	7.5	308
MIN	.06	.21	.27	7.2	6.2	6.4	4.6	4.6	.66	.20	.04	.00
CFSM	.02	.08	.69	2.81	.38	3.24	6.14	4.45	2.87	.06	.03	1.35
IN.	.03	.08	.80	3.25	.41	3.73	6.85	5.14	3.20	.06	.03	1.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	8.68	35.1	41.6	39.9	55.9	60.4	56.8	36.5	20.4	19.1	11.6	11.7
MAX	34.1	147	125	154	131	131	142	153	73.7	247	52.5	68.0
(WY)	1978	1980	1991	1982	1985	1989	1972	1983	1979	1979	1979	1986
MIN	.003	.38	3.28	.17	4.96	13.9	5.83	.35	.003	.32	.040	.022
(WY)	1988	1988	1977	1977	1992	1981	1986	1988	1988	1983	1991	1987

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	11711.01		14699.10			
ANNUAL MEAN	32.1		40.2		33.0	
HIGHEST ANNUAL MEAN					78.4	1979
LOWEST ANNUAL MEAN					11.5	1992
HIGHEST DAILY MEAN	1060	May 17	1490	Apr 29	5110	Jul 26 1979
LOWEST DAILY MEAN	.06	Oct 2	.00	Sep 3	.00	Jun 23 1972
ANNUAL SEVEN-DAY MINIMUM	.14	Sep 26	.01	Aug 31	.00	Jun 23 1972
INSTANTANEOUS PEAK FLOW			3760	Apr 28	11500	Jul 26 1979
INSTANTANEOUS PEAK STAGE			12.54	Apr 28	15.30	Jul 26 1979
ANNUAL RUNOFF (CFSM)	1.47		1.84		1.51	
ANNUAL RUNOFF (INCHES)	19.98		25.08		20.56	
10 PERCENT EXCEEDS	64		102		64	
50 PERCENT EXCEEDS	6.7		6.6		7.1	
90 PERCENT EXCEEDS	.24		.22		.30	

e Estimated

03376300 PATOKA RIVER AT WINSLOW, IN

LOCATION.--Lat 38°22'48", long 87°13'00", in SW¼ SW¼ sec.32, T.1 S., R.7 W., Pike County, Hydrologic Unit 05120209, on right bank at abandoned bridge abutment, 65 ft upstream from bridge on State Highway 61, 100 ft downstream from dam of Winslow Water Company, and 41.3 mi above mouth.
DRAINAGE AREA.--603 mi².
PERIOD OF RECORD.--October 1963 to September 1974, May 1986 to current year. Discharge measurements and gage readings June 1961 to September 1963, obtained by State of Indiana, Department of Natural Resources, are available in the district office.
GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Nov. 21, 1963, nonrecording gage on downstream side of bridge 65 ft downstream at same datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Patoka Lake. Minor diversion by municipal water supply 100 ft above gage.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 28.9 ft, from floodmarks, information from State of Indiana, Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	83	85	543	919	563	2760	10900	4440	138	382	459
2	428	276	79	576	e600	431	2540	11100	4020	135	312	461
3	432	393	162	726	e520	344	2270	9640	3650	133	277	464
4	448	410	244	898	e660	285	2100	7900	3350	133	263	462
5	452	401	254	880	e800	263	1970	6520	3170	130	256	460
6	446	393	236	740	e920	681	1790	5990	3620	151	250	462
7	451	394	154	524	e1050	1060	1590	5300	5830	169	244	534
8	446	397	77	649	e1130	1040	1450	4630	7060	248	242	578
9	445	395	54	744	e1200	834	1360	4150	7530	269	263	454
10	442	390	172	e760	1300	602	1290	3870	7340	202	340	545
11	440	422	490	e720	1190	504	1180	4720	6720	174	294	423
12	440	509	523	e680	1150	456	930	5060	5900	164	296	382
13	439	507	488	e620	1140	430	734	5090	5090	165	328	381
14	438	453	e480	497	1120	409	809	5090	4370	214	329	372
15	439	425	540	697	1030	409	804	4950	3770	787	324	376
16	440	409	611	897	712	525	758	4640	2990	959	321	807
17	440	399	725	1160	418	782	716	4220	2210	693	325	1190
18	440	393	724	1290	305	800	668	3850	1680	402	321	1160
19	440	392	1050	1610	259	741	632	3550	1310	314	333	959
20	449	390	1260	1500	241	1020	1960	3310	1080	745	330	643
21	421	385	1220	1470	238	1270	2010	3080	866	847	323	638
22	277	381	1170	1430	238	1350	1940	2830	696	592	340	831
23	182	386	1040	1450	233	1480	2910	2580	542	417	353	704
24	340	388	854	1840	229	1850	3310	2380	397	336	427	516
25	465	385	697	1710	218	2470	3360	2250	291	345	432	414
26	424	387	617	1680	205	2380	3570	2270	224	394	400	396
27	255	395	584	1750	215	2340	3640	2820	174	317	368	935
28	132	371	564	1740	336	2490	3780	3510	149	276	382	1840
29	95	248	548	1660	535	2750	6890	4420	132	270	438	1720
30	84	129	536	1470	---	2820	9340	5170	129	513	452	1670
31	77	---	533	1230	---	2650	---	4960	---	525	455	---
TOTAL	11576	11286	16771	34141	19111	36029	69061	150750	88730	11157	10400	21236
MEAN	373	376	541	1101	659	1162	2302	4863	2958	360	335	708
MAX	465	509	1260	1840	1300	2820	9340	11100	7530	959	455	1840
MIN	77	83	54	497	205	263	632	2250	129	130	242	372
CFSM	.62	.62	.90	1.83	1.09	1.93	3.82	8.06	4.90	.60	.56	1.17
IN.	.71	.70	1.03	2.11	1.18	2.22	4.26	9.30	5.47	.69	.64	1.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

MEAN	137	396	712	989	1278	1531	1476	1158	525	275	164	189
MAX	579	2218	2048	2576	2832	5126	3426	4863	2958	1305	503	708
(WY)	1991	1994	1991	1991	1991	1964	1972	1996	1996	1969	1995	1996
MIN	2.84	6.83	13.8	56.3	45.5	428	349	85.7	13.4	13.5	7.46	.94
(WY)	1965	1964	1964	1964	1964	1969	1967	1988	1972	1966	1965	1972

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	308175		480248			
ANNUAL MEAN	844		1312		731	
HIGHEST ANNUAL MEAN					1312	1996
LOWEST ANNUAL MEAN					224	1992
HIGHEST DAILY MEAN	6890	May 21	11100	May 2	15200	Mar 13 1964
LOWEST DAILY MEAN	54	Dec 9	54	Dec 9	.50	Aug 5 1964
ANNUAL SEVEN-DAY MINIMUM	119	Apr 7	133	Jun 29	.61	Sep 8 1972
INSTANTANEOUS PEAK FLOW			11600	May 2	15500	Mar 13 1964
INSTANTANEOUS PEAK STAGE			27.37	May 2	28.84	Mar 13 1964
ANNUAL RUNOFF (CFSM)	1.40		2.18		1.21	
ANNUAL RUNOFF (INCHES)	19.01		29.63		16.48	
10 PERCENT EXCEEDS	1600		3640		1950	
50 PERCENT EXCEEDS	456		541		300	
90 PERCENT EXCEEDS	207		235		18	

e Estimated

03376500 PATOKA RIVER NEAR PRINCETON, IN

LOCATION.--Lat 38°23'25", long 87°32'55", in section 107, T.1 S., R.10 W., Gibson County, Hydrologic Unit 05120209, on right downstream side of bridge on State Highway 65, 0.5 mi downstream from Indian Creek, 2 mi northeast of Princeton, and at mile 21.4.
DRAINAGE AREA.--822 mi².
PERIOD OF RECORD.--August 1934 to current year. 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. Datum of gage is 390.00 ft above sea level. Jan. 21, 1941 to Oct. 23, 1986, water-stage recorder at dam 0.1 mi downstream and at datum 4.14 ft higher. See WSP 1725 for history of changes prior to Jan. 21, 1941.
REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Patoka Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	94	137	576	1710	651	2900	10000	3840	318	508	487
2	432	139	109	608	1230	562	2950	12000	4120	273	405	490
3	436	336	115	721	e760	423	2980	13100	4310	272	352	492
4	453	404	212	926	e900	341	2950	13800	4310	260	327	493
5	464	406	252	1010	e1070	316	2860	13400	4210	251	314	491
6	457	398	251	927	e1200	809	2750	12500	4740	252	309	491
7	454	402	213	698	e1300	1180	2610	11000	5990	274	299	591
8	455	404	143	575	e1340	1250	2460	9840	6490	313	294	705
9	452	408	93	827	e1370	1120	2270	8190	7260	405	294	588
10	452	410	e80	1020	1380	846	2040	6800	8440	350	350	536
11	451	515	312	e920	1390	633	1810	6680	8990	295	371	539
12	447	532	538	e800	1350	549	1550	6310	8880	270	331	437
13	446	573	539	e680	1320	505	1260	6010	8160	260	367	423
14	444	527	e520	e600	1290	478	1130	5760	7170	285	383	416
15	443	472	562	646	1260	477	1050	5610	6260	760	379	410
16	445	446	629	931	1080	575	965	5440	5640	1070	374	751
17	444	433	744	1380	667	1040	880	5270	5110	987	373	1250
18	439	422	796	1560	399	1100	809	5040	4620	628	368	1310
19	436	418	1250	1760	313	974	754	4790	4150	423	387	1250
20	444	416	1450	1710	279	1130	2020	4570	3670	769	392	929
21	455	412	1420	1680	269	1470	2070	4330	3190	1040	378	879
22	362	407	1370	1680	271	1630	2280	4090	2760	864	375	1000
23	220	409	1300	1840	280	1760	3010	3900	2270	582	393	905
24	207	413	1130	2090	268	2080	3030	3710	1540	455	449	677
25	391	412	893	2080	253	2350	3160	3520	1010	415	483	510
26	449	408	724	2120	242	2370	3350	3440	741	456	458	442
27	341	407	656	2160	258	2450	3460	3370	561	429	426	702
28	202	405	618	2120	413	2520	3850	3350	457	369	413	1520
29	133	340	595	2110	523	2580	5700	3360	402	348	449	1650
30	109	209	577	2040	---	2620	7190	3430	358	475	480	1710
31	99	---	571	1930	---	2690	---	3590	---	618	483	---
TOTAL	11893	11977	18799	40725	24385	39479	76098	206200	129649	14766	11964	23074
MEAN	384	399	606	1314	841	1274	2537	6652	4322	476	386	769
MAX	464	573	1450	2160	1710	2690	7190	13800	8990	1070	508	1710
MIN	99	94	80	575	242	316	754	3350	358	251	294	410
CFSM	.47	.49	.74	1.60	1.02	1.55	3.09	8.09	5.26	.58	.47	.94
IN.	.54	.54	.85	1.84	1.10	1.79	3.44	9.33	5.87	.67	.54	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1996, BY WATER YEAR (WY)

MEAN	246	523	960	1516	1775	2192	1988	1508	801	433	311	228
MAX	2573	2978	3735	8365	5570	8531	4664	6810	4322	3075	3915	1125
(WY)	1946	1994	1952	1937	1950	1945	1989	1961	1996	1958	1979	1979
MIN	1.53	9.83	10.2	44.3	64.2	61.5	373	117	7.93	15.0	4.60	8.12
(WY)	1943	1944	1944	1944	1964	1941	1976	1941	1936	1944	1936	1942

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1935 - 1996	
ANNUAL TOTAL	392009		609009			
ANNUAL MEAN	1074		1664		1036	
HIGHEST ANNUAL MEAN					2080	1950
LOWEST ANNUAL MEAN					151	1954
HIGHEST DAILY MEAN	6480	May 24	13800	May 4	18500	Jan 26 1937
LOWEST DAILY MEAN	80	Dec 10	80	Dec 10	.00	Aug 29 1936
ANNUAL SEVEN-DAY MINIMUM	159	Oct 28	159	Oct 28	.00	Aug 29 1936
INSTANTANEOUS PEAK FLOW			13900	May 4	18700	Jan 26 1937
INSTANTANEOUS PEAK STAGE			24.35	May 4	26.80	Jan 26 1937
ANNUAL RUNOFF (CFSM)	1.31		2.02		1.26	
ANNUAL RUNOFF (INCHES)	17.74		27.56		17.13	
10 PERCENT EXCEEDS	2690		4320		2830	
50 PERCENT EXCEEDS	547		639		381	
90 PERCENT EXCEEDS	231		291		26	

e Estimated

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 mi downstream from Patoka River, and at mile 94.4.
DRAINAGE AREA.--28,635 mi².
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 U.S. Army Corps of Engineers and since June 1884, are contained in reports of National Weather Service.
REVISED RECORDS.--WDR IN-73-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 369.46 ft above sea level. Oct. 1, 1949, to Feb. 8, 1977, at datum 2.00 ft higher. See WSP 1725 for history of changes prior to Sept. 30, 1949.
REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow partially regulated by upstream reservoirs.
EXTREMES OUTSIDE THE PERIOD OF RECORD.--(1874-78, 1884 to 1985) Maximum discharge, 428,000 ft³/s Mar. 30, 1913, from rating curve extended above 310,000 ft³/s, gage height, 33.0 ft, present site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4710	5240	6330	7700	51900	19300	51200	130000	88100	31200	25100	7730
2	4550	5430	5940	7380	41200	22800	52200	145000	96900	28200	24600	7590
3	4530	5600	5760	7540	32600	26300	51000	163000	106000	26100	24400	7330
4	4560	5760	5650	7740	26000	29000	51100	181000	110000	24500	23700	7060
5	4610	5890	5620	8140	e22000	28500	50100	193000	106000	23500	21500	6870
6	4640	6170	5480	e7200	e19000	25800	46400	199000	94600	22900	19100	6720
7	4590	6580	5270	e6800	e18000	24300	43500	197000	88700	22100	16900	6770
8	4590	6620	5100	e6600	e19000	25600	40800	195000	86500	21600	14900	7040
9	4630	6590	4970	e6400	e21000	27800	36800	196000	85500	20700	13400	7200
10	4900	6570	4770	e6200	23100	28400	32200	199000	85200	19600	12500	7240
11	5680	8110	4490	e6000	24200	27500	28200	202000	84000	18900	12000	e7000
12	5630	7800	4660	e5900	24400	25700	24800	203000	84400	19100	11500	e6800
13	5370	7820	4530	e5800	24700	23000	22200	199000	85600	19300	11000	6730
14	5350	8240	4320	e6200	22600	20100	20400	189000	87700	19000	10400	6700
15	5320	8870	4380	e7000	20300	18000	19400	181000	89800	19100	9840	6440
16	5250	10100	4670	9310	19000	16900	18700	174000	90200	18500	9430	6820
17	5220	10700	5040	11700	17700	16900	18000	167000	88500	17100	9070	7860
18	5130	10500	5630	18700	16100	17500	17200	159000	84700	16100	8830	8840
19	4870	10100	7050	28900	14900	18000	16500	147000	78400	15400	8990	8300
20	4890	9660	10700	39900	14100	18300	23400	135000	72000	16700	8480	8850
21	4890	9080	13200	47500	13200	19200	30100	122000	67500	21300	8180	9490
22	5300	8470	15500	51700	12500	20500	34500	110000	63300	28400	8310	9340
23	5640	8070	16000	54400	12200	23000	48900	98900	58800	31500	8460	8670
24	5730	7770	16000	61200	12000	27300	63900	89300	54200	33700	8650	8270
25	5750	7530	15400	66600	11700	37000	71300	77000	49600	36600	9120	7970
26	5690	7360	14500	70300	11500	46400	77300	64600	46300	39600	9750	7910
27	5690	7280	13300	73400	11600	52700	80600	60600	45700	39000	9440	8040
28	5500	7070	12000	74900	13200	55700	83600	65400	45000	37200	9010	9550
29	5260	6860	10300	73200	16500	55400	98200	70100	41600	33100	8770	11900
30	5150	6650	8950	68000	---	54500	115000	74600	35800	28800	8390	13000
31	5130	---	8120	60800	---	52300	---	80400	---	26200	8010	---
TOTAL	158750	228490	253630	913110	586200	903700	1367500	4466900	2300600	775000	391730	240030
MEAN	5121	7616	8182	29460	20210	29150	45580	144100	76690	25000	12640	8001
MAX	5750	10700	16000	74900	51900	55700	115000	203000	110000	39600	25100	13000
MIN	4530	5240	4320	5800	11500	16900	16500	60600	35800	15400	8010	6440
CFSM	.18	.27	.29	1.03	.71	1.02	1.59	5.03	2.68	.87	.44	.28
IN.	.21	.30	.33	1.19	.76	1.17	1.78	5.80	2.99	1.01	.51	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	9272	15670	25640	37830	40570	49870	50630	42000	27470	10890	11870	9024
MAX	37700	87950	92340	199300	147100	108700	106400	144100	76690	73580	75530	50670
(WY)	1994	1994	1986	1950	1950	1985	1938	1996	1996	1958	1979	1989
MIN	2465	2632	2266	2861	3757	4815	11900	5805	5035	3366	2372	2572
(WY)	1941	1931	1964	1977	1931	1941	1941	1934	1988	1936	1936	1940

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	8490500		12585640			
ANNUAL MEAN	23260		34390		28160	
HIGHEST ANNUAL MEAN					56740	1950
LOWEST ANNUAL MEAN					6144	1941
HIGHEST DAILY MEAN	149000	May 24	203000	May 12	302000	May 25 1943
LOWEST DAILY MEAN	4320	Dec 14	4320	Dec 14	1650	Sep 27 1941
ANNUAL SEVEN-DAY MINIMUM	4550	Dec 10	4550	Dec 10	1700	Dec 19 1963
INSTANTANEOUS PEAK FLOW			204000	May 12	305000	May 25 1943
INSTANTANEOUS PEAK STAGE			30.68	May 12	31.75	Jan 7 1991
ANNUAL RUNOFF (CFSM)	.81		1.20		.98	
ANNUAL RUNOFF (INCHES)	11.03		16.35		13.36	
10 PERCENT EXCEEDS	52600		87800		67700	
50 PERCENT EXCEEDS	14600		17100		16400	
90 PERCENT EXCEEDS	5220		5460		4300	

e Estimated

03378500 WABASH RIVER AT NEW HARMONY, IN

LOCATION.--Lat 38°07'55", long 87°56'25"in $SE^1/_4SE^1/_4$ sec.35, T.4 S., R.14 W., Posey County, Hydrologic Unit 05120113, at bridge on U.S. Highway 66 at New Harmony, at Indiana-Illinois state line, and at mile 51.5.

DRAINAGE AREA.--29,234 mi^2.

PERIOD OF RECORD.--August 1988 to current year. Water discharge published October 1938 to September 1947.

GAGE.--Water-stage recorder. Datum of gage is 353.20 ft above sea level. (Furnished by National Weather Service). (Prior to October 1992, erroneously published as 353.30 ft above sea level).

REMARKS.--Water-quality data collected October 1974 to September 1986.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 23.84 ft. May 26, 1943. Beginning August 1988, minimum gage height 0.46 ft. Oct. 12, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1913 reached a stage of 27.7 ft. Flood of Jan. 31, 1937, reached a stage of 24.4 ft.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.91 ft. May 7; minimum gage height, .96 ft., Dec. 15.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.11	1.28	1.58	1.99	---	4.54	11.56	18.11	15.66	7.46	6.00	2.07
2	1.08	1.30	1.51	1.95	---	5.23	11.64	18.52	16.07	6.75	5.86	2.02
3	1.05	1.35	1.42	1.94	---	5.98	11.48	19.07	16.44	6.26	5.80	1.98
4	1.08	1.40	1.40	1.99	---	6.60	11.32	20.01	16.97	5.91	5.68	1.88
5	1.10	1.46	1.36	2.08	---	6.62	11.10	20.44	17.05	5.67	5.24	1.82
6	1.06	1.55	1.35	2.22	---	6.10	10.46	20.74	17.04	5.52	4.72	1.76
7	1.05	1.65	1.28	2.21	---	5.70	9.82	20.66	16.54	5.36	4.26	1.78
8	1.07	1.66	1.26	2.20	---	5.92	9.26	20.71	16.20	5.30	3.80	1.86
9	1.08	1.69	1.18	1.75	---	6.38	8.48	20.69	16.06	5.04	3.46	1.88
10	1.14	1.71	1.12	2.06	---	6.51	7.53	20.74	16.08	4.82	3.23	1.92
11	1.39	2.29	1.04	1.88	---	6.34	6.68	20.80	15.96	4.64	3.12	1.87
12	1.43	2.06	1.08	2.16	5.79	6.00	5.90	20.82	15.91	4.66	3.00	1.76
13	1.35	1.98	1.08	2.10	5.84	5.44	5.32	20.67	15.90	4.70	2.88	1.74
14	1.30	2.08	.98	2.13	5.41	4.82	4.91	20.49	15.95	4.73	2.74	1.74
15	1.30	2.22	1.04	2.18	4.88	4.38	4.66	20.23	15.99	4.74	2.60	1.71
16	1.30	2.48	1.10	2.34	4.58	4.14	4.50	19.95	15.98	4.59	2.52	1.87
17	1.28	2.64	1.20	3.01	4.27	4.12	4.33	19.75	15.92	4.25	2.42	2.03
18	1.25	2.60	1.40	4.51	3.94	4.24	4.18	19.51	15.76	4.02	2.37	2.35
19	1.19	2.53	1.91	6.62	3.68	4.37	4.09	19.12	15.44	3.88	2.40	2.20
20	1.18	2.42	2.76	8.86	3.52	4.38	5.82	18.70	14.92	4.45	2.28	2.32
21	1.14	2.30	3.14	10.27	3.32	4.59	7.18	18.16	14.34	5.11	2.19	2.52
22	1.22	2.19	3.60	11.09	3.19	4.90	8.29	17.60	13.73	6.59	2.20	2.48
23	1.38	2.05	3.71	11.92	3.10	5.48	11.24	17.08	13.00	7.32	2.26	2.30
24	1.37	1.98	3.69	13.00	3.05	6.64	13.35	16.51	12.20	7.76	2.32	2.20
25	1.42	1.91	3.58	13.79	3.01	8.63	14.51	15.79	11.34	8.34	2.38	2.11
26	1.38	1.86	3.41	14.37	2.97	10.27	15.00	14.60	10.59	8.88	2.65	2.14
27	1.38	1.82	3.18	14.70	2.98	11.44	15.34	13.95	10.36	8.79	2.52	2.15
28	1.33	1.78	2.93	14.90	3.23	11.99	16.35	14.10	10.20	8.45	2.40	2.42
29	1.28	1.73	2.60	14.80	3.94	12.04	17.21	14.46	9.56	7.65	2.34	3.00
30	1.24	1.70	2.31	---	---	11.92	17.65	14.80	8.44	6.80	2.26	3.24
31	1.23	---	2.10	---	---	11.72	---	15.18	---	6.24	2.16	---
MEAN	1.23	1.92	1.98	---	---	6.69	9.64	18.45	14.52	5.96	3.23	2.10
MAX	1.43	2.64	3.71	---	---	12.04	17.65	20.82	17.05	8.88	6.00	3.24
MIN	1.05	1.28	.98	---	---	4.12	4.09	13.95	8.44	3.88	2.16	1.71

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 mi northwest of Blairsville, and 1.6 mi southeast of Wadesville.
DRAINAGE AREA.--104 mi².
PERIOD OF RECORD.--July 1965 to current year.
GAGE.--Water-stage recorder. Datum of gage is 370.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.17	.13	9.0	e28	22	589	1130	19	11	3.2	.32
2	.09	.21	.13	13	e22	22	187	245	151	10	1.6	.17
3	.06	.19	.13	e12	e18	17	118	210	55	9.9	1.2	.60
4	.06	.18	.13	e10	e16	14	82	138	29	8.9	.79	4.6
5	.06	.21	.12	e9.1	e15	19	63	139	21	8.0	.58	1.2
6	.11	.21	.12	e8.2	e20	128	58	240	1900	7.4	.46	.69
7	.13	.28	e.09	e7.5	27	74	51	135	3960	7.1	.36	.33
8	.10	.30	e.09	e7.0	30	41	45	3170	637	6.8	.30	.62
9	.08	.30	e.09	e7.3	25	38	38	795	302	6.7	.20	1.2
10	.07	.30	e.08	e7.9	22	26	34	335	1940	6.3	.11	1.5
11	.06	37	e.08	e8.4	21	25	33	2790	682	5.7	.17	.72
12	.06	16	e.10	e9.0	17	27	32	539	170	5.1	.41	.30
13	.06	.41	e.13	e14	16	27	47	171	90	4.7	.32	.08
14	.08	.19	.20	e21	19	25	54	114	65	40	.31	.01
15	.13	.16	4.2	e40	19	60	42	161	52	155	.30	.01
16	.12	.15	62	64	17	114	40	98	43	16	.21	191
17	.13	.13	4.8	243	16	443	34	72	37	8.7	.24	50
18	.11	.13	7.2	175	16	145	33	53	33	5.7	.16	6.3
19	.10	.13	312	347	e15	103	32	41	30	5.7	.25	2.4
20	.13	.13	108	69	17	111	384	34	e39	172	.36	1.1
21	.13	.13	28	47	17	218	118	27	25	19	.19	4.8
22	.13	.13	19	40	17	285	162	23	22	9.6	.09	29
23	.13	.13	15	360	19	393	1560	21	20	6.7	.02	7.1
24	.14	.13	e11	734	17	833	367	19	18	5.2	.00	2.6
25	.13	.14	e9.8	142	14	909	171	16	16	4.3	.00	1.2
26	.10	.17	e8.6	150	16	218	186	28	14	3.4	2.4	.85
27	.13	.17	e7.6	292	19	131	106	75	13	2.3	6.0	86
28	.13	.13	e7.0	93	33	125	2280	76	12	1.7	3.5	187
29	.13	.13	e6.4	73	23	197	9400	72	12	1.3	2.3	17
30	.13	.13	e6.0	e50	---	138	4700	29	11	1.4	1.1	5.9
31	.15	---	e6.6	e37	---	179	---	22	---	5.2	.59	---
TOTAL	3.27	58.17	624.82	3099.4	571	5107	21046	11018	10418	560.8	27.72	604.60
MEAN	.11	1.94	20.2	100	19.7	165	702	355	347	18.1	.89	20.2
MAX	.15	37	312	734	33	909	9400	3170	3960	172	6.0	191
MIN	.06	.13	.08	7.0	14	14	32	16	11	1.3	.00	.01
CFSM	.00	.02	.19	.96	.19	1.58	6.75	3.42	3.34	.17	.01	.19
IN.	.00	.02	.22	1.11	.20	1.83	7.53	3.94	3.73	.20	.01	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

MEAN	19.9	86.3	134	141	191	217	207	160	82.3	69.0	43.9	28.5
MAX	131	513	710	559	727	581	702	742	347	264	341	233
(WY)	1978	1986	1983	1982	1990	1975	1996	1990	1996	1992	1977	1982
MIN	.019	.96	.30	.13	9.15	14.3	8.73	2.98	.62	.33	.18	.000
(WY)	1969	1966	1966	1977	1992	1981	1981	1988	1988	1994	1988	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	35611.03		53138.78			
ANNUAL MEAN	97.6		145		115	
HIGHEST ANNUAL MEAN					205	1983
LOWEST ANNUAL MEAN					38.7	1987
HIGHEST DAILY MEAN	4150	May 18	9400	Apr 29	9400	Apr 29 1996
LOWEST DAILY MEAN	.06	Oct 3	.00	Aug 24	.00	Jul 22 1966
ANNUAL SEVEN-DAY MINIMUM	.07	Oct 8	.07	Oct 8	.00	Jul 29 1966
INSTANTANEOUS PEAK FLOW			10400	Apr 29	10400	Apr 29 1996
INSTANTANEOUS PEAK STAGE			20.35	Apr 29	20.35	Apr 29 1996
ANNUAL RUNOFF (CFSM)	.94		1.40		1.10	
ANNUAL RUNOFF (INCHES)	12.74		19.01		14.99	
10 PERCENT EXCEEDS	161		193		208	
50 PERCENT EXCEEDS	15		14		16	
90 PERCENT EXCEEDS	.13		.13		.20	

e Estimated

04092677 GRAND CALUMET RIVER AND INDUSTRIAL HWY AT GARY, IN

LOCATION.--Lat 41°36'29", long 87°23'39",in NW¼NW¼ sec.6, T.37 N., R.8W., Lake County, Hydrologic Unit 04040001, on left bank, 30 feet upstream of U.S. 12 (Industrial Highway), 100 feet streamward of the centerline of Interstate 90, 2,000 feet downstream of Norfolk and Western railroad bridge, 6,000 feet southeast of Gary Airport terminal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1991 to September 1994, (gage heights only), October 1994 to current year.

GAGE.--Water-stage recorder and Acoustic Velocity Meter. Datum of gage is 580.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Discharge is primarily from Industrial and city effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	482	452	432	411	424	411	414	382	491	475	514	481
2	479	478	438	404	431	412	420	375	513	470	516	476
3	487	437	434	419	436	415	396	382	496	468	506	483
4	477	449	436	420	443	411	381	373	482	473	499	486
5	463	436	431	413	434	436	383	366	487	484	503	471
6	478	442	431	421	433	402	402	369	504	464	501	488
7	467	448	433	421	424	401	401	374	498	474	501	512
8	467	454	434	428	433	404	396	347	494	463	518	504
9	448	449	442	424	413	411	393	426	510	468	499	483
10	453	485	427	425	435	410	391	414	509	465	502	504
11	463	480	429	410	409	376	322	375	509	478	506	510
12	450	465	414	410	410	355	376	364	499	464	507	439
13	474	437	419	422	410	344	366	374	500	461	502	469
14	474	435	407	416	402	347	362	370	504	465	511	468
15	466	402	408	415	404	388	395	358	491	460	499	462
16	475	397	416	428	412	416	367	357	503	462	505	446
17	479	418	391	436	410	419	342	362	548	522	504	459
18	483	424	415	455	409	414	372	370	523	598	506	466
19	469	423	416	444	379	402	393	362	494	503	481	472
20	515	421	430	434	409	387	393	391	510	512	480	479
21	475	419	432	430	407	416	379	430	504	537	487	478
22	471	413	423	433	407	413	428	420	472	506	475	478
23	455	427	427	427	406	420	415	403	464	496	461	483
24	444	440	428	437	418	412	391	411	493	501	474	481
25	435	447	414	436	415	430	371	438	488	501	481	489
26	433	431	411	431	409	417	327	421	484	512	465	523
27	478	420	427	444	477	413	305	469	482	497	473	502
28	455	444	429	440	435	412	342	488	484	516	488	499
29	445	436	427	442	416	410	402	466	480	526	464	491
30	448	443	437	433	---	407	398	473	470	553	476	492
31	461	---	427	428	---	417	---	488	---	520	488	---
TOTAL	14449	13152	13165	13237	12150	12528	11423	12398	14886	15294	15292	14474
MEAN	466	438	425	427	419	404	381	400	496	493	493	482
MAX	515	485	442	455	477	436	428	488	548	598	518	523
MIN	433	397	391	404	379	344	305	347	464	460	461	439

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	460	456	440	437	434	437	432	430	478	464	481	480
MAX	466	473	455	448	450	470	483	460	496	493	493	482
(WY)	1996	1995	1995	1995	1995	1995	1995	1995	1996	1996	1996	1996
MIN	454	438	425	427	419	404	381	400	459	434	469	478
(WY)	1995	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1995 - 1996	
ANNUAL TOTAL	166669		162448			
ANNUAL MEAN	457		444		452	
HIGHEST ANNUAL MEAN					461	1995
LOWEST ANNUAL MEAN					444	1996
HIGHEST DAILY MEAN	539	Aug 3	598	Jul 18	598	Jul 18 1996
LOWEST DAILY MEAN	391	Dec 17	305	Apr 27	305	Apr 27 1996
ANNUAL SEVEN-DAY MINIMUM	410	Dec 12	361	Apr 25	361	Apr 25 1996
INSTANTANEOUS PEAK FLOW			891	Jul 18	891	Jul 18 1996
INSTANTANEOUS PEAK STAGE			3.97	Jul 18	4.81	Jun 13 1994
10 PERCENT EXCEEDS	485		503		498	
50 PERCENT EXCEEDS	455		437		455	
90 PERCENT EXCEEDS	427		386		409	

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN

LOCATION.--Lat 41°39'27", long 87°27'21", in NE¼SE¼ sec.16, T.37N., R.9W., Lake County, Hydrologic Unit 04040001, on right bank 1200 ft downstream (northeast) of Dickey Road bridge, 1.2 miles upstream (southwest) of mouth at Indiana Harbor, 1.3 miles east of Indianapolis Boulevard, 1 mile north of East Chicago, IN.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder, Acoustic Velocity Meter. Datum of gage is 570.00 ft above sea level.

REMARKS.--Records fair, except for estimated daily discharges and the period Oct. 1-21, 1993, which are poor.

REVISIONS.--The instantaneous peak flow date for the period of record was published erroneously as April 10, 1992. The correct date is April 11, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	619	e540	e660	667	670	721	649	791	601	717	790
2	664	622	536	e620	691	657	649	628	813	589	710	819
3	684	513	580	e660	673	723	614	611	794	726	712	795
4	668	410	627	e680	747	668	595	632	775	774	575	797
5	673	507	e690	e660	678	703	686	537	758	800	e560	756
6	728	634	e670	e680	697	666	671	623	739	765	e540	768
7	679	600	e679	e690	653	740	682	590	799	804	519	823
8	685	550	e650	e700	666	752	674	611	762	695	653	751
9	636	e580	e660	e680	653	693	654	747	812	754	917	724
10	666	e615	e690	e680	693	689	641	672	797	736	798	786
11	666	793	e620	e688	636	646	558	694	833	723	846	781
12	642	369	e685	691	695	643	577	652	759	752	805	633
13	678	654	e680	682	627	616	521	716	606	715	833	810
14	618	704	e700	612	690	619	664	640	592	716	847	720
15	662	e690	e700	727	652	634	596	623	657	708	786	731
16	666	e660	e700	659	746	691	611	617	686	713	766	672
17	670	e640	e600	714	612	709	591	651	716	947	756	738
18	659	e621	e700	767	694	667	629	662	865	1370	779	774
19	577	658	e680	729	624	462	704	668	698	598	826	774
20	591	654	e700	666	604	647	701	656	708	492	758	755
21	594	672	e720	738	718	811	614	690	672	720	1000	727
22	548	641	e680	643	711	750	710	670	721	e880	965	731
23	662	e695	e680	666	672	658	713	694	681	e840	801	718
24	450	e699	e720	742	675	677	628	671	745	801	764	755
25	522	e680	e700	708	616	736	638	683	760	786	774	739
26	504	e700	e640	768	637	704	586	704	661	804	664	839
27	602	e700	e680	675	829	684	530	805	658	823	771	817
28	569	e695	e700	715	768	647	573	947	648	736	776	792
29	551	e700	e700	675	722	671	707	875	636	626	741	706
30	577	e640	e705	683	---	657	677	838	565	927	792	738
31	626	---	e700	687	---	698	---	791	---	665	790	---
TOTAL	19371	18915	20712	21345	19746	20988	19115	21247	21707	23586	23541	22759
MEAN	625	630	668	689	681	677	637	685	724	761	759	759
MAX	728	793	720	768	829	811	721	947	865	1370	1000	839
MIN	450	369	536	612	604	462	521	537	565	492	519	633

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	648	667	667	680	656	666	664	656	682	664	725	728
MAX	672	704	668	689	681	677	690	685	724	761	759	759
(WY)	1995	1995	1996	1996	1996	1996	1995	1996	1996	1996	1996	1996
MIN	625	630	665	671	631	654	637	628	641	566	691	697
(WY)	1996	1996	1995	1995	1995	1995	1996	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	237025		253032			
ANNUAL MEAN	649		691		675	
HIGHEST ANNUAL MEAN					691	1996
LOWEST ANNUAL MEAN					659	1995
HIGHEST DAILY MEAN	943	Jan 14	1370	Jul 18	1370	Jul 18 1996
LOWEST DAILY MEAN	303	Jul 8	369	Nov 12	-641	Oct 21 1993
ANNUAL SEVEN-DAY MINIMUM	496	Jul 17	539	Oct 24	-180	Oct 15 1993
INSTANTANEOUS PEAK FLOW			2970	Jul 18	8530	Apr 11 1992
INSTANTANEOUS PEAK STAGE			12.23	Sep 12	12.27	Mar 10 1992
10 PERCENT EXCEEDS	737		797		773	
50 PERCENT EXCEEDS	659		684		672	
90 PERCENT EXCEEDS	540		593		554	

e Estimated

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 Ridge Road in Hobart, 300 ft upstream from Duck Creek, and 400 ft downstream from Lake George Dam.
DRAINAGE AREA.--124 mi².
PERIOD OF RECORD.--April 1947 to current year.
REVISED RECORDS.--WSP 1337: 1953. WSP 1507: 1956. WDR IN-72-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 588.17 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft upstream at datum 11.80 ft higher.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow subject to regulation by operation of Lake George Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	61	38	e17	e25	199	48	148	466	52	380	.03
2	6.7	93	35	23	e22	157	52	121	426	44	214	.04
3	11	118	36	22	e20	150	48	100	474	43	134	.06
4	13	80	32	21	e18	56	42	91	399	41	94	.04
5	14	52	35	e19	e17	5.1	43	87	309	35	74	.16
6	16	40	33	e18	e16	49	41	85	247	29	63	.40
7	16	31	30	e17	e16	80	39	83	462	25	38	2.0
8	14	28	27	e16	e20	73	38	79	513	23	83	8.9
9	15	25	e25	e16	e30	69	36	166	385	21	129	19
10	14	41	e22	e15	47	62	36	807	379	23	87	22
11	14	300	e20	e15	46	64	38	893	427	27	60	24
12	15	523	e20	e14	43	79	33	719	400	24	46	55
13	15	409	e19	e13	37	98	36	518	300	24	39	63
14	17	231	e21	e13	34	102	36	400	214	22	34	47
15	13	151	e26	e14	33	103	50	304	107	23	28	28
16	12	112	32	e18	32	102	68	231	112	25	24	33
17	16	91	31	49	31	96	66	155	341	42	22	48
18	12	81	30	83	29	87	62	133	1370	923	21	44
19	17	77	e27	141	29	77	56	125	1680	2000	27	38
20	29	80	e25	124	31	70	234	104	1110	1520	25	37
21	38	71	e24	102	34	71	351	143	757	1000	23	39
22	31	63	e22	88	35	64	407	154	499	789	26	47
23	27	56	e21	54	36	61	554	125	320	646	23	52
24	23	51	e20	55	37	60	537	115	228	512	21	56
25	14	45	e19	55	38	68	375	111	132	390	19	55
26	16	42	e18	57	41	56	261	108	118	242	57	86
27	37	41	e17	57	248	54	179	262	107	159	83	91
28	47	45	e16	51	438	53	98	604	86	131	36	75
29	41	45	e15	e45	332	51	134	931	74	86	.07	60
30	29	42	e15	e35	---	50	162	914	60	322	.02	47
31	41	---	e16	e30	---	46	---	694	---	525	.03	---
TOTAL	636.7	3125	767	1297	1815	2412.1	4160	9510	12502	9768	1910.12	1077.63
MEAN	20.5	104	24.7	41.8	62.6	77.8	139	307	417	315	61.6	35.9
MAX	47	523	38	141	438	199	554	931	1680	2000	380	91
MIN	6.7	25	15	13	16	5.1	33	79	60	21	.02	.03
CFSM	.17	.84	.20	.34	.50	.63	1.12	2.47	3.36	2.54	.50	.29
IN.	.19	.94	.23	.39	.54	.72	1.25	2.85	3.75	2.93	.57	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

MEAN	58.6	96.5	112	114	142	216	215	150	112	64.1	47.3	49.8
MAX	433	499	393	475	415	688	477	454	557	315	427	312
(WY)	1955	1986	1983	1993	1959	1979	1950	1970	1993	1996	1990	1993
MIN	6.42	10.7	12.5	10.8	14.7	38.3	23.1	21.8	16.4	10.7	8.81	6.91
(WY)	1957	1957	1963	1977	1964	1957	1963	1958	1988	1988	1964	1948

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1948 - 1996	
ANNUAL TOTAL	33075.7		48980.55			
ANNUAL MEAN	90.6		134		115	
HIGHEST ANNUAL MEAN					234	1993
LOWEST ANNUAL MEAN					35.3	1963
HIGHEST DAILY MEAN	1180	Apr 12	2000	Jul 19	3900	Nov 28 1990
LOWEST DAILY MEAN	6.7	Oct 2	.02	Aug 30	.00	Nov 5 1978
ANNUAL SEVEN-DAY MINIMUM	12	Sep 27	.04	Aug 29	.04	Aug 29 1996
INSTANTANEOUS PEAK FLOW			2080	Jul 19	4230	Nov 28 1990
INSTANTANEOUS PEAK STAGE			13.32	Jul 19	19.48	Oct 11 1954
ANNUAL RUNOFF (CFSM)	.73		1.08		.92	
ANNUAL RUNOFF (INCHES)	9.92		14.69		12.56	
10 PERCENT EXCEEDS	166		393		270	
50 PERCENT EXCEEDS	47		47		48	
90 PERCENT EXCEEDS	16		16		13	

e Estimated

04093200 LITTLE CALUMET RIVER AT GARY, IN

LOCATION.--Lat 41°34'19", long 87°19'13", in NE¼SE¼ sec.15, T.36 N., R.8 W., Lake County, Hydrologic Unit 04040001, on right bank 100 ft upstream of Conrail Railroad bridge, 800 ft upstream of Martin Luther King Avenue bridge at Gary, 1.3 mi downstream of highway 53, and 1.5 mi upstream from confluence with Deep River.

DRAINAGE AREA.--5.82 mi², approximately.

PERIOD OF RECORD.--June 1958 to September 1967, October 1968 to September 30, 1971 (discharge), December, 1984 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above sea level.

REMARKS.--Stage affected by backwater from Deep River during times of flood. Minimum gage height for the period of record may have been lower prior to December 13, 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.31 ft, Nov. 30, 1990; minimum gage height, 5.27 ft, Aug. 7, 8, 1991. Minimum gage height was not published prior to December 13, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Flood in October 1954 reached a stage of 13.09 ft, from flood mark.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.43 ft, July 21; minimum gage height, 8.53 ft, July 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.96	9.69	9.17	8.90	8.92	9.53	9.09	9.16	9.75	8.83	9.48	8.63
2	8.94	9.75	9.14	8.91	8.90	9.46	9.09	9.10	9.71	8.78	9.43	8.63
3	8.96	9.78	9.13	8.91	8.81	9.32	9.13	9.05	9.67	8.74	9.36	8.63
4	8.99	9.78	9.11	8.88	8.72	9.26	9.08	9.00	9.64	8.72	9.31	8.60
5	9.00	9.73	9.10	8.88	8.71	9.27	9.06	8.94	9.58	8.69	9.19	8.59
6	9.11	9.68	9.09	8.88	8.71	9.16	9.03	8.92	9.52	8.65	9.10	8.56
7	9.18	9.62	9.04	8.86	8.79	9.22	9.01	8.90	9.50	8.63	9.04	8.54
8	9.19	9.57	9.02	8.86	8.92	9.20	8.87	8.89	9.47	8.62	9.05	8.55
9	9.19	9.50	8.99	8.85	8.95	9.16	8.76	9.27	9.46	8.61	8.99	8.58
10	9.19	9.50	8.96	8.84	9.01	9.11	8.74	9.60	9.45	8.60	8.91	8.57
11	9.19	9.78	8.96	8.84	9.02	9.11	8.72	9.82	9.47	8.60	8.85	8.64
12	9.19	9.90	8.98	8.85	9.02	9.14	8.69	9.83	9.47	8.60	8.80	8.73
13	9.19	9.95	8.95	8.85	8.99	9.25	8.69	9.79	9.43	8.59	8.78	8.75
14	9.19	9.95	8.99	8.85	8.96	9.30	8.69	9.72	9.38	8.59	8.77	8.73
15	9.20	9.90	9.00	8.86	8.94	9.32	8.77	9.65	9.30	8.57	8.78	8.68
16	9.20	9.82	9.00	8.87	8.92	9.31	8.83	9.57	9.27	8.55	8.76	8.64
17	9.20	9.74	9.00	9.02	8.90	9.29	8.82	9.50	9.38	8.84	8.75	8.60
18	9.20	9.67	9.00	9.18	8.88	9.25	8.81	9.45	9.57	9.46	8.75	8.57
19	9.23	9.60	8.99	9.24	8.89	9.21	8.87	9.38	10.45	10.51	8.75	8.57
20	9.41	9.56	8.98	9.33	8.92	9.16	9.12	9.40	10.34	11.40	8.74	8.56
21	9.53	9.51	8.96	9.34	8.92	9.13	9.25	9.41	9.71	11.16	8.75	8.56
22	9.54	9.44	8.94	9.30	8.91	9.11	9.40	9.40	9.52	10.46	8.80	8.56
23	9.53	9.36	8.93	9.29	8.89	9.08	9.47	9.37	9.44	9.96	8.80	8.56
24	9.50	9.30	8.93	9.25	8.92	9.07	9.50	9.34	9.37	9.80	8.76	8.57
25	9.47	9.24	8.93	9.15	8.92	9.16	9.47	9.28	9.30	9.70	8.73	8.57
26	9.45	9.20	8.90	9.17	8.92	9.21	9.40	9.27	9.22	9.59	8.71	8.74
27	9.54	9.19	8.90	9.06	9.35	9.20	9.33	9.35	---	9.50	8.69	8.84
28	9.61	9.22	8.89	9.08	9.55	9.17	9.25	9.54	9.04	9.42	8.68	8.80
29	9.61	9.20	8.88	9.05	9.58	9.14	9.20	9.71	8.97	9.38	8.66	8.74
30	9.61	9.18	8.88	9.01	---	9.10	9.19	9.79	8.89	9.45	8.66	8.67
31	9.67	---	8.88	8.95	---	9.09	---	9.80	---	9.49	8.65	---
MEAN	9.29	9.58	8.99	9.01	8.96	9.21	9.04	9.39	---	9.24	8.89	8.63
MAX	9.67	9.95	9.17	9.34	9.58	9.53	9.50	9.83	---	11.40	9.48	8.84
MIN	8.94	9.18	8.88	8.84	8.71	9.07	8.69	8.89	---	8.55	8.65	8.54

CAL YR 1995 MEAN 9.26 MAX 10.28 MIN 8.69

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 upstream from bridge on U.S. Highway 20, 0.8 mi northwest of Porter, and 4.5 mi upstream from Salt Creek.
DRAINAGE AREA.--66.2 mi².
PERIOD OF RECORD.--May 1945 to current year.
REVISED RECORDS.--WSP 1084: 1945. WSP 1337: 1946-47. WDR IN-72-1: Drainage area. WDR IN-83-1: 1982.
GAGE.--Water-stage recorder. Datum of gage is 603.48 ft above sea level. Prior to June 26, 1952, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	76	56	e38	e44	124	60	81	119	48	75	31
2	24	104	54	e47	e42	99	56	70	198	46	58	30
3	24	110	52	43	e39	73	57	64	203	44	52	30
4	26	71	62	e40	e38	74	56	64	134	43	45	32
5	26	53	62	e37	e36	83	53	62	111	43	41	31
6	28	47	54	e36	e34	90	67	64	112	41	39	30
7	30	45	49	e34	e33	71	58	60	148	40	38	30
8	29	42	e45	e33	e32	e67	53	58	123	39	156	31
9	27	40	e43	e32	e58	e62	50	238	109	38	237	31
10	26	54	e41	e31	e63	e58	48	2540	139	42	97	32
11	27	264	e38	e30	67	e84	47	1180	190	39	64	34
12	27	418	e37	e29	51	e100	50	499	208	37	53	38
13	26	216	e36	e28	45	e130	62	341	143	37	47	96
14	28	128	e46	e27	44	e160	56	246	101	36	43	168
15	30	101	e65	e35	43	e150	60	204	82	37	42	111
16	29	90	60	e42	42	e130	77	177	76	36	40	67
17	28	80	56	57	41	e120	70	156	96	51	40	50
18	28	77	e52	118	40	e110	61	134	589	420	38	48
19	28	81	e49	185	41	e95	89	112	602	748	40	42
20	37	75	e46	149	43	e76	218	105	260	260	37	37
21	46	74	e43	88	46	e74	223	218	159	128	39	36
22	36	64	e41	65	45	e72	210	192	116	103	42	38
23	33	61	e39	61	48	e68	291	130	92	81	38	34
24	30	60	e37	65	54	e65	183	115	93	70	36	35
25	31	58	e35	49	53	e80	128	108	92	70	34	35
26	32	56	e33	60	58	e130	107	97	75	56	33	46
27	48	57	e32	63	184	e97	89	144	67	48	32	117
28	54	61	e31	52	396	e72	77	267	60	45	33	89
29	52	58	e30	e60	215	e56	84	386	54	57	34	62
30	46	55	e29	e51	---	58	95	309	51	113	33	48
31	52	---	e28	e47	---	57	---	167	---	124	32	---
TOTAL	1011	2776	1381	1732	1975	2785	2835	8588	4602	3020	1668	1539
MEAN	32.6	92.5	44.5	55.9	68.1	89.8	94.5	277	153	97.4	53.8	51.3
MAX	54	418	65	185	396	160	291	2540	602	748	237	168
MIN	23	40	28	27	32	56	47	58	51	36	32	30
CFSM	.49	1.40	.67	.84	1.03	1.36	1.43	4.18	2.32	1.47	.81	.77
IN.	.57	1.56	.78	.97	1.11	1.56	1.59	4.83	2.59	1.70	.94	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	58.9	77.5	80.8	79.4	93.2	123	119	89.1	74.3	47.5	43.1	44.5
MAX	414	285	186	202	175	319	292	277	272	190	277	143
(WY)	1955	1991	1966	1993	1976	1982	1947	1996	1993	1981	1990	1972
MIN	22.3	27.4	24.5	27.0	30.9	52.9	44.6	33.5	25.6	22.2	23.1	21.4
(WY)	1964	1954	1964	1977	1964	1964	1963	1958	1965	1988	1964	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	27568		33912			
ANNUAL MEAN	75.5		92.7		77.3	
HIGHEST ANNUAL MEAN					124	1991
LOWEST ANNUAL MEAN					36.5	1964
HIGHEST DAILY MEAN	590	Jan 15	2540	May 10	3040	Nov 28 1990
LOWEST DAILY MEAN	23	Oct 1	23	Oct 1	17	Aug 24 1965
ANNUAL SEVEN-DAY MINIMUM	24	Sep 27	26	Oct 1	19	Aug 20 1965
INSTANTANEOUS PEAK FLOW			3400	May 10	3880	Nov 28 1990
INSTANTANEOUS PEAK STAGE			10.63	May 10	11.66	Oct 10 1954
ANNUAL RUNOFF (CFSM)	1.14		1.40		1.17	
ANNUAL RUNOFF (INCHES)	15.49		19.06		15.87	
10 PERCENT EXCEEDS	139		171		142	
50 PERCENT EXCEEDS	55		56		49	
90 PERCENT EXCEEDS	29		31		28	

e Estimated

04095090 BURNS DITCH AT PORTAGE, IN

LOCATION.--Lat 41°37'53", long 86°10'35", in SE¼NW¼ sec. 25, T.37N., R.7W., Porter County, Hydrologic Unit 04040001, 4,700 ft north of U.S. 12 bridge over Burns Ditch 400 feet south of mouth, 4,000 feet west of Burns Waterway Harbor west shore, and 400 feet east of an industrial access road at an industrial footbridge over Burn's Ditch.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--February 2, 1995 to current year.

GAGE.--Water-stage recorder and Acoustic Velocity Meter. Datum of gage is 575 ft above sea level from topographic map.

REMARKS.--Records are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	159	e320	e220	142	e800	e219	696	e600	e320	e400	426
2	96	206	e310	e235	146	e450	e216	622	e1000	e270	e320	425
3	104	220	e310	e200	147	e310	e212	e560	e860	e250	e280	420
4	108	181	e370	e190	154	e330	e210	e500	e700	e230	e270	358
5	e105	149	e400	e180	135	e350	e210	e490	e580	e220	e260	366
6	e101	149	e370	e170	151	e365	e260	e480	e500	e210	e500	378
7	e98	138	e360	e160	e180	e300	e245	e465	e700	e200	e700	365
8	e96	148	e380	e157	e220	e270	e220	e450	e600	e192	e1200	396
9	91	122	415	e155	e258	e240	e210	e2500	932	e190	e1000	351
10	106	430	378	e160	e240	e220	e210	e8000	865	e210	e740	432
11	94	1570	403	e160	e248	e240	e210	3410	1130	e200	e600	468
12	96	1370	e390	e160	e210	e280	e210	2160	1330	e190	e500	478
13	104	1420	e370	e160	e180	e350	e245	1700	1030	e188	e450	532
14	116	1190	e370	e160	e170	e450	e230	1500	724	e180	e420	342
15	96	866	e470	e160	e165	e420	e250	1280	e480	e183	e400	310
16	83	619	e450	e200	e165	e400	e300	1020	e520	e185	e370	230
17	84	511	e430	e300	e165	e360	e260	902	868	e600	e350	263
18	94	526	e420	e450	e170	e330	e250	728	2240	e3000	e340	238
19	90	596	e400	e680	e175	e300	584	618	3290	2750	e380	221
20	135	475	400	e500	e180	e290	868	611	2350	2500	e360	188
21	122	509	387	e350	e186	e270	1050	897	1760	1550	432	196
22	89	545	337	e270	e192	e260	1230	748	1290	969	418	198
23	92	441	429	e210	e200	e250	1510	710	934	1080	549	241
24	116	431	345	e250	e205	e250	1210	689	833	e900	446	220
25	108	e410	258	e220	e200	e300	1100	778	626	e400	366	181
26	88	e400	292	e195	e220	e340	913	757	e520	e300	328	218
27	114	e380	e270	e220	e400	e300	771	1030	e470	e250	360	302
28	145	e400	e260	171	e1200	e260	e600	1500	e420	e230	390	260
29	139	e370	e240	209	e1000	e222	e800	1950	e390	e400	419	298
30	152	e330	e235	152	---	e220	930	e1200	e350	e680	416	275
31	152	---	e210	162	---	e220	---	e900	---	e730	401	---
TOTAL	3314	15261	10979	7166	7404	9947	15733	39851	28892	19757	14365	9576
MEAN	107	509	354	231	255	321	524	1286	963	637	463	319
MAX	152	1570	470	680	1200	800	1510	8000	3290	3000	1200	532
MIN	83	122	210	152	135	220	210	450	350	180	260	181

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	238	510	424	377	308	454	702	975	740	541	484	359
MAX	368	512	494	523	362	586	880	1286	963	637	505	398
(WY)	1995	1995	1995	1995	1995	1995	1995	1996	1996	1996	1995	1995
MIN	107	509	354	231	255	321	524	664	517	444	463	319
(WY)	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1996	1996

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1995 - 1996	
ANNUAL TOTAL	177941		182245			
ANNUAL MEAN	488		498		510	
HIGHEST ANNUAL MEAN					522	1995
LOWEST ANNUAL MEAN					498	1996
HIGHEST DAILY MEAN	2630	Apr 12	e8000	May 10	e8000	May 10 1996
LOWEST DAILY MEAN	83	Oct 16	83	Oct 16	83	Oct 16 1995
ANNUAL SEVEN-DAY MINIMUM	95	Oct 13	95	Oct 13	95	Oct 13 1995
INSTANTANEOUS PEAK FLOW			Unknown			
INSTANTANEOUS PEAK STAGE			Unknown			
10 PERCENT EXCEEDS	735		1010		838	
50 PERCENT EXCEEDS	440		333		425	
90 PERCENT EXCEEDS	156		149		188	

e Estimated

04095380 TRAIL CREEK AT MICHIGAN CITY HARBOR, IN

LOCATION.--Lat 41°43'22", long 86°54'15", sec. 29, T.38 N., R.4 W., LaPorte County, Hydrologic Unit 04040001, 1/2 mi southwest of Washington Park, 2,600 ft southeast of lake end of west breakwater, 2000 ft north of Michigan Street, 3000 ft downstream of U.S, Hwy 12 bridge.

DRAINAGE AREA.--59.1 mi^2.

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder and Acoustic Velocity Meter. Datum of gage is 575 ft above sea level from topographic map.

REMARKS.--Records not published for the 1996 water year due to possible inaccuracies in the stream velocity versus records velocity correlation. Record may be published in the 1997 annual report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

(DATA NOT PUBLISHED)

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 mi upstream from Indiana-Michigan State line, and 9.8 mi north of Courthouse in LaPorte.
DRAINAGE AREA.--17.2 mi², of which 2.30 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1969 to current year.
REVISED RECORDS.--WDR IN-80-1: 1970, 1971(P), 1972, 1973, 1974(P), 1975 (M), 1976 (P), and 1978 (P).
GAGE.--Water-stage recorder. Datum of gage is 625.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height may have occurred Nov. 28, 1990 during period of no gage height record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	32	27	e20	e16	33	24	27	27	15	25	13
2	9.8	61	25	e18	e16	30	22	24	80	15	21	13
3	12	49	24	e17	e15	28	21	22	42	14	19	13
4	12	33	23	e17	e15	25	20	24	32	14	18	13
5	14	26	24	e16	e14	34	19	23	28	13	16	13
6	13	23	22	e15	e13	31	19	22	49	13	16	12
7	13	21	21	e14	e13	e26	18	21	43	13	22	13
8	13	20	20	e14	e15	e23	18	21	34	12	203	14
9	13	19	e19	e14	e19	e21	18	115	74	12	114	15
10	12	28	e19	e13	27	e23	18	502	301	12	42	15
11	12	152	e18	e13	28	27	17	218	144	11	28	e16
12	12	90	e18	e12	24	36	20	96	83	11	25	e18
13	11	51	e20	e12	22	41	24	61	47	11	22	26
14	11	42	e24	e13	e21	39	20	48	36	11	21	35
15	12	43	30	e15	e20	36	27	51	30	12	24	27
16	11	34	27	e17	e19	31	30	45	26	11	21	22
17	11	32	24	31	e18	27	25	52	30	12	19	20
18	11	32	23	55	e17	26	22	41	273	404	18	18
19	12	32	23	e45	e18	25	31	41	81	187	17	17
20	25	29	22	e34	24	24	97	34	45	64	16	16
21	26	28	21	e25	26	22	44	87	34	40	16	17
22	20	27	e20	e21	25	22	77	42	30	35	17	18
23	18	26	e20	e19	26	22	53	33	25	28	23	17
24	15	25	e19	e17	26	23	36	35	29	26	18	18
25	14	26	e18	e16	25	26	32	34	25	32	16	17
26	15	26	e18	e17	26	22	31	28	22	24	15	22
27	30	31	e17	e19	140	20	28	46	20	20	15	36
28	e24	31	e16	e18	97	21	26	52	18	20	15	29
29	e21	28	e15	e18	42	21	34	107	17	33	14	23
30	e23	27	e15	e17	---	20	31	46	16	50	14	21
31	e25	---	e17	e17	---	24	---	33	---	33	13	---
TOTAL	480.7	1124	649	609	807	829	902	2031	1741	1208	883	567
MEAN	15.5	37.5	20.9	19.6	27.8	26.7	30.1	65.5	58.0	39.0	28.5	18.9
MAX	30	152	30	55	140	41	97	502	301	404	203	36
MIN	9.8	19	15	12	13	20	17	21	16	11	13	12
CFSM	.90	2.18	1.22	1.14	1.62	1.55	1.75	3.81	3.37	2.27	1.66	1.10
IN.	1.04	2.43	1.40	1.32	1.75	1.79	1.95	4.39	3.77	2.61	1.91	1.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	22.8	30.9	30.8	26.6	30.3	37.7	34.4	28.0	24.7	17.3	16.0	17.1
MAX	43.8	64.4	51.8	46.6	51.6	70.1	56.0	65.5	69.7	39.0	28.5	32.6
(WY)	1991	1991	1973	1993	1985	1982	1970	1996	1993	1996	1996	1993
MIN	14.8	16.8	15.6	15.0	19.2	19.4	18.2	15.5	12.3	10.3	9.71	10.4
(WY)	1990	1981	1990	1976	1980	1981	1971	1992	1971	1988	1970	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	8911.3		11830.7			
ANNUAL MEAN	24.4		32.3		26.4	
HIGHEST ANNUAL MEAN					35.4	1993
LOWEST ANNUAL MEAN					21.0	1977
HIGHEST DAILY MEAN	152	Nov 11	502	May 10	650	Nov 28 1990
LOWEST DAILY MEAN	9.8	Sep 29	9.8	Oct 2	6.7	Sep 13 1973
ANNUAL SEVEN-DAY MINIMUM	10	Sep 26	11	Oct 12	7.6	Aug 27 1970
INSTANTANEOUS PEAK FLOW			874	May 10	900	Nov 28 1990
INSTANTANEOUS PEAK STAGE			7.00	May 10	7.04	Jun 8 1993
ANNUAL RUNOFF (CFSM)	1.42		1.88		1.53	
ANNUAL RUNOFF (INCHES)	19.27		25.59		20.82	
10 PERCENT EXCEEDS	37		47		42	
50 PERCENT EXCEEDS	21		22		21	
90 PERCENT EXCEEDS	13		13		12	

e Estimated

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 upstream from bridge on U.S. Highway 20, 1.3 mi downstream from outlet of Hogback Lake, 1.3 mi southeast of Flint, and 5.8 mi west of Angola.
DRAINAGE AREA.--106 mi², of which 22.5 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint". Published as Pigeon Creek 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. WDR IN 92-1: 1991.
GAGE.--Water-stage recorder. Datum of gage is 940.00 ft above sea level. Prior to October 1947, nonrecording gage at site 0.3 mi downstream at different datum. Oct. 1947 to Aug. 3, 1953, nonrecording gage at site 1.2 mi upstream at same datum. Aug. 4, 1953, to Apr. 3, 1974, recording gage at site 1.3 mi upstream at same datum. Apr. 18, 1974, to Sept. 2, 1974, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	44	71	38	65	206	89	193	218	189	75	63
2	24	57	69	37	59	199	85	189	199	166	75	57
3	25	126	66	e36	54	173	81	180	179	147	72	52
4	26	204	63	e36	49	147	78	167	166	133	67	49
5	28	242	61	e35	45	128	74	154	155	120	62	46
6	30	229	58	e34	43	120	72	141	151	110	58	44
7	30	197	56	34	41	113	68	129	167	102	54	43
8	30	166	54	34	43	102	65	120	185	96	51	41
9	30	140	53	34	51	91	62	115	201	90	48	42
10	30	117	51	33	66	82	59	166	254	84	47	40
11	29	113	48	33	76	75	57	245	331	80	46	40
12	29	137	47	33	79	69	56	328	380	76	45	40
13	28	167	46	33	76	66	57	380	386	73	45	39
14	28	181	46	33	68	64	57	380	356	72	44	37
15	27	176	46	32	63	64	60	346	307	71	44	36
16	26	160	49	32	57	67	64	308	258	70	44	36
17	26	143	51	35	52	69	69	467	229	68	44	35
18	25	128	52	52	49	68	72	775	350	69	43	34
19	24	118	52	89	46	67	73	933	573	67	42	33
20	26	113	51	130	45	73	87	984	701	65	50	32
21	27	110	49	146	44	73	114	996	761	63	100	33
22	27	110	48	141	44	73	165	950	770	61	178	34
23	27	108	46	126	44	73	252	862	732	59	230	35
24	26	103	45	119	44	75	322	750	655	57	226	34
25	26	96	43	121	45	86	350	634	562	56	191	33
26	25	90	42	119	48	103	338	527	467	53	156	33
27	29	85	41	112	59	115	300	443	383	51	128	36
28	32	81	40	102	106	114	258	380	315	50	106	39
29	35	77	40	91	171	108	226	329	262	53	90	41
30	37	74	39	81	---	101	203	285	221	59	78	41
31	40	---	38	73	---	94	---	249	---	68	70	---
TOTAL	877	3892	1561	2084	1732	3058	3913	13105	10874	2578	2609	1198
MEAN	28.3	130	50.4	67.2	59.7	98.6	130	423	362	83.2	84.2	39.9
MAX	40	242	71	146	171	206	350	996	770	189	230	63
MIN	24	44	38	32	41	64	56	115	151	50	42	32
CFSM	.27	1.22	.48	.63	.56	.93	1.23	3.99	3.42	.78	.79	.38
IN.	.31	1.37	.55	.73	.61	1.07	1.37	4.60	3.82	.90	.92	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	34.3	54.1	75.2	92.0	105	158	164	116	80.1	50.2	36.8	31.5
MAX	154	195	195	385	257	437	491	423	362	164	126	119
(WY)	1955	1993	1968	1993	1959	1982	1950	1996	1996	1981	1981	1981
MIN	4.12	4.51	7.20	7.95	8.55	20.4	48.1	29.8	21.6	10.8	8.12	5.83
(WY)	1965	1965	1964	1964	1963	1964	1946	1963	1988	1963	1964	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	28301		47481			
ANNUAL MEAN	77.5		130		82.9	
HIGHEST ANNUAL MEAN					151	1950
LOWEST ANNUAL MEAN					19.5	1964
HIGHEST DAILY MEAN	311	Apr 13	996	May 21	996	May 21 1996
LOWEST DAILY MEAN	24	Oct 2	24	Oct 2	3.4	Oct 25 1964
ANNUAL SEVEN-DAY MINIMUM	25	Sep 27	26	Oct 15	3.5	Oct 22 1964
INSTANTANEOUS PEAK FLOW			1000	May 21	1000	May 21 1996
INSTANTANEOUS PEAK STAGE			10.92	May 21	13.90	Mar 22 1982
ANNUAL RUNOFF (CFSM)	.73		1.22		.78	
ANNUAL RUNOFF (INCHES)	9.93		16.66		10.62	
10 PERCENT EXCEEDS	160		307		187	
50 PERCENT EXCEEDS	58		69		54	
90 PERCENT EXCEEDS	29		33		16	

e Estimated

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 downstream from bridge on County Road 750 North, 1,200 ft downstream from Page Ditch, 0.7 mi south of Indiana-Michigan State line, and 1.2 mi northwest of Scott.
DRAINAGE AREA.--361 mi² of which 53.9 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--June 1968 to current year.
REVISED RECORDS.--WSP 2111: Drainage area. WDR IN-92-1: 1991.
GAGE.--Water-stage recorder. Datum of gage is 815.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	188	284	200	e380	402	291	644	718	697	289	251
2	128	220	275	196	e370	432	283	579	693	623	289	211
3	125	311	269	e190	e365	414	277	543	672	551	282	218
4	139	313	251	e185	e358	435	276	525	592	482	269	213
5	146	345	252	e180	e343	398	267	483	565	445	254	199
6	158	391	252	e178	e340	385	259	479	575	417	232	190
7	162	409	243	e175	504	382	254	445	608	392	218	192
8	162	412	e230	e172	487	377	247	429	570	366	221	191
9	159	398	e228	e170	497	333	241	435	567	325	216	190
10	153	369	e226	e168	455	307	236	811	756	315	206	184
11	149	456	e221	e167	421	284	218	1250	864	302	199	189
12	146	514	e219	e166	395	267	230	1180	817	289	192	200
13	145	477	e215	e166	375	262	247	974	787	281	174	191
14	142	450	413	e165	e350	255	242	899	800	293	167	188
15	141	442	370	200	e320	275	248	880	773	302	189	188
16	142	437	324	216	e290	270	269	876	732	299	189	187
17	139	422	282	214	e260	262	272	1030	686	284	181	183
18	136	407	260	273	e230	257	264	1370	873	302	178	175
19	135	394	236	367	e210	256	270	1410	1560	318	183	170
20	142	379	e215	426	263	262	349	1410	1670	296	209	168
21	170	351	e210	444	211	268	385	1490	1460	276	438	183
22	165	349	e202	414	207	265	471	1520	1410	267	623	219
23	160	343	e200	391	206	262	673	1510	1380	252	481	203
24	157	335	e200	399	207	262	716	1470	1360	249	479	189
25	149	325	e199	388	209	272	722	1400	1310	278	482	185
26	147	318	e198	366	213	275	732	1290	1230	262	460	188
27	170	312	e198	362	286	279	745	1180	1120	234	421	203
28	199	327	e198	401	367	311	717	1080	1000	227	372	204
29	191	261	e198	410	380	311	710	988	877	270	325	197
30	195	279	e198	396	---	308	690	895	762	345	273	189
31	186	---	e197	e390	---	300	---	792	---	321	262	---
TOTAL	4774	10934	7463	8535	9499	9628	11801	30267	27787	10560	8953	5838
MEAN	154	364	241	275	328	311	393	976	926	341	289	195
MAX	199	514	413	444	504	435	745	1520	1670	697	623	251
MIN	125	188	197	165	206	255	218	429	565	227	167	168
CFSM	.43	1.01	.67	.76	.91	.86	1.09	2.70	2.57	.94	.80	.54
IN.	.49	1.13	.77	.88	.98	.99	1.22	3.12	2.86	1.09	.92	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

MEAN	224	306	372	393	425	591	596	461	389	267	216	203
MAX	575	684	719	1169	836	1389	1089	976	1103	654	516	538
(WY)	1987	1993	1983	1993	1969	1982	1978	1996	1981	1981	1981	1981
MIN	96.3	96.7	157	173	143	311	324	233	132	104	92.5	85.8
(WY)	1972	1972	1972	1977	1972	1996	1971	1971	1988	1988	1988	1971

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1968 - 1996	
ANNUAL TOTAL	104137		146039			
ANNUAL MEAN	285		399		368	
HIGHEST ANNUAL MEAN					545	1993
LOWEST ANNUAL MEAN					207	1972
HIGHEST DAILY MEAN	698	Apr 14	1670	Jun 20	2340	Mar 21 1982
LOWEST DAILY MEAN	125	Oct 3	125	Oct 3	42	Oct 21 1971
ANNUAL SEVEN-DAY MINIMUM	136	Sep 28	140	Oct 14	69	Aug 27 1971
INSTANTANEOUS PEAK FLOW			1780	Jun 19	2370	Mar 21 1982
INSTANTANEOUS PEAK STAGE			6.91	Jun 19	7.85	Mar 21 1982
ANNUAL RUNOFF (CFSM)	.79		1.11		1.02	
ANNUAL RUNOFF (INCHES)	10.73		15.05		13.87	
10 PERCENT EXCEEDS	450		794		684	
50 PERCENT EXCEEDS	261		282		296	
90 PERCENT EXCEEDS	156		171		146	

e Estimated

04099800 LITTLE ELKHART RIVER AT MIDDLEBURY, IN

LOCATION.--Lat 41°40'31", long 85°42'01", in NE¼SE¼ sec.10, T.37 N., R.7 E., Elkhart County, Hydrologic Unit 04050001, on left bank 15 ft downstream from bridge on County Road 16, 0.1 mi east of Middlebury, and 1.7 mi downstream from Rowe Eden Ditch.
DRAINAGE AREA.--97.6 mi², of which 5.89 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1979 to current year.
REVISED RECORDS.--WDR IN-82-1: 1980, 1981. WDR IN-92-1: 1991.
GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	54	54	46	e49	71	50	101	e90	e108	72	54
2	41	69	53	46	e46	68	50	92	e110	e105	69	55
3	45	80	52	44	e44	60	50	88	e104	99	67	55
4	45	67	51	e43	e43	61	50	86	e94	95	65	54
5	45	60	51	e42	e43	69	49	84	e86	91	62	52
6	46	57	50	e41	e43	69	49	83	e170	88	56	52
7	45	54	49	e41	48	61	48	80	e150	86	53	64
8	44	52	e45	41	93	58	48	e78	e120	81	56	65
9	44	51	e43	43	92	56	47	e150	e160	74	54	60
10	43	54	e43	43	77	56	46	e1700	e1200	75	52	58
11	42	110	e43	43	70	57	46	e1400	e640	73	54	61
12	42	109	e43	43	61	61	47	e700	e350	71	56	60
13	41	90	49	43	58	60	48	e350	e160	69	52	58
14	42	82	55	43	56	60	47	e150	e150	70	50	58
15	42	76	58	43	53	60	52	e160	e140	72	53	59
16	41	72	54	42	52	58	56	e180	e130	73	52	58
17	41	68	52	76	51	57	53	e580	e115	71	50	57
18	40	67	51	92	50	56	50	e350	e540	83	51	55
19	40	66	50	111	50	55	53	e220	e330	82	58	55
20	46	65	48	83	50	58	97	e140	e180	74	63	54
21	46	64	48	70	49	56	78	e170	e170	71	157	65
22	44	62	47	65	49	54	289	e160	e160	69	106	68
23	43	60	47	64	49	53	246	e150	e145	65	92	62
24	43	58	47	88	50	52	143	e130	e132	64	85	59
25	43	57	47	70	50	55	120	e120	e129	67	76	58
26	42	57	47	65	52	53	111	e105	e125	63	72	61
27	53	57	47	64	88	52	100	e110	e120	63	69	66
28	53	56	46	59	98	52	94	e120	e117	65	66	63
29	49	55	46	57	79	53	114	e128	e112	75	62	60
30	47	54	46	53	---	52	113	e115	e110	78	58	59
31	53	---	46	e50	---	51	---	e100	---	76	56	---
TOTAL	1372	1983	1508	1754	1693	1794	2444	8180	6339	2396	2044	1765
MEAN	44.3	66.1	48.6	56.6	58.4	57.9	81.5	264	211	77.3	65.9	58.8
MAX	53	110	58	111	98	71	289	1700	1200	108	157	68
MIN	40	51	43	41	43	51	46	78	86	63	50	52
CFSM	.45	.68	.50	.58	.60	.59	.83	2.70	2.16	.79	.68	.60
IN.	.52	.76	.57	.67	.65	.68	.93	3.12	2.42	.91	.78	.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

MEAN	80.1	102	112	111	121	147	135	111	106	73.2	58.5	59.9
MAX	172	202	207	307	280	404	210	264	278	189	117	118
(WY)	1991	1986	1991	1993	1985	1982	1985	1996	1993	1981	1981	1981
MIN	36.0	38.6	42.9	53.8	58.4	57.9	81.5	55.3	36.7	37.9	39.9	38.3
(WY)	1995	1981	1990	1981	1996	1996	1996	1988	1988	1988	1987	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1980 - 1996	
ANNUAL TOTAL	25583		33272			
ANNUAL MEAN	70.1		90.9		101	
HIGHEST ANNUAL MEAN					155	1993
LOWEST ANNUAL MEAN					70.1	1995
HIGHEST DAILY MEAN	257	Mar 8	1700	May 10	2040	Feb 24 1985
LOWEST DAILY MEAN	40	Sep 29	40	Oct 18	24	Jul 9 1988
ANNUAL SEVEN-DAY MINIMUM	41	Sep 26	41	Oct 13	26	Jul 3 1988
INSTANTANEOUS PEAK FLOW			1850	May 10	2470	Feb 24 1985
INSTANTANEOUS PEAK STAGE			9.80	May 10	10.52	Feb 24 1985
ANNUAL RUNOFF (CFSM)	.72		.93		1.04	
ANNUAL RUNOFF (INCHES)	9.75		12.68		14.09	
10 PERCENT EXCEEDS	99		130		169	
50 PERCENT EXCEEDS	64		58		78	
90 PERCENT EXCEEDS	44		44		44	

e Estimated

04099850 PINE CREEK NEAR ELKHART, IN

LOCATION.--Lat 41°40'53", long 85°52'57", in NE¼NW¼ sec.7, T.37 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, on right bank 50 ft upstream from bridge on County Road 14, 0.3 mi east of the intersection of County Roads 17 and 14, and 3.1 mi east of Elkhart.
DRAINAGE AREA.--31.0 mi², of which 8.75 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1979 to current year.
GAGE.--Water-stage recorder. Datum of gage is 755.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	8.0	8.5	6.6	e5.0	14	7.9	17	21	20	20	9.4
2	5.8	10	8.2	6.5	e4.5	13	7.9	15	24	19	18	9.8
3	6.4	10	8.1	5.4	e3.8	10	7.7	14	23	19	16	9.1
4	6.5	8.8	8.0	e5.2	e3.7	11	7.7	14	21	18	16	9.6
5	6.3	8.3	8.0	e5.1	e3.6	13	7.6	14	20	17	15	9.6
6	6.4	7.9	7.8	e5.0	e3.6	12	7.5	13	37	17	14	9.6
7	6.3	7.6	7.5	e5.0	4.6	9.9	7.3	13	34	16	13	9.9
8	6.3	7.3	e7.0	5.0	17	9.8	7.3	12	28	15	13	11
9	6.2	7.3	e6.6	5.3	12	9.5	7.3	27	33	14	13	11
10	6.0	7.9	e6.2	5.5	12	9.3	7.1	388	273	14	13	10
11	5.9	31	e6.0	5.6	10	9.9	7.0	244	101	14	13	11
12	5.8	23	e6.0	5.5	8.0	10	7.3	60	47	14	13	12
13	5.7	16	e6.2	5.6	7.4	10	7.8	43	38	14	12	11
14	5.7	14	7.7	5.8	7.6	10	7.4	36	34	14	12	11
15	5.8	13	8.8	5.9	7.2	11	9.5	38	31	16	13	12
16	5.9	12	8.4	5.4	6.7	10	11	61	28	15	12	11
17	5.9	11	8.0	8.8	6.2	9.8	10	120	27	15	12	11
18	5.7	11	7.8	11	6.2	9.6	8.9	59	127	19	12	11
19	5.9	11	7.7	13	6.7	9.6	8.8	40	72	18	12	10
20	7.1	10	7.0	8.6	6.6	9.6	18	34	42	16	12	10
21	7.1	10	7.3	8.3	6.5	9.1	14	40	36	15	13	14
22	6.6	9.9	7.2	7.9	6.3	8.8	72	32	33	15	12	14
23	6.3	9.6	6.9	8.1	6.3	8.5	43	29	30	13	13	12
24	6.0	9.3	6.8	13	6.4	8.4	26	28	30	14	12	11
25	6.0	9.1	7.0	8.4	6.4	8.7	21	27	27	15	12	11
26	6.1	9.0	6.8	8.5	6.7	8.2	20	25	25	14	11	12
27	7.6	8.9	6.7	7.9	48	7.9	17	27	24	13	11	17
28	7.3	8.7	6.7	7.3	27	8.3	15	28	23	15	9.9	16
29	7.0	8.6	6.2	7.2	17	8.1	22	28	22	28	9.5	14
30	6.7	8.5	6.4	5.9	---	8.0	21	24	21	29	9.9	12
31	7.9	---	6.8	e5.4	---	8.1	---	22	---	23	10	---
TOTAL	196.0	326.7	224.3	217.7	273.0	303.1	442.0	1572	1332	518	397.3	342.0
MEAN	6.32	10.9	7.24	7.02	9.41	9.78	14.7	50.7	44.4	16.7	12.8	11.4
MAX	7.9	31	8.8	13	48	14	72	388	273	29	20	17
MIN	5.7	7.3	6.0	5.0	3.6	7.9	7.0	12	20	13	9.5	9.1
CFSM	.20	.35	.23	.23	.30	.32	.48	1.64	1.43	.54	.41	.37
IN.	.24	.39	.27	.26	.33	.36	.53	1.89	1.60	.62	.48	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

MEAN	15.7	18.0	21.0	19.2	21.6	26.7	25.6	22.4	22.6	16.0	12.7	12.8
MAX	42.4	32.8	52.7	45.6	47.6	82.3	40.0	50.7	68.1	39.2	25.5	23.7
(WY)	1991	1986	1991	1993	1985	1982	1993	1996	1993	1981	1981	1981
MIN	6.32	7.39	6.93	7.02	9.41	9.78	14.5	11.8	7.79	6.58	6.75	6.34
(WY)	1996	1981	1990	1996	1996	1996	1995	1995	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1980 - 1996	
ANNUAL TOTAL	4503.2		6144.1			
ANNUAL MEAN	12.3		16.8		19.5	
HIGHEST ANNUAL MEAN					30.1	1993
LOWEST ANNUAL MEAN					12.6	1995
HIGHEST DAILY MEAN	70	Aug 3	388	May 10	532	Dec 30 1990
LOWEST DAILY MEAN	5.7	Sep 30	3.6	Feb 5	3.6	Feb 5 1996
ANNUAL SEVEN-DAY MINIMUM	5.8	Oct 12	4.1	Feb 1	4.1	Feb 1 1996
INSTANTANEOUS PEAK FLOW			579	May 10	607	Dec 30 1990
INSTANTANEOUS PEAK STAGE			7.46	May 10	9.74	Jul 26 1981
ANNUAL RUNOFF (CFSM)	.40		.54		.63	
ANNUAL RUNOFF (INCHES)	5.40		7.37		8.55	
10 PERCENT EXCEEDS	20		28		32	
50 PERCENT EXCEEDS	10		10		15	
90 PERCENT EXCEEDS	6.3		6.0		7.7	

e Estimated

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 at Cosperville, 1,300 ft downstream from Boyd Ditch, 1.7 mi upstream from Hustin Ditch, and 3.1 mi downstream from Waldron Lake.
DRAINAGE AREA.--142 mi².
PERIOD OF RECORD.--October 1971 to current year.
GAGE.--Water-stage recorder. Datum of gage is 880.12 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated at times by dam at Waldron Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	49	84	e41	e122	152	113	326	332	321	74	72
2	12	85	83	e39	e118	147	110	311	318	276	72	66
3	18	140	79	e36	e110	139	107	293	299	247	68	59
4	25	157	77	e36	e103	139	106	275	278	226	64	53
5	25	151	73	e38	e99	139	103	260	259	207	60	48
6	30	138	69	e39	e92	141	100	246	244	190	56	44
7	28	126	67	e40	e86	138	96	230	245	175	52	44
8	26	116	e64	e43	95	134	93	217	238	163	49	46
9	24	113	e61	e46	102	125	90	213	241	151	45	43
10	21	108	e59	e47	104	120	86	242	359	141	41	39
11	19	131	e57	e47	104	114	84	266	403	130	39	36
12	18	158	e55	e48	102	110	81	268	413	119	37	35
13	17	163	e54	e48	99	108	80	264	410	109	34	31
14	15	158	61	e46	e92	106	80	258	423	101	32	26
15	13	150	59	e45	e88	106	80	265	411	96	41	25
16	14	142	60	45	e86	105	79	294	391	93	42	25
17	14	138	59	62	e83	102	81	412	374	89	42	23
18	20	132	59	90	e80	99	80	477	466	95	41	20
19	76	129	58	126	e78	98	84	499	535	99	40	18
20	64	126	55	159	e76	104	140	504	568	98	44	17
21	56	122	e53	144	e76	103	179	509	575	96	98	22
22	47	120	e52	143	e75	101	252	501	568	92	113	34
23	41	116	e50	142	e74	102	318	488	556	86	114	34
24	36	111	e48	152	75	105	345	473	545	82	114	31
25	33	106	e47	156	77	111	358	452	525	80	111	27
26	32	103	e45	155	80	117	366	429	500	76	107	27
27	38	99	e44	156	111	120	364	421	470	72	101	30
28	41	95	e43	165	142	118	356	421	439	64	94	31
29	42	94	e42	147	152	116	350	409	407	44	87	29
30	42	90	e41	148	---	116	338	390	371	61	81	28
31	45	---	e41	e130	---	114	---	363	---	71	76	---
TOTAL	946	3666	1799	2759	2781	3649	5099	10976	12163	3950	2069	1063
MEAN	30.5	122	58.0	89.0	95.9	118	170	354	405	127	66.7	35.4
MAX	76	163	84	165	152	152	366	509	575	321	114	72
MIN	12	49	41	36	74	98	79	213	238	44	32	17
CFSM	.21	.86	.41	.63	.68	.83	1.20	2.49	2.86	.90	.47	.25
IN.	.25	.96	.47	.72	.73	.96	1.34	2.88	3.19	1.03	.54	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

MEAN	84.2	122	145	157	152	254	244	174	148	87.4	60.8	64.2
MAX	272	314	341	542	272	553	530	354	405	211	130	161
(WY)	1987	1973	1986	1993	1990	1985	1985	1996	1996	1981	1981	1972
MIN	17.8	17.8	46.5	42.2	43.2	118	133	67.2	18.1	16.4	18.3	13.9
(WY)	1975	1972	1972	1977	1972	1996	1987	1988	1988	1988	1978	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1972 - 1996	
ANNUAL TOTAL	40033		50920			
ANNUAL MEAN	110		139		141	
HIGHEST ANNUAL MEAN					222	1993
LOWEST ANNUAL MEAN					85.7	1972
HIGHEST DAILY MEAN	320	Apr 14	575	Jun 21	916	Mar 22 1982
LOWEST DAILY MEAN	12	Oct 2	12	Oct 2	2.2	Jul 7 1988
ANNUAL SEVEN-DAY MINIMUM	16	Sep 26	16	Oct 11	2.8	Jul 3 1988
INSTANTANEOUS PEAK FLOW			576	Jun 21	919	Mar 23 1982
INSTANTANEOUS PEAK STAGE			6.61	Jun 21	8.12	Mar 23 1982
ANNUAL RUNOFF (CFSM)	.77		.98		.99	
ANNUAL RUNOFF (INCHES)	10.49		13.34		13.49	
10 PERCENT EXCEEDS	200		363		299	
50 PERCENT EXCEEDS	101		97		110	
90 PERCENT EXCEEDS	32		33		31	

e Estimated

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 downstream from bridge on State Highway 9,400 ft downstream from Miller Lake Outlet, 0.8 mi northeast of Burr Oak, and 4.5 mi south of Albion.
DRAINAGE AREA.--19.2 mi².
PERIOD OF RECORD.--June 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 889.00 ft above sea level (Indiana Department of Highways bench mark).
REMARKS.--Records fair except for estimated daily discharges, which are poor. Occasional regulation at Miller Lake Outlet.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.0	4.3	2.1	9.3	13	14	23	32	15	9.9	6.9
2	.66	1.2	4.1	2.1	8.1	13	14	21	31	15	10	5.3
3	.79	1.9	4.0	2.3	6.7	12	13	19	30	15	9.6	4.7
4	.76	2.6	3.9	2.2	5.8	11	14	19	29	14	9.1	4.2
5	.91	3.2	3.4	2.1	5.3	11	14	18	28	13	8.8	3.8
6	.95	3.5	3.1	2.0	5.2	e10	14	17	29	12	8.4	3.5
7	.99	3.9	3.0	2.0	4.6	e9.6	12	16	36	10	8.2	3.4
8	.94	3.8	e2.8	1.9	4.9	e8.9	11	15	40	10	7.8	3.4
9	.92	3.8	e2.7	1.7	5.8	e8.4	7.3	17	42	10	7.5	3.1
10	.95	3.6	e2.6	1.7	7.3	e7.9	5.6	39	91	10	7.6	2.9
11	.97	4.6	e2.5	1.8	8.3	e7.5	5.8	58	143	9.7	7.5	2.7
12	1.0	5.7	e2.4	1.8	8.7	e7.0	6.0	57	123	9.4	6.9	2.4
13	1.0	6.1	e2.4	1.7	8.9	e6.8	5.6	48	88	9.6	6.9	2.2
14	1.1	7.5	2.4	1.8	8.2	e6.6	4.9	39	65	9.2	6.6	1.8
15	1.1	9.3	2.3	1.7	7.9	e6.5	4.7	35	50	9.0	6.3	1.5
16	1.0	9.2	2.5	1.7	7.6	7.0	4.9	33	40	9.3	5.9	1.4
17	.88	8.9	2.6	2.1	6.6	7.3	5.0	56	35	9.5	4.5	1.0
18	.92	8.5	2.8	4.6	6.0	7.5	4.9	139	67	12	3.6	.89
19	.95	8.0	2.8	11	5.8	7.7	5.2	118	120	13	2.3	.69
20	.96	7.5	e2.7	21	5.8	10	39	83	110	13	2.2	.62
21	.88	7.0	e2.6	24	5.2	10	77	64	82	13	5.3	.71
22	.93	6.7	e2.5	20	5.0	10	89	50	62	13	8.8	.79
23	.95	6.4	e2.5	17	5.1	10	91	41	48	13	12	.76
24	1.1	6.1	e2.4	20	5.0	11	78	35	40	12	14	.72
25	1.0	5.7	e2.3	21	5.3	14	61	30	33	12	e12	.67
26	1.0	5.5	e2.3	20	6.0	18	50	25	28	12	e11	.71
27	1.0	5.3	e2.2	19	7.5	20	40	27	23	11	10	.82
28	1.0	5.0	e2.1	16	9.8	20	34	36	18	11	8.8	.97
29	1.1	4.8	e2.1	14	12	19	30	42	15	10	7.8	.87
30	1.0	4.6	e2.0	12	---	17	26	42	15	10	6.8	.86
31	1.0	---	e2.0	10	---	16	---	37	---	11	6.0	---
TOTAL	29.30	160.9	84.3	262.3	197.7	343.7	780.9	1299	1593	355.7	242.1	64.28
MEAN	.95	5.36	2.72	8.46	6.82	11.1	26.0	41.9	53.1	11.5	7.81	2.14
MAX	1.1	9.3	4.3	24	12	20	91	139	143	15	14	6.9
MIN	.59	1.0	2.0	1.7	4.6	6.5	4.7	15	15	9.0	2.2	.62
CFSM	.05	.28	.14	.44	.36	.58	1.36	2.18	2.77	.60	.41	.11
IN.	.06	.31	.16	.51	.38	.67	1.51	2.52	3.09	.69	.47	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	8.11	14.4	19.1	17.3	24.1	35.7	34.6	19.9	20.8	9.42	5.17	5.67
MAX	50.6	48.8	52.5	67.1	62.5	111	60.5	41.9	90.7	49.5	36.4	33.4
(WY)	1991	1989	1978	1993	1985	1982	1978	1996	1981	1986	1990	1990
MIN	.31	.25	2.59	1.22	2.96	11.1	9.61	4.70	1.98	.41	.25	.23
(WY)	1995	1995	1977	1977	1979	1996	1971	1988	1988	1971	1971	1978

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	4502.00		5413.18			
ANNUAL MEAN	12.3		14.8		17.8	
HIGHEST ANNUAL MEAN					29.0	1982
LOWEST ANNUAL MEAN					9.49	1979
HIGHEST DAILY MEAN	132	Apr 11	143	Jun 11	431	Feb 25 1985
LOWEST DAILY MEAN	.37	Jan 10	.59	Oct 1	.10	Nov 12 1994
ANNUAL SEVEN-DAY MINIMUM	.47	Jan 6	.71	Sep 19	.13	Nov 8 1994
INSTANTANEOUS PEAK FLOW			148	Jun 11	480	Feb 24 1985
INSTANTANEOUS PEAK STAGE			4.96	Jun 11	7.03	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.64		.77		.93	
ANNUAL RUNOFF (INCHES)	8.72		10.49		12.59	
10 PERCENT EXCEEDS	33		39		45	
50 PERCENT EXCEEDS	5.7		7.5		9.0	
90 PERCENT EXCEEDS	.95		1.0		.86	

e Estimated

04100295 RIMMELL BRANCH NEAR ALBION, IN

LOCATION.--Lat 41°23'07", long 85°22'14", in NE¼SE¼ sec.21, T.34 N., R.10 E., Noble County, Hydrologic Unit 04050001, on right bank 900 ft downstream from culvert on County Road 300 East, 0.75 mi south of State Highway 8, 3.0 mi east of intersection of State Highway 9 and State Highway 8 in Albion.
DRAINAGE AREA.--10.7 mi².
PERIOD OF RECORD.--November 1979 to current year.
GAGE.--Water-stage recorder. Datum of gage is 934.49 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	2.4	2.4	e1.7	e3.2	6.4	4.7	10	12	4.8	3.3	1.6
2	.40	24	2.3	e1.8	e3.1	3.7	4.4	8.6	19	4.4	3.1	1.6
3	.56	13	2.3	e2.0	e3.0	e3.3	4.2	7.7	16	4.1	3.0	1.6
4	.57	5.6	2.2	e1.6	e2.9	e3.0	4.1	7.2	13	3.9	2.9	1.5
5	.78	4.0	2.2	e1.3	e2.8	e3.2	3.8	9.0	12	3.8	2.7	1.5
6	1.2	3.3	2.1	e1.1	e2.7	e3.6	3.7	11	23	3.6	2.6	1.5
7	.86	3.3	e2.0	e1.0	e3.2	e3.3	3.6	9.0	24	3.5	2.5	1.6
8	.79	3.0	e1.9	e.90	e5.6	e3.1	3.4	8.1	13	3.5	2.4	1.6
9	.71	2.8	e1.8	e.84	11	e2.9	3.2	22	24	3.3	2.4	1.6
10	.63	2.7	e1.7	e.82	7.1	e2.8	3.1	73	188	3.1	2.3	1.6
11	.57	10	e1.6	e.80	5.1	e2.7	3.1	33	65	3.0	2.2	1.5
12	.55	8.3	e1.5	e.78	e4.1	2.7	3.1	17	35	3.0	2.2	1.5
13	.57	5.2	e1.6	e.76	e3.6	2.9	3.2	11	20	3.1	2.1	1.5
14	.64	4.5	e2.0	e.80	e3.2	3.1	3.0	9.1	15	3.1	2.0	1.5
15	.66	4.0	e3.5	e1.0	e3.0	3.4	3.5	13	12	3.1	1.9	1.5
16	.64	3.5	3.1	e2.0	e2.9	3.4	3.8	74	9.6	3.3	1.9	1.5
17	.63	3.3	2.7	e7.0	e2.8	3.3	3.5	282	15	3.3	1.9	1.4
18	.60	3.2	2.6	19	e2.7	3.3	3.4	100	175	8.0	1.8	1.4
19	.59	3.3	2.5	21	2.6	3.4	4.5	67	75	6.1	3.4	1.4
20	.92	3.3	e2.2	15	2.6	3.7	72	48	42	4.3	5.5	1.4
21	1.0	3.1	e2.1	4.8	2.5	4.2	25	58	28	3.9	17	1.5
22	.78	2.9	e2.0	4.1	2.5	4.5	59	37	20	3.7	6.3	1.6
23	.68	2.8	e1.9	4.9	2.6	4.6	40	24	16	3.4	4.8	1.5
24	.64	2.6	e1.8	12	3.0	9.0	23	17	12	3.4	3.1	1.5
25	.64	2.6	e1.8	11	3.0	16	17	14	9.2	3.6	2.5	1.5
26	.64	2.6	e1.7	4.8	3.3	8.9	15	12	8.6	3.2	2.2	1.5
27	2.3	2.6	e1.7	e4.3	7.0	7.4	12	39	7.6	3.0	2.1	1.8
28	2.2	2.5	e1.6	e3.9	7.9	4.9	10	36	7.0	2.9	1.9	1.9
29	1.7	2.4	e1.5	e3.7	7.2	5.0	10	27	6.0	3.0	1.8	1.8
30	1.2	2.4	e1.5	e3.5	---	4.9	11	18	5.3	3.5	1.7	1.6
31	1.5	---	e1.6	e3.3	---	4.7	---	14	---	3.6	1.7	---
TOTAL	26.50	139.2	63.4	141.50	116.2	141.3	363.3	1115.7	927.3	115.5	97.2	46.5
MEAN	.85	4.64	2.05	4.56	4.01	4.56	12.1	36.0	30.9	3.73	3.14	1.55
MAX	2.3	24	3.5	21	11	16	72	282	188	8.0	17	1.9
MIN	.35	2.4	1.5	.76	2.5	2.7	3.0	7.2	5.3	2.9	1.7	1.4
CFSM	.08	.43	.19	.43	.37	.43	1.13	3.36	2.89	.35	.29	.14
IN.	.09	.48	.22	.49	.40	.49	1.26	3.88	3.22	.40	.34	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

MEAN	6.09	11.6	12.4	11.0	15.9	20.1	18.5	11.8	11.1	5.45	2.51	2.33
MAX	26.8	34.3	38.7	46.2	44.8	69.9	31.8	36.0	39.1	33.0	16.1	12.7
(WY)	1991	1993	1991	1993	1985	1982	1981	1996	1981	1986	1990	1992
MIN	.16	.29	1.00	2.27	3.97	4.56	5.94	2.05	.72	.38	.22	.16
(WY)	1995	1995	1990	1981	1995	1996	1986	1985	1988	1994	1994	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1981 - 1996	
ANNUAL TOTAL	2796.53		3293.60			
ANNUAL MEAN	7.66		9.00		10.7	
HIGHEST ANNUAL MEAN					15.1	1993
LOWEST ANNUAL MEAN					6.55	1994
HIGHEST DAILY MEAN	143	May 24	282	May 17	349	Jul 16 1986
LOWEST DAILY MEAN	.22	Sep 5	.35	Oct 1	.09	Oct 3 1994
ANNUAL SEVEN-DAY MINIMUM	.24	Aug 31	.61	Oct 10	.09	Oct 1 1994
INSTANTANEOUS PEAK FLOW			359	May 17	418	Jul 16 1986
INSTANTANEOUS PEAK STAGE			12.31	May 17	12.82	Apr 14 1981
ANNUAL RUNOFF (CFSM)	.72		.84		1.00	
ANNUAL RUNOFF (INCHES)	9.72		11.45		13.58	
10 PERCENT EXCEEDS	16		17		24	
50 PERCENT EXCEEDS	2.6		3.1		4.3	
90 PERCENT EXCEEDS	.35		1.2		.51	

e Estimated

04100377 SOLOMON CREEK NEAR SYRACUSE, IN

LOCATION.--Lat 41°27'30", long 85°43'12", in NW¼SE¼ sec.28, T.35 N., R.7 E., Elkhart County, Hydrologic Unit 04050001, on right bank 40 ft upstream from County Road 52 East bridge over Solomon Creek, and 2.5 mi northeast of Syracuse.
DRAINAGE AREA.--36.1 mi².
PERIOD OF RECORD.--October 1987 to current year.
GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	22	e17	e22	26	20	18	35	45	28	18
2	12	21	22	e18	e21	25	20	17	36	42	27	16
3	13	40	21	e17	e21	23	20	16	36	40	26	16
4	13	32	21	e17	e21	23	20	16	34	38	25	15
5	12	28	21	17	e20	24	20	16	33	37	24	15
6	12	26	21	17	e20	24	20	16	35	36	21	16
7	12	25	21	17	e20	24	20	15	40	36	20	17
8	12	24	20	e17	e25	22	20	16	40	37	19	17
9	12	23	e20	17	19	22	19	18	57	35	19	17
10	12	23	e20	17	22	21	19	57	199	31	20	17
11	11	33	e20	17	22	21	19	55	153	29	21	17
12	11	37	e19	17	21	21	20	42	126	28	20	17
13	11	33	e19	17	21	21	20	34	100	28	20	17
14	11	30	20	17	21	21	20	29	82	28	19	17
15	11	29	20	17	21	21	20	30	71	28	18	17
16	11	28	20	16	21	21	20	41	64	29	17	17
17	11	27	20	19	21	21	20	60	65	29	17	17
18	11	26	19	25	e21	20	20	49	137	36	16	17
19	11	26	19	38	e20	21	21	41	114	44	18	16
20	11	26	19	33	20	21	46	37	91	38	19	16
21	11	25	19	29	20	21	45	37	78	35	27	17
22	10	25	18	27	20	21	75	35	71	34	28	18
23	10	24	e18	26	20	21	56	33	64	32	26	17
24	9.8	23	e17	28	20	21	37	32	62	30	25	17
25	9.7	23	e17	26	20	21	29	30	58	30	24	16
26	9.7	23	e17	26	20	21	25	28	55	27	23	17
27	11	23	e17	25	28	21	21	35	52	26	22	17
28	11	23	e16	25	35	20	19	47	50	26	21	17
29	11	22	e16	24	28	20	20	47	48	29	21	16
30	11	22	e16	e23	---	20	19	43	47	29	20	16
31	11	---	e16	e22	---	20	---	38	---	29	20	---
TOTAL	347.2	782	591	668	631	670	770	1028	2133	1021	671	500
MEAN	11.2	26.1	19.1	21.5	21.8	21.6	25.7	33.2	71.1	32.9	21.6	16.7
MAX	13	40	22	38	35	26	75	60	199	45	28	18
MIN	9.7	12	16	16	19	20	19	15	33	26	16	15
CFSM	.31	.72	.53	.60	.60	.60	.71	.92	1.97	.91	.60	.46
IN.	.36	.81	.61	.69	.65	.69	.79	1.06	2.20	1.05	.69	.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	26.9	35.8	35.2	43.4	37.1	40.9	46.3	40.7	48.1	27.7	20.2	21.3
MAX	61.5	60.1	60.3	94.8	50.1	64.4	62.8	59.4	82.3	40.0	33.2	36.5
(WY)	1991	1993	1991	1993	1993	1993	1993	1990	1993	1993	1990	1990
MIN	11.2	14.0	14.8	21.5	21.8	21.6	25.7	24.4	16.5	12.1	10.5	11.7
(WY)	1996	1988	1990	1996	1996	1996	1996	1989	1988	1988	1988	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996		
ANNUAL TOTAL	10315.2		9812.2				
ANNUAL MEAN	28.3		26.8		35.3		
HIGHEST ANNUAL MEAN					53.2		1993
LOWEST ANNUAL MEAN					24.2		1988
HIGHEST DAILY MEAN	124	May 25	199	Jun 10	256	Jun 9	1993
LOWEST DAILY MEAN	9.7	Oct 25	9.7	Oct 25	7.9	Aug 9	1988
ANNUAL SEVEN-DAY MINIMUM	10	Oct 20	10	Oct 20	9.0	Aug 8	1988
INSTANTANEOUS PEAK FLOW			219	Jun 10	333	Jun 8	1993
INSTANTANEOUS PEAK STAGE			5.55	Jun 10	6.35	Jun 8	1993
ANNUAL RUNOFF (CFSM)	.78		.74		.98		
ANNUAL RUNOFF (INCHES)	10.63		10.11		13.27		
10 PERCENT EXCEEDS	45		42		60		
50 PERCENT EXCEEDS	25		21		30		
90 PERCENT EXCEEDS	13		16		14		

e Estimated

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 downstream from River Avenue bridge at Goshen, 0.4 mi upstream from Rock Run, and at mile 16.1.
DRAINAGE AREA.--594 mi².
PERIOD OF RECORD.--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 above sea level. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Occasional low-flow regulation at Goshen Dam, 3.4 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	236	318	e205	e380	551	392	1090	1170	924	476	284
2	117	287	308	e200	e355	e480	390	1010	1130	874	452	268
3	127	472	298	e195	e340	e440	382	944	1090	837	428	252
4	145	518	291	e189	e320	428	375	895	1040	797	406	239
5	142	487	338	e187	e315	506	366	853	996	751	384	231
6	147	469	307	e183	e310	534	361	834	1010	704	355	228
7	149	449	e270	e181	323	441	354	793	1080	656	329	236
8	153	424	e250	e181	364	404	347	767	1070	612	316	269
9	149	400	e230	e181	480	374	336	763	1030	567	299	258
10	144	387	e215	e181	462	419	329	1680	3260	528	274	243
11	140	546	e210	e180	e430	418	316	2150	3090	485	266	235
12	133	755	e210	e180	420	388	289	1610	e2290	456	260	238
13	129	632	e220	e180	377	382	282	1220	e1870	426	246	231
14	123	567	239	e180	378	373	281	1080	e1630	395	236	223
15	120	537	252	e181	362	372	299	1090	e1500	394	263	224
16	118	519	261	e190	340	375	334	1230	e1350	416	259	219
17	127	493	265	222	317	365	323	2060	e1300	403	249	214
18	95	471	266	404	e300	361	313	2540	e2400	563	242	209
19	110	457	230	618	310	356	321	2280	e2100	1050	259	194
20	161	446	201	465	325	374	521	1960	e1900	1110	299	183
21	203	430	e200	e460	322	379	809	1730	e1730	865	509	224
22	187	409	e198	e500	314	367	905	1600	e1600	715	541	270
23	175	392	e197	561	309	358	1550	1520	e1470	630	435	249
24	159	376	e193	605	307	361	1680	1450	e1400	575	427	236
25	152	367	e191	563	308	376	1290	1390	e1350	544	406	219
26	150	360	e191	566	315	383	1190	1320	1340	507	391	221
27	193	357	e190	554	405	383	1150	1280	1250	470	379	262
28	211	347	e190	497	793	393	1110	1380	1140	447	366	267
29	201	332	e190	e470	665	404	1120	1430	1060	481	348	245
30	196	326	e190	e440	---	400	1160	1440	982	473	326	227
31	218	---	e192	e400	---	394	---	1280	---	502	306	---
TOTAL	4693	13248	7301	10299	10946	12539	18875	42669	45628	19157	10732	7098
MEAN	151	442	236	332	377	404	629	1376	1521	618	346	237
MAX	218	755	338	618	793	551	1680	2540	3260	1110	541	284
MIN	95	236	190	180	300	356	281	763	982	394	236	183
CFSM	.25	.74	.40	.56	.64	.68	1.06	2.32	2.56	1.04	.58	.40
IN.	.29	.83	.46	.64	.69	.79	1.18	2.67	2.86	1.20	.67	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

MEAN	315	395	498	589	687	934	940	711	508	359	269	251
MAX	1652	1132	1276	2058	1657	2497	2424	2354	1521	1079	712	784
(WY)	1955	1973	1983	1993	1959	1982	1950	1943	1996	1951	1958	1958
MIN	75.9	95.9	122	122	108	301	363	222	101	94.0	73.0	58.5
(WY)	1965	1965	1964	1963	1963	1964	1946	1958	1934	1934	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996	
ANNUAL TOTAL	175366		203185			
ANNUAL MEAN	480		555		537	
HIGHEST ANNUAL MEAN					1005	1950
LOWEST ANNUAL MEAN					197	1964
HIGHEST DAILY MEAN	1800	Apr 11	3260	Jun 10	6010	Feb 24 1985
LOWEST DAILY MEAN	95	Oct 18	95	Oct 18	7.0	Aug 11 1964
ANNUAL SEVEN-DAY MINIMUM	117	Oct 13	117	Oct 13	50	Sep 21 1941
INSTANTANEOUS PEAK FLOW			4290	Jun 10	6360	Feb 24 1985
INSTANTANEOUS PEAK STAGE			9.24	Jun 10	11.94	Mar 14 1982
ANNUAL RUNOFF (CFSM)	.81		.93		.90	
ANNUAL RUNOFF (INCHES)	10.98		12.72		12.29	
10 PERCENT EXCEEDS	904		1280		1100	
50 PERCENT EXCEEDS	415		376		388	
90 PERCENT EXCEEDS	159		187		155	

e Estimated

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 downstream from Elkhart River, 200 ft upstream from Main Street bridge in Elkhart, 2,000 ft downstream from Christiana Creek, 0.5 mi downstream from Elkhart Hydroelectric Plant, and at mile 76.5.
DRAINAGE AREA.--3,370 mi².
PERIOD OF RECORD.--August 1947 to current year. Gage heights at site 0.8 mi downstream at different datum from September 1924 to March 1926 are available from the district office.
REVISED RECORDS.--WSP 2111: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level.
REMARKS.--No estimated daily discharges. Records good. The flow is regulated by Elkhart Hydroelectric Plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	2180	3060	2470	2320	3820	2610	5220	4920	4820	2450	1670
2	1230	2430	2960	2350	2720	3810	2690	5030	4870	4490	2340	1660
3	1520	2470	2950	1880	2730	3730	2640	4890	4520	4160	2320	1500
4	1480	2600	2810	1830	2910	3420	2600	4750	4500	3890	2110	1690
5	1500	2770	2770	1960	2790	3710	2500	4520	4080	3590	2040	1580
6	1480	2590	2790	1960	2630	3590	2350	4300	4520	3440	2010	1500
7	1550	2700	2610	1910	2650	3240	2530	4030	4700	3110	1880	1590
8	1430	2750	2570	1820	2680	3170	2410	4020	4660	2670	1880	1690
9	1500	2640	2200	1850	3020	3150	2240	4080	4740	2940	1750	1700
10	1630	2610	1740	2060	3140	2910	2360	7080	7860	2640	1730	1600
11	1480	3770	1810	1940	2910	2890	2260	8620	9930	2260	1510	1490
12	1480	3920	2000	1970	2860	2710	2310	7350	8290	2120	1560	1660
13	1470	4070	2390	2130	2750	2750	2740	6880	7260	2360	1710	1600
14	1480	4210	2680	2080	2750	3000	2650	6590	6750	2210	1470	1640
15	1520	4150	3190	2090	2630	3070	2670	6650	6330	2230	1550	1550
16	1490	4130	3180	2020	2360	3070	2910	7070	5960	2290	1620	1620
17	1460	4060	2890	2240	2330	2980	2900	8410	5490	2240	1500	1720
18	1430	3830	2790	2690	2230	3020	2970	8730	7160	2650	1470	1540
19	1450	3660	2690	3170	2400	2950	3030	8100	9080	3100	1610	1590
20	1770	3480	2460	2810	2340	2820	3320	7730	8570	3130	1750	1420
21	1850	3460	2520	3080	2370	2830	3750	7510	8020	2620	1970	1810
22	1750	3410	2340	3300	2380	2700	4740	7150	7550	2380	2290	1940
23	1700	3360	2450	3240	2370	2720	5830	6920	7320	2220	2500	1810
24	1780	3220	2260	3670	2420	2700	6010	6850	7140	2150	2510	1710
25	1840	3120	2470	3250	2440	2620	6100	6680	7240	2110	2260	1720
26	1720	3150	2370	3240	2630	2730	6060	6330	6900	2060	2400	1810
27	1980	3140	2110	3120	3150	2670	5790	6150	6670	2010	2280	2180
28	2230	3100	2190	2820	3750	2740	5720	6100	5930	2060	2180	2140
29	2050	3050	2130	2990	3840	2730	5670	5810	5610	2430	1930	1920
30	1880	2930	2180	2690	---	2700	5620	5710	5270	2770	1930	1880
31	2220	---	2120	2270	---	2720	---	5350	---	2560	1780	---
TOTAL	50730	96960	77680	76900	78500	93670	107980	194610	191840	85710	60290	50930
MEAN	1636	3232	2506	2481	2707	3022	3599	6278	6395	2765	1945	1698
MAX	2230	4210	3190	3670	3840	3820	6100	8730	9930	4820	2510	2180
MIN	1230	2180	1740	1820	2230	2620	2240	4020	4080	2010	1470	1420
CFSM	.49	.96	.74	.74	.80	.90	1.07	1.86	1.90	.82	.58	.50
IN.	.56	1.07	.86	.85	.87	1.03	1.19	2.15	2.12	.95	.67	.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

MEAN	2202	2649	3218	3580	3827	5087	5208	4124	3268	2393	1962	1881
MAX	5752	5883	5795	9270	7039	10760	12690	7725	7535	4409	4180	3855
(WY)	1987	1993	1991	1993	1968	1982	1950	1956	1989	1968	1981	1981
MIN	791	856	958	1127	1120	1679	2633	1911	1280	898	737	721
(WY)	1964	1965	1964	1964	1963	1964	1958	1958	1988	1988	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1948 - 1996	
ANNUAL TOTAL	1029110		1165800			
ANNUAL MEAN	2819		3185		3280	
HIGHEST ANNUAL MEAN					5264	1950
LOWEST ANNUAL MEAN					1283	1964
HIGHEST DAILY MEAN	5470	Apr 12	9930	Jun 11	18500	Mar 21 1982
LOWEST DAILY MEAN	1230	Oct 2	1230	Oct 2	336	Aug 5 1964
ANNUAL SEVEN-DAY MINIMUM	1440	Sep 30	1450	Oct 1	561	Aug 2 1964
INSTANTANEOUS PEAK FLOW			10600	Jun 11	18800	Feb 27 1985
INSTANTANEOUS PEAK STAGE			23.79	Jun 11	27.91	Mar 21 1982
ANNUAL RUNOFF (CFSM)	.84		.95		.97	
ANNUAL RUNOFF (INCHES)	11.36		12.87		13.22	
10 PERCENT EXCEEDS	4200		6070		5820	
50 PERCENT EXCEEDS	2770		2660		2790	
90 PERCENT EXCEEDS	1650		1620		1380	

04101370 JUDAY CREEK NEAR SOUTH BEND, IN

LOCATION.--Lat 41°43'43", long 85°15'46", in NW¼SE¼ sec.23, T.38N., R.2E., St. Joseph County, Hydrologic Unit 04050001, on right bank at downstream side of bridge on access road to Izaak Walton League property, 0.1 mi south of Darden Road in Roseland, IN.
DRAINAGE AREA.--Approx. 38 mi².
PERIOD OF RECORD.--October 1992 to current year.
GAGE.--Water-stage recorder. Datum of gage about 690.00 ft above sea level.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e14	e16	17	e14	e16	19	e15	e23	22	28	34	17
2	e14	e20	17	e14	e16	19	e17	e23	25	28	30	16
3	e17	e23	17	e13	e15	18	e14	22	22	26	27	16
4	e15	e19	16	e13	e15	18	e18	22	23	23	23	14
5	e14	e16	16	e13	e14	20	e15	22	22	22	22	15
6	e15	e15	16	e13	e14	19	e15	21	28	24	21	15
7	e16	e15	16	e13	e14	e18	e15	21	23	24	19	15
8	e14	e14	16	e12	e15	e17	e14	20	22	22	20	15
9	e13	e14	e15	e13	e17	e16	e14	26	37	22	19	16
10	e12	e18	e14	e13	e14	e15	e13	63	80	22	e19	16
11	e12	e40	e14	e12	e14	e15	e13	33	58	21	e18	16
12	e11	e50	e13	e12	e13	e16	e21	23	46	21	e18	17
13	e11	e39	e13	e12	e13	e16	e16	20	41	21	e17	16
14	e12	e30	e14	e12	e13	e17	e13	20	37	22	e17	16
15	e11	e24	16	13	e12	e18	e17	20	29	27	e19	17
16	e11	e23	15	13	e12	e17	e23	32	25	23	18	17
17	e11	e22	15	15	e12	e17	e15	64	28	25	e18	17
18	e11	e22	15	17	e12	e16	e13	30	66	58	e18	16
19	e11	e25	15	20	e12	e18	e16	32	49	42	e18	16
20	e12	e23	15	21	e13	e17	e21	34	38	34	e18	16
21	e14	e21	15	18	e13	e16	e17	32	33	36	e18	18
22	e13	20	15	18	e13	e16	e25	24	30	36	18	17
23	e12	20	e14	17	e13	e16	e31	21	28	34	18	16
24	e12	19	e14	17	13	e18	e27	22	39	32	17	16
25	e12	19	e14	16	13	e23	e24	21	35	29	17	16
26	e12	20	e13	17	14	e18	e21	21	34	26	17	18
27	e13	21	e13	18	20	e15	e19	21	33	23	17	20
28	e15	18	e13	e17	21	e15	e18	23	32	23	16	18
29	e14	17	e13	e17	21	e16	e19	36	33	36	16	17
30	e13	17	e13	e17	---	e15	e21	28	31	39	16	17
31	e13	---	e13	e17	---	e20	---	22	---	37	16	---
TOTAL	400	660	455	467	417	534	540	842	1049	886	599	492
MEAN	12.9	22.0	14.7	15.1	14.4	17.2	18.0	27.2	35.0	28.6	19.3	16.4
MAX	17	50	17	21	21	23	31	64	80	58	34	20
MIN	11	14	13	12	12	15	13	20	22	21	16	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

MEAN	18.1	24.9	19.8	22.8	20.4	24.9	26.1	23.2	27.4	20.2	21.4	17.2
MAX	27.3	31.6	23.6	38.3	24.6	33.8	35.3	27.2	44.9	28.6	36.4	24.0
(WY)	1994	1994	1993	1993	1993	1993	1993	1996	1993	1996	1995	1993
MIN	12.5	21.8	14.7	15.1	14.4	17.2	18.0	17.0	14.6	12.9	14.4	12.7
(WY)	1995	1995	1996	1996	1996	1996	1996	1994	1994	1995	1994	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1993 - 1996	
ANNUAL TOTAL	7473.4		7341			
ANNUAL MEAN	20.5		20.1		22.2	
HIGHEST ANNUAL MEAN					27.7	1993
LOWEST ANNUAL MEAN					19.9	1994
HIGHEST DAILY MEAN	90	Aug 4	80	Jun 10	163	Jun 9 1993
LOWEST DAILY MEAN	8.9	Jul 14	11	Oct 12	8.9	Jul 14 1995
ANNUAL SEVEN-DAY MINIMUM	10	Jul 9	11	Oct 12	10	Jul 9 1995
INSTANTANEOUS PEAK FLOW			130	May 17	226	Jun 9 1993
INSTANTANEOUS PEAK STAGE			3.18	May 17	3.39	Jun 9 1993
10 PERCENT EXCEEDS	28		32		34	
50 PERCENT EXCEEDS	19		17		20	
90 PERCENT EXCEEDS	12		13		13	

e Estimated

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 upstream from bridge on County Road 775 South, 0.5 mi downstream from Hamilton Lake outlet, and 0.5 mi southeast of Hamilton.
DRAINAGE AREA.--37.5 mi².
PERIOD OF RECORD.--October 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 876.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	18	17	10	18	62	30	65	36	22	20	14
2	2.7	71	15	11	15	49	25	52	42	19	15	12
3	5.3	98	15	e10	13	38	24	45	42	16	13	10
4	5.8	58	14	e9.6	12	31	24	41	37	13	11	9.8
5	7.6	39	14	e9.4	11	40	22	38	31	12	9.1	8.6
6	10	29	13	e9.2	9.9	46	20	37	52	12	8.3	7.8
7	7.9	28	11	e8.9	10	36	19	32	80	12	7.7	7.9
8	5.9	23	10	e8.7	34	28	17	29	60	11	7.5	7.3
9	5.1	18	e9.6	9.7	47	23	16	44	141	9.3	5.3	7.3
10	4.8	17	e9.4	9.7	38	20	15	150	213	7.5	4.7	6.4
11	4.1	66	e9.2	10	37	19	14	135	159	7.0	4.3	6.0
12	4.2	79	e9.0	11	27	19	15	100	119	7.0	4.4	6.3
13	4.1	57	e10	10	22	20	18	75	91	7.2	4.4	4.9
14	5.1	44	15	10	20	21	16	58	78	7.0	4.2	4.2
15	4.5	36	18	9.7	18	25	19	58	60	8.0	5.3	4.3
16	3.6	29	18	10	16	24	23	68	47	7.6	4.4	4.6
17	3.4	27	17	32	15	22	21	1220	55	7.0	4.1	4.7
18	4.1	29	16	77	14	21	19	1040	300	12	4.2	4.4
19	4.3	33	15	118	13	23	23	601	322	13	12	4.1
20	6.5	34	14	72	13	40	136	346	215	8.7	79	3.9
21	7.3	31	13	51	15	34	109	239	154	6.8	391	5.2
22	6.8	26	12	40	15	30	180	178	117	7.2	246	7.5
23	5.9	24	12	40	16	28	203	140	86	6.6	161	4.9
24	7.0	20	e11	85	19	40	142	112	105	6.8	109	5.2
25	4.3	18	e11	60	19	67	109	96	82	7.8	77	4.1
26	4.8	18	e10	45	23	52	95	82	63	6.2	56	4.3
27	14	18	e9.8	48	88	38	71	79	50	5.4	42	19
28	16	19	e9.6	37	126	32	56	76	40	5.5	31	24
29	13	17	e9.4	30	84	32	54	65	33	11	24	15
30	9.7	16	e9.4	25	---	31	74	52	28	27	20	11
31	14	---	e9.6	22	---	31	---	43	---	31	17	---
TOTAL	205.1	1040	386.0	938.9	807.9	1022	1609	5396	2938	339.6	1401.9	238.7
MEAN	6.62	34.7	12.5	30.3	27.9	33.0	53.6	174	97.9	11.0	45.2	7.96
MAX	16	98	18	118	126	67	203	1220	322	31	391	24
MIN	2.7	16	9.0	8.7	9.9	19	14	29	28	5.4	4.1	3.9
CFSM	.18	.92	.33	.81	.74	.88	1.43	4.64	2.61	.29	1.21	.21
IN.	.20	1.03	.38	.93	.80	1.01	1.60	5.35	2.91	.34	1.39	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	13.4	29.8	37.1	36.4	46.9	70.8	61.4	40.3	30.2	16.1	12.4	10.5
MAX	69.5	117	91.3	161	129	219	112	174	118	64.3	45.2	47.1
(WY)	1987	1993	1991	1993	1976	1982	1978	1996	1981	1992	1996	1981
MIN	2.14	2.46	7.25	5.96	7.84	28.1	18.7	8.24	2.05	2.02	1.89	1.88
(WY)	1995	1972	1977	1977	1979	1981	1971	1985	1988	1988	1970	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	8984.5		16323.1			
ANNUAL MEAN	24.6		44.6		33.7	
HIGHEST ANNUAL MEAN					54.7	1993
LOWEST ANNUAL MEAN					17.8	1972
HIGHEST DAILY MEAN	347	Jun 29	1220	May 17	1220	May 17 1996
LOWEST DAILY MEAN	2.7	Sep 19	2.7	Oct 2	.52	Aug 31 1971
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 26	4.1	Oct 11	.82	Aug 26 1971
INSTANTANEOUS PEAK FLOW			1510	May 17	1510	May 17 1996
INSTANTANEOUS PEAK STAGE			14.49	May 17	14.49	May 17 1996
ANNUAL RUNOFF (CFSM)	.66		1.19		.90	
ANNUAL RUNOFF (INCHES)	8.91		16.19		12.20	
10 PERCENT EXCEEDS	55		92		80	
50 PERCENT EXCEEDS	14		18		16	
90 PERCENT EXCEEDS	4.3		5.3		3.0	

e Estimated

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 mi northeast of Newville, 6.5 mi northwest of Hicksville, Ohio, and at mile 42.3.
DRAINAGE AREA.--610 mi².

WATER-DISCHARGE RECORDS

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 above sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	163	312	e130	e380	1420	492	1120	492	435	201	e90
2	55	270	297	e140	e350	1130	457	1150	451	378	168	e84
3	64	570	283	e135	e310	784	410	1150	438	334	146	e82
4	64	720	259	e130	e280	587	358	1080	426	300	129	e80
5	66	821	238	e125	e260	570	313	928	415	270	114	e75
6	78	758	e205	e120	e245	629	292	762	404	245	103	e70
7	92	670	e180	e117	e240	563	274	624	478	224	95	e68
8	137	565	e155	e114	e280	421	269	573	603	206	88	e70
9	117	472	e140	e112	e420	422	282	545	1150	189	81	e75
10	102	405	e130	e110	e720	403	272	1240	1900	174	78	e76
11	85	472	e125	e114	e740	370	262	1630	2220	157	76	e74
12	69	882	e120	e120	e600	363	245	1810	2190	138	73	e74
13	61	985	e130	e130	e470	341	211	1920	1780	134	70	e73
14	56	956	e140	e140	e370	356	238	1970	1330	129	67	e73
15	53	848	e150	e150	e310	383	392	1860	970	130	67	e74
16	50	720	e160	e180	e270	401	464	1640	745	138	66	e72
17	54	599	e150	e350	e240	392	494	3960	605	125	63	e70
18	61	526	e145	1420	e220	370	507	9790	1350	132	61	e69
19	62	525	e140	1360	e200	360	490	7170	2140	132	71	e68
20	58	535	e135	1270	e190	446	1430	4720	2800	161	126	e68
21	66	542	e133	1100	e195	539	2030	3570	3120	141	668	e67
22	73	547	e131	999	e200	568	2080	2760	3250	98	1280	e73
23	81	532	e130	1270	e230	546	2260	2150	2930	87	1120	e72
24	91	476	e128	1210	e260	654	2370	1670	2470	89	653	e72
25	91	426	e126	1110	e310	1060	2300	1300	1960	117	404	e76
26	89	382	e124	e920	e390	1120	2080	1010	1500	103	300	e80
27	104	352	e122	e780	648	957	1820	887	1030	94	e225	e150
28	119	330	e121	e660	1300	812	1440	867	758	88	e170	e310
29	129	320	e120	e560	1460	661	1050	733	604	127	e130	e230
30	147	319	e120	e490	---	569	977	636	511	173	e110	e165
31	159	---	e124	e430	---	526	---	573	---	229	e100	---
TOTAL	2582	16688	4973	15996	12088	18723	26559	61798	41020	5477	7103	2780
MEAN	83.3	556	160	516	417	604	885	1993	1367	177	229	92.7
MAX	159	985	312	1420	1460	1420	2370	9790	3250	435	1280	310
MIN	49	163	120	110	190	341	211	545	404	87	61	67
CFSM	.14	.91	.26	.85	.68	.99	1.45	3.27	2.24	.29	.38	.15
IN.	.16	1.02	.30	.98	.74	1.14	1.62	3.77	2.50	.33	.43	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

MEAN	180	384	586	656	833	1204	1077	634	394	241	138	127
MAX	1066	1756	2085	2545	2302	3512	3102	2499	1864	1045	563	582
(WY)	1987	1993	1968	1950	1976	1982	1950	1956	1989	1951	1979	1958
MIN	21.0	30.5	31.1	38.3	41.4	312	321	148	51.4	32.2	29.1	20.3
(WY)	1964	1965	1964	1963	1963	1964	1971	1988	1988	1988	1967	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996	
ANNUAL TOTAL	143203		215787			
ANNUAL MEAN	392		590		535	
HIGHEST ANNUAL MEAN					1008	1950
LOWEST ANNUAL MEAN					132	1964
HIGHEST DAILY MEAN	2850	Jul 2	9790	May 18	9790	May 18 1996
LOWEST DAILY MEAN	49	Oct 1	49	Oct 1	14	Sep 10 1964
ANNUAL SEVEN-DAY MINIMUM	53	Sep 25	56	Oct 14	15	Sep 10 1964
INSTANTANEOUS PEAK FLOW			10400	May 18	10400	May 18 1996
INSTANTANEOUS PEAK STAGE			17.74	May 18	17.96	Mar 17 1982
ANNUAL RUNOFF (CFSM)	.64		.97		.88	
ANNUAL RUNOFF (INCHES)	8.73		13.16		11.91	
10 PERCENT EXCEEDS	926		1420		1480	
50 PERCENT EXCEEDS	228		298		232	
90 PERCENT EXCEEDS	71		73		48	

e Estimated

STREAMS TRIBUTARY TO LAKE ERIE

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN

(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

The goal of the National Water-Quality Program (NAWQA) is to describe the status and trends in the quality of a large, representative part of the Nation's surface- and ground-water resources. The Lake Erie study unit began in October 1993. The period of record is for the 1996 water year. There are ten stream sites in the Lake Erie-Lake St. Clair Basin which are located in four States and the data are being reported in the appropriate State publication as part of the NAWQA study. The ten sites are: Maumee River at Waterville, Oh.(04193500), Auglaize River nr. Ft. Jennings, Oh. (04186500), Cuyahoga River at LTV Steel at Cleveland, Oh. (04208504), Grand River at Harpersfield, Oh. (04211820), Black River near Jeddo, Mi. (04159492), Clinton River at Sterling Heights, Mi. (04161820) River Raisin nr. Manchester, Mi. (04175600), St. Joseph River nr. Newville, In. (04178000), Maumee River at New Haven, In. (04183000), and Cattaraugus Creek at Gowanda, N.Y. (04213500).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MAR									
07	1130	570	502	7.0	<-5.0	0.0	--	11.1	--
APR									
17	0900	490	552	8.1	15.0	7.5	742	11.2	96
30	0845	945	497	7.9	4.0	9.0	728	9.7	88
MAY									
07	0815	627	544	8.0	10.0	11.5	747	9.2	86
JUN									
04	0830	428	528	7.8	14.5	17.0	737	7.2	77
19	0900	2070	290	7.4	28.0	20.5	736	5.7	66
JUL									
19	0830	132	616	7.8	28.0	22.0	736	5.8	69
AUG									
27	0730	250	491	7.7	29.0	21.0	741	6.7	77
SEP									
10	0800	76	660	7.9	19.5	20.0	742	6.6	75

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
MAR									
07	1700	--	66	64	16	14	4.1	195	160
APR									
17	210	270	55	72	18	11	3.0	242	198
30	1700	1700	61	66	16	9.8	3.7	207	170
MAY									
07	310	290	60	72	17	12	2.9	232	190
JUN									
04	260	270	46	72	18	9.7	2.9	254	208
19	--	3500	17	38	8.4	4.3	4.7	137	112
JUL									
19	E1900	1500	24	75	20	13	3.4	299	245
AUG									
27	500	600	44	64	17	8.9	3.5	227	186
SEP									
10	250	220	28	76	23	17	2.9	313	256

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR									
07	45	29	0.2	5.7	311	0.03	2.4	0.37	1.4
APR									
17	49	24	0.2	2.7	460	0.02	1.6	<0.015	0.7
30	44	20	0.2	5.4	313	0.02	2.5	0.09	0.9
MAY									
07	48	22	0.2	4.5	329	0.02	2.1	<0.015	0.8
JUN									
04	40	17	0.2	5.5	311	0.03	0.85	0.05	0.8
19	17	9.4	0.2	5.9	189	0.08	2.9	0.15	2.2
JUL									
19	47	21	0.4	8.5	369	0.03	1.1	0.12	0.6
AUG									
27	38	14	0.3	6.8	289	<0.01	<0.05	0.02	0.9
SEP									
10	51	23	0.4	8.1	386	0.01	0.44	<0.015	0.7

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN -- Continued
(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAR										
07	1.4	0.13	0.09	0.08	57	27	8.7	1.3	--	--
APR										
17	0.50	0.04	0.01	<0.01	45	13	7.3	2.0	32	42
30	0.70	0.12	0.05	0.04	39	19	9.4	2.3	50	128
MAY										
07	0.60	0.12	0.03	0.02	38	31	8.5	2.3	58	98
JUN										
04	0.60	0.08	0.04	0.03	48	21	8.2	2.4	68	79
19	0.80	0.56	0.12	0.11	70	3.0	10	7.5	331	1850
JUL										
19	0.50	0.12	0.05	0.07	9.0	23	6.8	0.5	45	16
AUG										
27	0.50	0.13	0.05	0.06	37	14	8.1	1.8	54	36
SEP										
10	0.30	0.10	0.04	0.05	7.0	13	5.6	1.2	42	8.7

DATE	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZINPHOS WAT FLT 0.7 UM-GF, REC (UG/L) (82686)	BENFLURALIN WAT FLD 0.7 UM-GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 UM-GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)
MAR										
07	<0.002	0.011	0.150	E0.014	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
APR										
17	--	--	--	--	--	--	--	--	--	--
30	0.010	0.021	0.190	E0.033	<0.001	<0.002	<0.002	<0.003	<0.003	0.005
MAY										
07	0.007	0.017	0.176	E0.023	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
JUN										
04	0.120	0.075	0.550	E0.035	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
19	4.68	4.94	16.0	E0.384	<0.001	<0.002	<0.002	<0.003	<0.003	0.211
JUL										
19	0.060	0.130	1.40	E0.043	<0.001	<0.002	<0.002	<0.003	<0.003	0.016
AUG										
27	0.025	0.158	0.949	E0.072	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
SEP										
10	0.007	0.020	0.501	E0.036	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004

DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 UM-GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	2,6-DIETHYL ANILINE WAT FLT 0.7 UM-GF, REC (UG/L) (82660)	DISULFOTON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 UM-GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 UM-GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 UM-GF, REC (UG/L) (82672)
MAR										
07	0.044	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
APR										
17	--	--	--	--	--	--	--	--	--	--
30	0.069	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
MAY										
07	0.059	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
JUN										
04	0.190	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
19	4.18	E0.002	<0.006	E0.004	<0.001	<0.003	<0.017	E0.002	<0.004	<0.003
JUL										
19	0.310	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
AUG										
27	0.174	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003
SEP										
10	0.081	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN -- Continued
(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED UG/L) (39542)
MAR										
07	<0.003	<0.002	<0.004	<0.002	<0.005	0.08	<0.004	<0.004	<0.003	<0.004
APR										
17	--	--	--	--	--	--	--	--	--	--
30	<0.003	<0.002	<0.004	<0.002	<0.005	0.12	0.02	<0.004	<0.003	<0.004
MAY										
07	<0.003	<0.002	<0.004	<0.002	<0.005	0.07	<0.004	<0.004	<0.003	<0.004
JUN										
04	<0.003	<0.002	<0.004	<0.002	<0.005	0.73	0.06	<0.004	<0.003	<0.004
19	<0.003	<0.002	<0.004	0.43	0.01	11	1.6	<0.004	<0.003	<0.004
JUL										
19	<0.003	<0.002	<0.004	0.05	<0.005	0.69	0.08	<0.004	<0.003	<0.004
AUG										
27	<0.003	<0.002	<0.004	E0.08	<0.005	1.6	0.12	<0.004	<0.003	<0.004
SEP										
10	<0.003	<0.002	<0.004	<0.002	<0.005	0.27	0.02	<0.004	<0.003	<0.004

DATE	METHYL PARA-THION WAT FLT 0.7 UM-GF, REG (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 UM-GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 UM-GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 UM-GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82676)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82685)
MAR										
07	<0.006	<0.004	<0.004	<0.005	<0.002	<0.02	<0.003	<0.007	<0.004	<0.01
APR										
17	--	--	--	--	--	--	--	--	--	--
30	<0.006	<0.004	<0.007	<0.005	<0.002	E0.009	<0.003	<0.007	<0.004	<0.01
MAY										
07	<0.006	<0.004	<0.004	<0.005	<0.002	E0.01	<0.003	<0.007	<0.004	<0.01
JUN										
04	<0.006	<0.004	<0.004	<0.005	<0.002	E0.02	<0.003	<0.007	<0.004	<0.01
19	<0.006	<0.004	0.15	<0.005	<0.002	0.05	<0.003	<0.007	<0.004	<0.01
JUL										
19	<0.006	<0.004	<0.004	<0.005	<0.002	0.21	<0.003	<0.007	<0.004	<0.01
AUG										
27	<0.006	<0.004	<0.004	<0.005	<0.002	0.02	<0.003	<0.007	<0.004	<0.01
SEP										
10	<0.006	<0.004	<0.004	<0.005	<0.002	E0.01	<0.003	<0.007	<0.004	<0.01

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 UM-GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 UM-GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 UM-GF, REC (UG/L) (82661)
MAR							
07	0.03	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
APR							
17	--	--	--	--	--	--	--
30	0.04	E0.01	<0.007	<0.01	<0.002	<0.001	<0.002
MAY							
07	0.03	E0.006	<0.007	<0.01	<0.002	<0.001	<0.002
JUN							
04	0.09	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
19	0.86	0.04	<0.007	<0.01	<0.002	<0.001	<0.002
JUL							
19	0.12	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
AUG							
27	0.12	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
SEP							
10	0.05	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002

-- = no data
< = concentration or value reported is less than that indicated
E = estimated value is greater than the limit of detection but less than the lower limit of quantitation
K = value is estimated from a non-ideal colony count

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 mi northwest of Cedarville, 5.8 mi upstream from mouth, and 10 mi south of Auburn.
DRAINAGE AREA.--270 mi².
PERIOD OF RECORD.--October 1946 to current year.
REVISED RECORDS.--WSP 1912: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 780.09 ft above sea level. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	87	82	e53	e160	237	148	350	324	135	110	63
2	28	233	81	e54	e150	e170	142	287	346	126	92	58
3	38	483	77	e53	e140	142	136	243	357	121	81	55
4	58	340	74	e50	e130	145	132	218	311	113	71	60
5	47	217	e70	e48	e120	158	126	213	384	108	66	54
6	80	157	e64	e46	e120	223	119	298	401	101	62	49
7	61	150	e60	e45	e120	160	115	250	935	96	59	49
8	53	139	e56	e44	e150	162	109	218	588	95	56	69
9	45	118	e53	e44	578	153	105	209	497	91	53	73
10	42	106	e52	e44	382	124	100	1670	2060	86	52	58
11	39	240	e53	e44	257	101	98	1570	2070	81	49	51
12	36	626	e56	e43	163	108	99	862	1040	78	49	52
13	34	365	e61	e47	134	115	99	539	630	76	48	50
14	33	252	e73	e53	122	119	96	395	523	74	47	47
15	31	194	e100	e59	103	134	101	392	361	79	59	45
16	28	159	113	e67	91	141	113	648	270	82	49	45
17	29	140	100	161	98	133	109	3590	229	91	46	44
18	29	129	86	837	94	127	104	4240	1430	172	44	42
19	28	131	e80	1230	84	128	109	2770	2510	203	70	41
20	32	139	e75	645	83	159	1330	1500	1710	122	191	40
21	58	136	e68	418	83	187	1820	1110	947	98	1010	42
22	39	124	e68	272	82	173	1370	849	627	174	795	54
23	36	115	e61	204	84	163	1900	624	453	112	458	43
24	34	106	e58	542	93	205	1150	519	376	91	273	42
25	31	99	e57	426	103	368	731	440	297	96	183	39
26	30	94	e56	285	122	336	546	376	243	81	137	39
27	79	95	e55	254	335	223	428	484	209	73	114	74
28	131	94	e54	225	669	182	347	830	183	69	96	141
29	98	87	e54	e200	371	163	308	1000	164	80	85	96
30	75	85	e53	e190	---	156	352	611	147	113	76	69
31	75	---	e53	e170	---	152	---	411	---	134	70	---
TOTAL	1486	5440	2103	6853	5221	5247	12442	27716	20622	3251	4651	1684
MEAN	47.9	181	67.8	221	180	169	415	894	687	105	150	56.1
MAX	131	626	113	1230	669	368	1900	4240	2510	203	1010	141
MIN	28	85	52	43	82	101	96	209	147	69	44	39
CFSM	.18	.67	.25	.82	.67	.63	1.54	3.31	2.55	.39	.56	.21
IN.	.20	.75	.29	.94	.72	.72	1.71	3.82	2.84	.45	.64	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

MEAN	114	188	280	313	393	508	470	284	213	124	80.9	82.1
MAX	805	936	908	1393	1290	1724	1130	947	1046	515	327	477
(WY)	1955	1993	1967	1950	1959	1982	1950	1956	1981	1986	1990	1972
MIN	19.8	24.0	24.7	25.9	28.5	146	139	68.6	44.0	35.1	22.0	20.9
(WY)	1965	1965	1964	1963	1963	1957	1971	1958	1988	1953	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996	
ANNUAL TOTAL	65931		96716			
ANNUAL MEAN	181		264		254	
HIGHEST ANNUAL MEAN					485	1950
LOWEST ANNUAL MEAN					85.3	1964
HIGHEST DAILY MEAN	2850	Apr 11	4240	May 18	5220	Dec 31 1990
LOWEST DAILY MEAN	28	Oct 2	28	Oct 2	13	Oct 3 1949
ANNUAL SEVEN-DAY MINIMUM	30	Oct 14	30	Oct 14	18	Sep 27 1949
INSTANTANEOUS PEAK FLOW			4480	May 17	5580	Dec 30 1990
INSTANTANEOUS PEAK STAGE			11.48	May 17	13.38	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.67		.98		.94	
ANNUAL RUNOFF (INCHES)	9.08		13.33		12.76	
10 PERCENT EXCEEDS	356		615		600	
50 PERCENT EXCEEDS	100		113		114	
90 PERCENT EXCEEDS	39		45		32	

e Estimated

04180500 ST. JOSEPH RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat 41°10'41", long 85°03'19", in NW¼NE¼ sec.3, T.31 N., R.13 E., Allen County, Hydrologic Unit 04100003, on left bank 0.8 mi downstream from Ely Run, 1.3 mi upstream from Ely Bridge and Mayhew Road, 8.0 mi northeast of the Fort Wayne Court House.
DRAINAGE AREA.--1,060 mi².
PERIOD OF RECORD.--October 1983 to current year. July 1941 to September 1955 gage located 1.3 mi downstream at Ely Bridge.
GAGE.--Water-stage recorder. Datum of gage is 750.00 ft above sea level (levels by State of Indiana).
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	e500	e320	e160	e640	e1700	761	1730	1090	616	394	203
2	119	e650	e300	e165	e600	e1400	687	1680	978	607	337	194
3	126	e780	e290	e170	e560	1200	670	1600	e1000	499	289	165
4	145	e900	e270	e160	e540	916	608	1570	e990	424	211	161
5	144	e840	e250	e160	e520	939	530	1460	e980	408	206	150
6	171	e900	e210	e152	e490	1140	434	1530	922	350	229	150
7	155	e980	e190	e150	e480	882	427	1110	1790	310	208	152
8	146	e840	e160	e148	e500	707	422	1010	1490	288	187	158
9	166	e800	e150	e148	1340	585	419	877	1690	317	163	184
10	203	e960	e140	e145	1530	486	435	4050	4850	321	164	168
11	167	e1150	e130	e148	1270	520	378	4250	4870	206	162	151
12	143	e1400	e130	e150	1130	502	397	3160	3840	228	159	147
13	119	e1200	e150	e160	935	490	388	2810	3260	249	160	149
14	114	e1100	e172	e180	626	488	356	2690	2660	264	153	142
15	111	e1000	e181	e210	514	523	370	2720	1870	257	152	145
16	106	e980	e190	254	e430	605	599	3260	1240	235	138	145
17	105	e900	e190	445	e360	593	637	9760	1140	250	139	145
18	101	e800	e185	2220	e310	567	655	10500	3050	325	140	140
19	97	e700	e180	3110	262	555	680	12800	5200	458	146	140
20	103	e660	e175	2450	272	699	2570	10900	4620	309	342	137
21	105	e650	e170	1820	304	866	4460	7370	4280	258	1240	138
22	111	e620	e168	1550	273	904	4630	5640	4150	364	2190	162
23	103	e570	e166	1350	328	929	5450	4090	4140	265	2130	152
24	e102	e520	e164	1940	383	992	4370	3100	3850	207	1600	148
25	e100	e490	e162	1850	447	1690	3650	2440	3220	209	591	141
26	e120	e450	e160	1580	579	1810	3310	1860	2320	221	575	141
27	e270	e430	e158	e1300	1520	1530	2910	1800	1740	221	367	254
28	e220	e390	e156	e1100	2440	1200	2330	2430	1210	209	385	537
29	e200	e360	e154	e950	2100	1100	1880	2610	930	219	329	349
30	e410	e340	e152	e810	---	844	1660	1780	791	379	217	297
31	e340	---	e156	e700	---	812	---	1340	---	418	216	---
TOTAL	4743	22860	5729	25835	21683	28174	47073	113927	74161	9891	13919	5445
MEAN	153	762	185	833	748	909	1569	3675	2472	319	449	181
MAX	410	1400	320	3110	2440	1810	5450	12800	5200	616	2190	537
MIN	97	340	130	145	262	486	356	877	791	206	138	137
CFSM	.14	.72	.17	.79	.71	.86	1.48	3.47	2.33	.30	.42	.17
IN.	.17	.80	.20	.91	.76	.99	1.65	4.00	2.60	.35	.49	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

MEAN	582	1137	1204	1414	1541	1837	1805	1073	962	488	304	314
MAX	1984	3330	2421	4615	3315	3612	2843	3675	2915	1413	748	766
(WY)	1987	1993	1991	1993	1990	1985	1985	1996	1989	1986	1990	1992
MIN	78.6	163	167	305	310	909	607	272	153	122	125	81.5
(WY)	1995	1995	1990	1984	1995	1996	1986	1988	1988	1988	1988	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	243976		373440			
ANNUAL MEAN	668		1020		1052	
HIGHEST ANNUAL MEAN					1532	1993
LOWEST ANNUAL MEAN					642	1995
HIGHEST DAILY MEAN	7150	Apr 11	12800	May 19	13100	Feb 26 1985
LOWEST DAILY MEAN	97	Oct 19	97	Oct 19	43	Oct 17 1991
ANNUAL SEVEN-DAY MINIMUM	103	Oct 19	103	Oct 19	56	Oct 24 1994
INSTANTANEOUS PEAK FLOW			13100	May 19	13400	Jan 5 1993
INSTANTANEOUS PEAK STAGE			18.10	May 19	18.40	Jan 5 1993
ANNUAL RUNOFF (CFSM)	.63		.96		.99	
ANNUAL RUNOFF (INCHES)	8.56		13.11		13.48	
10 PERCENT EXCEEDS	1530		2620		2560	
50 PERCENT EXCEEDS	347		446		514	
90 PERCENT EXCEEDS	138		145		149	

e Estimated

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 downstream from bridge on U.S. Highway 27, 0.5 mi upstream from Holthouse Ditch, 1.3 mi north of Decatur, and at mile 29.1.
DRAINAGE AREA.--621 mi².
PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mi 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 above sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Grand Lake. Slight diversion from or into Wabash River Basin and into Miami and Erie Canals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	54	104	e59	537	2080	460	2080	2590	92	e1000	e35
2	28	85	98	e62	436	e1200	440	2020	1250	79	e580	e33
3	46	128	89	e66	356	e860	387	2140	704	71	e430	e32
4	35	178	83	e73	286	713	357	1750	499	62	e290	e31
5	44	229	79	e81	226	523	330	1380	396	56	e180	e30
6	98	261	75	e89	179	559	287	1730	389	51	e110	e30
7	273	281	e52	e90	153	468	254	1410	1200	51	e92	e30
8	400	385	e50	e92	167	401	219	1290	1120	48	e78	e32
9	663	349	e48	e94	292	e350	189	1600	1730	44	e71	e32
10	780	381	e46	e96	312	e300	171	1750	3230	41	e60	e32
11	629	601	e44	e97	e280	e270	154	2850	3270	37	e50	e33
12	366	885	e42	e97	e230	241	142	2750	2460	35	e44	e35
13	211	616	e42	e98	e200	199	140	2160	1540	35	e42	e36
14	138	674	e43	e100	e160	189	133	1930	1630	35	e40	e35
15	97	800	e45	e102	e135	205	125	1600	1390	40	e38	e35
16	75	827	e47	109	e120	246	130	1320	673	54	e36	e35
17	61	663	e50	482	e110	261	123	1290	432	59	e35	e37
18	55	460	e51	2780	e100	263	108	911	343	2390	e35	e38
19	51	386	e52	5340	e97	272	106	748	389	4380	e35	e37
20	55	351	e53	e5600	e95	1180	108	657	458	2990	e450	e35
21	51	355	e54	e5400	e98	1270	103	542	309	1740	e370	e42
22	53	332	e55	e4600	e103	1050	200	442	349	1410	e205	e56
23	49	285	e56	e3900	e110	1030	1330	334	281	931	e120	e54
24	48	238	e56	e3200	e125	1460	2240	700	185	499	e82	e45
25	49	199	e56	e2600	e140	1750	1860	2270	147	283	e68	e40
26	53	173	e56	e2100	e200	1480	2050	1830	120	e195	e51	e36
27	59	152	e56	e1700	1570	1390	2010	1690	107	e150	e46	e130
28	51	135	e57	e1350	2890	1440	1400	2830	142	e120	e49	e230
29	49	121	e58	e1020	2440	1170	1260	5460	143	e115	e51	e140
30	48	110	e58	852	---	824	2120	5800	114	e1200	e42	e94
31	54	---	e59	711	---	565	---	4260	---	e1800	e37	---
TOTAL	4697	10694	1814	43040	12147	24209	18936	59524	27590	19093	4817	1540
MEAN	152	356	58.5	1388	419	781	631	1920	920	616	155	51.3
MAX	780	885	104	5600	2890	2080	2240	5800	3270	4380	1000	230
MIN	28	54	42	59	95	189	103	334	107	35	35	30
CFSM	.24	.57	.09	2.24	.67	1.26	1.02	3.09	1.48	.99	.25	.08
IN.	.28	.64	.11	2.58	.73	1.45	1.13	3.57	1.65	1.14	.29	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

MEAN	127	316	558	735	880	1097	974	495	420	318	130	107
MAX	866	1988	2079	3834	2546	3263	3409	1920	2075	2674	848	1225
(WY)	1955	1993	1991	1950	1950	1978	1957	1996	1981	1992	1958	1992
MIN	7.52	13.7	12.8	21.0	30.5	125	79.3	55.6	28.1	20.6	15.5	12.6
(WY)	1964	1965	1964	1961	1964	1981	1966	1988	1988	1965	1963	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996	
ANNUAL TOTAL	141145		228101			
ANNUAL MEAN	387		623		507	
HIGHEST ANNUAL MEAN					879	1993
LOWEST ANNUAL MEAN					140	1966
HIGHEST DAILY MEAN	3760	Apr 11	5800	May 30	10600	Feb 15 1950
LOWEST DAILY MEAN	21	Jan 10	28	Oct 1	5.4	Oct 18 1960
ANNUAL SEVEN-DAY MINIMUM	24	Jan 5	31	Sep 3	6.2	Oct 12 1963
INSTANTANEOUS PEAK FLOW			6360	May 29	11300	Feb 10 1959
INSTANTANEOUS PEAK STAGE			21.21	May 29	24.40	Mar 14 1982
ANNUAL RUNOFF (CFSM)	.62		1.00		.82	
ANNUAL RUNOFF (INCHES)	8.46		13.66		11.09	
10 PERCENT EXCEEDS	967		1040		1500	
50 PERCENT EXCEEDS	138		175		128	
90 PERCENT EXCEEDS	34		40		22	

e Estimated

04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat 40°59'16", long 85°06'43", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, Hydrologic Unit 04100004, on left bank 130 ft downstream from Anthony Boulevard Extension, 0.8 mi downstream from Houk Ditch, 5 mi south of Fort Wayne, and 10.8 mi upstream from mouth.
DRAINAGE AREA.--762 mi².
PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307. Fragmentary gage-height records for period November 1924 to October 1927 are available from the District Office.
REVISED RECORDS.--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area. WDR IN-82-1: 1973, 1974, 1978, 1979.
GAGE.--Water-stage recorder. Datum of gage is 748.97 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Apr. 13, 1939, nonrecording gage on upstream highway bridge at same datum.
REMARKS.--Records good except for Oct. 1 - Nov. 30, which are fair, and estimated daily discharges, which are poor. 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. Period of record computations do not include 1934 water year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	57	102	e76	e640	2700	595	e2500	4690	114	1100	43
2	36	76	98	e80	e520	e1700	549	e2450	2240	95	670	40
3	42	103	91	e85	e430	e1200	497	e2500	1100	85	529	39
4	59	137	84	e96	e360	998	446	2380	713	76	354	39
5	52	184	e75	e105	e300	786	414	1810	560	68	222	38
6	54	241	e70	e110	e250	733	360	2060	461	63	148	37
7	152	281	e66	e113	e190	679	316	1950	1120	59	107	36
8	311	332	e62	e116	e210	510	279	1580	1500	61	97	39
9	552	376	e59	e118	e300	e460	238	1790	1870	57	91	40
10	785	356	e56	e120	e370	e420	210	2170	4040	52	71	38
11	750	511	e54	e120	e340	e380	e190	3250	4500	49	61	40
12	504	944	e52	e120	e290	375	e180	3620	4300	46	55	42
13	283	760	e52	e120	e250	262	e170	3020	2640	44	52	44
14	175	646	e54	e123	e220	235	e160	2500	1960	44	49	42
15	117	775	e56	e130	e180	245	e155	2190	2050	46	48	43
16	84	868	e60	e140	e150	293	e155	2180	1090	51	45	43
17	67	780	e63	545	e135	326	e140	2910	621	63	44	44
18	56	563	e65	3660	e125	327	e135	1610	514	2520	43	47
19	51	429	e66	e6000	e120	329	e130	1120	396	5520	43	44
20	52	372	e68	e6800	e120	1240	e130	901	608	5010	570	43
21	53	358	e69	e6600	e125	1770	e135	728	428	2890	423	45
22	51	352	e70	e6000	e130	1490	e280	582	351	1880	264	68
23	50	316	e71	e5000	e140	1340	e1400	451	426	1370	154	64
24	47	266	e71	e4000	e150	1760	e2800	520	273	781	116	53
25	47	221	e72	e3200	e160	2190	e2300	2630	196	451	90	46
26	47	186	e72	e2500	257	2020	e2350	2690	152	275	68	42
27	58	161	e72	e1900	1210	1690	e2400	2380	126	183	57	101
28	60	140	e72	e1500	3360	1780	e1900	3700	123	144	61	287
29	54	125	e72	e1150	3350	1570	e1600	6060	155	138	63	171
30	50	111	e72	e980	---	1130	e2000	7330	141	1530	55	103
31	55	---	e74	e770	---	789	---	6680	---	2200	47	---
TOTAL	4790	11027	2140	52377	14382	31727	22614	78242	39344	25965	5797	1801
MEAN	155	368	69.0	1690	496	1023	754	2524	1311	838	187	60.0
MAX	785	944	102	6800	3360	2700	2800	7330	4690	5520	1100	287
MIN	36	57	52	76	120	235	130	451	123	44	43	36
CFSM	.20	.48	.09	2.22	.65	1.34	.99	3.31	1.72	1.10	.25	.08
IN.	.23	.54	.10	2.56	.70	1.55	1.10	3.82	1.92	1.27	.28	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	151	331	616	867	1025	1318	1158	649	494	342	149	115
MAX	1299	2612	2349	4897	3404	4070	4119	3866	2545	2708	1074	1453
(WY)	1955	1973	1978	1950	1959	1978	1957	1943	1981	1992	1958	1992
MIN	8.28	16.9	16.7	21.3	45.4	87.0	90.7	59.9	34.3	11.9	13.9	11.6
(WY)	1964	1965	1964	1977	1964	1941	1946	1931	1988	1936	1932	1944

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	183491		290206			
ANNUAL MEAN	503		793		610	
HIGHEST ANNUAL MEAN					1093	1950
LOWEST ANNUAL MEAN					174	1966
HIGHEST DAILY MEAN	5160	Apr 11	7330	May 30	13000	May 19 1943
LOWEST DAILY MEAN	33	Sep 9	36	Oct 1	3.4	Oct 19 1934
ANNUAL SEVEN-DAY MINIMUM	34	Sep 6	38	Sep 4	4.9	Oct 15 1934
INSTANTANEOUS PEAK FLOW			7410	May 30	13600	Feb 11 1959
INSTANTANEOUS PEAK STAGE			14.60	May 30	19.66	Mar 14 1982
ANNUAL RUNOFF (CFSM)	.66		1.04		.80	
ANNUAL RUNOFF (INCHES)	8.96		14.17		10.88	
10 PERCENT EXCEEDS	1200		2410		1730	
50 PERCENT EXCEEDS	167		203		143	
90 PERCENT EXCEEDS	42		47		24	

e Estimated

04182810 SPY RUN CREEK AT FORT WAYNE, IN

LOCATION.--Lat 41°06'18", long 85°09'12", in SW¼SW¼ sec.26, T.31 N., R.12 E., Allen County, Hydrologic Unit 04100004, on right bank 50 ft upstream from Sherman Boulevard bridge in Fort Wayne, and at mile 2.2.
DRAINAGE AREA.--14.0 mi².
PERIOD OF RECORD.--October 1983 to current year.
GAGE.--Water-stage recorder. Datum of gage is 760.00 ft above sea level, (levels by City of Fort Wayne).
REMARKS.--Records good except for estimated daily discharges, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 14, 1982 reached a stage of 10.75 ft, present site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	17	e3.3	e2.7	3.1	9.4	10	14	8.5	3.7	9.9	1.6
2	3.9	84	e3.2	e3.2	2.6	e7.0	6.4	9.2	42	3.7	6.6	1.3
3	13	22	e3.1	e3.0	2.2	5.5	5.6	7.1	13	3.7	4.7	2.0
4	7.3	8.3	e3.0	e2.8	1.8	4.8	5.4	7.3	16	3.5	3.5	2.7
5	18	5.5	e2.9	e2.7	1.8	52	5.0	47	12	3.2	3.1	3.0
6	13	4.4	e2.8	e2.6	1.8	22	4.4	28	31	3.1	3.1	2.7
7	5.0	32	e2.7	e2.5	2.5	11	4.2	13	47	3.7	3.3	3.1
8	3.2	9.6	e2.6	e2.4	22	7.8	3.7	9.9	13	4.2	3.0	4.4
9	2.4	6.0	e2.5	e2.3	13	5.7	3.7	26	63	3.7	2.7	11
10	2.4	5.2	e2.4	e2.2	9.7	5.2	3.4	65	193	3.5	2.5	5.1
11	2.5	70	e2.3	e2.1	10	5.4	3.3	39	44	3.4	2.3	3.5
12	2.5	20	e2.3	e2.0	5.3	5.7	3.2	19	24	3.5	2.4	2.9
13	2.3	9.0	e2.6	e2.0	4.1	6.4	4.7	11	14	3.3	2.4	2.5
14	2.6	6.8	e4.7	e2.3	3.9	7.1	4.6	9.2	12	3.2	2.4	2.3
15	3.2	6.3	10	e3.2	e3.5	9.1	14	40	8.3	10	2.5	2.0
16	3.0	5.3	6.1	e5.6	e3.2	8.1	9.9	226	6.7	5.2	2.5	2.0
17	2.8	4.6	4.6	90	e3.0	6.6	6.7	112	14	6.5	2.3	2.2
18	2.9	5.5	e4.0	124	e2.8	6.2	4.9	28	78	140	2.1	1.9
19	3.4	4.6	e3.7	93	2.8	9.8	13	15	141	20	15	1.8
20	19	4.2	e3.5	15	3.4	37	8.4	10	21	8.3	28	2.2
21	8.6	3.8	e3.2	8.8	3.9	23	6.0	9.4	14	14	92	20
22	4.0	3.7	e3.1	6.9	4.3	15	81	6.5	12	15	10	14
23	2.6	3.6	e2.9	34	4.8	13	46	11	7.7	6.5	9.3	4.9
24	2.6	3.3	e2.8	57	5.9	13	21	18	12	6.0	5.5	3.4
25	2.8	3.2	e2.6	14	5.7	34	15	11	6.9	6.2	3.8	2.6
26	2.7	3.2	e2.5	9.5	17	12	18	5.7	5.3	4.2	3.5	7.0
27	36	3.3	e2.4	27	127	7.7	9.6	114	4.9	3.4	2.9	94
28	10	3.7	e2.3	8.8	39	6.9	7.5	38	4.6	12	2.9	34
29	7.0	3.5	e2.2	6.4	14	7.3	12	170	4.2	26	2.7	9.6
30	5.1	e3.4	e2.2	4.9	---	6.4	33	23	3.9	119	2.6	5.7
31	22	---	e2.4	4.0	---	6.0	---	12	---	19	2.0	---
TOTAL	219.1	365.0	100.9	546.9	324.1	376.1	373.6	1154.3	877.0	470.7	241.5	255.4
MEAN	7.07	12.2	3.25	17.6	11.2	12.1	12.5	37.2	29.2	15.2	7.79	8.51
MAX	36	84	10	124	127	52	81	226	193	140	92	94
MIN	2.3	3.2	2.2	2.0	1.8	4.8	3.2	5.7	3.9	3.1	2.0	1.3
CFSM	.50	.87	.23	1.26	.80	.87	.89	2.66	2.09	1.08	.56	.61
IN.	.58	.97	.27	1.45	.86	1.00	.99	3.07	2.33	1.25	.64	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

MEAN	13.2	21.9	20.5	17.0	22.4	24.6	24.3	15.8	14.6	16.6	8.54	11.1
MAX	43.7	61.3	66.2	48.9	64.6	46.6	45.7	37.2	34.3	48.3	21.7	39.8
(WY)	1992	1993	1991	1993	1990	1984	1994	1996	1989	1986	1990	1993
MIN	2.79	9.59	3.03	3.76	5.32	11.4	8.56	4.15	2.16	3.85	4.10	3.94
(WY)	1988	1995	1990	1984	1989	1987	1986	1988	1988	1991	1984	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	5081.0		5304.6			
ANNUAL MEAN	13.9		14.5		17.5	
HIGHEST ANNUAL MEAN					25.6	1993
LOWEST ANNUAL MEAN					11.5	1987
HIGHEST DAILY MEAN	418	Jul 16	226	May 16	748	Feb 22 1990
LOWEST DAILY MEAN	1.9	Feb 13	1.3	Sep 2	.93	Jul 9 1990
ANNUAL SEVEN-DAY MINIMUM	2.2	Feb 8	2.1	Sep 14	1.1	Jan 15 1994
INSTANTANEOUS PEAK FLOW			712	May 16	1370	Feb 22 1990
INSTANTANEOUS PEAK STAGE			8.39	May 16	10.68	Feb 22 1990
ANNUAL RUNOFF (CFSM)	.99		1.04		1.25	
ANNUAL RUNOFF (INCHES)	13.50		14.10		16.98	
10 PERCENT EXCEEDS	23		33		33	
50 PERCENT EXCEEDS	5.1		5.4		5.5	
90 PERCENT EXCEEDS	2.6		2.4		2.5	

e Estimated

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 upstream from bridge on Landin Road, 1,400 ft upstream from the Norfolk and Western Railroad bridge, 1.1 mi northwest of New Haven, 2.8 mi upstream from Sixmile Creek and at mile 129.0.
DRAINAGE AREA.--1,967 mi².

WATER-DISCHARGE RECORDS

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 above sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft downstream at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 mi upstream from station. Flow slightly regulated by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	386	614	e330	e1150	5330	1640	5120	7320	1020	2130	287
2	147	886	606	e320	e1050	e3800	1420	4640	4760	920	1400	239
3	171	1230	571	e290	e1000	e2700	1360	4660	2740	840	1140	233
4	179	1380	537	e270	e970	2140	1300	4520	2100	703	857	198
5	278	1240	523	e270	e930	2180	1190	3950	1850	455	606	198
6	322	1490	436	e280	e900	2220	1010	3950	1690	448	501	183
7	240	1590	e400	e290	e900	1870	899	3680	2970	546	435	184
8	444	1400	e330	e300	912	1330	853	2980	3560	540	364	212
9	647	1270	e280	e310	1140	1120	792	2990	3640	495	329	292
10	1000	1170	e250	e320	1610	1100	e730	5630	10100	366	279	256
11	1060	1590	e240	e325	1520	1300	e660	8380	10600	138	251	222
12	835	2430	e240	e325	1540	1110	594	7740	10500	275	246	195
13	558	2610	e290	e325	1240	1010	674	6830	7740	299	216	180
14	324	2220	e320	e325	1140	943	631	5890	5490	324	207	187
15	265	2160	e330	e325	960	961	631	5770	4750	455	189	177
16	202	2130	e340	335	e770	1080	832	6180	3120	361	192	178
17	172	1930	e340	908	e630	1140	956	12100	2130	340	175	178
18	160	1630	e340	4050	579	1140	964	12800	3760	3430	175	180
19	148	1290	e340	9380	542	1160	1060	13600	6460	6760	185	166
20	258	1260	e340	e7200	544	2040	1980	13700	5960	6240	514	136
21	238	1280	e340	e5200	523	3130	4640	10200	5090	4340	1870	134
22	196	1240	e340	e4000	631	2780	5140	6930	4790	2840	2620	298
23	174	1220	e330	e3500	484	2540	6670	5330	4780	2100	2490	246
24	167	1120	e320	e4100	663	2850	8030	4310	4520	1440	1910	198
25	172	1000	e320	e3700	777	4010	7250	5020	3850	1110	1280	187
26	167	912	e315	e3400	1040	4460	6590	5400	2840	769	762	224
27	455	805	e315	e3300	2400	3550	6140	5010	2240	558	584	956
28	368	706	e300	e2800	6220	3250	5260	7030	1650	503	563	1220
29	341	667	e300	e2000	6290	3050	3980	10400	1400	533	495	865
30	608	641	e305	e1600	---	2370	4300	10300	1230	2190	402	485
31	260	---	e320	e1300	---	1880	---	9290	---	3550	303	---
TOTAL	10701	40883	11172	61378	39055	69544	78176	214330	133630	44888	23670	8894
MEAN	345	1363	360	1980	1347	2243	2606	6914	4454	1448	764	296
MAX	1060	2610	614	9380	6290	5330	8030	13700	10600	6760	2620	1220
MIN	145	386	240	270	484	943	594	2980	1230	138	175	134
CFSM	.18	.69	.18	1.01	.68	1.14	1.32	3.51	2.26	.74	.39	.15
IN.	.20	.77	.21	1.16	.74	1.32	1.48	4.05	2.53	.85	.45	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

MEAN	555	1277	2066	1903	2615	3701	3454	1889	1546	1007	525	495
MAX	3087	6523	6292	7203	7649	11460	7955	6914	6480	3988	2119	2737
(WY)	1987	1993	1968	1993	1976	1982	1957	1996	1981	1992	1958	1992
MIN	62.3	102	96.4	119	161	1181	789	382	122	197	99.1	91.2
(WY)	1964	1965	1964	1963	1964	1981	1971	1988	1988	1964	1962	1963

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1957 - 1996	
ANNUAL TOTAL	497343		736321			
ANNUAL MEAN	1363		2012		1747	
HIGHEST ANNUAL MEAN					2975	1993
LOWEST ANNUAL MEAN					669	1963
HIGHEST DAILY MEAN	13500	Apr 11	13700	May 20	26300	Mar 17 1982
LOWEST DAILY MEAN	128	Sep 21	134	Sep 21	48	Oct 6 1963
ANNUAL SEVEN-DAY MINIMUM	147	Sep 20	164	Sep 15	55	Oct 4 1963
INSTANTANEOUS PEAK FLOW			14400	May 19	26600	Mar 17 1982
INSTANTANEOUS PEAK STAGE			18.50	May 19	25.49	Mar 17 1982
ANNUAL RUNOFF (CFSM)	.69		1.02		.89	
ANNUAL RUNOFF (INCHES)	9.41		13.93		12.07	
10 PERCENT EXCEEDS	2990		5430		4740	
50 PERCENT EXCEEDS	739		960		758	
90 PERCENT EXCEEDS	207		210		153	

e Estimated

04183000 MAUMEE RIVER AT NEW HAVEN, IN

(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

WATER-QUALITY RECORDS

The goal of the National Water-Quality Program (NAWQA) is to describe the status and trends in the quality of a large, representative part of the Nation's surface- and ground-water resources. The Lake Erie study unit began in October 1993. The period of record is for the 1996 water year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DISSOLVED (PERCENT SATURATION) (00301)
MAR									
06	1230	2220	551	7.7	-2.5	0.5	739	12.9	93
APR									
15	1130	578	767	8.2	9.0	11.0	730	10.5	100
29	1015	3970	499	7.8	10.5	10.5	735	10.1	94
MAY									
06	1145	3940	534	7.9	19.0	12.5	750	9.9	95
JUN									
03	1300	2660	527	7.7	17.5	18.5	739	7.6	84
21	0815	5050	393	7.6	26.5	22.0	740	7.3	86
JUL									
18	1330	4080	601	7.6	31.0	23.0	742	6.7	81
AUG									
26	1130	775	488	7.7	29.0	24.0	743	6.7	81
SEPT									
09	1300	338	759	7.7	21.0	23.5	740	6.8	83

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
MAR									
06	1600	--	80	62	17	23	4.2	177	145
APR									
15	290	160	110	85	25	32	3.7	253	207
29	800	620	74	61	15	12	4.1	171	140
MAY									
06	1300	1300	75	62	16	15	3.3	178	146
JUN									
03	--	--	70	64	16	13	3.2	190	156
21	--	K1700	33	48	11	8.4	4.9	161	132
JUL									
18	K52	210	40	42	12	21	4.4	139	114
AUG									
26	580	520	60	54	14	20	5.1	161	132
SEP									
09	4700	6300	87	69	21	43	6.6	209	172

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR									
06	55	42	0.2	6.4	334	0.04	4.7	0.29	1.3
APR									
15	95	58	0.4	2.3	456	0.03	3.7	0.04	0.8
29	47	25	0.2	6.9	308	0.06	6.4	0.12	1.4
MAY									
06	53	30	0.2	6.2	308	0.05	3.2	<0.015	1.1
JUN									
03	47	24	0.3	7.2	316	0.06	4.4	0.06	1.1
21	28	16	0.3	6.7	242	0.08	3.2	0.11	1.4
JUL									
18	50	31	0.4	5.2	257	0.04	2.1	0.16	1.7
AUG									
26	52	33	0.3	6.3	293	0.04	2.6	<0.015	1.1
SEP									
09	83	62	0.6	6.4	437	0.03	3.0	0.08	1.3

04183000 MAUMEE RIVER AT NEW HAVEN, IN --Continued
(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAR										
06	1.2	0.21	0.11	0.09	32	21	11	2.1	--	--
APR										
15	0.60	0.09	0.04	0.03	25	5.0	9.4	2.7	35	55
29	1.0	0.26	0.09	0.10	31	10	--	--	93	996
MAY										
06	0.80	0.23	0.10	0.08	20	9.0	7.9	2.4	96	1020
JUN										
03	0.80	0.19	0.11	0.10	27	14	9.4	2.7	109	782
21	0.80	0.33	0.11	0.09	59	3.0	9.6	4.0	169	2300
JUL										
18	0.70	0.46	0.09	0.11	22	26	6.0	1.7	342	3770
AUG										
26	0.70	0.23	0.09	0.09	20	12	7.4	2.6	94	197
SEP										
09	0.60	0.22	0.11	0.10	14	13	6.8	3.2	53	49

DATE	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZINPHOS WAT FLT 0.7 UM-GF, REC (UG/L) (82686)	BENFLURALIN WAT FLD 0.7 UM-GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 UM-GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)
MAR										
06	<0.002	0.01	0.13	E0.02	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
APR										
15	0.09	0.06	0.65	E0.04	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
29	--	--	--	--	--	--	--	--	--	--
MAY										
06	0.06	0.04	0.49	E0.05	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
JUN										
03	0.56	0.20	3.3	E0.06	<0.001	<0.002	<0.002	E0.007	<0.003	<0.02
21	2.6	3.6	13	E0.18	<0.001	<0.002	<0.002	<0.003	E0.19	0.09
JUL										
18	0.03	0.62	1.3	E0.05	<0.001	<0.002	<0.002	E0.02	<0.003	0.02
AUG										
26	0.04	0.18	0.97	E0.09	<0.001	<0.002	<0.002	<0.003	<0.003	0.01
SEP										
09	<0.002	0.04	0.52	E0.04	<0.001	<0.002	<0.002	E0.14	<0.003	0.007

DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 UM-GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	2,6-DIETHYL ANILINE WAT FLT 0.7 UM-GF, REC (UG/L) (82660)	DISULFOTON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 UM-GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 UM-GF,REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 UM-GF,REC (UG/L) (82672)
MAR										
06	0.04	<0.002	<0.006	<0.002	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
APR										
15	0.24	<0.002	<0.006	0.011	<0.001	<0.003	<0.02	0.011	<0.004	<0.003
29	--	--	--	--	--	--	--	--	--	--
MAY										
06	0.23	<0.002	<0.006	0.03	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
JUN										
03	0.87	<0.002	<0.006	0.02	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
21	1.8	<0.002	<0.006	0.006	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
JUL										
18	0.14	<0.002	<0.006	0.07	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
AUG										
26	0.17	<0.002	<0.006	0.007	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003
SEP										
09	0.12	<0.002	<0.006	<0.002	<0.001	<0.003	<0.02	<0.002	<0.004	<0.003

04183000 MAUMEE RIVER AT NEW HAVEN, IN --Continued
(National Water-Quality Assessment Program, Lake Erie-Lake St. Clair Basin Study Unit)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)
MAR										
06	<0.003	<0.002	<0.004	<0.002	<0.005	0.13	<0.004	<0.004	<0.003	<0.004
APR										
15	<0.003	<0.002	<0.004	<0.002	<0.005	1.4	0.34	<0.004	<0.003	<0.004
29	--	--	--	--	--	--	--	--	--	--
MAY										
06	<0.003	<0.002	<0.004	<0.002	<0.005	0.83	0.16	<0.004	<0.003	<0.004
JUN										
03	<0.003	<0.002	<0.004	<0.002	<0.005	4.5	0.13	<0.004	<0.003	<0.004
21	0.005	<0.002	<0.004	0.44	0.009	9.1	0.58	<0.004	<0.003	<0.004
JUL										
18	<0.003	<0.002	<0.004	<0.002	<0.005	7.5	0.57	<0.004	<0.003	<0.004
AUG										
26	<0.003	<0.002	<0.004	E0.08	<0.005	1.9	0.15	<0.004	<0.003	<0.004
SEP										
09	<0.003	<0.002	<0.004	<0.002	<0.005	0.49	0.03	<0.004	<0.003	<0.004

DATE	METHYL PARA-THION WAT FLT 0.7 UM-GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 UM-GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 UM-GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 UM-GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82676)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82685)
MAR										
06	<0.006	<0.004	<0.004	<0.005	<0.002	0.03	<0.003	<0.007	<0.004	<0.01
APR										
15	<0.006	<0.004	<0.008	<0.005	<0.002	0.02	<0.003	<0.007	<0.004	<0.01
29	--	--	--	--	--	--	--	--	--	--
MAY										
06	<0.006	<0.004	<0.004	<0.005	<0.002	0.02	<0.003	<0.007	<0.004	<0.01
JUN										
03	<0.006	<0.004	<0.004	<0.005	<0.002	0.04	<0.003	<0.007	<0.004	<0.01
21	<0.006	<0.004	0.09	<0.005	<0.002	0.07	<0.003	<0.007	<0.004	<0.01
JUL										
18	<0.006	<0.004	<0.004	<0.005	<0.002	0.22	<0.003	<0.007	<0.004	<0.01
AUG										
26	<0.006	<0.004	<0.004	<0.005	<0.002	0.07	<0.003	<0.007	<0.004	<0.01
SEP										
09	<0.006	<0.004	<0.004	<0.005	<0.002	0.13	<0.003	<0.007	<0.004	<0.01

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 UM-GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 UM-GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 UM-GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 UM-GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 UM-GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 UM-GF, REC (UG/L) (82661)
MAR							
06	0.02	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
APR							
15	0.27	E0.011	<0.007	<0.01	<0.002	<0.001	<0.002
29	--	--	--	--	--	--	--
MAY							
06	0.19	0.01	<0.007	<0.01	<0.002	<0.001	<0.002
JUN							
03	0.23	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
21	0.45	0.02	<0.007	<0.01	<0.002	<0.001	<0.002
JUL							
18	0.08	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002
AUG							
26	0.09	0.01	<0.007	<0.01	<0.002	<0.001	<0.002
SEP							
09	0.06	<0.01	<0.007	<0.01	<0.002	<0.001	<0.002

-- = no data
< = concentration or value reported is less than that indicated
E = estimated value is greater than the limit of detection but less than the lower limit of quantitation
K = value is estimated from a non-ideal colony count

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 mi upstream from Little Kankakee River, 4 mi northwest of North Liberty, and at mile 126.9.
DRAINAGE AREA.--174 mi², of which 58.2 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--January 1951 to current year.
REVISED RECORDS.--WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 680.04 ft above sea level (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 above 300 ft³/s (backwater) and for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	168	163	122	e131	171	113	158	273	230	498	136
2	111	200	158	120	e129	160	112	145	299	222	442	135
3	115	242	157	120	e127	147	112	138	305	216	401	e133
4	117	202	152	119	e125	140	110	137	270	205	361	e132
5	115	182	151	117	e123	146	108	135	248	199	322	e130
6	115	169	148	116	e122	142	108	132	261	194	291	e126
7	115	161	146	114	e120	135	107	128	325	196	267	e130
8	113	152	140	114	e130	133	105	127	304	203	259	e133
9	113	146	138	115	e160	129	105	134	290	196	251	e130
10	112	152	e136	112	e130	126	103	632	682	183	235	e127
11	109	425	e134	113	127	129	102	722	670	170	224	e125
12	109	502	e132	113	121	136	103	635	630	165	216	e122
13	109	400	e128	111	119	139	105	549	545	166	203	e140
14	110	329	e130	111	119	143	102	470	485	163	195	e160
15	109	292	140	109	115	148	108	415	428	172	211	e150
16	108	266	140	111	112	146	112	402	372	178	200	e144
17	108	246	137	122	112	141	108	580	360	168	192	e140
18	109	238	137	149	110	135	105	526	649	702	186	e136
19	107	246	136	189	110	133	111	434	732	884	180	e133
20	122	238	134	168	110	130	125	358	639	854	174	e130
21	137	225	132	153	111	128	126	361	555	806	171	e132
22	132	211	131	145	112	128	229	317	486	745	172	e134
23	126	202	130	143	116	126	361	290	422	678	186	e136
24	125	191	129	149	121	125	266	263	391	626	177	e134
25	121	187	129	140	121	126	213	253	351	592	170	e130
26	120	183	128	139	122	123	188	240	301	534	163	e131
27	143	181	127	163	167	120	171	248	278	471	158	e160
28	152	176	125	157	234	119	158	285	264	419	150	e172
29	147	170	124	149	191	117	165	430	251	443	152	e163
30	141	166	123	139	---	115	169	412	241	555	146	e156
31	150	---	124	134	---	115	---	329	---	552	141	---
TOTAL	3730	6848	4239	4076	3747	4151	4210	10385	12307	12087	7094	4140
MEAN	120	228	137	131	129	134	140	335	410	390	229	138
MAX	152	502	163	189	234	171	361	722	732	884	498	172
MIN	107	146	123	109	110	115	102	127	241	163	141	122
CFSM	.69	1.31	.79	.76	.74	.77	.81	1.93	2.36	2.24	1.32	.79
IN.	.80	1.46	.91	.87	.80	.89	.90	2.22	2.63	2.58	1.52	.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

MEAN	138	158	170	167	176	222	215	181	158	128	108	107
MAX	333	303	341	367	298	471	310	335	410	390	273	222
(WY)	1994	1991	1991	1991	1991	1982	1985	1996	1996	1996	1995	1993
MIN	70.1	67.3	77.5	78.0	76.3	112	112	98.4	84.0	64.2	63.1	64.4
(WY)	1954	1965	1961	1961	1963	1957	1987	1958	1971	1971	1964	1953

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	65411		77014			
ANNUAL MEAN	179		210		160	
HIGHEST ANNUAL MEAN					245	1991
LOWEST ANNUAL MEAN					95.4	1964
HIGHEST DAILY MEAN	636	Aug 4	884	Jul 19	903	Mar 17 1982
LOWEST DAILY MEAN	102	Jun 23	102	Apr 11	44	Aug 4 1988
ANNUAL SEVEN-DAY MINIMUM	106	Jun 19	104	Apr 8	51	Sep 7 1964
INSTANTANEOUS PEAK FLOW			891	Jul 19	908	Mar 17 1982
INSTANTANEOUS PEAK STAGE			8.84	Jul 19	9.04	Jun 27 1968
ANNUAL RUNOFF (CFSM)	1.03		1.21		.92	
ANNUAL RUNOFF (INCHES)	13.98		16.47		12.52	
10 PERCENT EXCEEDS	254		426		262	
50 PERCENT EXCEEDS	161		146		139	
90 PERCENT EXCEEDS	115		112		82	

e Estimated

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 mi downstream from Mill Creek, 4 mi east of Hanna, and at mile 110.9.
DRAINAGE AREA.--537 mi², of which 137 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--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 above sea level. July 13, 1905, to July 21, 1906, nonrecording gage at site 50 ft downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mi downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	430	483	358	e380	540	387	658	943	683	1540	423
2	358	487	473	359	e370	493	379	605	910	647	1480	416
3	357	595	462	348	e365	441	371	557	916	617	1400	414
4	370	575	453	343	e360	426	368	534	853	582	1320	410
5	372	524	448	344	e350	431	363	515	801	554	1240	406
6	367	489	437	338	e345	447	363	508	766	529	1170	398
7	361	464	426	332	e340	420	358	493	861	509	1090	401
8	359	439	415	324	e365	406	348	479	869	501	1070	404
9	353	418	385	331	e465	401	347	478	824	488	1020	404
10	345	419	e370	332	396	394	345	1000	1010	469	955	399
11	342	751	e365	330	385	396	339	1390	1260	445	886	391
12	340	1060	e360	332	372	409	337	1400	1310	428	851	404
13	339	1040	e360	336	358	440	345	1380	1290	421	793	449
14	337	942	e385	339	356	450	342	1290	1200	416	745	495
15	334	859	e400	333	351	458	350	1200	1120	422	718	475
16	334	789	e410	327	343	472	373	1120	1020	426	688	454
17	328	729	416	346	338	465	370	1130	999	431	655	438
18	327	689	409	406	334	450	362	1150	1320	1230	627	424
19	323	675	406	485	336	442	365	1100	1560	1650	603	416
20	343	669	395	498	337	440	455	1000	1550	1620	573	407
21	390	642	391	466	340	425	537	959	1500	1620	557	409
22	387	612	386	434	343	416	684	918	1420	1640	553	419
23	370	588	380	427	354	407	1050	841	1320	1640	548	420
24	360	561	375	433	374	412	1020	797	1230	1630	539	414
25	345	539	372	432	372	412	913	757	1130	1630	516	405
26	332	530	370	419	369	403	819	710	1020	1600	495	411
27	374	524	366	423	423	388	729	716	921	1560	487	494
28	413	514	364	438	646	382	654	851	844	1500	473	539
29	400	499	359	429	619	395	659	1030	783	1460	463	518
30	389	491	357	393	---	389	689	1120	726	1540	447	486
31	400	---	358	e386	---	385	---	1040	---	1570	436	---
TOTAL	11107	18543	12336	11821	11086	13235	15021	27726	32276	30458	24938	12943
MEAN	358	618	398	381	382	427	501	894	1076	983	804	431
MAX	413	1060	483	498	646	540	1050	1400	1560	1650	1540	539
MIN	323	418	357	324	334	382	337	478	726	416	436	391
CFSM	.67	1.15	.74	.71	.71	.80	.93	1.67	2.00	1.83	1.50	.80
IN.	.77	1.28	.85	.82	.77	.92	1.04	1.92	2.24	2.11	1.73	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

MEAN	412	481	522	546	578	715	743	632	529	425	364	351
MAX	1162	988	1190	1275	990	1376	1218	1067	1076	983	804	718
(WY)	1955	1991	1928	1993	1991	1985	1982	1983	1996	1996	1996	1972
MIN	198	230	236	235	236	325	420	296	248	205	174	179
(WY)	1964	1965	1964	1963	1964	1934	1987	1934	1934	1934	1941	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1926 - 1996	
ANNUAL TOTAL	201322		221490			
ANNUAL MEAN	552		605		524	
HIGHEST ANNUAL MEAN					823	1991
LOWEST ANNUAL MEAN					293	1964
HIGHEST DAILY MEAN	1250	Apr 12	1650	Jul 19	1920	Mar 20 1982
LOWEST DAILY MEAN	323	Oct 19	323	Oct 19	154	Aug 30 1941
ANNUAL SEVEN-DAY MINIMUM	332	Oct 13	331	Jan 7	156	Aug 28 1941
INSTANTANEOUS PEAK FLOW			1650	Jul 19	1920	Mar 20 1982
INSTANTANEOUS PEAK STAGE			13.79	Jul 19	13.79	Jul 19 1996
ANNUAL RUNOFF (CFSM)	1.03		1.13		.98	
ANNUAL RUNOFF (INCHES)	13.95		15.34		13.26	
10 PERCENT EXCEEDS	826		1160		895	
50 PERCENT EXCEEDS	514		440		451	
90 PERCENT EXCEEDS	366		345		278	

e Estimated

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 upstream from LaPorte Street footbridge in Plymouth, 1.1 mi downstream from Elmer Seltenright (formerly Baker) Ditch, 8.1 mi upstream from Wolf Creek, and at mile 40.3.
DRAINAGE AREA.--294 mi², of which 22 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--July 1948 to current year.
REVISED RECORDS.--WSP 1338: 1950-51. WSP 2115: Drainage area. WDR IN-73-1: 1972(M).
GAGE.--Water-stage recorder. Datum of gage is 764.78 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	79	113	e53	e92	377	102	483	1100	171	564	71
2	38	110	109	e52	e80	254	96	353	765	162	325	70
3	46	198	103	e52	e70	168	93	285	580	156	250	68
4	51	166	99	e51	e58	164	94	252	434	146	217	67
5	47	119	94	e50	e54	184	90	236	362	138	195	65
6	44	98	92	e49	e52	208	83	243	468	132	176	65
7	46	87	83	e48	e56	142	83	228	823	127	163	67
8	44	80	79	e47	e70	145	80	212	960	151	153	76
9	44	72	69	e46	170	120	78	277	811	142	144	85
10	42	81	e68	e45	163	123	75	1110	1090	123	133	76
11	42	398	66	e44	162	119	73	1830	1570	115	127	73
12	40	792	67	e43	122	121	74	2300	1870	110	126	77
13	39	896	71	e42	91	130	75	2350	1720	104	116	77
14	39	580	82	e41	97	139	73	1990	1280	102	108	76
15	39	331	115	e45	83	155	83	1440	854	104	110	73
16	40	271	119	51	71	170	104	1080	471	199	105	95
17	42	230	104	87	65	160	100	1290	381	207	102	98
18	38	210	95	243	e62	154	94	2050	937	1200	97	89
19	38	218	93	396	e60	152	111	2420	1430	2300	92	82
20	52	219	81	246	e66	156	474	2310	1770	2890	90	76
21	61	199	e76	206	75	150	746	1760	1720	3050	107	106
22	55	179	e72	156	74	132	890	1280	1300	2760	129	130
23	51	162	e68	144	77	122	1250	973	824	2160	117	109
24	42	148	e64	184	92	114	1650	673	492	1510	108	90
25	41	138	e62	176	101	120	1540	482	369	1020	97	79
26	43	135	e58	161	102	114	1110	383	276	621	90	88
27	60	134	e57	195	260	100	689	431	242	377	85	166
28	66	130	e56	160	741	101	395	807	220	301	82	192
29	60	118	e56	170	797	101	416	1380	202	277	80	146
30	60	113	e55	123	---	101	566	1620	187	469	77	116
31	66	---	e54	e105	---	100	---	1500	---	714	74	---
TOTAL	1453	6691	2480	3511	4063	4596	11387	34028	25508	22038	4439	2748
MEAN	46.9	223	80.0	113	140	148	380	1098	850	711	143	91.6
MAX	66	896	119	396	797	377	1650	2420	1870	3050	564	192
MIN	37	72	54	41	52	100	73	212	187	102	74	65
CFSM	.16	.76	.27	.39	.48	.50	1.29	3.73	2.89	2.42	.49	.31
IN.	.18	.85	.31	.44	.51	.58	1.44	4.31	3.23	2.79	.56	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	153	196	273	304	365	529	498	300	250	173	109	93.9
MAX	1583	689	733	1244	1007	1586	1190	1098	850	711	494	536
(WY)	1955	1993	1983	1993	1959	1982	1950	1996	1996	1996	1958	1972
MIN	23.7	20.9	30.4	26.5	35.7	79.5	99.8	65.4	51.2	39.4	31.2	22.4
(WY)	1965	1965	1954	1963	1963	1957	1971	1958	1988	1988	1949	1949

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	97395		122942			
ANNUAL MEAN	267		336		270	
HIGHEST ANNUAL MEAN					453	1993
LOWEST ANNUAL MEAN					119	1957
HIGHEST DAILY MEAN	2020	Apr 12	3050	Jul 21	5310	Oct 13 1954
LOWEST DAILY MEAN	37	Oct 1	37	Oct 1	13	Dec 3 1964
ANNUAL SEVEN-DAY MINIMUM	39	Oct 13	39	Oct 13	15	Dec 2 1964
INSTANTANEOUS PEAK FLOW			3070	Jul 21	5390	Oct 12 1954
INSTANTANEOUS PEAK STAGE			13.87	Jul 21	17.13	Oct 12 1954
ANNUAL RUNOFF (CFSM)	.91		1.14		.92	
ANNUAL RUNOFF (INCHES)	12.32		15.56		12.47	
10 PERCENT EXCEEDS	613		1080		681	
50 PERCENT EXCEEDS	156		116		130	
90 PERCENT EXCEEDS	54		52		38	

e Estimated

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 upstream from bridge on U.S. Highway 35 in Knox, 1.4 mi downstream from Eagle Creek, and at mile 11.6.
DRAINAGE AREA.--435 mi², of which 51 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--August 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 above sea level (levels by State of Indiana, Department of Natural Resources). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	151	206	e105	e180	762	202	737	1690	341	946	190
2	107	168	205	e104	e160	490	201	656	1380	317	811	191
3	115	210	201	e103	e140	380	197	535	991	299	595	186
4	123	266	196	e101	e120	311	194	467	790	284	504	177
5	127	255	194	e100	e110	292	194	429	660	271	446	176
6	124	205	186	e99	105	322	190	426	612	258	409	178
7	121	185	182	e96	107	337	182	417	802	249	381	182
8	121	172	175	e95	139	265	178	395	948	237	387	198
9	121	162	128	e93	176	276	175	383	1030	251	362	213
10	120	159	e125	e91	249	258	173	582	1180	234	335	210
11	118	249	e124	e89	260	227	171	1080	1330	214	316	198
12	117	551	e122	e88	256	226	167	1510	1660	204	307	197
13	116	742	e121	e85	e185	229	167	1940	1960	198	298	204
14	114	830	e140	e83	e195	241	167	2140	1950	196	289	205
15	111	763	195	e91	e170	254	176	2030	1580	202	283	199
16	111	504	204	e102	e150	271	196	1680	1050	270	279	207
17	113	414	204	143	e130	281	205	1310	730	384	270	222
18	114	361	194	201	e125	284	202	1260	844	1070	260	208
19	114	335	187	352	e120	276	207	1700	1150	2260	251	200
20	122	337	e164	495	e134	272	336	2100	1460	2820	242	199
21	134	333	e150	423	166	270	663	2210	1800	2940	255	201
22	138	309	e140	314	167	257	902	1940	1900	3140	275	257
23	137	287	e135	272	167	235	1090	1480	1580	3010	285	254
24	130	268	e130	271	171	223	1170	1120	1040	2570	276	227
25	122	254	e122	328	183	217	1430	840	714	2030	256	206
26	120	242	e117	282	193	217	1570	658	578	1510	239	207
27	132	236	e114	292	225	211	1310	595	487	997	228	259
28	143	234	e112	392	442	202	915	759	439	731	221	333
29	144	228	e110	323	726	204	661	1190	404	627	212	325
30	143	212	e109	e270	---	204	665	1540	371	665	202	279
31	145	---	e108	e220	---	203	---	1670	---	840	197	---
TOTAL	3828	9622	4800	6103	5651	8697	14256	35779	33110	29619	10617	6488
MEAN	123	321	155	197	195	281	475	1154	1104	955	342	216
MAX	145	830	206	495	726	762	1570	2210	1960	3140	946	333
MIN	107	151	108	83	105	202	167	383	371	196	197	176
CFSM	.28	.74	.36	.45	.45	.64	1.09	2.65	2.54	2.20	.79	.50
IN.	.33	.82	.41	.52	.48	.74	1.22	3.06	2.83	2.53	.91	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	259	304	392	443	508	718	720	504	409	283	206	181
MAX	1939	883	1070	1580	1193	2127	1714	1154	1113	955	652	692
(WY)	1955	1973	1967	1993	1959	1982	1950	1996	1975	1996	1958	1972
MIN	77.5	83.3	91.6	71.3	107	194	243	169	146	115	93.6	75.9
(WY)	1965	1965	1964	1963	1963	1957	1958	1958	1988	1971	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	143347		168570			
ANNUAL MEAN	393		461		410	
HIGHEST ANNUAL MEAN					661	1950
LOWEST ANNUAL MEAN					180	1964
HIGHEST DAILY MEAN	1970	Apr 14	3140	Jul 22	5600	Oct 15 1954
LOWEST DAILY MEAN	107	Oct 2	83	Jan 14	50	Jan 21 1963
ANNUAL SEVEN-DAY MINIMUM	113	Dec 25	89	Jan 9	50	Jan 21 1963
INSTANTANEOUS PEAK FLOW			3170	Jul 22	5660	Oct 15 1954
INSTANTANEOUS PEAK STAGE			11.03	Jul 22	13.75	Oct 15 1954
ANNUAL RUNOFF (CFSM)	.90		1.06		.94	
ANNUAL RUNOFF (INCHES)	12.26		14.42		12.81	
10 PERCENT EXCEEDS	801		1210		888	
50 PERCENT EXCEEDS	296		236		265	
90 PERCENT EXCEEDS	124		118		112	

e Estimated

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 abandoned bridge at Dunns Bridge, 1.8 mi north of Tefft, 3.6 mi upstream from Davis Ditch, and at mile 90.8.
DRAINAGE AREA.--1,352 mi², of which 192 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--July 1948 to current year.
REVISED RECORDS.--WSP 1728: 1954(m). WSP 2115: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 649.65 ft above sea level (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 for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	790	1180	e820	e840	1620	942	2370	3450	2190	3860	1020
2	499	861	1170	e810	e820	1580	926	2280	3520	2010	3790	994
3	519	1010	1160	e800	e810	1330	911	2110	3490	1860	3660	973
4	546	1100	1120	e790	e800	1180	901	1940	3320	1710	3480	952
5	566	1100	1090	e780	e790	1230	884	1830	3120	1590	3290	929
6	576	1040	1050	e775	e780	1270	879	1750	2890	1500	3120	906
7	567	999	1010	e770	e770	1180	872	1660	2760	1410	2940	914
8	563	949	e940	e765	e760	1130	849	1600	2750	1350	2890	936
9	562	910	e890	e760	e860	1040	832	1580	2800	1290	2770	961
10	553	872	e840	e755	1340	1030	832	1850	2940	1240	2600	968
11	547	1180	e810	e750	1270	1060	820	2450	3160	1170	2430	934
12	541	1740	e780	e745	960	1050	809	2810	3340	1110	2270	937
13	539	2010	e770	764	897	1080	809	3020	3460	1080	2150	1010
14	543	2120	e780	775	889	1100	796	3220	3580	1050	2010	1110
15	542	2130	e800	778	877	1120	834	3430	3640	1040	1880	1120
16	539	2020	e840	758	848	1140	905	3530	3600	1080	1790	1070
17	526	1890	e940	802	812	1140	904	3540	3540	1170	1700	1040
18	529	1780	e1000	900	783	1140	886	3410	3610	2190	1610	906
19	520	1710	e980	1020	787	1140	886	3280	3790	3510	1540	929
20	542	1650	e970	1100	795	1140	1130	3250	3870	3980	1480	949
21	599	1610	e960	1110	809	1110	1450	3350	3900	4270	1420	944
22	643	1540	e950	1100	811	1090	1860	3460	3950	4450	1410	977
23	638	1480	e920	1170	814	1050	2420	3480	3970	4560	1410	988
24	622	1420	e900	1160	834	1030	2690	3380	3950	4630	1390	858
25	621	1350	e880	1070	845	1010	2810	3190	3790	4640	1340	824
26	609	1310	e870	1090	845	993	2900	2890	3500	4580	1270	835
27	638	1290	e860	1050	970	976	2950	2640	3200	4450	1230	971
28	710	1260	e850	1010	1290	955	2860	2640	2900	4280	1200	1150
29	728	1220	e830	977	1530	956	2670	3040	2620	4060	1160	1220
30	720	1200	e820	e920	---	951	2490	3250	2400	3920	1110	1180
31	746	---	e830	e860	---	941	---	3380	---	3910	1060	---
TOTAL	18088	41541	28790	27734	26236	34762	42707	85610	100810	81280	65260	29505
MEAN	583	1385	929	895	905	1121	1424	2762	3360	2622	2105	983
MAX	746	2130	1180	1170	1530	1620	2950	3540	3970	4640	3860	1220
MIN	495	790	770	745	760	941	796	1580	2400	1040	1060	824
CFSM	.43	1.02	.69	.66	.67	.83	1.05	2.04	2.49	1.94	1.56	.73
IN.	.50	1.14	.79	.76	.72	.96	1.18	2.36	2.77	2.24	1.80	.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	948	1159	1380	1470	1560	2056	2215	1759	1437	1090	848	749
MAX	3378	2562	2816	3845	2874	4229	4376	3231	3360	2622	2316	1924
(WY)	1955	1973	1983	1991	1968	1985	1950	1983	1996	1996	1990	1993
MIN	350	398	447	449	391	719	1082	767	657	419	371	360
(WY)	1964	1965	1964	1963	1963	1957	1958	1958	1988	1988	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	496970		582323			
ANNUAL MEAN	1362		1591		1388	
HIGHEST ANNUAL MEAN					2161	1991
LOWEST ANNUAL MEAN					618	1964
HIGHEST DAILY MEAN	3540	Apr 16	4640	Jul 25	5850	Mar 23 1982
LOWEST DAILY MEAN	495	Oct 1	495	Oct 1	280	Jan 25 1963
ANNUAL SEVEN-DAY MINIMUM	534	Oct 13	534	Oct 13	283	Jan 24 1963
INSTANTANEOUS PEAK FLOW			4650	Jul 25	5870	Mar 23 1982
INSTANTANEOUS PEAK STAGE			12.81	Jul 25	13.38	Mar 23 1982
ANNUAL RUNOFF (CFSM)	1.01		1.18		1.03	
ANNUAL RUNOFF (INCHES)	13.67		16.02		13.95	
10 PERCENT EXCEEDS	2210		3460		2640	
50 PERCENT EXCEEDS	1290		1100		1150	
90 PERCENT EXCEEDS	656		760		535	

e Estimated

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 downstream from bridge on State Highway 49, 4.5 mi south of Kouts, 0.7 mi upstream from Cook Ditch, and at mile 86.7.
DRAINAGE AREA.--1,376 mi², of which 194 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1974 to current year.
REVISED RECORDS.--WDR IN-77-1: 1975(M).
GAGE.--Water-stage recorder. Datum of gage is 645.00 ft above sea level.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	731	1160	e800	e830	1550	899	2320	3470	2240	3940	997
2	446	832	1170	e790	e820	1530	912	2220	3580	2040	3860	969
3	469	975	1160	e780	e800	1300	887	2050	3570	1890	3720	948
4	500	1050	1120	e770	e790	1170	845	1910	3420	1750	3570	952
5	526	1060	1090	e765	e780	1200	854	1790	3220	1630	3410	928
6	537	1020	1050	e760	e770	1200	870	1690	3000	1490	3250	877
7	530	982	1010	e760	e760	1120	866	1590	2840	1380	2990	888
8	528	939	e950	e760	e800	1130	827	1570	2800	1310	2990	930
9	529	925	e910	e760	e950	1040	803	1530	2830	1250	2880	971
10	518	869	e850	e750	e1200	985	833	1820	2970	1190	2680	1000
11	507	1130	e820	e750	1390	1010	825	2450	3210	1120	2500	971
12	485	1700	e790	e745	1010	1000	812	2780	3400	1060	2340	973
13	496	1920	e780	e740	898	1030	765	2960	3470	1050	2210	1040
14	503	2030	e790	749	910	1070	765	3190	3540	1020	2050	1110
15	508	2010	e820	772	900	1100	831	3360	3580	1010	1940	1110
16	504	1950	e860	778	870	1090	891	3460	3550	1050	1830	1070
17	498	1820	e980	792	843	1070	901	3500	3560	1130	1660	1030
18	480	1720	e1005	844	826	1100	886	3400	3840	2370	1590	903
19	462	1650	e990	973	829	1160	883	3260	4050	3920	1510	905
20	503	1590	e935	1070	806	1150	1110	3210	3980	4140	1450	948
21	541	1560	e915	1070	811	1080	1400	3310	3930	4270	1390	924
22	599	1470	e900	1060	811	1080	1840	3430	3910	4440	1380	950
23	632	1440	e890	1160	812	1040	2430	3460	3910	4510	1380	969
24	624	1390	e865	1150	827	987	2650	3390	3890	4600	1400	876
25	624	1290	e855	1050	827	962	2750	3220	3780	4600	1350	814
26	612	1270	e840	1080	819	972	2790	2920	3520	4570	1250	814
27	620	1250	e830	1030	932	951	2830	2670	3240	4450	1250	931
28	641	1200	e820	964	1240	906	2780	2720	2950	4310	1210	1090
29	666	1180	e812	933	1430	944	2660	3240	2660	4110	1200	1160
30	661	1180	e810	e900	---	939	2490	3370	2430	3980	1160	1130
31	687	---	e795	e850	---	880	---	3440	---	4010	1070	---
TOTAL	16872	40133	28572	27155	26291	33746	41885	85230	102100	81890	66410	29178
MEAN	544	1338	922	876	907	1089	1396	2749	3403	2642	2142	973
MAX	687	2030	1170	1160	1430	1550	2830	3500	4050	4600	3940	1160
MIN	436	731	780	740	760	880	765	1530	2430	1010	1070	814
CFSM	.40	.97	.67	.64	.66	.79	1.01	2.00	2.47	1.92	1.56	.71
IN.	.46	1.08	.77	.73	.71	.91	1.13	2.30	2.76	2.21	1.80	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, BY WATER YEAR (WY)

MEAN	1030	1327	1634	1533	1590	2337	2480	1901	1707	1206	975	871
MAX	2770	2392	2889	3787	2614	4613	4229	3255	3403	2642	2432	2014
(WY)	1991	1991	1991	1991	1991	1985	1985	1983	1996	1996	1990	1993
MIN	477	542	704	634	718	1089	1144	1113	619	411	398	479
(WY)	1979	1979	1979	1977	1978	1996	1987	1992	1988	1988	1988	1978

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1975 - 1996	
ANNUAL TOTAL	502909		579462			
ANNUAL MEAN	1378		1583		1548	
HIGHEST ANNUAL MEAN					2160	1991
LOWEST ANNUAL MEAN					1131	1977
HIGHEST DAILY MEAN	3460	Apr 16	4600	Jul 24	6410	Mar 24 1982
LOWEST DAILY MEAN	436	Oct 1	436	Oct 1	292	Aug 5 1988
ANNUAL SEVEN-DAY MINIMUM	487	Sep 30	492	Oct 1	309	Aug 3 1988
INSTANTANEOUS PEAK FLOW			4640	Jul 24	6420	Mar 24 1982
INSTANTANEOUS PEAK STAGE			13.81	Jul 24	14.52	Mar 24 1982
ANNUAL RUNOFF (CFSM)	1.00		1.15		1.13	
ANNUAL RUNOFF (INCHES)	13.60		15.67		15.29	
10 PERCENT EXCEEDS	2280		3460		2910	
50 PERCENT EXCEEDS	1310		1070		1310	
90 PERCENT EXCEEDS	624		750		611	

e Estimated

05517890 COBB DITCH NEAR KOUTS, IN

LOCATION.--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 upstream from bridge on County Road 50 West, 1.6 mi upstream from mouth, and 3 mi northwest of Kouts.
DRAINAGE AREA.--30.3 mi².
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 above sea level (Indiana Department of Highways bench mark). Prior to Oct. 19, 1978, water-stage recorder at site 1.4 mi downstream at same datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	24	e17	e18	29	14	23	43	33	40	16
2	13	28	23	e17	e17	25	14	21	117	32	38	16
3	13	27	23	e16	e16	e21	14	19	69	31	34	15
4	13	22	22	e15	e16	e19	14	19	53	31	30	14
5	13	20	23	e15	e15	e21	14	19	44	31	27	15
6	13	19	22	e14	e15	e20	13	20	39	30	25	15
7	13	19	22	e14	e14	e19	13	19	42	30	28	16
8	13	17	e21	e13	e15	e18	13	19	38	30	83	16
9	13	17	e21	e13	18	e17	13	27	36	29	38	16
10	13	22	e20	e14	17	e16	13	96	45	27	29	16
11	13	167	e20	e14	17	e16	13	63	57	24	26	18
12	13	78	e19	e13	16	e18	13	43	69	25	25	20
13	13	52	e19	e13	15	20	13	37	47	25	23	27
14	13	42	e21	e13	15	20	13	33	39	23	22	21
15	13	37	21	e14	15	19	14	27	36	24	21	18
16	13	33	20	e16	15	19	14	25	38	24	21	18
17	13	31	20	23	e14	18	14	24	100	28	20	17
18	13	31	20	29	e14	18	14	23	563	671	20	17
19	13	32	20	40	e14	17	19	22	190	500	20	16
20	15	32	19	29	e14	16	73	21	98	128	19	16
21	15	30	e18	23	15	16	43	30	76	106	20	16
22	14	29	e18	21	15	16	122	25	63	97	20	16
23	14	28	e17	21	15	16	76	23	55	66	19	16
24	13	26	e16	21	15	16	45	24	51	53	19	16
25	13	26	e16	19	15	17	32	25	47	45	18	16
26	13	25	e16	20	15	17	27	24	41	39	18	16
27	18	25	e16	26	65	15	24	88	38	36	18	27
28	16	24	e16	23	55	15	22	115	36	35	17	19
29	15	24	e15	19	34	14	26	264	35	32	17	16
30	14	24	e15	e19	---	14	27	82	34	75	17	15
31	17	---	e16	e18	---	14	---	57	---	50	16	---
TOTAL	424	1005	599	582	554	556	779	1357	2239	2410	788	516
MEAN	13.7	33.5	19.3	18.8	19.1	17.9	26.0	43.8	74.6	77.7	25.4	17.2
MAX	18	167	24	40	65	29	122	264	563	671	83	27
MIN	13	17	15	13	14	14	13	19	34	23	16	14
CFSM	.45	1.11	.64	.62	.63	.59	.86	1.44	2.46	2.57	.84	.57
IN.	.52	1.23	.74	.71	.68	.68	.96	1.67	2.75	2.96	.97	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

MEAN	22.1	32.7	34.0	33.1	38.2	53.2	50.9	41.3	36.7	27.3	21.5	19.2
MAX	67.8	112	88.9	86.8	79.3	142	103	89.4	95.4	77.7	99.0	60.6
(WY)	1991	1986	1991	1993	1976	1982	1975	1974	1981	1996	1990	1993
MIN	11.5	11.0	14.4	11.0	10.6	17.9	20.8	14.9	14.6	12.0	10.8	12.0
(WY)	1981	1981	1990	1977	1978	1996	1986	1980	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1969 - 1996	
ANNUAL TOTAL	9982		11809			
ANNUAL MEAN	27.3		32.3		34.1	
HIGHEST ANNUAL MEAN					53.1	1991
LOWEST ANNUAL MEAN					19.3	1977
HIGHEST DAILY MEAN	283	Apr 12	671	Jul 18	955	Nov 28 1990
LOWEST DAILY MEAN	13	Oct 1	13	Oct 1	8.9	Sep 11 1977
ANNUAL SEVEN-DAY MINIMUM	13	Oct 1	13	Oct 1	9.5	Feb 24 1978
INSTANTANEOUS PEAK FLOW			991	Jul 18	1160	Nov 28 1990
INSTANTANEOUS PEAK STAGE			16.27	Jul 18	17.95	Mar 29 1985
ANNUAL RUNOFF (CFSM)	.90		1.06		1.13	
ANNUAL RUNOFF (INCHES)	12.26		14.50		15.31	
10 PERCENT EXCEEDS	40		51		58	
50 PERCENT EXCEEDS	22		20		22	
90 PERCENT EXCEEDS	14		14		14	

e Estimated

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 upstream from Monon Railroad bridge, 1 mi south of Shelby, 7.7 mi upstream from Beaver Lake Ditch, and at mile 67.9.
DRAINAGE AREA.--1,779 mi², of which 201 mi² does not contribute directly to surface runoff.
PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.
REVISED RECORDS.--WSP 1005: 1928(M). WSP 2115: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 628.13 ft above sea level. Prior to Dec. 19, 1934, nonrecording gage at highway bridge about 400 ft upstream. Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft downstream, and Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft upstream. All at same datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	879	1440	e970	e1020	1690	1060	2960	4310	2970	4980	1150
2	658	994	1420	e960	e1000	1750	1080	2770	4400	2730	4820	1110
3	669	1180	1410	e955	e980	1640	1070	2610	4560	2510	4660	1080
4	694	1270	1370	e950	e970	1490	1030	2460	4450	2320	4490	1050
5	704	1280	1320	e945	e960	1480	1010	2300	4250	2130	4280	1030
6	708	1270	1300	e940	e950	1490	1020	2200	4020	1960	4040	968
7	695	1230	1260	e935	e935	1400	1020	2090	3800	1790	3790	961
8	683	1180	1240	e930	e980	1330	1010	2020	3620	1680	3730	1000
9	689	1120	e1150	e910	e1150	1350	962	1980	3550	1570	3780	1080
10	681	1140	e1100	e890	e1300	1250	971	2200	3650	1480	3560	1130
11	676	1550	e1050	e880	1580	1230	978	2850	3860	1410	3320	1100
12	669	2220	e990	e870	1670	1230	965	3190	4160	1340	3090	1110
13	660	2370	e960	e880	1600	1230	935	3350	4250	1290	2870	1160
14	660	2460	e980	e890	1550	1250	908	3450	4210	1270	2680	1250
15	662	2470	e1000	e900	1560	1280	939	3600	4170	1240	2490	1280
16	664	2410	e1050	e930	1320	1290	1010	3760	4140	1110	2350	1270
17	659	2320	e1100	968	1090	1280	1030	3940	4150	1140	2160	1210
18	649	2190	e1200	1020	1040	1280	1030	3950	4420	2270	2000	1140
19	632	2110	e1180	1150	1040	1340	1030	3810	4850	4640	1900	1060
20	650	2020	e1140	1230	1010	1350	1350	3680	4900	5080	1780	1140
21	679	1970	e1120	1240	991	1330	1590	3710	4790	5230	1680	1120
22	698	1880	e1110	1250	986	1300	2010	3770	4660	5330	1620	1110
23	756	1800	e1090	1300	983	1280	2810	3820	4590	5380	1620	1130
24	768	1740	e1080	1370	991	1240	3040	3870	4580	5450	1610	1100
25	763	1650	e1070	1270	994	1190	3140	3960	4550	5470	1590	1020
26	758	1590	e1040	1250	981	1170	3160	3860	4430	5450	1520	995
27	797	1590	e1010	1250	1050	1150	3140	3680	4150	5380	1430	1100
28	786	1520	e1000	1260	1410	1110	3160	3900	3840	5250	1370	1220
29	805	1470	e1000	1210	1560	1110	3170	4380	3520	5110	1330	1310
30	815	1460	e1000	e1100	---	1110	3130	4610	3220	5030	1310	1320
31	835	---	e980	e1030	---	1090	---	4440	---	5060	1230	---
TOTAL	21886	50333	35160	32633	33651	40710	48758	103170	126050	100070	83080	33704
MEAN	706	1678	1134	1053	1160	1313	1625	3328	4202	3228	2680	1123
MAX	835	2470	1440	1370	1670	1750	3170	4610	4900	5470	4980	1320
MIN	632	879	960	870	935	1090	908	1980	3220	1110	1230	961
CFSM	.40	.94	.64	.59	.65	.74	.91	1.87	2.36	1.81	1.51	.63
IN.	.46	1.05	.74	.68	.70	.85	1.02	2.16	2.64	2.09	1.74	.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1996, BY WATER YEAR (WY)

MEAN	1076	1350	1631	1812	1939	2519	2770	2299	1794	1266	969	879
MAX	3529	3413	4502	4867	3658	5570	5365	4409	4347	3228	3058	2843
(WY)	1991	1973	1928	1991	1950	1985	1982	1943	1981	1996	1990	1993
MIN	455	519	540	460	462	848	1226	789	569	441	402	356
(WY)	1954	1954	1964	1940	1963	1934	1925	1934	1934	1988	1988	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1924 - 1996	
ANNUAL TOTAL	648806		709205			
ANNUAL MEAN	1778		1938		1690	
HIGHEST ANNUAL MEAN					2767	1993
LOWEST ANNUAL MEAN					775	1964
HIGHEST DAILY MEAN	4400	Apr 14	5470	Jul 25	7650	Mar 26 1982
LOWEST DAILY MEAN	632	Oct 19	632	Oct 19	260	Jan 13 1954
ANNUAL SEVEN-DAY MINIMUM	654	Oct 14	654	Oct 14	298	Aug 2 1988
INSTANTANEOUS PEAK FLOW			5480	Jul 25	7650	Mar 26 1982
INSTANTANEOUS PEAK STAGE			12.23	Jul 25	12.98	Mar 24 1982
ANNUAL RUNOFF (CFSM)	1.00		1.09		.95	
ANNUAL RUNOFF (INCHES)	13.57		14.83		12.91	
10 PERCENT EXCEEDS	3000		4220		3340	
50 PERCENT EXCEEDS	1690		1280		1350	
90 PERCENT EXCEEDS	806		890		631	

e Estimated

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 upstream from bridge on Ackerman Avenue, 0.5 mi upstream from Bruce Ditch, 1.5 mi downstream from Cedar Creek, 1.6 mi north of Schneider, and at mile 10.1.
DRAINAGE AREA.--123 mi².
PERIOD OF RECORD.--July 1948 to current year.
REVISED RECORDS.--WSP 1915: 1956-59. WSP 2115: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 623.67 ft above sea level. Prior to Oct. 1, 1949, nonrecording gage at same site at datum 2.00 ft higher. Oct. 1, 1949, to Aug. 13, 1951, nonrecording gage at same site and datum.
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	31	65	e39	e45	102	52	148	309	92	262	47
2	64	42	61	e41	e43	92	50	125	412	86	195	48
3	67	50	61	e37	e42	e80	49	114	362	83	140	47
4	63	40	58	e36	e41	e74	48	110	279	78	130	43
5	51	35	57	e35	e40	e80	47	114	214	70	122	43
6	35	34	57	e34	e39	e86	45	128	197	67	113	43
7	27	34	54	e33	e38	e78	45	113	236	66	106	45
8	26	32	e53	e32	e41	e74	44	107	216	64	258	45
9	25	31	e52	e31	e50	e70	43	117	223	61	166	46
10	25	36	e51	e30	85	e65	42	393	348	55	122	44
11	25	375	e50	e29	79	e64	41	405	347	48	109	46
12	25	344	e49	e29	60	e66	39	265	333	45	102	49
13	24	207	e48	e28	47	73	38	198	236	45	94	47
14	24	164	e54	e28	41	72	36	147	196	43	88	46
15	25	145	e74	e30	38	74	41	137	170	50	83	44
16	24	130	69	e34	37	74	44	158	153	45	76	43
17	24	118	59	42	e37	71	38	159	164	45	71	42
18	24	105	51	55	e36	69	36	139	332	955	70	41
19	24	110	50	109	e35	66	40	124	346	1760	75	41
20	28	104	49	120	e36	62	492	115	253	1220	70	43
21	29	97	e47	91	37	63	324	170	205	925	66	42
22	27	89	e45	78	36	62	651	158	161	1080	68	42
23	27	83	e44	68	36	62	585	132	147	644	66	41
24	25	77	e42	60	39	63	343	228	142	416	62	41
25	24	75	e41	51	37	76	245	429	133	321	57	40
26	25	73	e40	58	37	66	183	254	120	252	55	45
27	34	71	e39	73	121	56	157	492	112	184	49	61
28	31	70	e38	67	207	55	139	755	107	170	52	56
29	28	66	e37	e60	125	53	155	1040	102	164	50	49
30	53	65	e36	e54	---	52	175	675	97	399	46	45
31	34	---	e37	e48	---	51	---	425	---	411	45	---
TOTAL	1020	2933	1568	1560	1585	2151	4267	8074	6652	9944	3068	1355
MEAN	32.9	97.8	50.6	50.3	54.7	69.4	142	260	222	321	99.0	45.2
MAX	67	375	74	120	207	102	651	1040	412	1760	262	61
MIN	24	31	36	28	35	51	36	107	97	43	45	40
CFSM	.27	.79	.41	.41	.44	.56	1.16	2.12	1.80	2.61	.80	.37
IN.	.31	.89	.47	.47	.48	.65	1.29	2.44	2.01	3.01	.93	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	61.0	89.0	116	125	146	208	214	145	116	71.3	45.5	46.2
MAX	295	471	457	475	486	634	477	421	463	321	237	308
(WY)	1994	1986	1991	1993	1959	1982	1950	1974	1989	1996	1990	1993
MIN	7.54	11.8	8.13	17.5	15.6	34.3	48.6	30.6	26.3	10.6	7.09	7.78
(WY)	1964	1957	1964	1977	1964	1957	1963	1958	1988	1988	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	38815		44177			
ANNUAL MEAN	106		121		115	
HIGHEST ANNUAL MEAN					227	1993
LOWEST ANNUAL MEAN					24.0	1964
HIGHEST DAILY MEAN	1180	Apr 12	1760	Jul 19	2990	Mar 5 1976
LOWEST DAILY MEAN	21	Aug 2	24	Oct 13	3.6	Sep 7 1964
ANNUAL SEVEN-DAY MINIMUM	24	Oct 13	24	Oct 13	3.8	Sep 4 1964
INSTANTANEOUS PEAK FLOW			1870	Jul 18	3550	Mar 5 1976
INSTANTANEOUS PEAK STAGE			10.57	Jul 18	12.54	Nov 28 1990
ANNUAL RUNOFF (CFSM)	.86		.98		.93	
ANNUAL RUNOFF (INCHES)	11.74		13.36		12.70	
10 PERCENT EXCEEDS	194		259		255	
50 PERCENT EXCEEDS	75		61		61	
90 PERCENT EXCEEDS	27		34		18	

e Estimated

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 downstream from bridge on county road, 0.5 mi north of Rosebud, 0.5 mi downstream from confluence of Swain and Dexter Ditches, 1.5 mi upstream from Davidson Ditch, 2 mi east of Parr, and at mile 93.5.
DRAINAGE AREA.--35.6 mi².
PERIOD OF RECORD.--July 1948 to 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 above sea level (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.
REMARKS.--Records fair, except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	7.7	12	e8.0	e7.0	19	13	26	59	18	75	9.5
2	3.9	12	11	e7.6	e6.6	16	12	22	114	17	54	9.3
3	4.8	11	11	e7.3	e6.2	e15	12	21	82	16	42	9.1
4	4.7	8.3	11	e7.0	e5.8	e15	12	21	63	15	35	8.9
5	e4.2	7.6	11	e6.9	e5.4	e17	11	34	51	15	31	8.4
6	e3.7	7.4	10	e6.6	e5.2	e14	11	45	48	14	27	8.2
7	e3.4	7.0	e9.2	e6.5	e5.2	e14	11	34	45	13	25	9.5
8	e3.6	6.6	e8.6	e6.4	e6.0	e13	10	31	39	12	61	12
9	e4.0	6.4	e8.2	e6.2	e12	e12	10	37	49	12	41	12
10	e3.5	7.5	e7.8	e6.1	25	e11	9.9	83	67	11	32	9.7
11	e3.1	59	e7.4	e6.0	17	e11	9.7	96	69	10	29	9.2
12	e3.0	38	e7.2	e5.9	13	e12	10	58	64	9.9	27	9.1
13	e2.9	27	e7.0	e5.8	13	13	10	44	52	9.5	25	8.6
14	e3.1	23	e12	e6.2	9.2	14	9.2	34	43	9.1	22	8.1
15	e3.5	21	e11	e6.8	e8.4	16	11	31	35	9.7	19	7.8
16	e3.6	19	e9.6	e7.6	e7.8	16	11	34	33	12	16	7.9
17	e3.7	19	e9.0	e9.0	e7.6	16	9.6	43	54	12	16	9.1
18	4.1	19	e9.6	12	e7.4	15	9.5	36	173	205	16	7.8
19	4.5	18	e9.4	17	7.2	15	11	30	90	200	17	7.5
20	6.0	18	e9.0	15	8.2	15	14	26	60	101	15	7.4
21	5.3	16	e8.8	9.3	7.8	14	12	29	47	179	15	7.6
22	5.0	15	e8.4	9.2	7.3	14	102	26	40	248	14	7.6
23	4.9	15	e8.2	10	7.8	14	87	25	32	144	13	7.8
24	4.8	13	e7.8	11	7.5	14	53	35	29	104	13	7.3
25	4.7	13	e7.6	e10	7.5	15	42	49	27	99	12	7.0
26	4.8	14	e7.4	9.5	7.7	13	35	43	23	68	12	7.8
27	7.6	14	e7.4	13	39	12	26	100	22	50	11	9.1
28	5.9	13	e7.2	12	32	12	24	143	22	51	11	8.6
29	5.7	12	e7.0	8.9	22	12	33	201	18	47	11	7.7
30	5.3	12	e6.8	e8.2	---	12	32	107	19	124	10	7.3
31	7.8	---	e7.2	e7.4	---	13	---	72	---	124	9.8	---
TOTAL	139.0	479.5	274.8	268.4	321.8	434	662.9	1616	1569	1959.2	756.8	256.9
MEAN	4.48	16.0	8.86	8.66	11.1	14.0	22.1	52.1	52.3	63.2	24.4	8.56
MAX	7.8	59	12	17	39	19	102	201	173	248	75	12
MIN	2.9	6.4	6.8	5.8	5.2	11	9.2	21	18	9.1	9.8	7.0
CFSM	.13	.45	.25	.24	.31	.39	.62	1.46	1.47	1.78	.69	.24
IN.	.15	.50	.29	.28	.34	.45	.69	1.69	1.64	2.05	.79	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	15.7	19.8	28.7	29.8	36.5	49.4	52.1	40.0	32.4	17.8	9.87	12.3
MAX	106	68.5	96.8	113	91.1	149	141	111	111	63.2	52.1	88.9
(WY)	1994	1993	1991	1950	1959	1982	1950	1974	1981	1996	1972	1993
MIN	1.19	1.80	2.43	3.52	3.13	7.69	17.2	10.2	5.47	3.08	1.97	1.53
(WY)	1965	1965	1964	1963	1964	1957	1986	1958	1988	1988	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	9198.4		8738.3			
ANNUAL MEAN	25.2		23.9		28.6	
HIGHEST ANNUAL MEAN					61.7	1993
LOWEST ANNUAL MEAN					6.38	1964
HIGHEST DAILY MEAN	254	May 24	248	Jul 22	621	Dec 30 1990
LOWEST DAILY MEAN	2.9	Oct 13	2.9	Oct 13	.50	Oct 11 1964
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 10	3.2	Oct 10	.77	Oct 11 1964
INSTANTANEOUS PEAK FLOW			318	Jul 18	656	Dec 30 1990
INSTANTANEOUS PEAK STAGE			4.93	Jul 18	8.86	Feb 10 1959
ANNUAL RUNOFF (CFSM)	.71		.67		.80	
ANNUAL RUNOFF (INCHES)	9.61		9.13		10.93	
10 PERCENT EXCEEDS	54		53		63	
50 PERCENT EXCEEDS	15		12		17	
90 PERCENT EXCEEDS	4.3		6.0		4.3	

e Estimated

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 downstream from bridge on State Highway 114, 0.8 mi east of Rensselaer, 1.5 mi downstream from Ryan Ditch, 5.5 mi upstream from Slough Creek, and at mile 84.9.
DRAINAGE AREA.--203 mi².
PERIOD OF RECORD.--July 1948 to current year.
REVISED RECORDS.--WSP 2115: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 642.29 ft above sea level (levels by State of Indiana, Department of Natural Resources). Prior to July 8, 1949, nonrecording gage at same site and datum.
REMARKS.--Records fair except for estimated daily discharges, which are poor. Streamflow affected by irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	28	50	e37	e27	83	57	195	828	114	1010	37
2	15	37	48	e35	e26	e61	54	156	701	103	772	35
3	18	46	48	e34	e25	48	52	135	690	90	567	36
4	20	35	45	e33	e24	e47	52	131	577	80	395	34
5	20	26	44	e33	e23	e54	48	149	440	74	298	33
6	16	24	41	e32	e22	e78	44	281	356	59	244	32
7	10	23	35	e31	e22	e54	43	237	370	52	204	39
8	11	23	e32	e30	e25	e52	41	203	318	54	287	48
9	14	18	e30	e29	e38	e50	41	217	337	54	332	52
10	9.8	20	e29	e28	56	e49	41	385	543	48	268	43
11	10	143	e28	e27	64	e49	43	610	698	44	217	37
12	9.5	241	e27	e27	47	e52	40	543	790	40	195	42
13	9.2	170	e26	e26	41	57	41	382	740	38	159	39
14	10	118	e30	e27	40	69	41	269	570	35	129	39
15	11	98	e43	e29	40	71	45	229	401	40	109	41
16	11	95	e39	e33	38	69	55	267	293	50	94	37
17	11	87	e37	e39	36	65	52	500	494	49	86	39
18	11	84	e38	e45	34	64	45	417	1500	688	81	33
19	13	84	e41	72	35	67	52	290	1670	1470	82	31
20	16	79	e39	51	42	61	134	227	1590	1620	74	30
21	19	74	e38	e45	47	48	97	213	1380	1670	73	31
22	17	67	e37	e44	44	e47	374	206	1050	1910	68	34
23	14	63	e36	e48	43	e58	621	179	726	1900	63	32
24	13	57	e35	e68	39	69	516	193	459	1710	59	33
25	12	56	e34	e56	35	79	353	399	300	1430	53	30
26	13	55	e33	e46	34	58	266	384	237	1120	48	32
27	18	57	e33	e54	71	55	207	482	204	830	44	52
28	21	56	e32	e45	172	58	170	884	177	806	42	59
29	18	50	e31	e35	99	56	191	1250	150	805	43	48
30	16	49	e30	e31	---	52	221	1300	132	900	41	40
31	22	---	e32	e28	---	54	---	1100	---	1120	38	---
TOTAL	444.5	2063	1121	1198	1289	1834	4037	12413	18721	19003	6175	1148
MEAN	14.3	68.8	36.2	38.6	44.4	59.2	135	400	624	613	199	38.3
MAX	22	241	50	72	172	83	621	1300	1670	1910	1010	59
MIN	9.2	18	26	26	22	47	40	131	132	35	38	30
CFSM	.07	.34	.18	.19	.22	.29	.66	1.97	3.07	3.02	.98	.19
IN.	.08	.38	.21	.22	.24	.34	.74	2.27	3.43	3.48	1.13	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

MEAN	90.7	125	183	200	240	325	346	244	204	105	51.0	68.4
MAX	921	561	559	774	613	935	886	766	863	613	238	641
(WY)	1994	1993	1991	1950	1976	1982	1950	1974	1958	1996	1990	1993
MIN	5.77	7.75	7.04	14.5	13.9	40.8	87.8	47.6	22.9	12.5	4.61	5.26
(WY)	1965	1965	1964	1963	1964	1957	1986	1958	1988	1964	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1949 - 1996	
ANNUAL TOTAL	65538.5		69446.5			
ANNUAL MEAN	180		190		181	
HIGHEST ANNUAL MEAN					415	1993
LOWEST ANNUAL MEAN					29.7	1964
HIGHEST DAILY MEAN	1650	May 26	1910	Jul 22	2500	Jun 11 1958
LOWEST DAILY MEAN	9.2	Oct 13	9.2	Oct 13	2.2	Sep 9 1964
ANNUAL SEVEN-DAY MINIMUM	10	Oct 10	10	Oct 10	2.8	Sep 9 1964
INSTANTANEOUS PEAK FLOW			1940	Jul 22	2550	Jun 10 1958
INSTANTANEOUS PEAK STAGE			13.60	Jul 22	16.54	Jun 10 1958
ANNUAL RUNOFF (CFSM)	.88		.93		.89	
ANNUAL RUNOFF (INCHES)	12.01		12.73		12.14	
10 PERCENT EXCEEDS	499		568		455	
50 PERCENT EXCEEDS	81		50		91	
90 PERCENT EXCEEDS	16		23		16	

e Estimated

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 mi north of intersection of State Highways 16 and 55, 0.5 mi downstream from Mosquito Creek, 0.6 mi west of Foresman, 3 mi east of Brook, and at mile 72.7.
DRAINAGE AREA.--449 mi².
PERIOD OF RECORD.--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 above sea level. Prior to Sept. 7, 1955, nonrecording gage 2.5 mi upstream at datum 3.54 ft higher.
REMARKS.--Records fair except for June 18-20 and July 18-22 and estimated daily discharges which are poor. Stage may be affected by backwater.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e23	e52	112	e80	85	150	126	375	1460	224	1230	79
2	e22	e66	115	e84	79	e130	132	317	1330	201	1160	76
3	e22	e90	111	e78	68	113	131	272	1230	182	1040	75
4	e23	e100	108	e76	58	113	128	256	1120	163	861	73
5	e24	e80	105	e75	53	138	119	252	994	151	640	69
6	e25	e64	103	e74	e50	160	106	368	842	139	434	64
7	e27	e58	90	e72	e48	131	101	407	714	130	315	68
8	e29	e55	77	e70	e56	e120	99	370	606	122	415	105
9	e28	e52	e72	e68	e72	e118	96	384	587	117	528	125
10	e27	e50	e68	e66	120	e115	93	540	742	110	446	109
11	e27	158	e65	e64	132	e113	93	832	862	100	348	91
12	e26	325	e63	e64	120	e114	91	910	998	90	296	84
13	e26	303	e61	e62	100	117	89	864	1050	85	260	83
14	e25	240	e70	e62	96	121	88	728	1020	81	218	81
15	e25	196	e94	e66	91	130	89	574	915	83	197	80
16	e26	180	e100	e76	90	135	100	483	750	91	168	78
17	e26	173	e86	e96	86	136	103	723	621	99	151	75
18	e25	166	e88	136	82	135	95	809	990	461	146	74
19	e25	171	e92	189	88	134	94	727	1310	944	154	68
20	e26	170	e90	223	93	135	183	580	1450	1120	150	68
21	e31	162	e87	180	107	116	219	498	1470	1290	148	67
22	e34	150	e84	142	110	116	413	463	1390	1790	136	68
23	e33	140	e82	139	108	131	771	395	1260	2000	126	68
24	e32	132	e79	162	103	149	812	349	1110	1950	120	72
25	e31	125	e78	163	96	207	741	431	922	1850	112	69
26	e30	124	e76	157	89	194	601	549	695	1670	104	65
27	e32	124	e76	141	96	145	453	691	482	1440	97	86
28	e39	126	e74	133	191	131	345	1080	351	1250	89	110
29	e42	120	e72	126	197	129	330	1490	289	1130	86	105
30	e40	113	e70	112	---	124	387	1640	252	1120	85	89
31	e45	---	e74	97	---	121	---	1600	---	1230	81	---
TOTAL	896	4065	2622	3333	2764	4121	7228	19957	27812	21413	10341	2424
MEAN	28.9	135	84.6	108	95.3	133	241	644	927	691	334	80.8
MAX	45	325	115	223	197	207	812	1640	1470	2000	1230	125
MIN	22	50	61	62	48	113	88	252	252	81	81	64
CFSM	.06	.30	.19	.24	.21	.30	.54	1.43	2.06	1.54	.74	.18
IN.	.07	.34	.22	.28	.23	.34	.60	1.65	2.30	1.77	.86	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	185	267	412	435	551	733	780	558	468	254	100	145
MAX	1792	1218	1274	1736	1490	2266	1672	1360	2314	1099	435	1387
(WY)	1994	1993	1968	1993	1968	1982	1950	1974	1958	1993	1990	1993
MIN	9.70	16.1	15.3	27.0	31.4	81.7	199	108	39.8	17.7	12.2	11.1
(WY)	1957	1965	1964	1963	1964	1957	1986	1958	1988	1988	1988	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	140085		106976			
ANNUAL MEAN	384		292		406	
HIGHEST ANNUAL MEAN					891	1993
LOWEST ANNUAL MEAN					77.6	1964
HIGHEST DAILY MEAN	2600	Apr 13	2000	Jul 23	5930	Jun 14 1958
LOWEST DAILY MEAN	20	Sep 5	22	Oct 2	6.3	Sep 10 1964
ANNUAL SEVEN-DAY MINIMUM	21	Sep 3	24	Oct 1	8.0	Sep 5 1964
INSTANTANEOUS PEAK FLOW			2020	Jul 23	5930	Jun 14 1958
INSTANTANEOUS PEAK STAGE			17.45	Jul 23	24.42	Jun 14 1958
ANNUAL RUNOFF (CFSM)	.85		.65		.90	
ANNUAL RUNOFF (INCHES)	11.61		8.86		12.29	
10 PERCENT EXCEEDS	1120		917		1090	
50 PERCENT EXCEEDS	190		117		194	
90 PERCENT EXCEEDS	25		53		28	

e Estimated

05536179 HART DITCH AT DYER, IN

LOCATION.--Lat 41°30'28", long 87°30'36",in NE¼NE¼ sec.12, T.35 N., R.10 W., Lake County, Hydrologic Unit 07120003, on right bank, 50 ft upstream from 213th Street in Dyer, 0.8 mi upstream from Dyer Ditch.
DRAINAGE AREA.--37.6 mi².
PERIOD OF RECORD.--October 1989 to current year.
GAGE.--Water-stage recorder. Datum of gage is 607.38 ft above sea level.
REMARKS.--Records fair except for the period of Oct. 1 to Nov. 10 and estimated daily discharges, which are poor. Low-flow affected by sewage effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	17	12	21	e3.8	21	14	43	103	6.1	86	3.8
2	2.2	24	11	22	e3.2	14	e12	29	211	5.6	55	3.9
3	2.3	2.2	11	22	e2.8	10	e11	23	177	5.4	37	4.0
4	2.7	.82	9.8	e18	e2.4	8.5	e10	22	111	5.1	26	4.1
5	2.7	.92	9.0	e14	e2.2	16	e9.2	27	64	4.8	19	4.1
6	3.5	1.5	9.1	e12	e2.0	24	e8.4	31	64	4.5	15	4.3
7	3.0	3.4	8.1	e10	e1.8	13	e7.6	28	105	4.3	12	6.4
8	2.8	8.7	7.8	e8.4	7.2	12	e7.0	25	69	4.2	11	7.2
9	2.6	14	e6.6	e7.0	15	9.4	e6.4	198	63	4.0	10	4.5
10	2.5	51	e5.2	e6.0	22	8.3	e6.0	616	224	4.1	7.7	3.9
11	2.3	375	e4.6	e5.2	18	11	e7.0	268	170	3.8	6.8	10
12	2.4	269	e4.0	e4.5	8.7	40	e7.8	164	146	3.8	6.4	9.7
13	2.4	163	e3.6	e3.8	9.0	67	e9.0	97	78	3.9	6.1	4.9
14	2.6	115	9.9	24	8.3	47	e7.0	90	47	3.9	5.6	4.1
15	2.0	72	12	22	8.2	42	e25	68	31	4.4	5.2	3.8
16	.74	48	14	22	9.4	34	e23	69	45	4.6	4.8	3.6
17	.95	38	14	31	9.1	27	e19	177	232	20	4.8	3.7
18	1.6	38	14	60	9.4	23	e15	85	414	888	4.7	3.8
19	1.8	50	17	84	9.9	20	e25	51	222	391	4.7	3.6
20	4.9	43	20	64	12	17	e270	42	157	179	4.7	3.8
21	1.0	32	e17	30	16	15	e150	100	102	168	4.8	4.3
22	.89	26	e14	19	18	13	e86	53	60	246	4.8	4.3
23	.61	21	e12	16	20	12	e300	34	37	128	4.7	4.4
24	1.6	18	e10	16	25	11	151	43	28	87	4.6	4.6
25	2.2	16	e9.0	12	27	27	89	141	21	68	4.5	4.6
26	2.5	14	e7.6	11	28	32	63	74	16	41	4.4	7.8
27	5.9	15	e6.6	12	77	20	43	251	12	40	4.3	11
28	2.9	16	e5.8	10	78	16	34	427	10	95	4.2	8.4
29	3.3	14	e5.0	8.4	27	14	43	633	8.2	44	4.1	6.0
30	3.3	13	e4.5	7.0	---	14	66	260	7.1	227	4.0	4.7
31	14	---	e4.0	e5.0	---	14	---	165	---	184	4.0	---
TOTAL	85.99	1519.54	298.2	607.3	480.4	652.2	1524.4	4334	3034.3	2878.5	380.9	157.3
MEAN	2.77	50.7	9.62	19.6	16.6	21.0	50.8	140	101	92.9	12.3	5.24
MAX	14	375	20	84	78	67	300	633	414	888	86	11
MIN	.61	.82	3.6	3.8	1.8	8.3	6.0	22	7.1	3.8	4.0	3.6
CFSM	.07	1.35	.26	.52	.44	.56	1.35	3.72	2.69	2.47	.33	.14
IN.	.09	1.50	.30	.60	.48	.65	1.51	4.29	3.00	2.85	.38	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	32.9	72.2	46.9	50.8	42.6	79.2	62.1	59.9	55.7	27.8	17.2	22.2
MAX	113	195	106	136	70.7	169	110	140	182	92.9	35.7	106
(WY)	1994	1991	1991	1993	1990	1991	1993	1996	1993	1996	1990	1993
MIN	2.77	19.6	4.92	17.7	9.89	21.0	27.4	7.48	4.21	4.46	4.65	2.41
(WY)	1996	1990	1990	1992	1993	1996	1990	1992	1992	1991	1992	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	13204.63		15953.03			
ANNUAL MEAN	36.2		43.6		47.4	
HIGHEST ANNUAL MEAN					76.6	1993
LOWEST ANNUAL MEAN					34.4	1990
HIGHEST DAILY MEAN	519	Jan 14	888	Jul 18	2580	Nov 28 1990
LOWEST DAILY MEAN	.61	Oct 23	.61	Oct 23	.61	Oct 23 1995
ANNUAL SEVEN-DAY MINIMUM	1.7	Oct 17	1.7	Oct 17	.95	Sep 17 1994
INSTANTANEOUS PEAK FLOW			1420	Jul 18	3010	Nov 28 1990
INSTANTANEOUS PEAK STAGE			10.70	Jul 18	15.33	Nov 28 1990
ANNUAL RUNOFF (CFSM)	.96		1.16		1.26	
ANNUAL RUNOFF (INCHES)	13.06		15.78		17.14	
10 PERCENT EXCEEDS	88		112		123	
50 PERCENT EXCEEDS	13		12		15	
90 PERCENT EXCEEDS	4.0		3.3		3.8	

e Estimated

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, 0.2 mi downstream from Ridge Road, and 0.4 mi upstream from mouth.
DRAINAGE AREA.--70.7 mi².
PERIOD OF RECORD.--September 1942 to current year.
REVISED RECORDS.--WDR IN-72-1: Drainage area.
GAGE.--Water-stage recorder and concrete control. Datum of gage is 591.27 ft above sea level (levels by State of Indiana, Department of Natural Resources).
REMARKS.--Records fair except for estimated daily discharges, and daily discharges above 100 ft³/s, which are poor due to possible backwater from Little Calumet River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	62	43	25	e26	66	44	91	322	30	182	13
2	14	96	41	25	e25	58	42	77	484	27	120	13
3	19	57	39	24	e23	44	40	64	381	26	89	15
4	13	36	39	e22	e22	42	39	66	225	25	71	13
5	16	28	37	e21	e21	80	37	73	142	24	59	15
6	25	25	36	e21	e20	65	36	71	199	24	50	15
7	13	24	34	e20	e20	50	35	66	230	27	51	16
8	12	24	32	e19	38	47	33	67	150	24	46	23
9	14	24	e29	e19	33	42	32	615	164	26	41	17
10	14	208	e28	e18	43	40	31	1620	393	22	33	14
11	12	965	e26	e18	39	49	32	853	275	20	25	38
12	12	601	e25	e17	29	77	35	500	214	20	29	35
13	12	250	e24	e17	29	101	36	346	139	23	30	26
14	13	158	35	25	28	87	34	262	97	22	31	17
15	13	116	33	24	27	82	66	168	76	27	25	15
16	13	92	33	24	25	73	56	134	117	23	21	15
17	13	83	32	49	25	64	48	231	483	216	21	15
18	12	81	30	109	24	57	42	139	1190	2230	25	15
19	12	86	31	113	24	53	113	100	619	1980	23	15
20	61	79	30	86	26	47	557	216	348	1140	20	16
21	19	67	e27	59	25	44	237	294	201	869	22	18
22	17	58	e25	47	26	43	621	134	128	825	28	14
23	15	53	e24	45	29	44	538	116	90	537	30	15
24	15	47	e22	46	31	44	218	116	107	363	19	15
25	13	45	e21	38	32	82	142	182	69	226	18	12
26	12	43	e20	44	48	66	108	127	56	110	18	68
27	52	53	e20	41	296	53	86	647	48	93	15	47
28	18	51	e19	37	162	49	78	1160	43	149	17	29
29	19	43	e19	32	87	46	121	1590	39	99	15	22
30	23	42	e19	29	---	43	118	919	34	720	15	18
31	51	---	e18	e27	---	45	---	528	---	435	12	---
TOTAL	578	3597	891	1141	1283	1783	3655	11572	7063	10382	1201	619
MEAN	18.6	120	28.7	36.8	44.2	57.5	122	373	235	335	38.7	20.6
MAX	61	965	43	113	296	101	621	1620	1190	2230	182	68
MIN	11	24	18	17	20	40	31	64	34	20	12	12
CFSM	.26	1.70	.41	.52	.63	.81	1.72	5.28	3.33	4.74	.55	.29
IN.	.30	1.89	.47	.60	.68	.94	1.92	6.09	3.72	5.46	.63	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

MEAN	32.3	53.0	65.2	61.7	78.4	135	131	101	68.8	36.8	27.2	28.7
MAX	282	287	279	275	236	429	363	373	423	335	155	219
(WY)	1955	1986	1983	1993	1985	1979	1947	1996	1993	1996	1990	1993
MIN	3.95	3.54	3.07	3.77	6.32	19.1	19.2	11.9	8.78	6.11	4.73	3.91
(WY)	1965	1972	1964	1977	1963	1957	1946	1958	1965	1965	1964	1956

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996	
ANNUAL TOTAL	28472		43765			
ANNUAL MEAN	78.0		120		68.1	
HIGHEST ANNUAL MEAN					160	1993
LOWEST ANNUAL MEAN					19.2	1964
HIGHEST DAILY MEAN	1210	Jan 14	2230	Jul 18	2600	Nov 28 1990
LOWEST DAILY MEAN	11	Jul 19	11	Oct 1	1.6	Dec 24 1963
ANNUAL SEVEN-DAY MINIMUM	12	Sep 25	13	Oct 11	1.7	Sep 3 1964
INSTANTANEOUS PEAK FLOW			2710	Jul 18	3010	Nov 28 1990
INSTANTANEOUS PEAK STAGE			8.03	Jul 18	8.72	Nov 28 1990
ANNUAL RUNOFF (CFSM)	1.10		1.69		.56	
ANNUAL RUNOFF (INCHES)	14.98		23.03		13.08	
10 PERCENT EXCEEDS	160		254		149	
50 PERCENT EXCEEDS	33		39		23	
90 PERCENT EXCEEDS	14		15		5.8	

e Estimated

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 upstream from Hohman Avenue bridge at north city limits of Munster, 0.4 mi upstream from Indiana-Illinois State line, and 4.6 mi upstream from Thorn Creek.
DRAINAGE AREA.--90.0 mi². During times of floods on Deep River, flow may enter basin from eastern portion of Little Calumet River Basin; or, during times of floods on Hart Ditch, flow may leave the basin and enter eastern portion of the Little Calumet River Basin.
PERIOD OF RECORD.--June 1958 to current year.
GAGE.--Water-stage recorder. Datum of gage is 580.72 ft above sea level.
REMARKS.--Records poor. Flow from eastern portion of Little Calumet River Basin is diverted to Lake Michigan by Burns Ditch. Periods of high flow frequently are in backwater from downstream storage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	e52	e42	e22	e26	e77	e46	e102	e300	e30	e200	e13
2	e17	e137	e43	e25	e25	e64	e44	e84	e290	e27	e160	e14
3	e20	e112	e42	e24	e24	e45	e42	e66	e215	e25	e120	e14
4	e15	e88	e41	e23	e22	e44	e40	e68	e165	e24	e90	e13
5	e22	e69	e40	e22	e21	e84	e38	e73	e120	e25	e73	e14
6	e26	e52	e37	e21	e20	e76	e37	e72	e130	e26	e54	e16
7	e22	e41	e35	e20	e20	e62	e35	e68	e150	e27	e50	e18
8	e13	e34	e33	e20	e64	e50	e34	e66	e130	e26	e82	e22
9	e14	e33	e31	e19	e74	e49	e33	e62	e150	e25	e60	e21
10	e14	e131	e28	e20	e56	e47	e32	e643	e180	e23	e40	e14
11	e13	e492	e26	e18	e45	e60	e34	e488	e160	e22	e32	e19
12	e12	e407	e25	e18	e33	e84	e35	e337	e140	e21	e31	e36
13	e13	e268	e24	e20	e29	e101	e37	e285	e130	e23	e29	e26
14	e13	e160	e26	e25	e29	e95	e35	e230	e113	e24	e29	e17
15	e14	e130	e34	e24	e28	e86	e68	e190	e100	e26	e25	e16
16	e14	e95	e33	e25	e27	e76	e60	e160	e88	e34	e22	e15
17	e13	e86	e32	e37	e26	e69	e52	e130	e200	e122	e21	e15
18	e12	e84	e32	e54	e25	e60	e47	e105	e500	e829	e24	e15
19	e12	e83	e30	e130	e25	e55	e100	e88	e400	e1050	e23	e16
20	e63	e85	e31	e80	e26	e50	e300	e70	e370	e742	e21	e17
21	e22	e73	e27	e62	e26	e46	e210	e170	e260	e460	e23	e18
22	e18	e63	e26	e49	e27	e43	e180	e180	e210	e390	e27	e16
23	e16	e56	e24	e36	e29	e44	e250	e120	e170	e310	e32	e15
24	e14	e49	e22	e45	e32	e45	e200	e86	e140	e250	e20	e15
25	e13	e47	e21	e40	e33	e84	e160	e112	e110	e210	e18	e13
26	e13	e44	e20	e44	e54	e66	e120	e103	e90	e160	e17	e45
27	e55	e50	e20	e42	e241	e54	e90	e500	e74	e130	e15	e55
28	e24	e48	e19	e39	e145	e50	e68	e180	e60	e110	e16	e34
29	e22	e50	e19	e35	e98	e46	e120	e1000	e47	e80	e15	e26
30	e21	e43	e18	e30	---	e45	e130	e700	e40	e170	e14	e17
31	e57	---	e18	e27	---	e45	---	e400	---	e300	e12	---
TOTAL	629	3162	899	1096	1330	1902	2677	6938	5232	5721	1395	605
MEAN	20.3	105	29.0	35.4	45.9	61.4	89.2	224	174	185	45.0	20.2
MAX	63	492	43	130	241	101	300	1000	500	1050	200	55
MIN	12	33	18	18	20	43	32	62	40	21	12	13
CFSM	.23	1.17	.32	.39	.51	.68	.99	2.49	1.94	2.05	.50	.22
IN.	.26	1.31	.37	.45	.55	.79	1.11	2.87	2.16	2.36	.58	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

MEAN	36.6	63.1	78.8	64.8	84.1	135	136	98.8	72.6	41.8	37.2	42.3
MAX	151	212	301	199	252	386	268	266	222	185	141	217
(WY)	1994	1973	1983	1993	1959	1979	1973	1959	1993	1996	1990	1965
MIN	6.47	5.29	7.12	7.32	8.49	32.4	21.3	18.1	11.2	9.56	7.28	5.54
(WY)	1969	1972	1961	1961	1963	1964	1963	1992	1965	1965	1964	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1959 - 1996	
ANNUAL TOTAL	20919.7		31586			
ANNUAL MEAN	57.3		86.3		74.1	
HIGHEST ANNUAL MEAN					121	1973
LOWEST ANNUAL MEAN					23.5	1964
HIGHEST DAILY MEAN	519	Jan 15	1050	Jul 19	1160	Apr 28 1959
LOWEST DAILY MEAN	7.4	Sep 30	12	Oct 1	1.9	Aug 16 1964
ANNUAL SEVEN-DAY MINIMUM	8.4	Aug 31	13	Oct 12	2.2	Sep 2 1964
INSTANTANEOUS PEAK FLOW			Unknown		1510	Apr 28 1959
INSTANTANEOUS PEAK STAGE			16.14	Jul 19	17.03	Nov 28 1990
ANNUAL RUNOFF (CFSM)	.64		.96		.82	
ANNUAL RUNOFF (INCHES)	8.65		13.06		11.19	
10 PERCENT EXCEEDS	148		193		190	
50 PERCENT EXCEEDS	27		42		33	
90 PERCENT EXCEEDS	10		16		8.6	

e Estimated

05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN

LOCATION.--Lat 41°37'28", long 87°31'04", in NE¼NW¼ sec. 36, T37 N., R10 W., Lake County, Hydrologic Unit 07120003, on left bank, 20 feet upstream of Hohman Avenue, 1,000 feet east of Indiana-Illinois State line, 1,300 feet south of 173rd street, 1.0 mile north of U. S. Highway 41.
DRAINAGE AREA.--Indeterminate.
PERIOD OF RECORD.--October 1991 to current year.
GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above sea level.
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

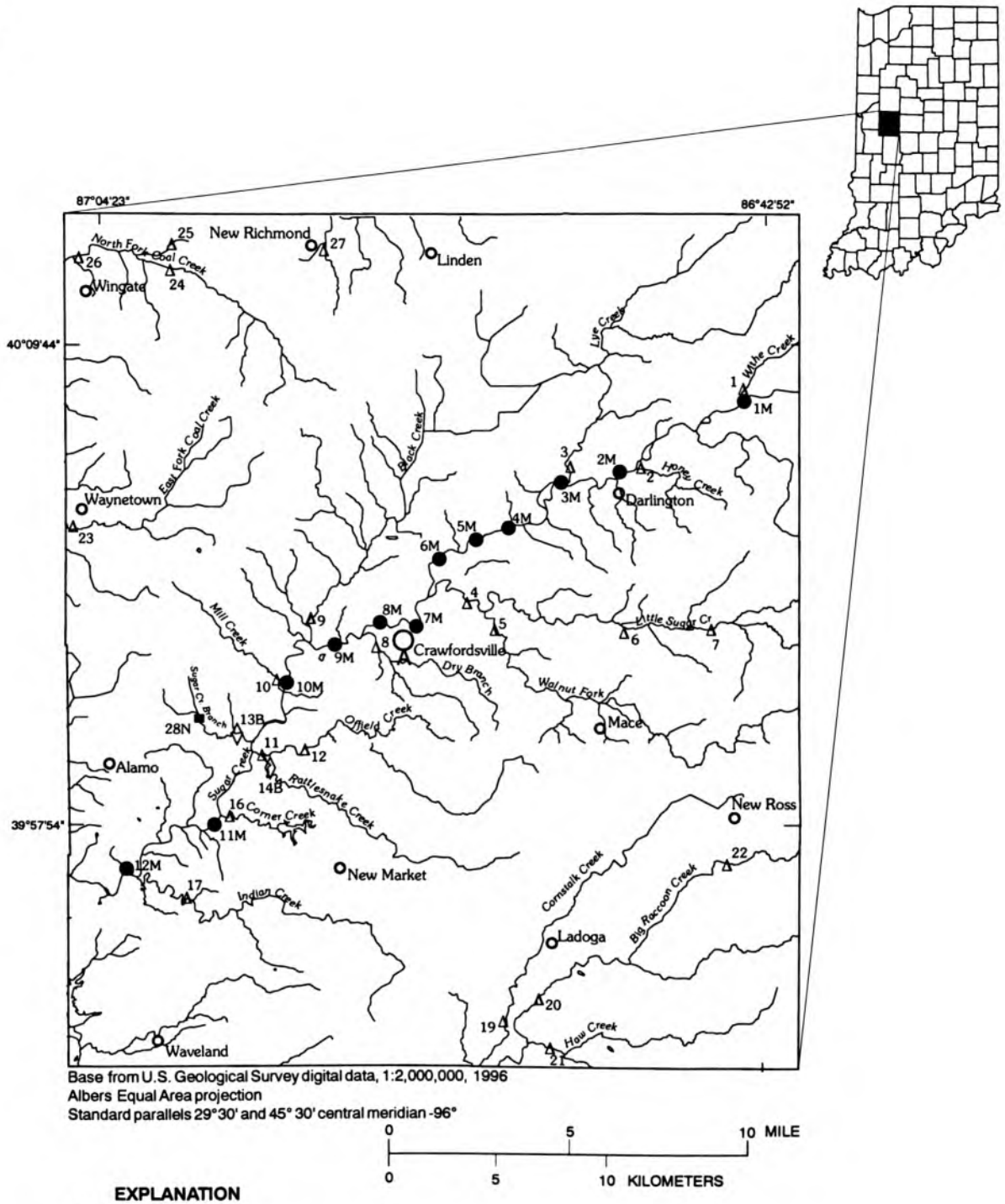
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	e30	25	21	18	19	21	31	65	55	57	30
2	e19	e44	23	30	19	20	18	29	78	58	55	29
3	e26	27	25	24	20	18	20	33	64	63	53	28
4	e22	27	23	19	20	18	32	37	71	56	53	28
5	e25	25	22	19	20	28	23	38	64	49	51	27
6	e30	e24	20	19	19	34	20	38	65	45	50	29
7	e20	e23	20	23	17	28	20	35	69	46	51	30
8	e17	24	20	17	19	21	18	38	65	45	74	27
9	e24	e28	21	18	18	18	18	64	70	48	55	28
10	e22	e50	19	18	17	17	18	83	74	43	50	e29
11	e18	123	19	17	23	18	17	71	71	38	50	e30
12	e22	43	20	17	20	18	26	48	66	37	48	e31
13	e22	36	20	18	18	18	29	54	61	38	47	e32
14	e23	36	25	19	20	18	26	47	60	35	46	e33
15	e18	33	21	20	19	19	33	46	58	34	48	e34
16	e19	e30	19	16	20	20	23	48	61	34	45	e35
17	e21	e37	20	20	20	19	21	49	75	62	44	e36
18	e18	e33	24	23	18	19	20	45	125	279	43	38
19	e17	e33	37	22	17	25	34	41	84	170	44	32
20	e37	27	24	18	18	76	46	56	70	91	41	26
21	e17	27	22	18	24	34	28	65	66	65	40	26
22	e19	26	20	17	20	19	40	53	66	54	40	25
23	e21	27	19	20	20	17	35	58	64	49	44	26
24	e18	23	18	25	17	17	28	62	74	46	39	27
25	e20	24	18	18	17	24	29	64	67	46	32	22
26	e17	25	18	22	22	18	32	59	62	45	31	30
27	e36	45	22	20	57	18	27	82	62	47	40	30
28	e25	42	19	18	27	19	29	130	59	52	40	19
29	e22	27	17	17	21	19	49	249	54	50	36	16
30	e31	24	17	17	---	18	35	124	53	87	35	19
31	e34	---	18	18	---	23	---	76	---	65	33	---
TOTAL	700	1023	655	608	605	697	815	1953	2043	1932	1415	852
MEAN	22.6	34.1	21.1	19.6	20.9	22.5	27.2	63.0	68.1	62.3	45.6	28.4
MAX	37	123	37	30	57	76	49	249	125	279	74	38
MIN	17	23	17	16	17	17	17	29	53	34	31	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	37.1	37.6	29.2	28.4	27.7	31.2	39.1	44.6	58.0	56.3	43.5	42.0
MAX	70.1	58.9	40.0	37.6	40.8	43.1	49.7	63.0	98.8	102	74.2	81.2
(WY)	1994	1994	1994	1993	1994	1994	1994	1996	1993	1993	1993	1993
MIN	17.7	21.5	20.8	19.6	19.0	20.1	27.2	29.6	21.1	24.2	19.1	25.3
(WY)	1993	1993	1993	1996	1995	1995	1996	1992	1992	1992	1992	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	11247		13298			
ANNUAL MEAN	30.8		36.3		39.6	
HIGHEST ANNUAL MEAN					51.6	1993
LOWEST ANNUAL MEAN					24.9	1992
HIGHEST DAILY MEAN	123	Nov 11	279	Jul 18	279	Jul 18 1996
LOWEST DAILY MEAN	15	Feb 12	16	Jan 16	12	Sep 6 1992
ANNUAL SEVEN-DAY MINIMUM	15	Feb 12	18	Jan 8	14	Aug 20 1992
INSTANTANEOUS PEAK FLOW			363	Jul 18	694	Sep 9 1992
INSTANTANEOUS PEAK STAGE			8.76	Jul 18	8.76	Jul 18 1996
10 PERCENT EXCEEDS	52		64		66	
50 PERCENT EXCEEDS	25		28		35	
90 PERCENT EXCEEDS	18		18		18	

e Estimated



Base from U.S. Geological Survey digital data, 1:2,000,000, 1996
Albers Equal Area projection
Standard parallels 29°30' and 45° 30' central meridian -96°

0 5 10 MILE

0 5 10 KILOMETERS

EXPLANATION

- Site of Outfall to Sugar Creek
- 7M Sampling site and site number for Sugar Creek sampled April and August 1996
- 5 Site number and site for streams near Sugar Creek sampled August-September 1996
- 14B Site number and site for streams near Sugar Creek for alternate sampling site
- 28N Site number and site for streams near Sugar Creek sampled for nutrients only August-September 1996

Figure 7.--Water-quality sampling-site numbers for Sugar Creek and other sampling sites in Montgomery County, Ind.

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

SUGAR CREEK IN MONTGOMERY COUNTY

Water-quality data listed below are from water samples collected at various sites on Sugar Creek in Montgomery County, Indiana. The sampling was conducted through a cooperative agreement between the Montgomery County Commissioners and the U.S. Geological Survey. **Note**: The samples for lead were taken from streambed sediments. **Note**: The data for Aroclors 1242, 1254, and 1260 represent samples collected from streambed sediments. The remainder of the chemical elements were collected and analyzed from water samples.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
400824086432601	SITE 1M	SUGAR CR at CR950E nr COLFAX, IN.						(LAT 40 08 24N LONG 086 43 26W)				
APR 16...	0930	599	8.2	--	8.0	11.8	K1	--	310	80	61	17
AUG 29...	0953	680	8.3	22.0	21.0	9.0	110	--	--	--	--	--
400628086473701	SITE 2M	SUGAR CR at CR550E nr DARLINGTON, IN.						(LAT 40 06 28N LONG 086 47 37W)				
APR 16...	1030	583	8.2	--	8.0	12.6	K2	--	310	81	18	11
AUG 29...	1204	641	8.3	26.0	24.0	10.2	94	--	--	--	--	--
400626086492501	SITE 3M	SUGAR CR at CR425E nr DARLINGTON, IN.						(LAT 40 06 26N LONG 086 49 25W)				
APR 18...	0830	672	8.2	--	11.0	10.4	K1	--	320	80	51	11
AUG 29...	1455	596	8.4	29.0	25.0	12.0	67	--	--	--	--	--
400515086510801	SITE 4M	SUGAR CR at CR275E nr GARFIELD, IN.						(LAT 40 05 15N LONG 086 51 08W)				
APR 18...	0930	660	8.2	--	11.5	10.2	K4	K4	320	80	47	13
AUG 26...	1215	592	8.3	31.0	24.5	10.4	67	--	280	64	7	7
400459086521501	SITE 5M	SUGAR CR at CR175E nr GARFIELD, IN.						(LAT 40 04 59N LONG 086 51 15W)				
APR 18...	1030	650	8.4	--	12.5	11.9	K1	K5	320	79	43	10
AUG 26...	1025	592	8.2	31.0	23.0	9.8	80	--	280	63	5	5
400434086531901	SITE 6M	SUGAR CR at I-74 BR nr CRAWFORDSVILLE, IN.						(LAT 40 04 34N LONG 086 53 19W)				
APR 17...	1330	610	8.6	--	12.5	14.1	K1	--	310	79	48	7
AUG 27...	1512	564	8.4	28.0	25.5	11.8	58	--	--	--	--	--
400251086540301	SITE 7M	SUGAR CR at SR231 at CRAWFORDSVILLE, IN.						(LAT 40 02 51N LONG 086 54 03W)				
APR 15...	1330	654	8.4	--	11.5	10.5	35	--	290	73	45	11
AUG 27...	1149	698	8.1	30.0	23.5	8.5	60	--	--	--	--	--
400300086552101	SITE 8M	SUGAR CR at SR136 nr CRAWFORDSVILLE, IN.						(LAT 40 03 00N LONG 086 55 21W)				
APR 16...	1300	625	8.1	--	9.0	12.5	<2	36	320	82	59	10
AUG 26...	1500	782	8.3	28.0	26.0	10.6	200	--	300	70	41	8
400227086564601	SITE 9M	SUGAR CR at CR225W nr CRAWFORDSVILLE, IN.						(LAT 40 02 27N LONG 086 56 46W)				
APR 15...	1000	679	8.2	--	11.5	9.9	K1500	--	300	75	59	12
AUG 27...	1350	726	8.3	30.0	26.0	11.2	66	--	--	--	--	--
400131086581601	SITE 10M	SUGAR CREEK at SR32 at YOUNTSVILLE, IN.						(LAT 40 01 31N LONG 086 58 16W)				
APR 17...	1200	661	8.6	--	11.5	14.8	45	--	320	80	49	8
AUG 28...	1340	714	8.4	27.0	24.5	12.0	110	--	--	--	--	--
395757087004701	SITE 11M	SUGAR CREEK at DAVIS BRIDGE RD nr ALAMO, IN.						(LAT 39 57 57N LONG 087 00 47W)				
APR 17...	1100	667	8.5	--	10.0	13.7	<1	--	320	82	47	7
AUG 28...	1423	666	8.6	28.0	26.0	13.5	130	--	--	--	--	--
395646087033001	SITE 12M	SUGAR CR at DEER MILL BRIDGE nr ALAMO, IN.						(LAT 39 56 46N LONG 087 30W)				
APR 17...	0900	667	8.4	--	7.5	12.2	<1	--	320	82	44	7
AUG 28...	1502	669	8.6	28.0	27.0	14.1	48	--	--	--	--	--

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

SUGAR CREEK IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
400824086432601	SITE 1M	SUGAR CR at CR950E nr COLFAX, IN.					(LAT 40 08 24N LONG 086 43 26W)				
APR 16...	27	15	9	0.4	1.4	57	40	0.3	0.54	382	378
400628086473701	SITE 2M	SUGAR CR at CR550E nr DARLINGTON, IN.					(LAT 40 06 28N LONG 086 47 37W)				
APR 16...	27	15	9	0.4	1.4	56	39	0.3	0.41	380	381
400626086492501	SITE 3M	SUGAR CR at CR425E nr DARLINGTON, IN.					(LAT 40 06 26N LONG 086 49 25W)				
APR 18...	29	14	9	0.3	1.5	59	36	0.2	0.31	370	376
400515086510801	SITE 4M	SUGAR CR at CR275E nr GARFIELD, IN.					(LAT 40 05 15N LONG 086 51 08W)				
APR 18...	29	14	9	0.3	1.5	60	36	0.2	0.31	366	377
AUG 26...	30	17	11	0.4	2.4	50	28	0.3	5.5	325	335
400459086521501	SITE 5M	SUGAR CR at CR175E nr GARFIELD, IN.					(LAT 40 04 59N LONG 086 52 15W)				
APR 18...	29	14	9	0.3	1.5	60	37	0.2	0.31	356	374
AUG 26...	30	16	11	0.4	2.3	51	27	0.3	5.5	338	335
400434086531901	SITE 6M	SUGAR CR at I-74 BR nr CRAWFORDSVILLE, IN.					(LAT 40 04 34N LONG 086 53 19W)				
APR 17...	28	14	9	0.3	1.5	61	37	0.2	0.35	355	372
400251086540301	SITE 7M	SUGAR CR at SR231 at CRAWFORDSVILLE, IN.					(LAT 40 02 51N LONG 086 54 03W)				
APR 15...	27	14	9	0.4	1.5	61	34	0.2	0.35	370	363
400300086552101	SITE 8M	SUGAR CR at SR136 nr CRAWFORDSVILLE, IN.					(LAT 40 03 00N LONG 086 55 21W)				
APR 16...	28	20	12	0.5	1.7	62	45	0.3	0.79	412	402
AUG 26...	31	42	23	1	3.8	71	71	0.3	6.2	479	441
400227086564601	SITE 9M	SUGAR CR at CR225W nr CRAWFORDSVILLE, IN.					(LAT 40 02 27N LONG 086 56 46W)				
APR 15...	28	19	12	0.5	1.7	61	44	0.3	0.48	386	384
400131086581601	SITE 10M	SUGAR CREEK at SR32 at YOUNTSVILLE, IN.					(LAT 40 01 31N LONG 086 58 16W)				
APR 17...	29	17	10	0.4	1.7	64	42	0.2	0.69	383	390
395757087004701	SITE 11M	SUGAR CREEK at DAVIS BRIDGE RD nr ALAMO, IN.					(LAT 39 57 57N LONG 087 00 47W)				
APR 17...	28	18	11	0.4	1.8	63	42	0.2	0.52	386	394
395646087033001	SITE 12M	SUGAR CR at DEER MILL BRIDGE nr ALAMO, IN.					(LAT 39 56 46N LONG 087 03 30W)				
APR 17...	29	18	11	0.4	1.7	61	42	0.2	0.34	400	393

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

SUGAR CREEK IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	AROCLOR 1242 PCB BOT.MAT (UG/KG) (39299)	AROCLOR 1254 PCB BOT.MAT (UG/KG) (39507)	AROCLOR 1260 PCB BOT.MAT (UG/KG) (39511)
400824086432601	SITE 1M	SUGAR CR at CR950E nr COLFAX, IN.					(LAT 40 08 24N LONG 086 43 26W)					
APR 16...	0.09	6.0	<0.015	0.4	0.4	0.05	0.03	0.02	--	--	--	--
400628086473701	SITE 2M	SUGAR CR at CR550E nr DARLINGTON, IN.					(LAT 40 06 28N LONG 086 47 37W)					
APR 16...	0.09	6.6	<0.015	0.4	0.4	0.05	0.01	<0.01	--	--	--	--
400626086492501	SITE 3M	SUGAR CR at CR425E nr DARLINGTON, IN.					(LAT 40 06 26N LONG 086 49 25W)					
APR 18...	0.07	5.6	0.02O	0.4	0.4	0.04	0.01	<0.01	--	--	--	--
400515086510801	SITE 4M	SUGAR CR at CR275E nr GARFIELD, IN.					(LAT 40 05 15N LONG 086 51 08W)					
APR 18...	0.07	5.6	<0.015	0.4	0.3	0.03	0.02	<0.01	--	--	--	--
AUG 26...	0.03	1.9	0.020	0.5	0.4	0.01	<0.01	<0.01	--	--	--	--
400459086521501	SITE 5M	SUGAR CR at CR175E nr GARFIELD, IN.					(LAT 40 04 59N LONG 086 52 15W)					
APR 18...	0.06	5.6	<0.015	0.4	0.4	0.04	0.02	<0.01	--	--	--	--
AUG 26...	0.02	2.1	<0.015	0.6	0.4	0.02	<0.01	<0.01	--	--	--	--
400434086531901	SITE 6M	SUGAR CR at I-74 BR nr CRAWFORDSVILLE, IN.					(LAT 40 04 34N LONG 086 53 19W)					
APR 17...	0.06	6.1	<0.015	0.5	0.4	0.03	0.02	<0.01	10	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0
400251086540301	SITE 7M	SUGAR CR at SR231 at CRAWFORDSVILLE, IN.					(LAT 40 02 51N LONG 086 54 03W)					
APR 15...	0.09	6.2	0.020	0.4	0.3	0.02	<0.01	<0.01	--	--	--	--
400300086552101	SITE 8M	SUGAR CR @SR136 NR CRAWFORDSVILLE, IN.					(LAT 40 03 00N LONG 086 55 21W)					
APR 16...	0.08	6.2	<0.015	0.4	0.3	0.05	0.03	0.03	10	--	--	--
AUG 26...	0.03	3.5	0.030	0.6	0.5	0.24	0.14	0.16	--	--	--	--
400227086564601	SITE 9M	SUGAR CR at CR225W nr CRAWFORDSVILLE, IN.					(LAT 40 02 27N LONG 086 56 46W)					
APR 15...	0.08	6.1	0.020	0.5	0.3	0.06	0.03	0.02	10	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	--	6.3	8.4	<1.0
400131086581601	SITE 10M	SUGAR CREEK at SR32 at YOUNTSVILLE, IN.					(LAT 40 01 31N LONG 086 58 16W)					
APR 17...	0.05	5.5	<0.015	0.4	0.2	0.04	0.02	0.02	--	--	--	--
395757087004701	SITE 11M	SUGAR CREEK at DAVIS BRIDGE RD nr ALAMO, IN.					(LAT 39 57 57N LONG 087 00 47W)					
APR 17...	0.05	5.3	<0.015	0.5	0.3	0.03	0.02	0.02	--	--	--	--
395646087033001	SITE 12M	SUGAR CR at DEER MILL BRIDGE nr ALAMO, IN					(LAT 39 56 46N LONG 087 03 30W)					
APR 17...	0.05	5.3	<0.015	0.3	0.3	0.02	<0.01	<0.01	--	--	--	--

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY

Water-quality data listed below are from water samples collected at various sites from streams in Montgomery County, Indiana. The sampling was conducted through a cooperative agreement between the Montgomery County Commissioners and the U.S.Geological Survey. **Note:** The analytical results are for constitutents collected from the surface waters except for Lead and Aroclors 1242, 1254, and 1260. Recoverable lead and and all three aroclors were analyzed from samples collected in streambed sediments.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
400251086540302 SITE A OUTFALL to SUGAR CR abv. SR231 at CRAWFORDSVILLE, IN. (LAT 40 02 51N LONG 086 54 03W)												
APR 15...	1530	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	1130	6090	9.6	30.0	27.5	6.3	--	--	--	--	--	--
400826086433001 SITE 1 WITHE CR nr CR950E & SUGAR CR nr COLFAX, IN. (LAT 40 08 26N LONG 086 43 30W)												
AUG 29...	0920	641	8.2	22.0	18.0	9.1	600	330	81	8	4	30
400641086462901 SITE 2 HONEY CR at MADISON ST. at DARLINGTON, IN. (LAT 40 06 41N LONG 086 46 29W)												
AUG 29...	1045	892	7.8	23.5	19.0	7.7	930	360	95	19	18	31
400643086491201 SITE 3 LYE CR at CR500N nr CR425E nr DARLINGTON, IN. (LAT 40 06 43N LONG 086 49 12W)												
AUG 29...	1240	615	8.4	28.0	22.5	10.4	74	320	74	8	6	33
400329086522801 SITE 4 WALNUT FORK at SR47 nr CRAWFORDSVILLE, IN. (LAT 40 03 29N LONG 086 52 28W)												
AUG 27...	1630	702	8.1	25.0	23.5	8.9	120	330	81	7	6	32
03339460 SITE 5 WALNUT FORK SUGAR CR at SR32 nr CRAWFORDSVILLE, IN. (LAT 40 02 49N LONG 086 51 33W)												
AUG 29...	1545	891	8.1	26.0	24.0	9.0	170	390	96	51	23	37
400251086472201 SITE 6 LITTLE SUGAR CR at CR625E nr SR32 nr SMARTSBURG, IN. (LAT 40 02 51N LONG 086 47 22W)												
AUG 30...	0915	768	8.0	22.0	19.5	8.0	470	390	96	<3	4	36
400247086443801 SITE 7 L.SUGAR CR. nr.SR32 abv. CR775E nr SHANNONDALE, IN. (LAT 40 02 47N LONG 086 44 38W)												
AUG 30...	1130	618	7.8	29.5	21.5	6.1	460	280	64	25	47	30
400221086552501 SITE 8 DRY BR at WABASH AVE at CRAWFORDSVILLE, IN. (LAT 40 02 21N LONG 086 55 25W)												
AUG 28...	1100	760	8.2	23.0	17.0	10	670	380	97	4	2	33
400305086573301 SITE 9 BLACK CR at CR100N nr CR300W nr CRAWFORDSVILLE, IN. (LAT 40 03 05N LONG 086 57 33W)												
SEP 05...	1000	758	8.1	26.0	19.0	9.4	1500	350	91	3	9	30
400129086583501 SITE 10 MILL CR at SR32 at YOUNTSVILLE, IN. (LAT 40 01 29N LONG 086 58 35W)												
AUG 28...	1245	630	8.3	24.0	20.0	9.9	190	350	84	4	6	33
395943086591501 SITE 11 OFFIELD CR at CR450W nr CR250S nr YOUNTSVILLE, IN. (LAT 39 59 43N LONG 086 59 15W)												
SEP 04...	1210	564	7.9	29.0	23.0	8.5	160	290	73	7	42	25
395947086575001 SITE 12 OFFIELD CR at CR325W nr CR300S nr YOUNTSVILLE, IN. (LAT 39 59 47N LONG 086 57 50W)												
SEP 04...	1505	470	8.5	30.5	25.0	13.1	190	240	54	5	4	26
400160087000201 SITE 13B SUGAR CR. BRANCH at FALL CR RD (BR 141) nr HIBERNIA, IN.(LAT 40 00 16N LONG 087 00 02W)												
SEP 04...	1610	655	8.1	30.0	16.5	9.4	400	340	88	<3	5	30

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
400251086540302 SITE A	OUTFALL to SUGAR CR abv. SR231 at CRAWFORDSVILLE, IN. (LAT 40 02 51N LONG 086 54 03W)										
APR 15...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	--	--	--
400826086433001 SITE 1	WITHE CR nr CR950E & SUGAR CR nr COLFAX, IN. (LAT 40 08 26N LONG 086 43 30W)										
AUG 29...	9.5	6	0.2	2.1	48	20	0.2	7.6	377	367	0.02
400641086462901 SITE 2	HONEY CR at MADISON ST. at DARLINGTON, IN. (LAT 40 06 41N LONG 086 46 29W)										
AUG 29...	45	21	1	4.2	55	70	0.3	9.3	512	505	0.04
400643086491201 SITE 3	LYE CR at CR500N nr CR425E nr DARLINGTON, IN. (LAT 40 06 43N LONG 086 49 12W)										
AUG 29...	9.2	6	0.2	2.0	58	18	0.3	5.4	346	352	<0.01
400329086522801 SITE 4	WALNUT FORK at SR47 nr CRAWFORDSVILLE, IN. (LAT 40 03 29N LONG 086 52 28W)										
AUG 27...	18	10	0.4	2.5	67	34	0.3	6.4	409	405	0.03
03339460 SITE 5	WALNUT FORK SUGAR CR at SR32 nr CRAWFORDSVILLE, IN. (LAT 40 02 49N LONG 086 51 33W)										
AUG 29...	39	18	0.9	2.7	140	54	0.5	6.5	559	528	0.01
400251086472201 SITE 6	LITTLE SUGAR CR at CR625E nr SR32 nr SMARTSBURG, IN. (LAT 40 02 51N LONG 086 47 22W)										
AUG 30...	12	6	0.3	2.6	58	25	0.2	7.7	437	457	0.03
400247086443801 SITE 7	L.SUGAR CR. nr SR32 abv. CR775E nr SHANNONDALE, IN. (LAT 40 02 47N LONG 086 44 38W)										
AUG 30...	16	11	0.4	4.6	42	33	0.2	3.0	355	335	0.09
400221086552501 SITE 8	DRY BR at WABASH AVE at CRAWFORDSVILLE, IN. (LAT 40 02 21N LONG 086 55 25W)										
AUG 28...	15	8	0.3	2.2	68	33	0.1	9.7	417	419	0.01
400305086573301 SITE 9	BLACK CR at CR100N nr CR300W nr CRAWFORDSVILLE, IN. (LAT 40 03 05N LONG 086 57 33W)										
SEP 05...	17	9	0.4	2.1	90	38	0.2	7.8	403	411	0.02
400129086583501 SITE 10	MILL CR at SR32 at YOUNTSVILLE, IN. (LAT 40 01 29N LONG 086 58 35W)										
AUG 28...	6.2	4	0.1	2.0	55	13	0.2	13	347	346	0.01
395943086591501 SITE 11	OFFIELD CR at CR450W nr CR250S nr YOUNTSVILLE, IN. (LAT 39 59 43N LONG 086 59 15W)										
SEP 04...	9.5	7	0.2	2.2	37	20	0.2	6.9	314	316	<0.01
395947086575001 SITE 12	OFFIELD CR at CR325W nr CR300S nr YOUNTSVILLE, IN. (LAT 39 59 47N LONG 086 57 50W)										
SEP 04...	8.8	7	0.2	1.8	40	20	0.2	4.5	265	270	<0.01
400016087000201 SITE 13B	SUGAR CR. BRANCH at FALL CR RD (BR 141) nr HIBERNIA, IN.(LAT 40 00 16N LONG 087 00 02W)										
SEP 04...	5.0	3	0.1	2.0	42	10	0.2	14	351	356	0.03

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	AROCLOR 1242 PCB BOT.MAT (UG/KG) (39499)	AROCLOR 1254 PCB BOT.MAT (UG/KG) (39507)	AROCLOR 1260 PCB BOT.MAT (UG/KG) (39511)
400251086540302 SITE A	OUTFALL to SUGAR CR abv. SR231 at CRAWFORDSVILLE, IN (LAT 40 02 51N LONG 086 54 03W)										
APR 15...	--	--	--	--	--	--	--	30	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	27.0	46.0	<1.0
400826086433001 SITE 1	WITHE CR nr CR950E & SUGAR CR nr COLFAX, IN. (LAT 40 08 26N LONG 086 43 30W)										
AUG 29...	3.9	0.020	0.3	0.3	0.04	0.02	0.02	--	--	--	--
400641086462901 SITE 2	HONEY CR at MADISON ST. at DARLINGTON, IN. (LAT 40 06 41N LONG 086 46 29W)										
AUG 29...	2.5	0.040	<0.2	0.2	0.30	0.28	0.31	--	--	--	--
400643086491201 SITE 3	LYE CR at CR500N nr CR425E nr DARLINGTON, IN. (LAT 40 06 43N LONG 086 49 12W)										
AUG 29...	0.42	0.020	0.3	0.3	0.05	0.03	0.03	--	--	--	--
400329086522801 SITE 4	WALNUT FORK at SR47 nr CRAWFORDSVILLE, IN. (LAT 40 03 29N LONG 086 52 28W)										
AUG 27...	5.4	0.050	0.4	0.4	<0.01	<0.01	0.01	--	190	81.0	4.3
03339460 SITE 5	WALNUT FORK SUGAR CR at SR32 nr CRAWFORDSVILLE, IN. (LAT 40 02 49N LONG 086 51 33W)										
AUG 29...	0.51	0.03	0.30	0.30	0.04	0.03	0.02	--	--	--	--
400251086472201 SITE 6	LITTLE SUGAR CR at CR625E nr SR32 nr SMARTSBURG, IN. (LAT 40 02 51N LONG 086 47 22W)										
AUG 30...	14.0	0.030	0.3	0.4	0.02	0.02	0.01	--	--	--	--
400247086443801 SITE 7	L.SUGAR CR. nr SR32 abv. CR775E nr SHANNONDALE, IN. (LAT 40 02 47N LONG 086 44 38W)										
AUG 30...	1.5	0.180	1.1	0.9	0.09	0.08	0.06	--	--	--	--
400221086552501 SITE 8	DRY BR at WABASH AVE at CRAWFORDSVILLE, IN. (LAT 40 02 21N LONG 086 55 25W)										
AUG 28...	2.7	0.020	<0.2	<0.2	<0.01	<0.01	0.01	--	--	--	--
400305086573301 SITE 9	BLACK CR at CR100N nr CR300W nr CRAWFORDSVILLE, IN. (LAT 40 03 05N LONG 086 57 33W)										
SEP 05...	1.2	0.020	<0.2	<0.2	0.01	<0.01	<0.01	--	--	--	--
400129086583501 SITE 10	MILL CR at SR32 at YOUNTSVILLE, IN. (LAT 40 01 29N LONG 086 58 35W)										
AUG 28...	1.4	0.020	<0.2	<0.2	0.04	0.02	0.02	--	--	--	--
395943086591501 SITE 11	OFFIELD CR at CR450W nr CR250S nr YOUNTSVILLE, IN. (LAT 39 59 43N LONG 086 59 15W)										
SEP 04...	0.15	0.020	<0.2	<0.2	<0.01	<0.01	0.02	--	--	--	--
395947086575001 SITE 12	OFFIELD CR at CR325W nr CR300S nr YOUNTSVILLE, IN. (LAT 39 59 47N LONG 086 57 50W)										
SEP 04...	0.48	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	--	--	--	--
400016087000201 SITE 13B	SUGAR CR. BRANCH at FALL CR RD (BR 141) nr HIBERNIA, IN.(LAT 40 00 16N LONG 087 00 02W)										
SEP 04...	2.0	<0.015	<0.2	<0.2	0.02	0.01	0.03	--	--	--	--

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS/ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
395941086590801 SITE 14B		RATTLESNAKE CR at CR250S nr CRAWFORDSVILLE, IN.						(LAT 39 59 41N LONG 086 59 08W)				
SEP 04...	1250	633	7.5	29.0	21.5	4.2	67	300	80	52	410	25
395810087002301 SITE 16		CORNER CR at CR550W nr CR450S nr YOUNTSVILLE, IN.						(LAT 39 58 10N LONG 087 00 23W)				
SEP 04...	1045	537	8.2	25.5	20.0	8.6	360	280	70	3	23	25
395603087013901 SITE 17		INDIAN CR at CR650W nr CR800S nr NEW MARKET, IN.						(LAT 39 56 03N LONG 087 01 39W)				
AUG 28...	1530	355	8.5	26.0	26.0	10	67000	170	32	7	9	23
395222086513901 SITE 19		CORNSTALK CR at CR1150S nr CR225E nr LADOGA, IN.						(LAT 39 52 22N LONG 086 51 39W)				
SEP 03...	1535	508	8.4	29.5	25.0	13.7	640	250	57	31	27	27
395339086501101 SITE 20		BIG RACCOON CR at CR1000N nr CR350E nr LADOGA, IN.						(LAT 39 53 39N LONG 086 50 11W)				
SEP 03...	1415	698	8.0	28.0	24.0	9.5	280	320	80	5	26	28
395228086494701 SITE 21		HAW CR at CR350E nr CR1100S nr LADOGA, IN.						(LAT 39 52 28N LONG 086 49 47W)				
SEP 03...	1715	616	7.6	27.5	22.0	6.9	200	310	79	12	78	27
395700086440001 SITE 22		BIG RACCOON CR at CR900E nr CR 600S nr NEW ROSS, IN.						(LAT 39 57 00N LONG 086 44 00W)				
SEP 03...	1100	585	7.6	27.5	23.5	2.4	360	280	66	5	75	29
400524087053001 SITE 23		E FK COAL CR at CR1000W nr SR136 nr WAYNETOWN, IN.						(LAT 40 05 24N LONG 087 05 30W)				
SEP 05...	1130	731	8.1	26.5	19.5	8.6	2000	350	90	11	29	31
401155087045801 SITE 24		N FK COAL CR at CR950W nr CR1125N nr WINGATE, IN.						(LAT 40 11 55N LONG 087 04 58W)				
SEP 05...	1330	702	7.8	30.0	20.5	7.5	560	350	90	26	76	30
401209087020801 SITE 25		UNNAMED TRIB to N FK COAL CR at 700W nr WINGATE, IN.						(LAT 40 12 09N LONG 087 02 08W)				
SEP 05...	1415	781	8.1	30.0	20.0	11.5	40	370	99	<3	1	31
401137087020801 SITE 26		N FK COAL CR at CR700W nr CR950N nr WINGATE, IN.						(LAT 40 11 37N LONG 087 02 08W)				
SEP 05...	1515	635	8.2	30.0	26.5	13.4	1100	320	79	17	36	29
401204086570201 SITE 27		PHILLIP DEWEY DITCH at CR1100N nr NEW RICHMOND, IN.						(LAT 40 12 04N LONG 086 57 02W)				
SEP 05...	1625	592	7.9	31.0	19.0	7.4	1400	300	77	12	35	26
400038087011001 SITE 28N		SUGAR CR BRANCH at CR200S nr HIBERNIA, IN.						(LAT 40 00 38N LONG 087 01 10W)				
SEP 05...	1815	592	8.0	28.0	20.0	9.0	250	--	--	--	--	--

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
395941086590801 SITE 14B	RATTLESNAKE CR at CR250S nr CRAWFORDSVILLE, IN.						(LAT 39 59 41N LONG 086 59 08W)				
SEP 04...	9.1	6	0.2	2.6	29	19	0.2	9.6	348	342	<0.01
395810087002301 SITE 16	CORNER CR at CR550W nr CR450S nr YOUNTSVILLE, IN.						(LAT 39 58 10N LONG 087 00 23W)				
SEP 04...	7.2	5	0.2	2.0	34	14	0.2	7.8	287	293	<0.01
395603087013901 SITE 17	INDIAN CR at CR650W nr CR800S nr NEW MARKET, IN.						(LAT 39 56 03N LONG 087 01 39W)				
AUG 28...	6.9	8	0.2	1.7	28	10	0.2	16	216	207	<0.01
395222086513901 SITE 19	CORNSTALK CR at CR1150S nr CR225E nr LADOGA, IN.						(LAT 39 52 22N LONG 086 51 39W)				
SEP 03...	7.7	6	0.2	2.4	54	14	0.2	5.4	294	290	0.03
395339086501101 SITE 20	BIG RACCOON CR at CR1000N nr CR350E nr LADOGA, IN.						(LAT 39 53 39N LONG 086 50 11W)				
SEP 03...	21	13	0.5	2.4	49	42	0.3	7.7	397	393	0.05
395228086494701 SITE 21	HAW CR at CR350E nr CR1100S nr LADOGA, IN.						(LAT 39 52 28N LONG 086 49 47W)				
SEP 03...	8.1	5	0.2	1.8	49	15	0.3	8.3	350	347	0.02
395700086440001 SITE 22	BIG RACCOON CR at CR900E nr CR 600S nr NEW ROSS, IN.						(LAT 39 57 00N LONG 086 44 00W)				
SEP 03...	11	8	0.3	2.8	48	23	0.3	4.6	326	322	0.04
400524087053001 SITE 23	E FK COAL CR at CR1000W nr SR136 nr WAYNETOWN, IN.						(LAT 40 05 24N LONG 087 05 30W)				
SEP 05...	14	8	0.3	2.0	66	29	0.2	9.6	417	391	0.02
401155087045801 SITE 24	N FK COAL CR at CR950W nr CR1125N nr WINGATE, IN.						(LAT 40 11 55N LONG 087 04 58W)				
SEP 05...	8.1	5	0.2	1.7	71	17	0.2	8.4	407	395	0.03
401209087020801 SITE 25	UNNAMED TRIB to N FK COAL CR at 700W nr WINGATE, IN.						(LAT 40 12 09N LONG 087 02 08W)				
SEP 05...	12	6	0.3	2.8	86	27	0.2	7.0	456	449	0.02
401137087020801 SITE 26	N FK COAL CR at CR700W nr CR950N nr WINGATE, IN.						(LAT 40 11 37N LONG 087 02 08W)				
SEP 05...	7.3	5	0.2	2.3	70	17	0.2	4.9	362	360	0.04
401204086570201 SITE 27	PHILLIP DEWEY DITCH at CR1100N nr. NEW RICHMOND, IN.						(LAT 40 12 04N LONG 086 57 02W)				
SEP 05...	5.9	4	0.1	2.0	49	14	0.3	6.9	345	334	0.01
400038087011001 SITE 28N	SUGAR CR BRANCH at CR200S nr HIBERNIA, IN.						(LAT 40 00 38N LONG 087 01 10W)				
SEP 05...	--	--	--	--	--	--	--	--	--	--	0.02

MISCELLANEOUS WATER-QUALITY STATION ANALYSES

MISCELLANEOUS STREAMS IN MONTGOMERY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	AROCLOR 1242 PCB BOT.MAT (UG/KG) (39499)	AROCLOR 1254 PCB BOT.MAT (UG/KG) (39507)	AROCLOR 1260 PCB BOT.MAT (UG/KG) (39511)
395941086590801 SITE 14B RATTLESNAKE CR at CR250S nr CRAWFORDSVILLE, IN. (LAT 39 59 41N LONG 086 59 08W)											
SEP 04...	<0.05	0.080	<0.2	0.3	0.01	0.03	0.03	--	--	--	--
395810087002301 SITE 16 CORNER CR at CR550W nr CR450S nr YOUNTSVILLE, IN. (LAT 39 58 10N LONG 087 00 23W)											
SEP 04...	0.26	<0.015	<0.2	<0.2	0.02	<0.01	0.01	--	--	--	--
395603087013901 SITE 17 INDIAN CR at CR650W nr CR800S nr NEW MARKET, IN. (LAT 39 56 03N LONG 087 01 39W)											
AUG 28...	<0.05	0.020	0.5	0.3	0.03	<0.01	0.01	--	--	--	--
395222086513901 SITE 19 CORNSTALK CR at CR1150S nr CR225E nr LADOGA, IN. (LAT 39 52 22N LONG 086 51 39W)											
SEP 03...	1.8	0.040	0.5	0.3	0.05	<0.01	<0.01	--	--	--	--
395339086501101 SITE 20 BIG RACCOON CR at CR1000N nr CR350E nr LADOGA, IN. (LAT 39 53 39N LONG 086 50 11W)											
SEP 03...	2.0	0.060	0.4	0.3	0.10	0.07	0.09	--	--	--	--
395228086494701 SITE 21 HAW CR at CR350E nr CR1100S nr LADOGA, IN. (LAT 39 52 28N LONG 086 49 47W)											
SEP 03...	1.0	0.110	0.3	0.2	0.03	<0.01	0.02	--	--	--	--
395700086440001 SITE 22 BIG RACCOON CR at CR900E nr CR 600S nr NEW ROSS, IN. (LAT 39 57 00N LONG 086 44 00W)											
SEP 03...	0.83	0.090	0.8	0.4	0.10	<0.01	0.02	--	--	--	--
400524087053001 SITE 23 E FK COAL CR at CR1000W nr SR136 nr WAYNETOWN, IN. (LAT 40 05 24N LONG 087 05 30W)											
SEP 05...	1.9	0.040	0.3		0.2	0.08	0.09	0.09	--	--	----
401155087045801 SITE 24 N FK COAL CR at CR950W nr CR1125N nr WINGATE, IN. (LAT 40 11 55N LONG 087 04 58W)											
SEP 05...	1.5	0.050	0.2	0.2	0.03	0.02	0.02	--	--	--	--
401209087020801 SITE 25 UNNAMED TRIB to N FK COAL CR at 700W nr WINGATE, IN. (LAT 40 12 09N LONG 087 02 08W)											
SEP 05...	4.1	0.020	0.3	<0.2	0.06	0.04	0.06	--	--	--	--
401137087020801 SITE 26 N FK COAL CR at CR700W nr CR950N nr WINGATE, IN. (LAT 40 11 37N LONG 087 02 08W)											
SEP 05...	1.9	0.050	0.6	0.6	0.03	<0.01	0.02	--	--	--	--
401204086570201 SITE 27 PHILLIP DEWEY DITCH at CR1100N nr NEW RICHMOND, IN. (LAT 40 12 04N LONG 086 57 02W)											
SEP 05...	0.34	0.140	0.4	0.4	0.08	0.03	0.05	--	--	--	--
400038087011001 SITE 28N SUGAR CR BRANCH at CR200S nr HIBERNIA, IN. (LAT 40 00 38N LONG 087 01 10W)											
SEP 05...	1.0	0.030	<0.2	<0.2	0.04	<0.01	0.01	--	--	--	--

Base from U.S. Geological Survey digital data, 1:2,000,000, 1996
Albers Equal Area projection
Standard parallels 29°30' and 45° 30' central meridian -96°

EXPLANATION

11 Number of lakes in designated county

Figure 8.--Number of lakes by county having 1996 water-level records.

04100030 ADAMS LAKE NEAR WOLCOTTVILLE, IN

LOCATION.--Lat 41°33'15", long 86°19'11", in NE¼NE¼NW¼ sec.25, T.36 N., R.10 E., Lagrange County, Hydrologic Unit 04050001 (WOLCOTTVILLE, IN quadrangle). The gage is on the east side of the lake on a dredged inlet, at the public access site, and 3.1 mi northeast of Wolcottville.

SURFACE AREA.--308 acres.

DRAINAGE AREA.--5.62 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--949.90 ft above sea level, as corrected on the basis of levels of the Indiana Department of Natural Resources, 1976.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the southwest wall of the dam on the outlet channel about 500 ft downstream from the lake.

ESTABLISHED LEGAL LEVEL.--3.59 ft gage datum or 953.59 ft above sea level as decreed on December 17, 1949, by the Lagrange County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 3.59 ft gage datum or 953.49 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest "V" notch weir.

INLET AND OUTLET.--One inlet enters on the east side from Blackman Lake 2.3 mi upstream. The other inlet enters on the northeastern shore from Eve Lake. The outlet flows from the lake on the southern shore and into Little Elkhart Creek 1.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.32 ft June 15, 1981; minimum stage, 2.12 ft Jan. 8, 1954.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.65	3.92	4.09	4.13	---	4.02	3.91	4.32	4.40	4.14	3.84	3.80
10	3.63	3.96	4.09	4.11	---	4.02	3.86	4.48	4.45	3.99	3.75	3.74
15	3.59	4.09	4.09	4.07	---	3.96	3.88	4.49	4.43	3.97	3.73	3.64
20	3.55	4.09	4.09	---	---	3.98	4.07	4.93	4.93	3.97	3.95	3.58
25	3.55	4.09	4.09	---	3.90	3.97	4.40	4.70	4.61	3.91	4.02	3.62
EOM	3.65	4.09	4.12	---	4.02	3.94	4.36	4.49	4.36	3.92	3.88	3.63

WTR YR 1996 MEAN 4.04 MAX 4.99 MIN 3.54

STREAMS TRIBUTARY TO LAKE ERIE

04177680 BALL LAKE NEAR HAMILTON, IN

LOCATION.--Lat 41°32'12", long 84°56'18", in SE¼SW¼NE¼ sec.32, T.36 N., R.14 E., Steuben County, Hydrologic Unit 04100003 (HAMILTON, IN quadrangle). The gage is on the northeastern shore of the lake, south of the bridge over the outlet, and 1.3 mi west of Hamilton.

SURFACE AREA.--87 acres.

DRAINAGE AREA.--11.6 mi².

PERIOD OF RECORD.--1961 to current year.

DATUM OF GAGE.--889.81 ft above sea level, as corrected on the basis of levels of the Indiana Department of Natural Resources in February 1972.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the lake bed near the recording gage and a high-water staff gage is attached to the control dam.

ESTABLISHED LEGAL LEVEL.--4.95 ft gage datum or 894.76 ft above sea level as decreed on September 20, 1974, by the Steuben County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete sill with movable boards.

INLET AND OUTLET.--Fish Creek flows through the lake, entering at the western end and leaving at the northeastern end. Fish Creek empties into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.02 ft Dec. 26, 1965; minimum stage, 3.96 ft Oct. 19-31, Nov. 1-12, 1978.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	4.81	4.73	4.73	4.73	4.74	4.74	4.76	4.73	4.65	4.63	---
10	---	4.74	4.73	4.73	4.73	4.74	4.74	5.18	5.12	4.63	4.62	---
15	4.67	4.78	4.73	4.73	4.73	4.74	4.73	4.82	4.76	4.63	4.62	4.75
20	4.72	4.80	4.73	4.73	4.73	4.74	5.13	---	5.11	4.63	5.50	4.75
25	4.69	4.75	4.73	4.73	4.73	4.74	4.91	4.93	4.78	4.62	---	4.75
EOM	4.77	4.74	4.73	4.73	4.74	4.74	4.86	4.77	4.69	4.73	---	4.77

WTR YR 1996 MEAN 4.76 MAX 5.92 MIN 4.61

05517200 BASS LAKE AT BASS LAKE, IN

LOCATION.--Lat 41°12'28", long 86°36'07", in NW¼NW¼SW¼ sec.24, T.32 N., R.2 W., Starke County, Hydrologic Unit 07120001 (BASS LAKE, IN quadrangle). The gage is on the southern shore of the lake, just north of the junction of U.S. Highway 35 and State Highway 10, at the town of Bass Lake.

SURFACE AREA.--1,400 acres.

DRAINAGE AREA.--5.18 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--699.83 ft above sea level, as corrected from the unadjusted elevations.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in two sections is at the site.

ESTABLISHED LEGAL LEVEL.--13.65 ft gage datum or 713.65 ft above sea level as decreed on August 10, 1948, by the Starke County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 13.65 ft gage datum or 713.48 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam.

INLET AND OUTLET.--Several small unnamed ditches enter the lake at various locations. The outlet flows from the western shore, into Cedar Lake Ditch, and eventually into the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 15.03 ft June 18, 1981; minimum stage, 10.52 ft Nov. 12, 13, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.34	13.26	13.35	13.30	13.38	13.44	13.26	13.4/	13.94	13.99	14.24	13.95
10	13.27	13.29	13.33	13.29	13.38	13.43	13.21	13.61	14.15	13.90	14.19	13.92
15	13.18	13.44	13.33	13.31	13.38	13.43	13.23	13.57	14.17	13.95	14.13	13.91
20	13.18	13.42	13.34	13.36	13.38	13.39	13.33	13.62	14.28	14.43	14.07	13.85
25	13.11	13.40	13.33	13.38	13.37	13.32	13.45	13.59	14.18	14.38	14.08	13.87
EOM	13.22	13.33	13.32	13.38	13.42	13.37	13.45	13.86	14.09	14.35	14.01	13.90

WTR YR 1996 MEAN 13.61 MAX 14.49 MIN 13.11

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100260 BEAR LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°19'07", long 85°30'49", in SW¼NW¼ sec.17, T.33 N., R.9 E., Noble County, Hydrologic Unit 04050001 (ORMAS, IN quadrangle). The gage is on the southern shore of the lake on a dredged channel, at the end of the gravel lane to the Merry Lea Nature Center, 1.1 mi southwest of the town of Wolflake.

SURFACE AREA.--136 acres.

DRAINAGE AREA.--6.98 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--889.90 ft above sea level, as corrected on the basis of levels of the Indiana Department of Natural Resources, 1974-75.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well on the west side of the dredged channel.

ESTABLISHED LEGAL LEVEL.--4.60 ft gage datum or 894.60 ft above sea level as decreed on September 23, 1959, by the Noble County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 4.60 ft gage datum or 894.50 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam.

INLET AND OUTLET.--There are two inlets to the lake, one enters on the southwest shore from High Lake, 0.6 mi upstream, and the other enters from the northeast. The outlet, Carrol Creek, leaves the lake on the southeast tip, flows into Muncie Lake, 3.1 mi downstream, and eventually into the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 8.25 ft Dec. 30, 1942 (before dredging of the outlet channel). Maximum stage, 6.61 ft Apr. 12, 1944 (after dredging); minimum stage, 2.90 ft Oct. 31, Nov. 1-3, 7-17, 1952, October 22-24, 29-31, Nov. 1-3, 6, 7, 1966.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	4.24	4.26	4.23	4.32	4.60	4.18	4.26	4.13
10	---	---	---	---	4.23	4.20	4.18	4.68	5.08	4.10	4.15	4.12
15	---	---	---	---	4.20	4.19	4.21	4.60	4.97	4.12	4.10	4.08
20	---	---	---	---	4.18	4.26	4.65	4.60	4.93	4.53	4.40	4.04
25	---	---	---	4.36	4.18	4.25	4.66	4.49	4.65	4.47	4.40	4.14
EOM	---	---	---	4.26	4.26	4.26	4.45	4.70	4.36	4.38	4.21	4.15

WTR YR 1996 MEAN 4.35 MAX 5.13 MIN 4.04

03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN

LOCATION.--Lat 41°16'53", long 85°46'47", in NW¼SE¼SW¼ sec.25, T.33 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106 (LEESBURG, IN quadrangle). The gage is on the southeastern shore of the lake, at the public access site, 4.9 mi northeast of Warsaw.

SURFACE AREA.--581 acres.

DRAINAGE AREA.--4.17 mi².

PERIOD OF RECORD.--1945-68, 1971, 1976 to current year.

DATUM OF GAGE.--820.00 ft above sea level.

GAGE.--A water-stage recorder and an electric tape gage (ETG) are installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--7.75 ft gage datum or 827.75 ft above sea level as established on October 18, 1949, by the Kosciusko County Circuit Court. Little Chapman Lake has the same control structure and established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest at the outlet channel downstream from Little Chapman Lake.

INLET AND OUTLET.--Several small ditches enter the lake at various points. The outlet flows into Little Chapman Lake to the south, then into Deeds Creek, and eventually into the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.37 ft Oct. 11, 1954; minimum stage, 6.75 ft Oct. 20, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.22	7.61	7.38	7.37	7.43	7.50	7.48	7.71	7.61	7.39	7.67	7.36
10	7.18	7.54	7.36	7.33	7.39	7.49	7.45	8.05	7.67	7.37	7.49	7.37
15	7.15	7.53	7.39	7.34	7.35	7.48	7.51	7.94	7.69	7.48	7.42	7.35
20	7.21	7.48	7.40	7.51	7.33	7.51	7.82	8.10	7.72	8.17	7.65	7.48
25	7.16	7.40	7.38	7.50	7.35	7.49	7.89	7.74	7.62	7.96	7.60	7.56
EOM	7.32	7.40	7.38	7.43	7.47	7.50	7.75	7.71	7.50	7.86	7.39	7.52

WTR YR 1996 MEAN 7.52 MAX 8.62 MIN 7.13

WABASH RIVER BASIN

03330040 BIG LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°16'33", long 85°30'43", in NW¼SE¼NW¼ sec.32, T.33 N., R.9 E., Noble County, Hydrologic Unit 05120106 (ORMAS, IN quadrangle). The gage is at the head of the outlet channel, approximately 20 feet north of the control structure and 4 mi southwest of the town of Wolflake.

SURFACE AREA.--228 acres.

DRAINAGE AREA.--8.89 mi².

PERIOD OF RECORD.--1943-74, 1978 to current year.

DATUM OF GAGE.--890.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--8.40 ft gage datum or 898.40 ft above sea level as decreed on July 18, 1956, by the Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam with a fixed crest.

INLET AND OUTLET.--The main inlet enters from Crooked Lake to the east. Three other inlets flow from Crane Lake to the east, Green Lake to the north, and Sell Brook to the south. The outlet leaves the lake at the extreme west end and forms the headwaters of the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 12.76 ft Apr. 4, 1950; minimum stage, 7.12 ft Aug. 24, 1987.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.73	7.88	8.12	8.17	8.25	8.23	8.17	8.29	8.52	8.10	8.15	8.08
10	7.70	7.91	8.11	8.17	8.28	8.21	8.16	8.74	9.18	8.06	8.10	8.07
15	7.64	8.15	8.17	8.17	8.22	8.17	8.20	8.65	9.30	8.13	8.10	8.01
20	7.65	8.15	8.17	8.32	8.24	8.21	8.72	8.88	9.26	9.22	8.42	7.97
25	7.60	8.13	8.17	8.32	8.15	8.27	8.97	8.45	8.56	8.71	8.33	8.07
EOM	7.73	8.13	8.17	8.25	8.27	8.23	8.47	8.63	8.18	8.27	8.12	8.09

WTR YR 1996 MEAN 8.25 MAX 9.62 MIN 7.60

04099600 BIG LONG LAKE NEAR STROH, IN

LOCATION.--Lat 41°33'17", long 85°13'47", in NE¼NW¼NW¼ sec.26, T.36 N., R.11 E., Lagrange County, Hydrologic Unit 04050001 (STROH, IN quadrangle). The gage is on the northeast shore near the east end of the Shady Nook Addition in the vicinity of the Shady Nook Tavern, 2.4 mi southwest of Stroh.

SURFACE AREA.--388 acres.

DRAINAGE AREA.-- 4.77 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--950.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--6.21 ft gage datum or 956.21 ft above sea level as decreed on July 22, 1965, by the Lagrange County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed sill and removable boards.

INLET AND OUTLET.--The one inlet is a small ditch that enters at the extreme western tip. The outlet flows from the extreme northern tip, northeastward to Mud and Little Turkey Lakes, thence to Turkey Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.49 ft Mar. 31, 1978; minimum stage, 4.58 ft Nov. 27, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.01	6.19	6.18	6.15	6.28	6.37	6.18	6.29	6.27	6.12	6.05	6.09
10	5.86	6.25	6.14	6.15	6.28	6.36	6.16	6.48	6.41	6.02	5.99	6.06
15	5.81	6.28	6.18	6.16	6.28	6.29	6.24	6.38	6.37	6.06	6.01	5.98
20	5.91	6.24	6.15	6.38	6.28	6.28	6.36	6.63	6.66	6.06	6.38	5.92
25	5.76	6.20	6.15	6.29	6.25	6.28	6.45	6.39	6.41	6.03	6.27	5.93
EOM	5.96	6.19	6.14	6.28	6.41	6.20	6.34	6.29	6.25	6.10	6.15	5.96

WTR YR 1996 MEAN 6.20 MAX 6.79 MIN 5.75

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100140 BIXLER LAKE AT KENDALLVILLE, IN

LOCATION.--Lat 41°26'13", long 85°15'10", in NE¼NE¼NE¼ sec.4, T.34 N., R.11 E., Noble County, Hydrologic Unit 04050001 (KENDALLVILLE, IN quadrangle). The gage is on the south bank of the outlet channel on the southwest shore of the lake and 0.7 mi southeast of City Hall in Kendallville.

SURFACE AREA.--120 acres.

DRAINAGE AREA.--5.28 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--960.10 ft above sea level, as corrected on the basis of levels of the Indiana Department of Natural Resources, 1974-75.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is bolted to a concrete pier 20 ft upstream from the control dam.

ESTABLISHED LEGAL LEVEL.--3.65 ft gage datum or 963.65 ft above sea level as decreed on April 25, 1952, by the Noble County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 3.65 ft gage datum or 963.75 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed deep-notch concrete dam with two flood gates.

INLET AND OUTLET.--Riddle Ditch enters the lake from the north, Sherman Ditch from the east, Shaffer Ditch from the southeast, and an unnamed ditch from the southwest. The outlet leaves at the southwest corner and flows into Henderson Lake 1.9 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.26 ft Feb. 24, 1985; minimum stage, 1.24 ft Jan. 13-15, 18, 1954.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.70	3.98	3.89	3.93	4.28	4.28	4.22	3.81	---	---	3.66	4.03
10	3.69	3.64	3.85	3.93	4.28	4.28	4.15	4.40	---	---	3.59	4.01
15	3.62	3.60	3.90	3.93	4.28	4.28	4.17	4.49	---	3.43	3.51	3.90
20	3.63	3.74	3.92	4.28	4.28	4.28	4.75	---	---	3.57	3.99	3.82
25	3.59	3.81	3.91	4.28	4.28	4.28	4.42	---	---	3.54	4.36	3.82
EOM	3.80	3.85	3.90	4.28	4.28	4.25	3.67	---	---	3.68	4.16	3.90

WTR YR 1996 MEAN 3.98 MAX 5.15 MIN 3.41

03327600 BLUE LAKE NEAR CHURUBUSCO, IN

LOCATION.--Lat 41°14'30", long 85°21'04", in SW¼NE¼SE¼ sec.10, T.32 N., R.10 E., Whitley County, Hydrologic Unit 05120104 (CHURUBUSCO, IN quadrangle). Gage is located on a dredged channel at the extreme east end of the lake, approximately 2.0 mi west of Churubusco.

SURFACE AREA.--239 acres.

DRAINAGE AREA.--3.58 mi².

PERIOD OF RECORD.--1946-68, 1976 to current year.

DATUM OF GAGE.--840.00 ft above sea level.

GAGE.--A water-stage recorder installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--10.28 ft gage datum or 850.28 ft above sea level as decreed on July 23, 1948, by the Whitley County Circuit Court.

LAKE-LEVEL CONTROL.--A concrete dam with a fixed crest is located in the outlet channel about 300 ft downstream from the lake.

INLET AND OUTLET.--Maloney Ditch enters at the eastern tip of the lake. The outlet flows from the lake at the northwest end and joins Carter Creek (Blue River) 0.2 mi downstream. Carter Creek eventually flows into Eel River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 15.80 ft Dec. 10, 1966; minimum stage, 7.64 ft Nov. 19, 20, 1952.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.77	9.76	9.99	10.11	10.71	10.84	9.95	10.13	10.28	9.76	9.93	9.73
10	9.51	9.77	9.96	10.09	10.69	10.77	9.88	10.44	10.87	9.72	9.78	9.73
15	9.45	10.00	10.02	10.11	10.66	10.71	9.89	10.37	10.56	9.66	9.76	9.61
20	9.63	9.96	10.04	10.55	10.63	10.37	10.33	10.55	10.41	10.21	10.09	9.53
25	9.44	9.93	10.04	10.66	10.53	10.23	10.44	10.27	10.06	10.22	9.88	9.56
EOM	9.65	9.97	10.06	10.71	10.78	10.00	10.24	10.46	9.93	10.08	9.77	9.66

WTR YR 1996 MEAN 10.10 MAX 10.95 MIN 9.37

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099250 BOWER LAKE NEAR PLEASANT LAKE, IN

LOCATION.--Lat 41°36'03", long 85°03'24", in SW¼SW¼SE¼ sec.5, T.36 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ASHLEY, IN quadrangle). The gage is located at the public access site on the northwestern edge of the lake, 3.9 mi southwest of Angola.

SURFACE AREA.--25 acres.

DRAINAGE AREA.--84.6 mi².

PERIOD OF RECORD.--1946-1970, 1977 to current year.

DATUM OF GAGE.--940.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary wire-weight gage is attached to the bridge over the outlet.

ESTABLISHED LEGAL LEVEL.--8.50 ft gage datum or 948.50 ft above sea level, as decreed on October 28, 1959, by Steuben County Circuit Court. Golden Lake near Pleasant Lake has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The lake level is controlled by the outlet channel or the outlet of Golden Lake.

INLET AND OUTLET.--Pigeon Creek flows through the lake, entering at the southern shore and leaving at the western end to flow into Golden Lake and eventually into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 17.13 ft Mar. 22, 1982; minimum stage, 7.88 ft Sept. 14, 15, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.28	10.79	8.95	8.53	8.63	9.72	9.09	9.86	16.33	9.51	8.82	8.64
10	8.33	9.50	8.74	8.47	9.32	9.16	8.91	10.63	14.69	9.14	8.59	8.56
15	8.24	10.13	8.82	8.47	8.94	9.09	9.02	11.10	15.28	9.04	8.58	8.48
20	8.25	9.63	8.80	10.20	8.69	9.15	9.79	14.69	13.79	8.91	9.27	8.42
25	8.20	9.36	8.65	9.78	8.81	9.59	11.43	13.75	12.26	8.74	10.14	8.42
EOM	8.56	9.11	8.57	9.04	10.75	9.31	10.33	15.71	10.32	9.13	8.94	8.59

WTR YR 1996 MEAN 9.78 MAX 16.33 MIN 8.19

04099810 CASS LAKE NEAR SHIPSHEWANA, IN

LOCATION.--Lat 41°41'42", long 85°38'18", in SW¼NW¼NW¼ sec.5, T.37 N, R.8 E., Lagrange County, Hydrologic Unit 04050001 (MIDDLEBURY, IN quadrangle). The gage is on the northeast shore of the lake, at the beach area in the Foxwood Hills Addition, and 3.3 mi northwest of Shipshewana.

SURFACE AREA.--89 acres.

DRAINAGE AREA.--0.68 mi².

PERIOD OF RECORD.--1971 to current year.

DATUM OF GAGE.--840.95 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel.

INLET AND OUTLET.--A small unnamed ditch enters on the northwestern shore. The outlet leaves the lake at the southwest and flows into Mather Ditch 1.0 mi downstream. Mather Ditch eventually empties into the Little Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 3.89 ft June 14, 1993; minimum stage, 1.80 ft May 15, 1971.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.36	2.50	2.53	2.48	2.48	2.48	2.50	2.77	3.12	2.90	2.95	2.72
10	2.34	2.57	2.52	2.43	2.48	2.48	2.47	3.20	3.41	2.83	2.88	2.69
15	2.30	2.62	2.54	2.42	2.48	2.48	2.55	2.97	3.38	2.86	2.85	2.70
20	2.35	2.59	2.53	2.51	2.48	2.48	2.64	3.00	3.43	2.91	2.87	2.67
25	2.32	2.56	2.52	2.52	2.48	2.49	2.81	2.87	3.30	2.89	2.84	2.73
EOM	2.44	2.54	2.51	2.48	2.48	2.50	2.81	2.99	3.04	2.99	2.77	2.76

WTR YR 1996 MEAN 2.68 MAX 3.52 MIN 2.26

ILLINOIS RIVER BASIN

05518700 CEDAR LAKE AT CEDAR LAKE, IN

LOCATION.--Lat 41°21'58", long 87°25'36", in NE¼SW¼SW¼ sec.26, T.34 N., R.9 W., Lake County, Hydrologic Unit 07120001 (LOWELL, IN quadrangle). The gage is on the south bank of outlet channel on the east shore of the the lake, upstream from the first bridge over the outlet, and 0.5 mi east of the town of Cedar Lake.

SURFACE AREA.--781 acres.

DRAINAGE AREA.--8.14 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--690.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 24-inch diameter stilling well. An auxiliary staff gage is driven into the channel bed.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete dam.

INLET AND OUTLET.--Several small ditches enter the lake at various points. The outlet, Cedar Creek, flows from the lake on the eastern shore of the center lobe, into Dalecarlia Lake, 1.5 mi downstream, and eventually into the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 4.30 ft May 15, 1970; minimum stage not determined, below 1.22 ft during July, August, September, October 1988, and September 1991.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.06	---	---	2.39	2.43	2.75	2.83	3.13	3.23	2.77	3.05	2.53
10	---	---	---	2.38	2.47	2.75	2.78	3.26	3.34	2.65	2.90	2.61
15	---	---	2.42	2.37	2.49	2.86	2.83	3.19	3.17	2.58	2.77	2.56
20	---	---	2.41	2.41	2.50	2.84	3.07	3.19	3.26	3.42	2.71	2.50
25	---	---	2.40	2.43	2.51	---	3.24	3.15	3.07	3.31	2.67	2.50
EOM	---	---	2.39	2.43	2.71	2.83	3.19	3.35	2.91	3.23	2.57	2.57

WTR YR 1996 MEAN 2.78 MAX 3.45 MIN 2.05

03331160 CENTER LAKE AT WARSAW, IN

LOCATION.--Lat 41°15'02", long 85°51'32", in NE¼SW¼SW¼ sec.5, T.32 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106 (LEESBURG, IN quadrangle). The gage is on the northwestern side of the lake, mounted on a sea wall behind the house at 300 Gilliam Drive, 0.8 mi north of the court house, Warsaw.

SURFACE AREA.--120 acres.

DRAINAGE AREA.--0.73 mi².

PERIOD OF RECORD.--1943-1968, 1971 to current year.

DATUM OF GAGE.--800.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the control dam at the outlet.

ESTABLISHED LEGAL LEVEL.--3.86 ft gage datum or 803.86 ft above sea level as decreed on December 3, 1963, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam at the western end of the lake.

INLET AND OUTLET.--The one inlet flows through a 24-inch diameter tile from Pike Lake and enters the lake on the southeastern side. The outlet flows from the western shore and joins Walnut Creek 0.65 mi downstream, which in turn flows into the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.24 ft Oct. 15, 1954; minimum stage, 0.17 ft Oct. 4, 1955.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.60	4.29	4.09	4.12	4.26	3.90	3.73	---	5.58	4.54	4.93	4.55
10	3.57	4.30	4.04	4.12	4.40	3.90	3.71	---	5.15	4.54	4.93	4.49
15	3.54	4.30	4.06	4.12	4.23	3.81	3.72	4.98	5.23	4.50	4.80	4.43
20	3.56	4.28	4.08	4.24	4.15	3.83	---	6.30	5.20	5.07	5.03	4.30
25	3.54	4.27	4.08	4.32	4.03	3.82	---	6.33	5.04	5.15	5.17	4.41
EOM	3.69	4.16	4.08	4.26	3.95	3.76	---	6.13	4.69	5.21	4.77	4.43

WTR YR 1996 MEAN 4.42 MAX 6.33 MIN 3.48

STREAMS TRIBUTARY TO LAKE ERIE

04177200 CLEAR LAKE AT CLEAR LAKE, IN

LOCATION.--Lat 41°44'52", long 84°50'25", in SW¼SW¼ sec.17, T.38 N., R.15 E., Steuben County, Hydrologic Unit 04100003 (CLEAR LAKE, IN-OH-MI quadrangle). The gage is on the northern shore of the lake, at the channel between Clear and Round Lakes, and 4.75 mi northeast of Fremont.

SURFACE AREA.--800 acres.

DRAINAGE AREA.--6.86 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--1030.00 ft above sea level.

GAGE.--A water-stage recorder is installed in a wooden shelter over a 24-inch stilling well. An auxiliary staff gage is attached to the north end of the upstream culvert.

ESTABLISHED LEGAL LEVEL.--7.38 ft gage datum or 1037.38 ft above sea level as decreed on June 1, 1950, by the Steuben County Circuit Court. Round Lake at Clear Lake has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete dam with an auxiliary slide gate at the outlet of Round Lake.

INLET AND OUTLET.--Two unnamed ditches enter the lake on the southern shore. The outlet is a short channel connecting Clear and Round Lakes. The outlet of Round Lake flows from the northeast end and eventually into the West Branch of the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.24 ft May 20, 1943 (from high-water mark); maximum recorded stage, 8.58 ft Jan. 5, 1993; minimum stage, 6.24 ft Sept. 30, 1962.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.65	7.86	7.84	7.81	7.85	7.86	7.85	8.02	7.97	7.86	7.73	7.61
10	7.65	7.87	7.80	7.81	7.85	7.86	7.81	8.23	8.22	7.76	7.67	7.59
15	7.62	7.94	7.80	7.82	7.85	7.86	7.85	8.20	8.10	7.74	7.62	7.52
20	7.63	7.93	7.80	7.85	7.85	7.90	7.99	8.42	8.48	7.72	7.74	7.48
25	7.60	7.89	7.81	7.85	7.85	7.96	8.11	8.20	8.22	7.69	7.70	7.51
EOM	7.69	7.88	7.81	7.85	7.86	7.86	8.08	8.03	8.02	7.73	7.65	7.62

WTR YR 1996 MEAN 7.85 MAX 8.49 MIN 7.48

05515240 CLEAR LAKE AT LAPORTE, IN

LOCATION.--Lat 41°37'25", long 86°43'11", in NE¼SE¼SE¼ sec.26, T.37 N., R.3 W., LaPorte County, Hydrologic Unit 07120001 (LAPORTE EAST, IN quadrangle). The gage is on the northeast shore of the lake, 100 ft south of the entrance to Fox Memorial Park, in LaPorte.

SURFACE AREA.--106 acres.

DRAINAGE AREA.--0.65 mi².

PERIOD OF RECORD.--1942-49, 1952-75, 1979 to current year.

DATUM OF GAGE.--790.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the north wingwall of the inlet culvert on the west side of the lake.

ESTABLISHED LEGAL LEVEL.--8.20 ft gage datum or 798.20 ft above sea level as decreed on August 31, 1949, by the LaPorte County Circuit Court.

LAKE-LEVEL CONTROL.--During periods of high water, water may be released through the main sewer system of the city of LaPorte and diverted into the Kankakee River.

INLET AND OUTLET.--A small ditch enters on the west shore. There is no outlet during periods of low and medium water levels. When water levels are high, water may flow from the lake into the city sewer system.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.36 ft June 6, 1993; minimum stage, 3.98 ft Nov. 27, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.04	8.24	8.40	8.24	8.24	8.38	8.13	8.22	8.87	8.82	9.13	8.82
10	7.99	8.59	8.35	8.21	8.28	8.36	8.06	8.72	9.09	8.71	9.27	---
15	7.91	8.58	8.37	8.22	8.26	8.36	8.08	8.72	8.99	8.63	9.19	8.91
20	7.97	8.50	8.33	8.31	8.25	8.30	8.24	8.83	9.17	9.25	9.08	8.84
25	7.92	8.45	8.30	8.30	8.24	8.29	8.43	8.68	9.08	9.12	9.02	8.79
EOM	8.09	8.44	8.27	8.29	8.36	8.20	8.27	8.81	8.95	9.26	8.89	8.84

WTR YR 1996 MEAN 8.53 MAX 9.36 MIN 7.84

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097850 CROOKED LAKE AT CROOKED LAKE, IN

LOCATION.--Lat 41°40'14", long 85°02'04", in NE¼NW¼NE¼ sec.16, T.37 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ANGOLA WEST, IN quadrangle). The gage is on an inlet channel on the lower eastern shore of the lake, 3.1 mi northwest of Angola.

SURFACE AREA.--828 acres.

DRAINAGE AREA.--10.4 mi².

PERIOD OF RECORD.--1946-70, 1972 to current year.

DATUM OF GAGE.--980.26 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1977-78.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the channel bed between the Second and Third Basins under County Road 400 West.

ESTABLISHED LEGAL LEVEL.--8.17 ft gage datum or 988.17 ft above sea level as decreed on June 17, 1948, by the Steuben County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 8.17 ft gage datum or 988.43 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest dam with an adjustable gate at the western end of the Third Basin.

INLET AND OUTLET.--The principal inlets enter the lake from the south, from Loon and Buck Lakes, and the southeast, from Center Lake. Another ditch enters from the east. The outlet flows from the western end of the Third Basin into Lake Gage 1.4 mi downstream and eventually into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.30 ft May 19, 1996; minimum stage, 7.05 ft Nov. 13-15, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.88	9.05	9.19	9.09	9.17	9.31	9.16	9.50	9.67	9.30	9.07	9.12
10	8.81	9.11	9.14	9.07	9.17	9.28	9.12	9.73	9.86	9.16	8.99	9.12
15	8.79	9.21	9.15	9.07	9.15	9.26	9.22	9.74	9.79	9.13	8.96	9.05
20	8.85	9.25	9.12	9.17	9.14	9.28	9.28	10.27	10.17	9.08	9.38	8.98
25	8.76	9.22	9.11	9.18	9.13	9.24	9.46	10.06	9.85	9.06	9.28	8.99
EOM	8.88	9.21	9.10	9.19	9.26	9.19	9.52	9.77	9.52	9.16	9.20	9.04

WTR YR 1996 MEAN 9.25 MAX 10.29 MIN 8.72

04100470 DEWART LAKE NEAR LEESBURG, IN

LOCATION.--Lat 41°22'27", long 85°47'07", in NW¼SW¼NW¼ sec.25, T.34 N., R.6 E., Kosciusko County, Hydrologic Unit 04050001 (LEESBURG, IN quadrangle). The gage is on the west shore of the lake, 0.1 mi east of County Road 300 East at the public access site, and 4.5 mi northeast of Leesburg.

SURFACE AREA.--551 acres.

DRAINAGE AREA.--8.05 mi².

PERIOD OF RECORD.--1945 to current year.

DATUM OF GAGE.--859.87 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1973-74.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 24-inch diameter stilling well.

REMARKS.--No data was collected until Sept. 10, 1996 due to construction.

ESTABLISHED LEGAL LEVEL.--7.70 ft gage datum or 867.70 ft above sea level as decreed on October 18, 1949, by the Kosciusko County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 7.70 ft gage datum or 867.57 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam.

INLET AND OUTLET.--Cable Run enters the lake on the southeastern tip, and an unnamed ditch enters on the eastern shore. The outlet, Hammond Ditch, flows from the lake on the northwestern shore and into Wabee Lake 2.3 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.57 ft June 14, 1981; minimum stage, 3.95 ft Dec. 21-24, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	8.43
20	---	---	---	---	---	---	---	---	---	---	---	8.39
25	---	---	---	---	---	---	---	---	---	---	---	8.49
EOM	---	---	---	---	---	---	---	---	---	---	---	8.49

WTR YR 1996 MEAN 8.46 MAX 8.52 MIN 8.39

WABASH RIVER BASIN

03331320 DIAMOND LAKE NEAR SILVER LAKE, IN

LOCATION.--Lat 41°06'23", long 85°56'05", in SW¼NW¼SE¼ sec.26, T.31 N., R.5 E., Kosciusko County, Hydrologic Unit 05120106 (SILVER LAKE, IN quadrangle). The gage is on the inlet channel on the northern shore of the lake, 2.2 mi northwest of the town of Silver Lake.

SURFACE AREA.--79 acres.

DRAINAGE AREA.--3.92 mi².

PERIOD OF RECORD.--1954-72, 1975 to current year.

DATUM OF GAGE.--849.90 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1976.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The lake level is controlled by Yellow Creek Lake, 0.3 mi downstream.

INLET AND OUTLET.--There are two inlets. One enters from the north and east from Hill Lake, one enters from the southeast. The one outlet flows from the western shore and into Yellow Creek Lake, 0.3 mi downstream. Yellow Creek Lake flows into Yellow Creek, which eventually discharges into the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.47 July 9, 1964; minimum stage, 9.78 ft Sept. 18-19, 23, 27-30, Oct. 10-12, 1988.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.13	10.37	10.52	10.53	10.77	10.75	10.58	10.73	10.90	10.53	10.82	10.63
10	10.10	10.34	10.48	10.53	10.77	10.75	10.56	11.03	11.15	10.47	10.66	10.62
15	10.06	10.45	10.49	10.53	10.77	10.75	10.59	10.84	10.95	10.68	10.57	10.52
20	10.10	10.51	10.52	10.82	10.77	10.60	10.70	10.77	10.97	12.11	10.86	10.49
25	10.07	10.54	10.51	10.77	10.77	10.61	10.83	10.69	10.74	11.56	10.88	10.56
EOM	10.22	10.50	10.50	10.77	10.75	10.62	10.76	11.02	10.67	11.08	10.63	10.56

WTR YR 1996 MEAN 10.66 MAX 12.47 MIN 10.02

04100350 DIAMOND LAKE NEAR WAWAKA, IN

LOCATION.--Lat 41°26'15", long 85°31'05", in NE¼NW¼NW¼, sec.5, T.34 N., R.9 E., Noble County, Hydrologic Unit 04050001 (LIGONIER, IN quadrangle). The gage is located on the southeastern edge of the lake at a public access site, 2.5 mi southwest of the town of Wawaka.

SURFACE AREA.--105 acres.

DRAINAGE AREA.--4.80 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--870.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is mounted on a piling driven into the lake bed on the northern edge of the lake.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The lake level is controlled by a riffle at the head of the outlet channel.

INLET AND OUTLET.--Willets Ditch enters at the southwestern tip of the lake from Eagle Lake, 0.6 mi upstream. One unnamed ditch enters the lake from the south. The outlet flows from the lake at the southeastern edge and joins the South Branch of the Elkhart River 0.8 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.83 ft Mar. 20, 1982; minimum stage, 2.29 ft Oct. 17, 1946.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.51	5.42	5.01	4.86	5.03	5.00	4.86	5.11	5.20	4.90	4.63	4.60
10	4.47	5.46	4.91	4.86	5.03	5.00	4.81	5.08	5.47	4.85	4.67	4.60
15	4.51	5.44	4.90	4.82	5.03	5.02	4.83	5.21	5.58	4.77	4.66	4.56
20	4.68	5.35	4.88	5.02	5.03	4.98	5.05	5.54	5.64	4.81	4.82	4.51
25	4.73	5.19	4.86	5.03	5.11	4.98	5.36	5.39	5.49	4.74	4.81	4.59
EOM	4.99	5.09	4.85	5.03	5.00	4.92	5.26	5.26	5.13	4.71	4.67	4.59

WTR YR 1996 MEAN 4.97 MAX 5.68 MIN 4.39

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100370 ENGLE LAKE NEAR LIGONIER, IN

LOCATION.--Lat 41°26'08", long 85°34'30", in SE¼NW¼NW¼, sec.2, T.34 N., R.8 E., Noble County, Hydrologic Unit 04050001 (LIGONIER, IN quadrangle). The gage is located at a public access site on the eastern side of the lake, 2.2 mi south of the town of Ligonier.

SURFACE AREA.--48 acres.

DRAINAGE AREA.--4.19 mi².

PERIOD OF RECORD.--1956-67, 1977 to current year.

DATUM OF GAGE.--870.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--8.90 ft gage datum or 878.90 ft above sea level as decreed on October 23, 1984, by the Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The lake level is controlled by the outlet channel at low water and the first culvert downstream at higher stages.

INLET AND OUTLET.--Sparta Lake Ditch feeds the lake from the south, flowing from Sparta Lake. The outlet flows from the northern shore through Indian Lake and into the Elkhart River 1.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage 10.53 ft Mar. 29, 1985; minimum stage, 7.48 ft Nov. 17, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.42	8.80	8.53	8.52	8.60	8.62	8.50	8.72	8.89	8.73	8.70	9.11
10	8.33	8.66	8.50	8.50	8.60	8.62	8.47	8.94	9.27	8.68	8.77	9.16
15	8.27	8.73	8.48	8.48	8.60	8.50	8.52	8.91	9.07	8.66	8.87	9.14
20	8.43	8.66	8.54	8.68	8.60	8.49	8.82	8.92	9.11	8.80	9.15	9.13
25	8.33	8.58	8.55	8.67	8.57	8.53	8.91	8.85	8.98	8.75	9.13	9.17
EOM	8.46	8.56	8.53	8.60	8.62	8.53	8.79	8.92	8.84	8.79	9.11	9.18

WTR YR 1996 MEAN 8.72 MAX 9.27 MIN 8.18

04099670 FISH LAKE NEAR PLATO, IN

LOCATION.--Lat 41°37'27", long 85°19'56", in SW¼NE¼NE¼ sec.35, T.37 N., R.10 E., Lagrange County, Hydrologic Unit 04050001 (WOLCOTTVILLE, IN quadrangle). The gage is on the northeast bank of the outlet channel, approximately 15 ft downstream of the lake on the northwest side, and 1.2 mi south of Plato.

SURFACE AREA.--100 acres.

DRAINAGE AREA.--10.6 mi².

PERIOD OF RECORD.--1945 to current year.

DATUM OF GAGE.--930.75 ft above sea level, as corrected on the basis of levels of the U.S. Geological Survey, 1966.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is mounted on a tree stump on the northern bank of the outlet channel at the same site.

ESTABLISHED LEGAL LEVEL.--6.50 ft gage datum or 936.50 ft above sea level as decreed on May 7, 1959, by the Lagrange County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 6.50 ft gage datum or 937.25 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel.

INLET AND OUTLET.--One inlet enters at the extreme southern tip from Royer Lake 700 ft upstream. The other enters on the north shore of the east lobe from Grass Lake, approximately 1.4 mi upstream. The outlet, East Fly Creek, flows from the lake on the northwest shore and joins Fly Creek, which empties into Pigeon River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.23 ft June 14, 15, 1981; minimum stage, 5.32 ft Nov. 17-20, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.45	6.95	6.79	6.57	6.83	6.95	6.84	7.13	7.04	6.80	6.75	6.60
10	6.45	6.97	6.71	6.49	6.74	6.79	6.79	7.83	7.29	6.68	6.64	6.53
15	6.42	7.13	6.72	6.46	6.70	6.76	6.80	7.67	7.10	6.69	6.59	6.47
20	6.48	7.01	6.70	6.88	6.64	6.81	7.03	8.16	8.37	6.69	7.05	6.43
25	6.49	6.91	6.65	6.92	6.62	6.88	7.64	7.38	7.43	6.67	7.13	6.52
EOM	6.72	6.83	6.58	6.83	7.06	6.87	7.33	7.15	7.00	6.81	6.76	6.58

WTR YR 1996 MEAN 6.88 MAX 8.54 MIN 6.35

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099760 FISH LAKE NEAR SCOTT, IN

LOCATION.--Lat 41°45'25", long 85°38'54", in NW¼NW¼SE¼ sec.7, T.38 N.,R.8 E., Lagrange County, Hydrologic Unit 04050001 (MIDDLEBURY, IN quadrangle). The gage is on the northwest shore of the lake, on the north side of the outlet channel, 4.8 mi northwest of Scott.

SURFACE AREA.--139 acres.

DRAINAGE AREA.--6.21 mi².

PERIOD OF RECORD.--1954-69, 1978 to current year.

DATUM OF GAGE.--809.84 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1975.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the dam at the same site.

ESTABLISHED LEGAL LEVEL.--4.42 ft gage datum or 814.42 ft above sea level as decreed on September 11, 1959, by the Lagrange County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 4.42 ft gage datum or 814.26 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed concrete sill with removable boards.

INLET AND OUTLET.--The inlet, Fetch Ditch, enters on the southeastern shore. The outlet flows from the lake at the lower west shore and empties into Pigeon River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.61 ft Feb. 26, 1985; minimum stage, 1.54 ft Nov. 26, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.90	3.79	4.09	4.08	4.14	4.15	4.13	4.32	4.43	4.36	4.54	4.09
10	3.87	3.87	4.06	4.08	4.14	4.15	4.10	4.72	4.82	4.33	4.47	4.13
15	3.80	4.02	4.10	4.07	4.14	4.15	4.18	4.68	4.55	4.32	4.40	4.06
20	3.80	4.06	4.10	4.14	4.14	4.18	4.25	4.63	4.65	4.34	4.36	4.06
25	3.73	4.08	4.11	4.14	4.14	4.21	4.42	4.45	4.46	4.37	4.29	4.02
EOM	3.79	4.09	4.09	4.14	4.15	4.20	4.38	4.37	4.38	4.55	4.17	4.07

WTR YR 1996 MEAN 4.20 MAX 4.82 MIN 3.73

05517700 FLINT LAKE NEAR VALPARAISO, IN

LOCATION.--Lat 41°30'41", long 87°02'23", in NE¼SW¼ sec.6, T.35 N., R.5 W., Porter County, Hydrologic Unit 07120001 (CHESTERTON, IN quadrangle). The gage is on the southeast shore of the lake, at the outlet and the Valparaiso Water Works, 3.2 mi northeast of Valparaiso.

SURFACE AREA.--86 acres.

DRAINAGE AREA.--3.80 mi², revised.

PERIOD OF RECORD.--1946 to current year. From Jan. 1, 1911, to Aug. 14, 1946, readings of the lake level were taken approximately once per week by Water Works personnel. These data are available upon request.

DATUM OF GAGE.--780.00 ft above sea level.

GAGE.--A water-stage recorder is installed inside the Valparaiso Water Works. An auxiliary staff gage is located lakeward of the concrete block pumping station.

ESTABLISHED LEGAL LEVEL.--17.66 ft gage datum or 797.66 ft above sea level as decreed on August 19, 1963, by the Porter County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel and two 30-inch corrugated metal pipes under the road, 600 ft downstream.

INLET AND OUTLET.--There are three inlets. One drains Long Lake to the northwest and another drains Loomis Lake to the west and Listenberger drain enters from the south. The outlet flows from the lake at the southeast corner and into the West Branch of Crooked Creek approximately 5.0 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 21.18 ft July 2, 1983 as recorded by the Valparaiso Water Company; minimum stage, 12.59 ft Dec. 29, 1948.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.00	18.22	18.67	18.60	18.80	19.10	19.03	19.37	19.68	19.59	19.61	19.12
10	17.92	18.40	18.64	18.57	18.84	19.13	18.99	19.89	19.87	19.38	19.64	19.06
15	17.89	18.69	18.65	18.59	18.82	19.14	19.01	19.78	19.77	19.26	19.48	19.15
20	17.89	18.71	18.63	18.79	18.81	19.14	19.21	19.71	20.27	20.01	19.41	19.07
25	17.81	18.70	18.61	18.81	18.81	19.09	19.39	19.58	20.06	19.81	19.34	19.01
EOM	17.99	18.67	18.60	18.83	19.06	19.09	19.40	19.71	19.78	19.84	19.21	19.12

WTR YR 1996 MEAN 19.06 MAX 20.46 MIN 17.81

WABASH RIVER BASIN

03330160 GILBERT LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat 41°19'50", long 85°35'48", in NE¼NE¼SE¼ sec.9, T.33 N., R.8 E., Noble County, Hydrologic Unit 05120106 (ORMAS, IN quadrangle). The gage is at the extreme west end of the lake on the east side of County Road 925 West, approximately 400 ft south of Gilbert Lake Road, and 0.4 mi north of Washington Center.

SURFACE AREA.--28 acres.

DRAINAGE AREA.--0.37 mi².

PERIOD OF RECORD.--1954-59, 1961 to current year.

DATUM OF GAGE.--884.85 ft above sea level, as corrected on the basis of levels of the Indiana Department of Natural Resources, 1974-75.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is driven into the lake bed approximately 100 ft south of the primary gage.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level is controlled by the outlet through the swamp, east of the lake.

INLET AND OUTLET.--The lake has no inlet. The outlet leaves from the southeastern side and flows into Stump Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.81 ft Dec. 4-5, 1987; minimum stage, 3.53 ft Nov. 1, 1963.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.47	5.36	5.09	5.06	5.06	5.01	5.17	5.60	5.04	5.80	4.50	5.38
10	5.44	5.29	5.07	5.06	5.06	5.01	5.21	5.86	5.58	5.70	4.60	5.49
15	5.41	5.18	5.07	5.06	5.06	5.00	5.31	5.87	5.28	4.58	4.71	5.38
20	5.47	5.08	5.06	5.06	5.06	5.08	5.47	5.73	5.61	4.59	5.30	5.45
25	5.40	5.05	5.06	5.06	5.05	5.08	5.31	4.59	5.76	4.24	5.20	5.66
EOM	5.42	5.07	5.06	5.06	5.01	5.16	5.45	4.71	5.80	4.33	5.32	5.66

WTR YR 1996 MEAN 5.19 MAX 6.00 MIN 4.15

04100110 HACKENBURG LAKE NEAR WOLCOTTVILLE, IN

LOCATION.--Lat 41°33'25", long 85°26'17", in NE¼SW¼SW¼ sec.24, T.36 N., R.9 E., Lagrange County, Hydrologic Unit 04050001 (OLIVER LAKE, IN quadrangle). The gage is on the north shore of the outlet channel at the bridge on County Road 75 West, and 4.2 mi northwest of Wolcottville.

SURFACE AREA.--42 acres.

DRAINAGE AREA.--55.4 mi².

PERIOD OF RECORD.--1945 to current year.

DATUM OF GAGE.--890.00 ft above sea level.

GAGE.--A water-stage recorder is installed in a wooden shelter over a 24-inch diameter stilling well. An auxiliary staff gage is bolted to the downstream side of the bridge at the same site.

ESTABLISHED LEGAL LEVEL.--7.36 ft gage datum or 897.36 ft above sea level as decreed on February 2, 1954, by the Lagrange County Circuit Court. Witmer, Westler, Dallas, and Messick Lakes, all near Wolcottville, have the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete sill with removable stop logs located at the outlet of Messick Lake.

INLET AND OUTLET.--One inlet enters on the north shore from Oliver Lake 1.6 mi upstream. The other inlet enters on the east shore from Dallas Lake 0.5 mi upstream, which is part of a chain of lakes including Westler and Witmer Lakes. The outlet flows from the lake on the southwest shore and into Messick Lake about 0.5 mi downstream. Messick Lake empties into the North Branch of the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.17 ft Apr. 7, 1978; minimum stage, 6.34 ft Oct. 10, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.23	7.74	7.59	7.21	7.50	7.87	7.57	8.43	8.44	8.46	7.68	7.78
10	7.21	7.88	7.45	7.15	7.45	7.71	7.48	8.48	8.64	8.05	7.60	7.61
15	7.16	8.14	7.37	7.12	7.45	7.58	7.44	8.64	8.68	7.82	7.58	7.50
20	7.18	8.08	7.33	7.56	7.38	7.58	7.68	9.10	9.39	7.83	7.83	7.45
25	7.10	7.91	7.28	7.78	7.34	7.57	8.55	9.05	9.40	7.70	8.11	7.51
EOM	7.25	7.75	7.24	7.72	7.84	7.60	8.64	8.69	8.93	7.71	7.98	7.53

WTR YR 1996 MEAN 7.82 MAX 9.48 MIN 7.09

STREAMS TRIBUTARY TO LAKE ERIE

04177700 HAMILTON LAKE AT HAMILTON, IN

LOCATION.--Lat 41°32'10", long 84°54'45", in SW¼SW¼NW¼ sec.34, T.36 N., R.14 E., Steuben County, Hydrologic Unit 04100003 (HAMILTON, IN quadrangle). The gage is on the eastern shore of the southern lobe at the outlet, in the town of Hamilton.

SURFACE AREA.--802 acres.

DRAINAGE AREA.--16.5 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--890.12 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1978.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--8.83 ft gage datum or 898.83 ft above sea level as decreed on July 3, 1947, by the Steuben County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 8.83 ft gage datum or 898.95 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by two dams. The northernmost dam is concrete and steel sheet piling with a fixed crest. The southern dam has a fixed concrete sill.

INLET AND OUTLET.--Black Creek enters the lake on the northeast shore. Two small ditches enter from the east and the north. There are two outlets, both on the southern lobe, that flow into Fish Creek thence into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.14 ft Dec. 30, 1965; minimum stage, 7.27 ft Jan. 4-9, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	8.65	8.55	8.62	8.65	8.69	8.58	8.67	8.64	8.53	8.51	8.52
10	---	8.58	8.54	8.62	8.71	8.59	8.54	8.92	9.10	8.46	8.46	8.50
15	8.42	8.66	8.54	8.62	8.61	8.59	8.56	8.73	8.76	8.46	8.44	8.45
20	8.48	8.64	8.62	8.77	8.59	8.64	8.78	9.35	9.11	8.48	9.28	8.44
25	8.45	8.58	8.62	8.75	8.58	8.68	8.85	8.79	8.83	8.48	8.78	8.48
EOM	8.54	8.56	8.62	8.65	8.82	8.66	8.74	8.65	8.64	8.58	8.57	8.55

WTR YR 1996 MEAN 8.64 MAX 9.66 MIN 8.42

04099860 HEATON LAKE NEAR ELKHART, IN

LOCATION.--Lat 41°44'14", long 85°54'42", in NW¼NE¼NE¼ sec.23, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001 (ELKHART, IN quadrangle). The gage is on the east bank of the inlet on the north shore of the lake, 4.7 mi northeast of the main Post Office in Elkhart.

SURFACE AREA.--87 acres.

DRAINAGE AREA.--9.33 mi².

PERIOD OF RECORD.--1946-53, 1970-75, 1977 to current year.

DATUM OF GAGE.--760.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--7.30 ft gage datum or 767.30 ft above sea level as decreed on September 25, 1950, by the Elkhart County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete dam.

INLET AND OUTLET.--The one inlet enters the lake at the extreme northern point of the lake. The outlet, Puterbaugh Creek, flows from the west end of the lake and enters the St. Joseph River approximately 4.0 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.73 ft Feb. 26, 1985; minimum stage, 4.55 ft Nov. 12-18, 1971.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.17	8.30	8.29	8.14	8.13	8.07	7.99	8.23	8.36	8.15	8.20	7.44
10	7.10	8.39	8.14	8.14	8.13	8.07	7.93	8.67	8.66	8.09	8.09	7.40
15	6.96	8.32	8.14	8.14	8.13	8.07	8.11	8.47	8.42	8.07	8.02	7.25
20	7.01	8.31	8.14	8.13	8.13	8.02	8.25	8.54	8.50	8.11	7.92	7.13
25	7.57	8.28	8.14	8.13	8.10	8.01	8.34	8.42	8.36	8.04	7.86	7.30
EOM	8.22	8.28	8.14	8.13	8.07	7.99	8.29	8.40	8.24	8.44	7.62	7.63

WTR YR 1996 MEAN 8.05 MAX 8.75 MIN 6.87

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100258 HIGH LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°18'51", long 85°31'49", in SW¼NE¼SW¼ sec.18, T.33 N., R.9 E., Noble County, Hydrologic Unit 04050001 (ORMAS, IN quadrangle). The gage is on a dredged channel on the west shore of the east lobe, 2.1 mi southwest of Wolflake.

SURFACE AREA.--123 acres.

DRAINAGE AREA.--4.43 mi².

PERIOD OF RECORD.--1961-68, 1970 to current year.

DATUM OF GAGE.--890.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the lake bed at the same site.

ESTABLISHED LEGAL LEVEL.--6.35 ft gage datum or 896.35 ft above sea level as decreed on February 25, 1963, by the Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete, fixed-crest dam with a rectangular notch.

INLET AND OUTLET.--The one inlet, Beal Branch, enters the lake on the southeast shore. The outlet flows from the east side of the north lobe, through Bear Lake, 0.6 mi downstream, into Carrol Creek, and eventually into the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.70 ft June 28, 1968; minimum stage, 5.30 ft Nov. 15, 25-28, 1964, Oct. 13, 26-31, Nov. 1-3, 1966.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	6.47	6.47	6.51	6.51	6.51	6.62	6.95	6.88	6.75	6.71	6.60
10	---	6.47	6.47	6.51	6.51	6.51	6.58	7.07	7.28	6.69	6.63	6.59
15	6.27	6.47	6.50	6.51	6.51	6.51	6.60	6.92	7.18	6.72	6.60	6.54
20	6.30	6.47	6.51	6.51	6.51	6.51	7.01	6.90	7.22	7.21	6.89	6.51
25	6.29	6.47	6.51	6.51	6.51	6.51	7.04	6.77	6.99	6.92	6.81	6.60
EOM	6.43	6.47	6.51	6.51	6.51	6.51	6.88	6.97	6.83	6.77	6.66	6.59

WTR YR 1996 MEAN 6.65 MAX 7.37 MIN 6.22

03331300 HILL LAKE NEAR SILVER LAKE, IN

LOCATION.--Lat 41°06'16",long 85°54'35", in SE¼NE¼SE¼ sec.25, T.31 N., R.5 E., Kosciusko County, Hydrologic Unit 05120106 (SILVER LAKE, IN quadrangle). The gage is located on the northern shore of the southwestern lobe of the lake, 2.5 mi northwest of the town of Silver Lake.

SURFACE AREA.--67 acres.

DRAINAGE AREA.--0.85 mi².

PERIOD OF RECORD.--1952 to current year.

DATUM OF GAGE.--860.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is located on the southernmost tip of the lake. The staff is mounted on a board driven into the lake bed.

ESTABLISHED LEGAL LEVEL.--11.50 ft gage datum or 871.50 ft above sea level as decreed on September 10, 1959, by the Koscuisko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete fixed sill with removable boards.

INLET AND OUTLET.--There are no surface inlets. The one outlet flows from the western edge of the lake and empties into Diamond Lake 1.5 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 12.54 ft July 21, 1963; minimum stage, 9.86 ft Jan. 18, 19, 1954.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.80	10.92	11.05	11.22	11.47	11.61	11.31	11.36	11.37	11.19	11.55	11.33
10	10.78	10.91	11.04	11.22	11.48	11.62	11.28	11.55	11.48	11.12	11.51	11.31
15	10.73	11.03	11.08	11.22	11.49	11.60	11.30	11.44	11.38	11.26	11.45	11.24
20	10.70	11.05	11.14	11.47	11.49	11.49	11.34	11.38	11.47	11.90	11.67	11.21
25	10.68	11.04	11.17	11.47	11.48	11.41	11.41	11.43	11.38	11.68	11.56	11.29
EOM	10.82	11.05	11.20	11.47	11.43	11.37	11.35	11.45	11.28	11.64	11.39	11.31

WTR YR 1996 MEAN 11.30 MAX 12.08 MIN 10.68

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099500 HOGBACK LAKE NEAR ANGOLA, IN

LOCATION.--Lat 41°37'39", long 85°04'59", in SE¼SE¼SE¼ sec.25, T.37 N., R.12 E., Steuben County, Hydrologic Unit 04050001 (ANGOLA WEST, IN quadrangle). The gage is on the northeast shore, 0.5 mi south of the Tri-State Airport, on County Road 500 West, and 4.4 mi southwest of Angola.

SURFACE AREA.--146 acres.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--1946-73, 1977 to current year.

DATUM OF GAGE.--940.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is attached to a tree at the same site.

ESTABLISHED LEGAL LEVEL.--8.50 ft gage datum or 948.50 ft above sea level as decreed on October 28, 1959, by the Steuben County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel (Pigeon Creek).

INLET AND OUTLET.--There are three inlets to the lake. One unnamed ditch enters from the north. A small tributary enters on the eastern tip from Silver Lake, 0.7 mi upstream. Pigeon Creek flows through the lake, entering at the southeastern shore from Golden Lake, 1.2 mi upstream and leaving at the north end of the western lobe. Pigeon Creek joins Turkey Creek to become Pigeon River and eventually empties into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 17.07 ft Mar. 22, 1982; minimum stage, 7.24 ft Sept. 9, 10, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.03	11.18	9.63	9.30	9.55	9.02	---	10.43	---	---	9.47	9.01
10	9.07	10.19	9.47	9.30	9.55	9.01	---	10.75	---	9.79	9.30	9.01
15	9.00	10.70	9.41	9.30	9.55	8.43	---	11.68	---	9.65	9.26	8.96
20	8.99	10.19	9.44	9.52	9.55	9.64	---	14.85	---	9.58	9.60	8.89
25	8.99	10.00	9.38	9.55	8.88	---	11.80	---	---	9.41	9.03	8.89
EOM	9.26	9.78	9.30	9.55	9.68	---	10.79	---	---	9.62	9.02	9.02

WTR YR 1996 MEAN 9.66 MAX 14.85 MIN 8.42

05514741 HUDSON LAKE AT HUDSON LAKE, IN

LOCATION.--Lat 41°42'42", long 86°32'13", in SE¼SW¼ sec.28, T.38 N., R.1 W., LaPorte County, Hydrologic Unit 07120001 (NEW CARLISLE, IN quadrangle). The gage is on the southeast shore of lake, and 0.7 mi west of the the town line of New Carlisle.

SURFACE AREA.--432 acres.

DRAINAGE AREA.--7.92 mi².

PERIOD OF RECORD.--1946-76, 1978 to 1995.

DATUM OF GAGE.--750.00 ft above sea level. Prior to Oct. 1, 1965, the datum of the gage was 760.00 ft above sea level. All levels listed below are at the present datum.

GAGE.--A water-stage recorder is installed in a wooden shelter over a 24-inch diameter stilling well. An auxiliary staff gage is driven into the lake bed.

ESTABLISHED LEGAL LEVEL.--13.09 ft gage datum or 763.09 ft above sea level as decreed on August 31, 1949, by the St. Joseph County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a 24-inch reinforced concrete pipe with a gate chamber and slide gate.

INLET AND OUTLET.--The one inlet flows into the lake at the extreme northeast tip from Saugany Lake, approximately 1.7 mi upstream. The outlet flows from the lake on the east shore to Geyer Ditch and eventually into the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 16.90 ft May 3, 1983; minimum stage, 7.60 ft Nov. 15, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

(NO DATA COLLECTED DUE TO CONSTRUCTION)

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097680 JIMMERSON LAKE AT NEVADA MILLS, IN

LOCATION.--Lat 41°43'31", long 85°04'55", in SW¼NW¼ sec.30, T.38 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ANGOLA WEST, IN quadrangle). The gage is at the extreme west end of the lake on the abutment of the concrete spillway structure and dam in the town of Nevada Mills, 4.6 mi east of Orland.

SURFACE AREA.--434 acres.

DRAINAGE AREA.--51.6 mi².

PERIOD OF RECORD.--1937-44, 1946 to current year. (Lake level readings were made once a week by employees of Northern Indiana Public Service Company from 1937 to 1944.)

DATUM OF GAGE.--960.27 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources in June 1972.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 24-inch diameter stilling well attached to the control structure. An auxiliary staff gage is bolted to the same wall.

REMARKS.--No data was collected until Sept. 12, 1996 due to construction.

ESTABLISHED LEGAL LEVEL.--4.66 ft gage datum or 964.66 ft above sea level as decreed on July 3, 1947, by the Steuben County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 4.66 ft gage datum or 964.93 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete fixed-crest dam.

INLET AND OUTLET.--Crooked Creek flows through the lake, entering from Lake James at the extreme southeast end, and leaving from the northwest. Crooked Creek flows through Tamarack Lake and becomes Fawn River, which eventually empties into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.22 ft May 27, 1943; minimum stage, 3.71 ft Feb. 16, 17, 1948.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	4.72
20	---	---	---	---	---	---	---	---	---	---	---	4.70
25	---	---	---	---	---	---	---	---	---	---	---	4.74
EOM	---	---	---	---	---	---	---	---	---	---	---	4.80

WTR YR 1996 MEAN 4.74 MAX 4.81 MIN 4.70

03331438 KING LAKE NEAR DELONG, IN

LOCATION.--Lat 41°07'48", long 86°25'23", in NW¼SW¼SE¼ sec.16, T.31 N., R.1 E., Fulton County, Hydrologic Unit 05120106 (CULVER, IN quadrangle). The gage is located on the northern shore of the lake, on the lake access road, 0.6 mi southwest of Delong.

SURFACE AREA.--18 acres.

DRAINAGE AREA.--1.98 mi².

PERIOD OF RECORD.--1970-72, 1975 to current year.

DATUM OF GAGE.--730.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The lake level is normally controlled by the outlet channel bed. At high stages the control changes to the outlet culvert under old State Highway 17. The culvert is located about 700 ft north of the lake.

INLET AND OUTLET.--The inlet is an unnamed ditch which enters the lake from the southeastern side. The outlet exits the lake on the northern side and flows north approximately 1.5 mi to the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 8.69 ft June 14, 1981; minimum stage, 3.60 ft Oct. 23-26, 28-31, November 1, 2, 1974.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.93	6.00	6.16	6.18	6.18	6.46	6.50	6.62	6.90	6.64	6.63	6.40
10	5.87	6.06	6.14	6.18	6.18	6.46	6.48	6.03	7.08	6.53	6.63	6.39
15	5.79	6.20	6.18	6.18	6.18	6.46	6.49	6.06	6.34	6.53	6.57	6.37
20	5.81	6.20	6.18	6.18	6.18	6.46	6.78	6.20	6.88	6.98	6.53	6.30
25	5.75	6.17	6.18	6.18	6.17	6.46	7.11	6.40	6.80	6.73	6.57	6.39
EOM	5.89	6.18	6.18	6.18	6.43	6.49	6.58	6.79	6.73	6.75	6.48	6.47

WTR YR 1996 MEAN 6.38 MAX 8.00 MIN 5.74

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100390 KNAPP LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat. 41°20'36", long 85°36'17", in SW¼NE¼SW¼ sec.4, T.33 N., R.8 E., Noble County, Hydrologic Unit 04050001 (ORMAS, IN quadrangle). The gage is at a public access site on the east side of the lake, and 5.8 mi west of the town of Wolflake.

SURFACE AREA.--88 acres.

DRAINAGE AREA.--6.02 mi².

PERIOD OF RECORD.--1946-74, 1976 to current year.

DATUM OF GAGE.--870.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--8.25 ft gage datum or 878.25 ft above sea level as decreed on October 7, 1954, by the Noble County Circuit Court. Harper Lake, Moss Lake, and Hindman Lake, all near Washington Center, have the same established level as Knapp Lake and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The lake level is controlled by the outlet channel.

INLET AND OUTLET.--There are three inlets. The outlet of Little Knapp Lake enters at the southeastern corner, the outlet of Harper Lake enters at the southernmost tip, and Galloway Ditch enters on the eastern shore. The outlet flows from the lake on the western shore, through a series of lakes, into Turkey Creek and eventually into the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.10 ft June 27, 1968; minimum stage, 6.14 ft Mar. 26, 1994.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	6.85	7.11	7.38	8.11	7.48	8.25	7.43	7.47	7.61
10	---	---	6.89	6.82	7.11	7.38	8.08	8.29	9.17	7.31	7.28	7.59
15	---	---	6.91	6.82	7.11	7.38	7.30	8.08	8.84	7.50	7.30	7.32
20	---	---	6.91	7.34	7.11	7.40	8.07	8.17	8.62	8.34	7.91	7.22
25	---	---	6.90	7.24	6.97	7.43	8.20	7.97	8.17	7.86	7.96	7.43
EOM	---	---	6.87	7.11	7.38	7.67	7.70	8.27	7.76	7.58	7.48	7.46

WTR YR 1996 MEAN 7.56 MAX 9.39 MIN 6.82

05515600 KOONTZ LAKE AT KOONTZ LAKE, IN

LOCATION.--Lat 41°24'42", long 86°29'18", in SW¼SE¼NE¼ sec.11, T.34 N., R.1 W., Starke County, Hydrologic Unit 07120001 (WALKERTON, IN quadrangle). The gage is on the western tip of the lake, at the control dam on State Highway 23, at the town of Koontz Lake.

SURFACE AREA.--346 acres.

DRAINAGE AREA.--6.25 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--710.12 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1978.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--4.56 ft gage datum or 714.56 ft above sea level as decreed on September 15, 1948, by the Starke County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 4.56 ft gage datum or 714.68 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam with a fixed crest.

INLET AND OUTLET.--Lawrence Pontius Ditch and an unnamed ditch enter the lake on the south shore of the east lobe. The outlet flows from the lake at the western tip and into Robbins Ditch 1400 ft downstream. Robbins Ditch empties into the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.10 ft Oct. 11, 1954; minimum stage, 3.10 ft Oct. 12, 1970.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.33	4.51	4.49	4.49	4.50	4.59	4.49	4.60	4.65	4.49	4.61	4.46
10	4.32	4.55	4.48	4.49	4.50	4.57	4.48	4.90	4.75	4.46	4.57	4.54
15	4.29	4.60	4.48	4.49	4.50	4.55	4.52	4.71	4.61	4.48	4.53	4.55
20	4.37	4.54	4.49	4.50	4.53	4.52	4.66	4.66	4.87	5.10	4.54	4.51
25	4.37	4.51	4.49	4.50	4.50	4.50	4.72	4.59	4.63	4.73	4.51	4.52
EOM	4.50	4.51	4.49	4.50	4.64	4.52	4.64	4.78	4.55	4.78	4.48	4.54

WTR YR 1996 MEAN 4.55 MAX 5.60 MIN 4.27

ILLINOIS RIVER BASIN

05517800 LAKE ELIZA NEAR BEATRICE, IN

LOCATION.--Lat 41°25'55", long 87°10'33", in SW¼NE¼NW¼ sec.1, T.34 N., R.7 W., Porter County, Hydrologic Unit 07120001 (PALMER, IN quadrangle). The gage is on the east bank of a boat channel off the northernmost end of the lake, south of the bridge over the channel, and at the town of Lake Eliza.

SURFACE AREA.--45 acres.

DRAINAGE AREA.--1.70 mi².

PERIOD OF RECORD.--1954-74, 1976 to current year.

DATUM OF GAGE.--735.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the bridge piling.

ESTABLISHED LEGAL LEVEL.--3.70 ft gage datum or 738.70 ft above sea level as decreed on February 7, 1982, by the Porter County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a reinforced concrete dam with fixed crest.

INLET AND OUTLET.--Two small inlets enter the lake from the northwest and the northeast. The outlet flows from the lake on the south side through a dredged channel, forms the head waters of Wolf Creek, and eventually joins the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.24 ft June 14, 1981; minimum stage, 2.45 ft Oct. 13-15, 1988.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.17	3.24	3.83	3.82	4.06	4.25	4.11	4.21	4.26	4.09	4.22	4.03
10	3.12	3.43	3.81	3.81	4.07	4.17	4.07	4.68	4.33	3.98	4.38	4.03
15	---	3.82	3.83	3.84	4.06	4.22	4.09	4.28	4.28	3.91	4.33	4.18
20	---	3.84	3.83	4.05	4.06	4.09	4.44	4.33	4.86	5.28	4.27	4.09
25	---	3.83	3.82	4.08	4.06	4.13	4.45	4.32	4.28	4.84	4.23	4.07
EOM	3.17	3.85	3.83	4.08	4.31	4.13	4.26	4.48	4.23	4.75	4.17	4.23

WTR YR 1996 MEAN 4.11 MAX 5.95 MIN 3.12

04097950 LAKE GAGE AT PANAMA, IN

LOCATION.--Lat 41°42'32", long 85°06'53", in SE¼SE¼NW¼ sec.35, T.38 N., R.12 E., Steuben County, Hydrologic Unit 04050001 (ANGOLA WEST, IN quadrangle). The gage is at the bridge over the outlet on the northern tip of the lake, 0.4 mi northwest of Panama, and 3.3 mi southeast of Orland.

SURFACE AREA.--332 acres.

DRAINAGE AREA.--17.3 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--950.00 ft above sea level.

GAGE.--A water-stage recorder is installed in a wooden shelter over a 24-inch diameter stilling well at the downstream side of the bridge. An auxiliary staff gage is at the same site.

ESTABLISHED LEGAL LEVEL.--4.25 ft gage datum or 954.25 ft above sea level as decreed on July 3, 1947, by the Steuben County Circuit Court. Lime Lake at Panama has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest and one adjustable gate at the outlet of Lime Lake.

INLET AND OUTLET.--The one inlet flows into the lake on the extreme eastern shore from the Third Basin of Crooked Lake, 1.4 mi upstream. The outlet flows from the northern tip into Lime Lake approximately 600 ft downstream, then eventually into the St. Joseph River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.55 ft Apr. 25, 1950; minimum stage, 3.41 ft Nov. 13, 15-20, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.42	4.59	4.36	4.18	4.29	4.46	4.52	4.81	4.99	4.97	4.67	4.63
10	4.41	4.62	4.29	4.17	4.31	4.49	4.49	5.01	5.06	4.67	4.59	4.60
15	4.38	4.69	4.30	4.15	4.31	4.51	4.53	5.01	5.02	4.68	4.54	4.53
20	4.40	4.63	4.26	4.25	4.31	4.58	4.64	5.36	5.35	4.66	4.75	4.50
25	4.36	4.51	4.23	4.28	4.31	4.55	4.77	5.35	5.37	4.64	4.75	4.53
EOM	4.50	4.43	4.20	4.29	4.43	4.54	4.80	5.17	5.17	4.73	4.69	4.55

WTR YR 1996 MEAN 4.60 MAX 5.41 MIN 4.14

STREAMS TRIBUTARY TO LAKE MICHIGAN

04092990 LAKE GEORGE AT HOBART, IN

LOCATION.--Lat 41°32'07", long 87°15'30", in NW¼NW¼NW¼ sec.32, T.36 N., R.7 W., Lake County, Hydrologic Unit 04040001 (GARY, IN quadrangle). The gage is on the northeast end of the lake, 70 ft northwest of the dam and 400 ft upstream of the Ridge Road bridge, in Hobart.

SURFACE AREA.--282 acres.

DRAINAGE AREA.--124 mi².

PERIOD OF RECORD.--1947 to current year.

DATUM OF GAGE.--600.00 ft above sea level.

GAGE.--A water-stage recorder is installed in a steel shelter over an 18-inch diameter clay stilling well.

ESTABLISHED LEGAL LEVEL.--2.23 ft gage datum or 602.23 ft above sea level as decreed on September 18, 1959, by the Lake County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with removable boards.

INLET AND OUTLET.--The two principal inlets are Turkey Creek, entering from the extreme southwestern tip, and Deep River, entering on the northeastern shore of the southern lobe. Three unnamed tributaries enter from the northwest, south, and southeast. The outlet, Deep River, flows from the lake at the northeast end and eventually joins the Calumet River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.14 ft Oct. 11, 1954; minimum stage, 0.27 ft Nov. 6, 1978 (while the lake was being drained).

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.00	2.14	2.08	2.05	2.08	2.27	2.15	2.32	2.27	2.11	2.12	1.75
10	2.00	2.31	2.05	2.04	2.08	2.23	2.11	3.57	2.60	2.07	2.31	2.00
15	1.98	2.43	2.10	2.05	2.09	---	2.22	2.32	2.29	2.05	2.08	2.12
20	2.09	2.28	2.09	2.13	2.70	---	2.54	2.43	3.58	4.17	2.07	2.00
25	2.00	2.14	2.07	2.15	2.18	---	2.63	2.41	2.40	2.55	2.03	1.97
EOM	2.16	2.13	2.06	2.06	2.37	2.16	2.53	2.93	2.22	3.08	1.07	2.09

WTR YR 1996 MEAN 2.25 MAX 5.21 MIN .38

04097550 LAKE GEORGE AT JAMESTOWN, IN

LOCATION.--Lat 41°44'58", long 85°01'01", in SE¼NW¼SE¼, sec.15, T.38 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ANGOLA WEST, IN quadrangle). The gage is 25 ft east of the outlet dam on the southwest end of the lake at Jamestown, 8.0 mi north of Angola.

SURFACE AREA.--488 acres.

DRAINAGE AREA.--14.7 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--980.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--5.28 ft gage datum or 985.28 ft above sea level as decreed on October 12, 1945, by the Steuben County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with removable boards.

INLET AND OUTLET.--The inlet flows from Silver Lake, 0.8 mi upstream, and enters on the north shore. The outlet flows from the southwest end of the lake and forms Crooked Creek. Crooked Creek flows into Mud Lake 0.8 mi downstream, then enters Snow Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.20 ft Apr. 4, 25, 1950; minimum stage, 4.20 ft Dec. 6, 7, 1946; Oct. 23-31, 1948.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.59	5.74	5.78	5.76	5.76	5.76	5.78	5.84	5.78	5.68	5.62	5.58
10	5.59	5.74	5.76	5.76	5.76	5.76	5.79	6.02	5.92	5.63	5.59	5.53
15	5.58	5.82	5.76	5.76	5.76	5.76	5.73	5.91	5.87	5.63	5.56	5.50
20	5.56	5.79	5.76	5.76	5.76	5.76	5.79	5.93	6.02	5.63	5.68	5.49
25	5.55	5.76	5.76	5.76	5.76	5.76	5.86	5.86	5.85	5.61	5.64	5.52
EOM	5.67	5.74	5.76	5.76	5.76	5.76	5.85	5.79	5.76	5.65	5.59	5.60

WTR YR 1996 MEAN 5.73 MAX 6.11 MIN 5.49

WABASH RIVER BASIN

03331380 LAKE MANITOU AT ROCHESTER, IN

LOCATION.--Lat 41°03'00", long 86°10'06", NW¼SW¼NW¼ sec.14, T.30 N., R.3 E., Fulton County, Hydrologic Unit 05120106 (ROCHESTER, IN quadrangle). The gage is located at the public access site on the eastern side of the lake, and 2.6 mi southeast of the courthouse in Rochester.

SURFACE AREA.--1,158 acres.

DRAINAGE AREA.--44.2 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--770.00 ft above sea level.

GAGE.--A water-stage recorder is installed in a aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is located at the northwest end of the lake at the fish hatchery.

ESTABLISHED LEGAL LEVEL.--8.41 ft gage datum or 778.41 ft above sea level as decreed on September 27, 1948, by the Fulton County Circuit Court.

LAKE-LEVEL CONTROL.--The lake level is controlled by a concrete dam and the gate of a feeder canal at the lake outlet.

INLET AND OUTLET.--Rain Creek is the main inlet and enters at the southeastern edge of the lake. The other inlet is located on the eastern shore of the lake at the site of the gage. The outlet is Mill Creek, which exits at the northwestern tip of the lake and flows 3.5 mi to the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.87 ft Aug. 19, 1990; minimum stage, 6.48 ft Nov. 14, 25-27, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.13	9.43	9.34	9.34	9.66	9.44	9.42	9.54	9.69	9.41	9.60	9.36
10	9.12	9.37	9.32	9.33	9.75	9.39	9.39	9.78	9.77	9.35	9.51	9.37
15	9.09	9.42	9.34	9.34	9.51	9.39	9.42	9.66	9.65	9.38	9.46	9.34
20	9.15	9.39	9.37	9.58	9.37	9.47	9.47	9.57	9.73	10.38	9.45	9.33
25	9.14	9.35	9.34	9.53	9.38	9.46	9.55	9.77	9.58	9.91	9.50	9.40
EOM	9.34	9.34	9.34	9.46	9.42	9.44	9.51	9.79	9.48	9.78	9.41	9.40

WTR YR 1996 MEAN 9.47 MAX 10.54 MIN 9.05

03331440 LAKE MAXINKUCKEE AT CULVER, IN

LOCATION.--Lat 41°11'48", long 86°25'00", in NE¼SE¼NW¼ sec.28, T.32 N., R.1 E., Marshall County, Hydrologic Unit 05120106 (CULVER, IN quadrangle). The gage is on the lower west side of the lake, at the public access site, 1.4 mi south of the center of Culver.

SURFACE AREA.--1,864 acres.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--730.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the upstream side of the north abutment of the outlet dam.

ESTABLISHED LEGAL LEVEL.--3.12 ft gage datum or 733.12 ft above sea level as decreed on August 9, 1948, by the Marshall County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest at the outlet channel.

INLET AND OUTLET.--Wilson Ditch enters the lake at the northeast corner, Curtiss Ditch enters at the east center, and Norris Inlet enters at the southeast corner. The outlet leaves the lake at the western shore, north of the point, and flows into Lost Lake 1,600 ft downstream, thence into the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.48 ft June 14, 15, 1981; minimum stage, 2.12 ft Nov. 19, 1953 and Nov. 19, 1956.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.82	2.88	3.06	3.14	3.37	3.43	3.25	3.59	3.83	3.48	3.90	3.32
10	2.78	2.87	3.04	3.15	3.37	3.43	3.23	3.70	3.95	3.34	3.82	3.34
15	2.73	3.04	3.06	3.19	3.37	3.41	3.25	3.68	3.90	3.38	3.69	3.27
20	2.73	3.05	3.10	3.29	3.37	3.36	3.37	3.72	4.01	4.19	3.56	3.20
25	2.68	3.04	3.10	3.34	3.37	3.34	3.60	3.67	3.85	4.20	3.51	3.28
EOM	2.80	3.06	3.12	3.37	3.43	3.27	3.56	3.81	3.68	4.07	3.39	3.34

WTR YR 1996 MEAN 3.37 MAX 4.30 MIN 2.68

ILLINOIS RIVER BASIN

05516200 LAKE OF THE WOODS NEAR BREMEN, IN

LOCATION.--Lat 41°25'04", long 86°13'44", in SW¼NW¼NW¼ sec.7, T.34 N., R.3 E., Marshall County, Hydrologic Unit 07120001 (BREMEN, IN quadrangle). The gage is on the southwest shore of the lake, at the public fishing site, and 4.7 mi southwest of Bremen.

SURFACE AREA.--416 acres.

DRAINAGE AREA.--9.45 mi².

PERIOD OF RECORD.--1945 to current year.

DATUM OF GAGE.--800.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the outlet channel.

ESTABLISHED LEGAL LEVEL.--3.85 ft gage datum or 803.85 ft above sea level as decreed on August 9, 1948, by the Marshall County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a 13 ft by 1 ft notch. The dam is equipped with a lift gate.

INLET AND OUTLET.--Three ditches, Kimble, Martin, and Seltenright, enter the lake on the northwest shore. Scofield Ditch enters at the west lobe. The outlet, Clark Ditch, flows from the lake at the southern end and eventually into Yellow River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.68 ft Oct. 12, 1954; minimum stage, 2.75 ft Nov. 18-20, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.98	3.14	3.16	2.98	2.88	3.42	3.06	3.52	3.96	3.74	3.90	3.69
10	2.94	3.30	3.11	2.94	3.16	3.21	3.02	4.33	4.31	3.81	3.86	3.80
15	2.90	3.50	3.19	2.96	3.03	3.19	3.16	3.99	3.85	3.86	3.84	3.80
20	2.95	3.40	3.09	3.24	3.01	3.18	3.48	4.01	4.22	4.75	3.80	3.27
25	2.92	3.27	3.07	3.23	3.04	3.14	3.88	3.66	3.69	3.90	3.77	3.16
EOM	3.12	3.21	3.04	3.14	3.42	3.11	3.69	4.00	3.75	3.97	3.73	3.15

WTR YR 1996 MEAN 3.45 MAX 5.23 MIN 2.86

04099580 LAKE OF THE WOODS NEAR HELMER, IN

LOCATION.--Lat 41°32'30", long 85°11'42", in $SE^1/_4SE^1/_4SE^1/_4$ sec.25, T.36 N., R.11 E., Lagrange County, Hydrologic Unit 04050001 (STROH, IN quadrangle). The gage is on the west shore of Duck Pond, a basin connecting Lake of the Woods and McClish Lake, approximately 100 ft south of the bridge over the channel, and 1.5 mi northwest of Helmer.

SURFACE AREA.--136 acres.

DRAINAGE AREA.--5.25 mi^2.

PERIOD OF RECORD.--1951-74, 1977 to current year.

DATUM OF GAGE.--940.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--11.09 ft gage datum or 951.09 ft above sea level as decreed on July 21, 1960, by the Lagrange County Circuit Court. McClish Lake near Helmer has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed sill.

INLET AND OUTLET.--There are four inlets to the lake. Spectacle Lake drains into the west shore, Maumee Ditch enters from the south, Goose Pond flows through a short channel to the southwest shore, and McClish Lake drains into the lake on the southeast shore. The outlet flows to the north from the east end of the lake and through Taylor, Mud, and Little Turkey Lakes to Turkey Creek, thence into Pigeon River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.00 ft Dec. 24, 25, 1967; minimum stage, 9.81 ft Nov. 17-20, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.15	11.78	11.42	11.39	11.40	11.34	11.48	11.63	11.62	11.44	11.35	11.35
10	11.15	11.56	11.40	11.39	11.40	11.34	11.43	11.80	11.78	11.42	11.26	11.32
15	11.09	11.63	11.38	11.39	11.40	11.38	11.45	11.70	11.64	11.44	11.26	11.26
20	11.11	11.55	11.39	11.40	11.40	11.45	11.70	12.27	12.27	11.48	11.57	11.23
25	11.09	11.49	11.39	11.40	11.41	11.52	12.01	11.81	11.89	11.39	11.59	11.27
EOM	11.24	11.46	11.39	11.40	11.34	11.51	11.75	11.65	11.57	11.47	11.42	11.32

WTR YR 1996 MEAN 11.48 MAX 12.56 MIN 11.05

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097520 LAKE PLEASANT NEAR NEVADA MILLS, IN

LOCATION.--Lat 41°45'18", long 85°06'10", in $NW^1/_4SW^1/_4NW^1/_4$ sec.13, T.38 N., R.12 E., Steuben County, Hydrologic Unit 04050001 (KINDERHOOK, MI-IN quadrangle). The gage is at a bridge over a boat channel on the south shore of the lake, 2.3 mi northwest of Nevada Mills.

SURFACE AREA.--424 acres.

DRAINAGE AREA.--3.18 mi^2.

PERIOD OF RECORD.--1954-69, 1971, 1976 to current year.

DATUM OF GAGE.--960.40 ft above sea level as corrected on the basis of levels of Indiana Department of Natural Resources, 1977-78.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the southwest bridge abutment at the site.

ESTABLISHED LEGAL LEVEL.--1.10 ft gage datum or 961.50 ft above sea level as decreed on April 11, 1986, by the Steuben County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a metal plate welded across the bottom of a corrugated metal pipe.

INLET AND OUTLET.--The one inlet enters the lake on the west side. The outlet flows from the northern shore, enters Michigan, and eventually empties into Prairie River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 2.04 ft Mar. 17, 1980; minimum stage, -0.14 ft Nov. 6-14, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	1.53	1.53	1.53	1.56	1.57	1.46	1.61	---	---	1.28	1.10
10	---	1.58	1.52	1.53	1.61	1.53	1.42	1.81	---	1.41	1.22	1.06
15	1.33	1.62	1.56	1.53	1.60	1.53	1.51	---	---	1.37	1.16	1.01
20	1.36	1.62	1.55	1.69	1.58	1.56	1.59	---	---	1.34	1.25	.97
25	1.33	1.59	1.55	1.68	1.50	1.51	1.69	---	---	1.29	1.22	1.02
EOM	1.45	1.57	1.55	1.56	1.58	1.49	1.66	---	---	1.32	1.16	1.05

WTR YR 1996 MEAN 1.44 MAX 1.81 MIN .97

04100160 LITTLE LONG LAKE AT KENDALLVILLE, IN

LOCATION.--Lat 41°27'49", long 85°15'27", in SE¼NW¼NE¼ sec.28, T.35 N., R.11 E., Noble County, Hydrologic Unit 04050001 (KENDALLVILLE, IN quadrangle). The gage is on the south side of the lake at the bridge over the dredged channel in Wakeville Village, 1.6 mi northeast of City Hall in Kendallville.

SURFACE AREA.--71 acres.

DRAINAGE AREA.--4.55 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--950.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is attached to the west wingwall on the south side of the bridge.

ESTABLISHED LEGAL LEVEL.--4.50 ft gage datum or 954.50 ft above sea level as decreed on March 26, 1970. Round Lake at Kendallville has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete dam.

INLET AND OUTLET.--The one inlet enters on the east side from Round Lake. The outlet, Waterhouse Ditch, flows from the lake at the southwest end and into Henderson Lake Ditch, thence into Sylvan Lake 4.8 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.75 ft Jan. 31, 1969; minimum stage, 3.33 ft Nov. 17, 18, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.62	4.99	4.73	4.74	4.73	4.74	4.77	4.84	4.80	4.68	4.69	---
10	4.63	4.80	4.71	4.74	4.73	4.74	4.74	4.95	5.25	4.64	4.61	---
15	4.59	4.85	4.74	4.74	4.73	4.74	4.78	4.89	4.94	4.64	4.57	---
20	4.60	4.80	4.74	4.74	4.73	4.80	5.14	5.15	5.66	4.72	5.06	---
25	4.58	4.76	4.74	4.74	4.73	4.86	5.13	4.86	4.93	4.68	---	---
EOM	4.75	4.75	4.74	4.73	4.74	4.80	4.91	4.82	4.76	4.76	---	---

WTR YR 1996 MEAN 4.80 MAX 5.94 MIN 4.53

WABASH RIVER BASIN

03328100 LONG LAKE AT LAKETON, IN

LOCATION.--Lat 40°59'08", long 85°50'20", in NE¼NW¼NE¼ sec.10, T.29 N., R.6 E., Wabash County, Hydrologic Unit 05120104 (NORTH MANCHESTER SOUTH, IN quadrangle). The gage is located on the north shore of the lake, 0.3 mi west of Crill Road, and 0.8 mi north of Laketon.

SURFACE AREA.--48 acres.

DRAINAGE AREA.--0.55 mi².

PERIOD OF RECORD.--1946-51, 1959 to current year.

DATUM OF GAGE.--740.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage, driven into the lake bed, is located 50 ft lakeward of the primary gage.

ESTABLISHED LEGAL LEVEL.--11.19 ft gage datum or 751.19 ft above sea level as decreed on July 26, 1951, by the Wabash County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by an 18-inch corrugated metal pipe draining into a clay tile.

INLET AND OUTLET.--Two tile ditches flow into the lake. The outlet flows from the west end of the lake, joins the outlet of Mud Lake, continues through Round Lake, then into Eel River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.66 ft Mar. 22, 1982; minimum stage, 8.68 ft Dec. 1-3, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.65	10.55	10.49	10.47	10.60	10.64	10.47	10.47	10.79	10.67	11.92	11.91
10	10.57	10.66	10.44	10.45	10.61	10.62	10.42	10.59	10.92	10.56	11.85	11.84
15	10.49	10.62	10.45	10.45	10.61	10.51	10.42	10.57	10.91	10.56	11.77	11.74
20	10.48	10.60	10.47	10.55	10.61	10.54	10.39	10.57	10.94	11.61	12.15	11.65
25	10.39	10.55	10.45	10.62	10.62	10.53	10.46	10.64	10.88	11.72	12.23	11.73
EOM	10.56	10.53	10.44	10.60	10.65	10.51	10.44	10.75	10.79	11.97	12.04	11.73

WTR YR 1996 MEAN 10.84 MAX 12.27 MIN 10.39

04099200 LONG LAKE AT MOONLIGHT, IN

LOCATION.--Lat 41°35'01", long 85°01'43", in NE¼NE¼NE¼ sec.16, T.36 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ASHLEY, IN quadrangle). The gage is located on the northern shore, 0.4 mi east of the lake outlet and 2.5 mi north of Steubenville.

SURFACE AREA.--92 acres.

DRAINAGE AREA.--67.9 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--940.10 ft above sea level as corrected on the basis of levels of Indiana Department of Natural Resources, 1977.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is located near the gage in two sections. One section is mounted on a post which is driven into the lake bed. The other section is mounted to a tree near the gage.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The lake level is controlled by the downstream channel.

INLET AND OUTLET.--Pigeon Creek flows into Long Lake at the eastern end of the lake and exits at the western end.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 17.42 ft Mar. 22, 1982; minimum stage, 8.58 ft Sept. 22 and 23, 1994.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.98	11.41	9.41	9.10	9.31	10.26	9.66	10.37	---	---	9.45	9.33
10	8.99	9.85	9.21	9.05	10.01	9.63	9.63	11.52	---	9.76	9.30	9.31
15	8.94	10.62	9.38	9.05	9.44	9.63	9.61	---	---	9.66	9.32	9.28
20	8.95	10.20	9.31	10.92	9.25	9.68	10.52	---	---	9.58	10.35	9.28
25	8.95	9.83	9.18	10.43	9.40	10.31	12.03	---	---	9.41	10.68	9.26
EOM	9.25	9.60	9.13	9.50	11.62	10.22	10.91	---	---	9.94	9.51	9.38

WTR YR 1996 MEAN 9.73 MAX 12.29 MIN 8.88

WABASH RIVER BASIN

03331460 LOST LAKE AT CULVER, IN

LOCATION.--Lat 41°12'01", long 86°25'19", in NE¼NW¼NW¼ sec.28, T.32 N., R.1 E., Marshall County, Hydrologic Unit 05120106 (CULVER, IN quadrangle). The gage is on the northern shore of the lake at the east end of West 19th Road (lake access road), 1.1 mi south of the center of Culver.

SURFACE AREA.--40 acres.

DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--1954-64, 1963-74, 1976 to current year. (Formerly published as Hawks Lake near Culver.)

DATUM OF GAGE.--720.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--12.00 ft gage datum or 732.00 ft above sea level as decreed on February 17, 1960, by the Marshall County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam and sill with removable boards in the outlet channel approximately 850 ft downstream from the main body of the lake.

INLET AND OUTLET.--The one inlet flows into the lake from Maxinkuckee Lake and enters on the north shore. The outlet flows from the south end of the lake to the Tippecanoe River 3.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.05 ft June 15, 1981; minimum stage, 10.12 ft July 9, 1959.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.39	11.47	11.81	11.90	12.06	12.09	11.86	12.07	12.17	12.06	12.30	11.83
10	11.32	11.54	11.79	11.90	12.07	12.07	11.88	12.15	12.26	11.95	12.24	11.85
15	11.27	11.72	11.82	11.94	12.07	12.09	11.92	12.11	12.24	11.98	12.15	11.80
20	11.31	11.74	11.85	11.99	12.07	11.95	11.97	12.14	12.35	12.41	12.09	11.72
25	11.27	11.74	11.86	12.04	12.06	11.94	12.09	12.14	12.22	12.43	12.03	11.80
EOM	11.40	11.78	11.88	12.06	12.07	11.89	12.08	12.22	12.20	12.38	11.93	11.87

WTR YR 1996 MEAN 11.95 MAX 12.48 MIN 11.22

03328400 LUKENS LAKE NEAR DISKO, IN

LOCATION.--Lat 40°58'09", long 85°56'06", in SW¼NW¼NE¼ sec.14, T.29 N., R.5 E., Wabash County, Hydrologic Unit 05120104 (ROANN, IN quadrangle). The gage is 25 ft north of the outlet on the southwest side of the lake, 4.1 mi north of Roann.

SURFACE AREA.--46 acres.

DRAINAGE AREA.--1.76 mi².

PERIOD OF RECORD.--1948-49, 1959 to current year.

DATUM OF GAGE.--760.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is driven into the lake bed about 5 ft upstream from the outlet culvert.

ESTABLISHED LEGAL LEVEL.--3.60 ft gage datum or 763.60 ft above the sea level as decreed on March 29, 1978, by the Wabash County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by two 18-inch corrugated metal culverts at the outlet.

INLET AND OUTLET.--The principal inlet is a tile drain from McColley Lake, 0.5 mi to the north. The outlet flows from the southwestern shore, into Bolley Ditch 0.7 mi downstream, thence into Squirrel Creek, and eventually into Eel River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.10 ft May 16, 1968; minimum stage, 2.32 ft Oct. 12, 1983.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.07	3.14	3.44	3.54	3.78	3.59	3.62	3.74	3.84	3.48	3.99	3.98
10	3.03	3.17	3.43	3.53	3.76	3.57	3.56	3.89	3.91	3.38	3.92	3.95
15	2.97	3.32	3.46	3.59	3.70	3.58	3.57	3.88	3.88	3.40	3.86	3.84
20	3.00	3.38	3.52	3.85	3.60	3.65	3.59	3.82	3.89	4.19	4.61	3.73
25	2.95	3.40	3.51	3.87	3.55	3.69	3.68	3.88	3.76	4.10	4.23	3.77
EOM	3.08	3.42	3.50	3.78	3.57	3.67	3.68	3.89	3.62	4.15	4.07	3.74

WTR YR 1996 MEAN 3.64 MAX 4.61 MIN 2.94

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100280 MUNCIE LAKE NEAR BURR OAK, IN

LOCATION.--Lat 41°19'37", long 85°27'28", in NE¼SW¼SW¼ sec.11, T.33 N., R.9 E., Noble County, Hydrologic Unit 04050001 (MERRIAM, IN quadrangle). The gage is on the southwest shore of the lake, just north of the gravel road on the Addis farm, and 1.3 mi northwest of Burr Oak.

SURFACE AREA.--47 acres.

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--880.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel.

INLET AND OUTLET.--There are three inlets to the lake. Forker Creek flows into the lake from the east, Brown Ditch from the southeast, and Carrol Creek from the west. The outlet flows from the northwest shore into Williams Lake, then into the South Branch of the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.47 ft Mar. 24, 25, 1978, Feb. 25, 26, 1985; minimum stage, 1.88 ft Aug. 8, 1988.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.62	2.87	2.70	2.66	3.36	2.96	2.92	---	---	---	3.11	3.05
10	2.54	2.77	2.58	2.59	3.36	2.96	2.88	---	---	---	2.93	2.99
15	2.51	3.13	2.65	2.59	3.36	2.87	2.87	---	---	---	2.86	2.90
20	2.61	3.01	2.67	3.43	3.36	2.90	4.60	---	---	---	3.29	2.80
25	2.53	2.92	2.62	3.36	3.31	3.21	---	---	---	---	3.58	2.88
EOM	2.62	2.80	2.59	3.36	3.11	3.04	---	---	---	3.27	3.18	2.89

WTR YR 1996 MEAN 2.97 MAX 5.76 MIN 2.43

04099700 NORTH TWIN LAKE NEAR HOWE, IN

LOCATION.--Lat 41°43'45", long 85°27'49", in SE¼SW¼SW¼ sec.23, T.38 N., R.9 E., Lagrange County, Hydrologic Unit 04050001 (LAGRANGE, IN quadrangle). The gage is in the channel between North and South Twin Lakes, 100 ft upstream from the county road bridge, and 2.2 mi northwest of Howe.

SURFACE AREA.--135 acres.

DRAINAGE AREA.--1.54 mi².

PERIOD OF RECORD.--1953 to current year.

DATUM OF GAGE.--840.00 ft above sea level.

GAGE.--A staff gage is attached to the east concrete retaining wall of the control dam.

ESTABLISHED LEGAL LEVEL.--3.56 ft gage datum or 843.56 ft above sea level as decreed on September 11, 1959, by the Lagrange County Circuit Court. South Twin Lake near Howe has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--Prior to October 1, 1982, the low water control was a fixed-crest dam with removable boards at the upstream end of the channel between the two lakes. At high stages the outlet channel of South Twin Lake was the control. After October 1, 1982, a concrete dam with a fixed crest was installed in the outlet of South Twin Lake. This is now the control structure for both North and South Twin Lakes, although the original structure is still in place.

INLET AND OUTLET.--There are two inlets to the lake. One enters at the southeast shore from Still Lake 0.9 mi upstream, and the other, which drains the adjacent marsh land, enters on the northwest shore. The outlet flows from the southwest shore and into South Twin Lake approximately 200 ft downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 5.20 ft Feb. 26, 1985; minimum stage, 2.97 ft Aug. 20, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.44	3.59	3.51	3.47	3.48	3.55	3.47	3.59	3.62	3.43	3.48	3.40
10	3.44	3.64	3.52	3.48	3.52	3.52	3.47	3.89	3.74	3.41	3.44	3.42
15	3.42	3.60	3.52	3.47	3.50	3.49	3.58	3.81	3.64	3.46	3.46	3.45
20	3.48	3.54	3.48	3.55	3.49	3.49	3.65	3.76	3.96	3.50	3.50	3.42
25	3.48	3.50	3.50	3.53	3.49	3.46	3.65	3.68	3.80	3.47	3.50	3.51
EOM	3.57	3.49	3.48	3.48	3.51	3.43	3.62	3.61	3.56	3.54	3.43	3.48

WTR YR 1996 MEAN 3.53 MAX 3.98 MIN 3.36

WABASH RIVER BASIN

03331400 NYONA LAKE NEAR GREENOAK, IN

LOCATION.--Lat 40°57'40", long 86°11'20", in SE¼SE¼NE¼ sec.16, T.29 N., R.3 E., Fulton County, Hydrologic Unit 05120106 (MACY, IN quadrangle). The gage is on the northwest shore of the southern lobe of the lake, at the public access site, and 2.4 mi south of Greenoak.

SURFACE AREA.--104 acres.

DRAINAGE AREA.--7.59 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--790.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--3.91 ft gage datum or 793.91 ft above sea level as decreed on September 27, 1948, by the Fulton County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest.

INLET AND OUTLET.--The lake is fed by two small ditches entering from the east and northeast. The outlet flows from the lake at the southwest corner and into Mud Creek, which eventually joins the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.13 ft Aug. 18, 1990; minimum stage, 2.98 ft Oct. 12-19, 25, 26, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.96	4.02	3.99	3.99	4.11	4.13	4.07	4.15	4.12	3.96	4.10	3.97
10	3.94	4.00	3.97	3.96	4.11	4.12	4.04	4.31	4.14	3.95	4.03	3.98
15	3.92	4.06	3.99	3.98	4.11	4.11	4.06	4.16	4.05	4.01	4.00	3.95
20	3.99	4.02	4.01	4.41	4.11	4.10	4.06	4.10	4.19	4.65	4.08	3.94
25	3.94	4.00	3.98	4.26	4.09	4.14	4.12	4.18	4.12	4.30	4.15	4.00
EOM	4.03	3.98	3.98	4.11	4.14	4.11	4.08	4.17	4.01	4.31	4.01	4.00

WTR YR 1996 MEAN 4.08 MAX 5.29 MIN 3.92

03371700 OGLE LAKE NEAR NASHVILLE, IN

LOCATION.--Lat 39°09'35", long 86°14'54", in NE¼SE¼NE¼ sec.1, T.8 N., R.2 E., Brown County, Hydrologic Unit 05120208 (NASHVILLE, IN quadrangle). The gage is on the dam, near the concrete intake structure on the west side of the lake, 3.3 mi south of Nashville.

SURFACE AREA.--20 acres.

DRAINAGE AREA.--1.03 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--710.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete flood spillway with a fixed crest.

INLET AND OUTLET.--Two ditches enter the lake, one from the east and one from the southeast. The outlet flows into Upper Schooner Creek, which joins Lower Schooner Creek, then flows into the North Fork of Salt Creek. The North Fork of Salt Creek empties into Monroe Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 6.80 ft June 23, 1960; minimum stage, -2.70 ft Feb. 12, 13, 1977.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.01	3.50	3.78	4.57	4.60	4.65	4.63	4.76	4.57	4.45	4.03	3.18
10	3.90	3.59	3.70	4.57	4.60	4.59	4.59	4.77	4.70	4.40	3.87	3.22
15	3.76	3.85	3.36	4.61	4.60	4.60	4.64	4.77	4.57	4.30	3.69	3.09
20	3.71	3.86	4.31	4.65	4.60	4.64	4.85	4.59	4.59	4.22	3.55	3.12
25	3.59	3.85	4.47	4.66	4.55	4.88	4.69	4.55	4.62	4.26	3.44	3.22
EOM	3.54	3.85	4.51	4.60	4.65	4.69	4.78	4.61	4.55	4.16	3.31	4.04

WTR YR 1996 MEAN 4.23 MAX 5.89 MIN 3.09

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100100 OLIVER LAKE NEAR VALENTINE, IN

LOCATION.--Lat 41°34'37", long 85°24'44", in SE¼SW¼NE¼ sec.18, T.36 N., R.10 E., Lagrange County, Hydrologic Unit 04050001 (OLIVER LAKE, IN quadrangle). The gage is at the public access site on the northwest side of the lake, and 1.6 mi southwest of Valentine.

SURFACE AREA.--362 acres.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--1945 to current year.

DATUM OF GAGE.--889.78 ft above sea level as corrected on the basis of levels of Indiana Department of Natural Resources, 1975-76.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxillary staff gage is attached to the dam in the outlet.

ESTABLISHED LEGAL LEVEL.--9.45 ft gage datum or 899.45 ft above sea level as decreed on September 29, 1952, by the Lagrange County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 9.45 ft gage datum or 899.23 ft above sea level. Martin and Olin Lakes near Valentine have the same established level as Oliver Lake and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed sill and dam with movable boards.

INLET AND OUTLET.--The lake has several inlets. Dove Creek enters on the northwest, the outlet of Holsinger Hole on the north, Hart Ditch on the east, and the channel between Oliver and Olin Lakes on the southeast shore. The Oliver Lake outlet flows from the southwest lobe of the lake, through a wetland, into Hackenburg Lake 1.6 mi downstream, and eventually into the North Branch of the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.77 ft June 14, 1981; minimum stage, 8.42 ft Jan. 18, 19, and Feb. 3-5, 1961.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.77	10.01	9.86	9.82	9.92	9.92	9.80	9.88	9.86	9.89	9.76	9.73
10	9.77	9.97	9.81	9.82	9.92	9.92	9.77	10.24	10.27	9.74	9.69	9.70
15	9.74	10.01	9.83	9.81	9.92	9.92	9.81	10.04	10.13	9.76	9.66	---
20	9.79	9.95	9.83	9.99	9.92	9.92	9.96	10.25	10.92	9.82	9.92	---
25	9.78	9.90	9.82	9.93	9.92	9.91	10.15	9.98	10.46	9.77	10.01	---
EOM	9.91	9.89	9.81	9.92	9.92	9.94	9.96	9.90	10.14	9.81	9.78	---

WTR YR 1996 MEAN 9.91 MAX 10.99 MIN 9.65

03331180 PALESTINE LAKE AT PALESTINE, IN

LOCATION.--Lat 41°10'48", long 85°56'54", in NE¼NE¼SW¼ sec.33, T.32 N., R.5 E., Kosciusko County, Hydrologic Unit 05120106 (BURKET, IN quadrangle). The gage is near the extreme northwestern corner of the lake, at the public access site, in the town of Palestine.

SURFACE AREA.--290 acres.

DRAINAGE AREA.--32.4 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--815.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is driven into the lake bed just north of the public access site.

ESTABLISHED LEGAL LEVEL.--1.62 ft gage datum or 816.62 ft above sea level as decreed on August 5, 1965, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by an old mill dam of stone and concrete (fixed crest) at the west lobe of the far northern shore.

INLET AND OUTLET.--There are four inlets to the lake. Magee Ditch enters from the north, Williamson Ditch from the west and the confluence of Adams and Sloan Ditches from the southeast. Trimble Creek flows through the lake, entering on the extreme southeastern end, leaving at the northwestern lobe and flowing into the Tippecanoe River 7.5 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 4.35 ft June 13, 1981; minimum stage, below -0.90 ft, lake drained, 1988.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.82	1.85	1.78	1.82	2.04	1.88	1.87	2.06	2.00	1.83	1.94	1.85
10	1.81	1.80	1.73	1.82	2.04	1.84	1.87	2.30	2.14	1.80	1.87	1.80
15	1.80	1.84	1.80	1.82	2.03	1.84	1.91	2.08	1.98	1.85	1.85	1.79
20	1.84	1.81	1.80	2.22	2.05	1.88	2.21	2.01	1.99	2.51	1.98	1.79
25	1.79	1.79	1.80	2.06	2.07	1.87	2.14	1.98	1.92	2.17	1.93	1.83
EOM	1.81	1.79	1.82	2.04	1.88	1.87	2.06	2.11	1.87	2.12	1.85	1.82

WTR YR 1996 MEAN 1.93 MAX 3.07 MIN 1.73

WABASH RIVER BASIN

03331040 PIKE LAKE AT WARSAW, IN

LOCATION.--Lat 41°15'44", long 85°51'00", in NE¼NW¼NE¼ sec.5, T.32 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106 (LEESBURG, IN quadrangle). The gage is on the extreme northwestern point of the lake at the bridge over the outlet, 1.6 mi north of Warsaw.

SURFACE AREA.--203 acres.

DRAINAGE AREA.--41.5 mi².

PERIOD OF RECORD.--1954 to current year.

DATUM OF GAGE.--800.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well attached to the upstream abutment of the control structure.

ESTABLISHED LEGAL LEVEL.--5.64 ft gage datum or 805.64 ft above sea level as decreed on December 12, 1963, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest and removable boards.

INLET AND OUTLET.--The one inlet, Deeds Creek, flows from Little Chapman Lake 3.4 mi upstream, and enters the lake on the lower northern shore. The outlet flows to the west from the extreme northern end of the lake through Lones Ditch and enters the Tippecanoe River 0.9 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.79 ft Oct. 15, 1954; minimum stage, 3.71 ft Sept. 21, 22, 1955.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.72	5.47	4.83	4.85	5.11	4.96	4.95	5.61	6.14	5.84	5.94	5.80
10	5.69	5.04	4.78	4.81	5.00	4.90	4.88	6.07	6.39	5.86	5.92	5.77
15	5.67	5.09	4.87	4.82	4.91	4.91	4.90	6.02	6.39	5.82	5.86	5.76
20	5.75	4.97	4.86	5.48	4.89	4.99	5.63	8.35	6.53	7.76	6.09	5.74
25	5.69	4.90	4.83	5.23	4.88	5.01	5.98	7.18	6.13	6.94	6.01	5.80
EOM	5.77	4.86	4.83	5.11	5.01	4.96	5.91	6.74	5.89	6.26	5.88	5.77

WTR YR 1996 MEAN 5.59 MAX 9.23 MIN 4.76

05515220 PINE LAKE AT LAPORTE, IN

LOCATION.--Lat 41°37'01", long 86°44'58", in NE¼SE¼NW¼ sec.34, T.37 N., R.3 W., LaPorte County, Hydrologic Unit 07120001 (LAPORTE EAST, IN quadrangle). The gage is at the highway bridge over the channel connecting Pine and Stone Lakes, on Waverly Beach Road, in LaPorte.

SURFACE AREA.--564 acres.

DRAINAGE AREA.--10.7 mi².

PERIOD OF RECORD.--1946-75, 1980 to current year.

DATUM OF GAGE.--780.00 ft above sea level. Prior to Oct. 1, 1964, the datum of the gage was 790.00 ft. All levels given below are at the present datum.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the channel bed at the same site.

ESTABLISHED LEGAL LEVEL.--16.20 ft gage datum or 796.20 ft above sea level, as decreed on August 31, 1949, by the LaPorte County Circuit Court. Stone Lake at LaPorte has the same established level and hence the same lake levels during the periods of record when the channel between the two lakes is open and flowing, water years 1946-63 and 1968-85.

LAKE-LEVEL CONTROL.--Pine and Stone Lakes form a closed basin; however, there is a capability of pumping water from the lakes into the Little Kankakee River during times of high water.

INLET AND OUTLET.--Kabelin Ditch enters Pine Lake from the northwest through a large drain tile. Pine Lake is connected to Stone Lake by a channel on the southern tip.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 20.98 ft June 2, 3, 1993; minimum stage, 9.00 ft Nov. 14, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.27	18.40	18.35	18.36	18.45	18.28	18.36	19.02	19.06	19.39	19.08
10	---	18.35	18.38	18.31	18.35	18.46	18.22	18.80	19.16	18.93	19.54	19.01
15	---	18.48	18.40	18.32	18.35	18.46	18.23	18.82	19.15	18.85	19.46	19.06
20	---	18.47	18.39	18.39	18.34	18.46	18.31	18.89	19.38	19.40	19.36	18.96
25	18.08	18.43	18.37	18.39	18.32	18.39	18.39	18.86	19.32	19.37	19.29	18.89
EOM	18.18	18.43	18.36	18.40	18.42	18.35	18.37	18.95	19.21	19.46	19.17	18.90

WTR YR 1996 MEAN 18.69 MAX 19.58 MIN 18.08

ILLINOIS RIVER BASIN

05516600 PRETTY LAKE NEAR PLYMOUTH

LOCATION.--Lat 41°19"39", long 86°22'15", in NW¼SE¼NE¼ sec. 11, T. 33 N., R. 1 E., Marshall County, Hydrologic Unit 07120001, the gage is on the north shore of the lake, 3.3 mi southwest of Plymouth.

SURFACE AREA.--97 acres.

DRAINAGE AREA.--0.85 mi².

PERIOD OF RECORD.--1954-66. 1989 to current year.

DATUM OF GAGE.--780.00 ft above sea level.

GAGE.--A staff gage in one section is driven into the lake bed near house at 10099 Pretty Lake Trail.

ESTABLISHED LEGAL LEVEL.--7.36 ft gage datum or 787.36 ft above sea level as decreed on July 16, 1965, by the Marshall County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the banks. At times of very high water levels, water overflows the southeastern shore.

INLET AND OUTLET.--There are no inlets. There is no well-defined outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.10 ft June 1, 1991; minimum stage, 4.90 ft Nov. 26, 27, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.41	---	---	---	---	---	---	9.00	9.22	9.03	9.15	8.85
10	8.36	---	---	---	---	---	---	9.04	9.36	8.94	9.12	8.90
15	8.32	---	---	---	---	---	---	9.05	9.35	8.85	9.04	8.86
20	8.24	---	---	---	---	---	---	9.06	9.40	9.32	9.04	8.79
25	8.26	---	---	---	---	---	---	9.02	9.25	9.25	9.01	8.80
EOM	---	---	---	---	---	---	---	9.22	9.15	9.24	8.94	8.86

WTR YR 1996 MEAN 8.96 MAX 9.45 MIN 8.24

05515800 RIDDLES LAKE NEAR LAKEVILLE, IN

LOCATION.--Lat 41°30'19", long 86°15'31", in NW¼NE¼ sec.11, T.35 N., R.2 E., St. Joseph County, Hydrologic Unit 07120001 (LAKEVILLE, IN quadrangle). The gage is on the east side of the lake, about 1.4 mi southeast of Lakeville.

SURFACE AREA.--77 acres.

DRAINAGE AREA.--11.7 mi².

PERIOD OF RECORD.--1946-71, 1976 to current year.

DATUM OF GAGE.--810.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to a wingwall of the control dam.

ESTABLISHED LEGAL LEVEL.--7.50 ft gage datum or 817.50 ft above sea level as decreed on July 3, 1953, by the St. Joseph County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel and concrete dam with a fixed crest. Boards may be added to raise the water level.

INLET AND OUTLET.--Heston Ditch flows through the lake, entering on the northern shore and leaving on the southern. The outflow eventually enters Yellow River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.49 ft Apr. 5, 1950; minimum stage, 6.40 ft July 25-31, Aug. 1-9, 22-31, Sept. 1-30, 1971.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.24	7.32	7.26	7.24	7.25	7.32	7.28	7.31	7.34	7.26	7.37	7.22
10	7.23	7.40	7.25	7.23	7.30	7.26	7.23	8.25	7.71	7.25	7.30	7.23
15	7.19	7.38	7.27	7.24	7.27	7.29	7.29	7.50	7.37	7.35	7.32	7.23
20	7.26	7.35	7.29	7.33	7.26	7.28	7.50	7.46	7.58	8.37	7.29	7.20
25	7.26	7.30	7.26	7.32	7.27	7.29	7.46	7.37	7.36	7.43	7.27	7.23
EOM	7.30	7.27	7.25	7.27	7.43	7.28	7.41	7.46	7.30	7.53	7.23	7.25

WTR YR 1996 MEAN 7.34 MAX 9.58 MIN 7.17

WABASH RIVER BASIN

03330300 RIDINGER LAKE NEAR PIERCETON, IN

LOCATION.--Lat 41°15'07", long 85°39'34", in SW¼SW¼SE¼ sec.1, T.32 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106 (NORTH WEBSTER, IN quadrangle). The gage is on the inlet channel, attached to the Adams Road bridge, 0.4 mi upstream from the lake and 4.4 mi northeast of Pierceton.

SURFACE AREA.--136 acres.

DRAINAGE AREA.--34.6 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--840.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well attached to the right downstream wingwall of the bridge. An auxiliary staff gage in two sections is at the control dam.

ESTABLISHED LEGAL LEVEL.--3.12 ft gage datum or 843.12 ft above sea level, as decreed on April 11, 1949, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with a fixed crest and a sluice-way with a steel gate for controlling high water. The dam is located in the outlet, 300 ft downstream from the lake.

INLET AND OUTLET.--Grassy Creek flows through the lake, entering at the southwestern end. Grassy Creek is formed 1.5 mi upstream by the outlet of Robinson Lake and Cedar Lake Branch. Grassy Creek leaves the lake at the northwestern end and flows into Big Barbee Lake, 3.5 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.01 ft Feb. 24, 1985; minimum stage, 1.35 ft Jan. 17-19, 1944.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.57	2.68	2.60	2.63	2.80	2.71	2.75	2.86	2.94	2.59	2.70	2.53
10	2.54	2.65	2.57	2.63	2.80	2.67	2.65	3.52	3.59	2.58	2.61	2.56
15	2.55	2.73	2.59	2.63	2.71	2.64	2.66	3.00	3.16	2.67	2.59	2.55
20	2.64	2.68	2.64	3.45	2.63	2.72	3.66	3.62	3.14	4.34	2.93	2.57
25	2.59	2.63	2.64	3.01	2.63	2.88	3.13	2.98	2.85	3.08	2.78	2.64
EOM	2.70	2.61	2.64	2.80	2.80	2.73	2.88	3.03	2.68	2.89	2.61	2.63

WTR YR 1996 MEAN 2.83 MAX 6.48 MIN 2.50

03330460 SAWMILL LAKE NEAR NORTH WEBSTER, IN

LOCATION.--Lat 41°17'22", long 85°42'52", in NE¼SW¼NE¼ sec.28, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106 (NORTH WEBSTER, IN quadrangle). The gage is near the southeastern corner of the county road bridge over the channel between Big Barbee Lake and Little Barbee Lake, 2.6 mi southwest of North Webster.

SURFACE AREA.--36 acres.

DRAINAGE AREA.--51.8 mi².

PERIOD OF RECORD.--1945-1970, 1972 to current year.

DATUM OF GAGE.--830.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the stilling well.

ESTABLISHED LEGAL LEVEL.--7.50 ft gage datum or 837.50 ft above sea level as decreed on October 18, 1949, by the Kosciusko County Circuit Court. All lakes in the Barbee Chain have the same established level and hence the same lake levels for the period of record. The lakes are as follows: Kuhn, Big Barbee, Little Barbee, Irish, Banning, Sechrist and Sawmill.

LAKE-LEVEL CONTROL.--The level of the lakes is controlled by a concrete dam with a fixed crest, located 600 ft upstream of the County Road 500 North bridge over the outlet of Sawmill Lake.

INLET AND OUTLET.--There are four inlets to the Barbee Chain. Grassy Creek flows into Big Barbee Lake at the southeastern side. The outlet of Heron Lake flows into Kuhn Lake from the north. Puntney ditch enters Little Barbee Lake from the south. The outlet from Shoe Lake flows into Banning Lake on the northeastern shore. The outlet, Grassy Creek, leaves Sawmill Lake at the northwestern tip and flows into Tippecanoe Lake 1.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.53 ft Mar. 20, 1982; minimum stage, 5.45 ft Jan. 29-31, Feb. 1-28, Mar. 1, 2, 1978.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.17	7.49	7.25	7.22	7.37	7.35	7.32	7.64	8.13	7.39	7.77	7.30
10	7.17	7.38	7.24	7.22	7.38	7.30	7.30	7.97	8.53	7.32	7.50	7.26
15	7.16	7.46	7.28	7.24	7.35	7.22	7.30	7.95	8.68	7.35	7.38	7.19
20	7.17	7.37	7.30	7.64	7.28	7.19	7.76	9.53	8.67	9.24	7.52	7.13
25	7.16	7.33	7.26	7.64	7.24	7.24	8.14	8.68	8.23	8.92	7.69	7.26
EOM	7.24	7.28	7.23	7.48	7.37	7.35	7.81	8.47	7.74	8.20	7.43	7.27

WTR YR 1996 MEAN 7.59 MAX 9.58 MIN 7.13

WABASH RIVER BASIN

03331120 SHERBURN LAKE NEAR PIERCETON, IN

LOCATION.--Lat 41°09'40", long 85°44'43", in SE¼SE¼SE¼ sec.4, T.31 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106 (PIERCETON, IN quadrangle). The gage is at the extreme northern end of the lake on the outlet channel just south of County Road 500 South, 3.4 mi southwest of Pierceton.

SURFACE AREA.--15 acres.

DRAINAGE AREA.--5.51 mi².

PERIOD OF RECORD.--1954 to current year. (Formerly published as Johnson Lake near Pierceton.)

DATUM OF GAGE.--870.00 ft above sea level. Prior to Oct. 1, 1980, the datum of the gage was 880.00 ft. All levels listed below are at the present datum.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the lake bed just south of the western lobe of the lake, 400 ft south of County Road 500 South on the first drive west of the outlet.

REMARKS.--No data was collected until Sept. 10, 1996 due to construction.

ESTABLISHED LEGAL LEVEL.--11.00 ft gage datum or 881.00 ft above sea level as decreed on December 19, 1974, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the invert of the culvert under the first east-west road north of the lake.

INLET AND OUTLET.--The one inlet flows from Sellers Lake 0.35 mi upstream. The outlet flows from the northern shore through Wyland ditch and into Winona Lake 6.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 15.34 ft Dec. 30, 1990; minimum stage, 9.08 ft Sept. 18, 1996.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	9.13
20	---	---	---	---	---	---	---	---	---	---	---	9.10
25	---	---	---	---	---	---	---	---	---	---	---	9.31
EOM	---	---	---	---	---	---	---	---	---	---	---	9.32

WTR YR 1996 MEAN 9.22 MAX 9.34 MIN 9.10

04099740 SHIPSHEWANA LAKE NEAR SHIPSHEWANA, IN

LOCATION.--Lat 41°40'53", long 85°36'03", in SE¼NE¼NE¼ sec.9, T.37 N., R.8 E., Lagrange County, Hydrologic Unit 04050001 (SHIPSHEWANA, IN quadrangle). The gage is on the south shore of the lake at the public access site, 1.1 mi northwest of Shipshewana.

SURFACE AREA.--202 acres.

DRAINAGE AREA.--6.74 mi².

PERIOD OF RECORD.--1951 to current year.

DATUM OF GAGE.--850.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to a wingwall of the control dam at the extreme eastern end of the lake.

ESTABLISHED LEGAL LEVEL.--2.04 ft gage datum or 852.04 ft above sea level as decreed on March 8, 1956, by the Lagrange County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a sheet piling dam with a fixed crest at three elevations.

INLET AND OUTLET.--The principal inlet enters on the southern shore from Cotton Lake 2.0 mi upstream. Another small ditch enters on the western shore. The outlet is on the extreme eastern tip of the lake and flows to the northeast through Page Ditch, which empties into Pigeon River, 6.1 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 3.33 ft Mar. 20, 1982; minimum stage, 1.39 ft Sept. 19-22, 1955.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.12	---	---	---	---	2.30	---	---	2.46	2.33	2.30	2.14
10	2.11	---	2.29	---	---	2.30	---	---	2.73	2.25	2.25	2.14
15	2.09	---	2.31	---	---	2.30	---	---	2.65	2.27	2.23	2.15
20	2.15	---	2.31	---	---	2.30	---	2.88	2.77	2.32	2.27	2.14
25	2.13	---	2.31	---	2.30	---	---	2.63	2.59	2.28	2.23	2.21
EOM	2.25	---	---	---	2.30	---	---	2.51	2.44	2.37	2.17	2.25

WTR YR 1996 MEAN 2.33 MAX 2.97 MIN 2.05

WABASH RIVER BASIN

03330380 SHOE LAKE NEAR OSWEGO, IN

LOCATION.--Lat 41°18'32", long 85°45'10", in SE¼SW¼SE¼ sec.18, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106 (LEESBURG, IN quadrangle). The gage is on the extreme western end of the lake on County Road 475 East, 2.0 mi southeast of Oswego.

SURFACE AREA.--40 acres.

DRAINAGE AREA.--0.34 mi².

PERIOD OF RECORD.--1946-52, 1972-74, 1977 to current year.

DATUM OF GAGE.--830.00 ft above sea level. Prior to 1972, the datum of the gage was 840.00 ft above sea level. All levels listed below are at the present datum.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--11.57 ft gage datum or 841.57 ft above sea level as decreed on October 18, 1948, by the Kosciusko County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by removable boards placed in wooden support posts in the outlet channel, upstream of the culvert under County Road 450 North.

INLET AND OUTLET.--There is no inlet except for small drainage ditches. The outlet leaves the lake at the southeastern end and flows into Banning Lake 0.3 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 12.95 ft Dec. 13-15, 1972; minimum stage, 10.50 ft Oct. 15, 16, 1988.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.07	11.20	11.19	11.13	11.24	11.05	11.06	11.42	12.14	12.04	12.14	12.03
10	11.03	11.15	11.18	11.10	11.11	11.00	11.02	11.69	12.31	11.99	12.09	12.01
15	10.95	11.27	11.18	11.11	11.03	10.99	11.02	11.72	12.22	12.03	12.05	11.95
20	10.87	11.26	11.17	11.21	10.99	11.08	11.24	12.07	12.23	12.31	12.25	11.90
25	10.87	11.23	11.15	11.25	10.95	11.02	11.36	12.08	12.18	12.20	12.16	11.99
EOM	10.93	11.21	11.13	11.24	11.10	11.11	11.34	12.14	12.12	12.20	12.09	11.99

WTR YR 1996 MEAN 11.51 MAX 12.47 MIN 10.86

03327650 SHRINER LAKE AT TRI-LAKES, IN

LOCATION.--Lat 41°14'37", long 85°26'24", in SE¼SW¼NW¼ sec.12, T.32 N., R.9 E., Whitley County, Hydrologic Unit 05120104 (COLUMBIA CITY, IN quadrangle). The gage is at the head of outlet channel at the east end of the lake, 6.2 mi northeast of Columbia City.

SURFACE AREA.--111 acres.

DRAINAGE AREA.--0.94 mi².

PERIOD OF RECORD.--1943-74, 1976-78, 1980 to current year.

DATUM OF GAGE.--900.19 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is attached to the concrete head wall at the outlet.

ESTABLISHED LEGAL LEVEL.--7.04 ft gage datum or 907.04 ft above sea level as decreed on May 22, 1949, by the Whitley County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 7.04 ft gage datum or 907.23 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam in the outlet channel 300 ft downstream of the lake.

INLET AND OUTLET.--A ditch from Catfish Lake, 650 ft upstream, enters at the extreme western end of the lake. Two small ditches enter on the southern shore. The outlet is a dredged channel at the eastern edge of the lake that empties into Round Lake 930 ft downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 8.26 ft Dec. 31, 1990; minimum stage, 5.44 ft Dec. 9-11, 23-30, 1944.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.35	6.41	6.47	---	6.51	6.52	6.93	7.01	7.04	6.66	6.82	6.72
10	6.30	6.39	6.45	---	6.51	6.52	6.91	7.26	7.32	6.57	6.72	6.69
15	6.26	6.50	6.46	---	6.51	6.52	6.92	7.18	7.16	6.53	6.70	6.59
20	6.26	6.50	6.49	---	6.51	6.73	7.35	7.27	7.07	7.19	6.93	6.53
25	6.20	6.47	---	6.51	6.51	6.96	7.39	7.08	6.90	7.06	6.94	6.55
EOM	6.32	6.47	---	6.51	6.52	6.94	7.12	7.13	6.78	6.94	6.80	6.59

WTR YR 1996 MEAN 6.73 MAX 7.54 MIN 6.20

WABASH RIVER BASIN

03328350 SILVER LAKE AT SILVER LAKE, IN

LOCATION.--Lat 41°04'49", long 85°54'29", in SE¼SE¼NE¼ sec.1, T.30 N., R.5 E., Kosciusko County, Hydrologic Unit 05120104 (SILVER LAKE, IN quadrangle). The gage is located at the outlet channel on the east side of the lake, on the upstream side of the control structure and 1.1 mi northwest of the town of Silver Lake.

SURFACE AREA.--102 acres.

DRAINAGE AREA.--6.31 mi².

PERIOD OF RECORD.--1947 to current year.

DATUM OF GAGE.--859.85 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1974.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage in one section is attached to the dam.

ESTABLISHED LEGAL LEVEL.--1.73 ft gage datum or 861.73 ft above sea level as decreed on September 20, 1948, by the Kosciusko County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 1.73 ft gage datum or 861.58 ft above sea level. North Little Lake at Silver Lake has the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam with a fixed crest.

INLET AND OUTLET.--The outlet from North Little Lake enters from the north and two ditches enter from the east and southeast. The outlet leaves from the western side and flows into South Little Lake, then into Silver Creek, which joins Eel River 12 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 3.80 ft Dec. 10, 1966; minimum stage, -0.20 ft Sept. 21, 1959.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.03	1.41	1.44	1.44	1.55	1.52	1.48	1.57	1.58	1.42	1.58	1.45
10	1.00	1.45	1.44	1.44	1.52	1.51	1.45	1.82	1.69	1.39	1.52	1.45
15	.95	1.51	1.44	1.44	1.45	1.45	1.49	1.63	1.64	1.40	1.47	1.40
20	.99	1.48	1.45	1.49	1.45	1.51	1.51	1.56	1.59	2.42	1.75	1.39
25	.95	1.45	1.45	1.57	1.45	1.52	1.60	1.56	1.51	1.81	1.64	1.48
EOM	1.20	1.45	1.45	1.55	1.48	1.52	1.54	1.68	1.45	1.73	1.49	1.47

WTR YR 1996 MEAN 1.49 MAX 3.00 MIN .91

04099880 SIMONTON LAKE NEAR ELKHART, IN

LOCATION.--Lat 41°45'05", long 85°57'28", in NE¼NE¼NW¼ sec.16, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001 (ELKHART, IN quadrangle). The gage is on the southern shore between the two large lobes of the lake, at the public access site, 4.5 mi north of the main Post Office in Elkhart.

SURFACE AREA.--303 acres.

DRAINAGE AREA.--7.44 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--770.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--2.19 ft gage datum or 772.19 ft above sea level as decreed on September 25, 1950, by the Elkhart County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel.

INLET AND OUTLET.--Two small drainage ditches enter the lake on the eastern shore. The outlet, Osolo Township Ditch, flows from the lake at the southeastern tip and into the St. Joseph River, 4.0 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 3.42 ft Feb. 24, 1985; minimum stage, 1.36 ft Sept. 7, 1946.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.62	2.71	2.80	2.80	2.80	2.88	2.70	2.87	2.96	2.71	2.74	2.39
10	2.60	2.85	2.83	2.80	2.80	2.87	2.66	3.11	3.09	2.63	2.66	2.38
15	2.55	2.88	2.82	2.80	2.80	2.86	2.75	3.01	2.97	2.63	2.61	2.35
20	2.59	2.87	2.81	2.81	2.81	2.80	2.81	3.04	3.00	2.67	2.62	2.32
25	2.56	2.84	2.81	2.81	2.80	2.77	2.90	2.97	2.91	2.63	2.55	2.40
EOM	2.64	2.84	2.80	2.80	2.86	2.73	2.90	2.97	2.82	2.81	2.46	2.49

WTR YR 1996 MEAN 2.76 MAX 3.11 MIN 2.32

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100300 SKINNER LAKE NEAR ALBION, IN

LOCATION.--Lat 41°24"12", long 85°22'37", in SE¼SE¼NW¼ sec.16, T.34 N., R.10 E., Noble County, Hydrologic Unit 04050001 (ALBION, IN quadrangle). The gage is on the upstream side of the bridge over the outlet channel on the northwest lobe of the lake, and 2.5 mi northeast of Albion.

SURFACE AREA.--125 acres.

DRAINAGE AREA.--14.0 mi².

PERIOD OF RECORD.--1945-72, 1976 to current year.

DATUM OF GAGE.--920.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is driven into the channel bed at the same site.

ESTABLISHED LEGAL LEVEL.--7.74 ft gage datum or 927.74 ft above sea level, as decreed on August 31, 1955, by the Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a steel sheet piling dam with a fixed crest.

INLET AND OUTLET.--Rimmell Branch enters the lake on the southern shore, a small ditch enters on the southeast tip, and the outlet channel of Sweet Lake flows into the lake from the northeast. The outlet, Croft Ditch, flows from the lake on the south shore of the northwest lobe, and into the South Branch of the Elkhart River 5.6 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 12.60 ft Apr. 5, 1950; minimum stage, 6.14 ft Oct. 16, 17, 1946.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.75	7.93	7.77	7.78	7.86	7.86	7.85	7.95	7.95	7.81	7.76	7.75
10	7.73	7.81	7.76	7.78	7.91	7.80	7.82	8.55	9.60	7.76	7.74	7.76
15	7.69	7.88	7.80	7.78	7.81	7.82	7.85	8.09	8.04	7.81	7.74	7.73
20	7.73	7.83	7.78	8.28	7.79	7.86	8.57	8.69	8.58	7.85	7.95	7.73
25	7.71	7.80	7.78	7.97	7.80	8.09	8.13	8.01	7.98	7.80	7.82	7.75
EOM	7.78	7.79	7.78	7.86	7.92	7.89	7.97	8.00	7.85	7.80	7.75	7.76

WTR YR 1996 MEAN 7.91 MAX 10.86 MIN 7.66

03330140 SMALLEY LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat 41°18'52", long 85°35'04", in SW¼NW¼SE¼ sec.15, T.33 N., R.8 E., Noble County, Hydrologic Unit 05120106 (ORMAS, IN quadrangle). The gage is located on the north side of the outlet channel, 300 ft upstream from the first bridge over the outlet, and 0.9 mi southeast of Washington Center.

SURFACE AREA.--69 acres.

DRAINAGE AREA.--27.1 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--880.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 24-inch diameter stilling well. An auxiliary staff gage is driven into the channel bed.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a riffle in the outlet channel 500 ft below the lake.

INLET AND OUTLET.--The Tippecanoe River flows through the lake, entering at the south end from Big Lake, 4.2 mi upstream, and flowing from the lake at the northwestern end into Baugher Lake, 1.2 mi downstream. Another inlet enters on the north shore from Gilbert Lake 0.9 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 7.00 ft Mar. 24, 1978; minimum stage, 1.10 ft Aug. 7, 1963.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	1.68	1.47	1.67	1.70	1.84	1.82	2.18	2.38	1.56	---	---
10	---	1.55	1.47	1.65	1.80	1.74	1.67	2.96	3.25	1.45	---	---
15	1.54	1.72	1.54	1.69	1.71	1.67	1.72	2.96	3.63	1.62	---	---
20	1.61	1.73	1.63	2.50	1.56	1.74	2.66	3.44	3.46	---	---	---
25	1.60	1.65	1.58	2.54	1.56	1.93	3.44	2.60	2.72	---	---	---
EOM	1.67	1.52	1.54	2.07	1.99	1.90	2.71	2.76	1.94	---	---	---

WTR YR 1996 MEAN 2.05 MAX 5.05 MIN 1.45

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099780 STONE LAKE NEAR SCOTT, IN

LOCATION.--Lat 41°44'32", long 85°39'03", in SE¼SE¼SW¼ sec.18, T.38 N., R.8 E., Lagrange County, Hydrologic Unit 04050001 (MIDDLEBURY, IN quadrangle). The gage is on the southeast shore of the lake approximately 200 ft west of the intersection of County Road 1150 West and the lake access road, and 5.4 mi northeast of Middlebury.

SURFACE AREA.--152 acres.

DRAINAGE AREA.--1.51 mi².

PERIOD OF RECORD.--1954-71, 1975-76, 1978 to current year.

DATUM OF GAGE.--810.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--8.76 ft gage datum or 818.76 ft above sea level as decreed on July 28, 1966, by the Lagrange County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete sill.

INLET AND OUTLET.--The inlet enters on the eastern end of the south shore from Brokesha Lake 0.2 mi upstream. The outlet flows from the lake at the northern shore.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.60 ft Apr. 16-30, 1969; minimum stage, 5.34 ft Nov. 26, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.93	8.08	8.24	8.14	8.17	8.26	8.06	8.15	8.54	8.65	8.67	8.36
10	7.94	8.18	8.25	8.00	8.19	8.24	8.02	8.52	8.81	8.60	8.59	8.10
15	7.95	8.27	8.27	8.11	8.17	8.23	8.11	8.46	8.76	8.59	8.53	8.12
20	8.07	8.26	8.25	8.20	8.15	8.20	8.14	8.56	8.91	8.56	8.40	8.09
25	8.02	8.25	8.17	8.20	8.13	8.17	8.15	8.53	8.85	8.63	8.37	8.17
EOM	8.09	8.29	8.23	8.16	8.20	8.11	8.19	8.53	8.74	8.75	8.31	8.30

WTR YR 1996 MEAN 8.29 MAX 8.93 MIN 7.86

04100180 SYLVAN LAKE AT ROME CITY, IN

LOCATION.--Lat 41°29'53", long 85°22'38", in SE¼SE¼SW¼ sec.9, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001 (ALBION, IN quadrangle). The gage is on the lake outlet on the extreme western end of the lake, and at the northern edge of Rome City.

SURFACE AREA.--669 acres.

DRAINAGE AREA.--33.8 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--907.00 ft above sea level. Prior to Oct. 1, 1978, the datum of the gage was 910.00 ft. All levels listed below are at the present datum.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the north downstream wall of the footbridge.

REMARKS.--No data was collected until July 24, 1996 due to construction.

ESTABLISHED LEGAL LEVEL.--9.20 ft present gage datum or 916.20 ft above sea level as decreed on June 14, 1951, by the Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with movable gates.

INLET AND OUTLET.--Barr Lake, 0.2 mi upstream, empties into Sylvan Lake on the southeast shore of the northwest lobe. Oviatt Ditch and Henderson Lake Ditch both enter the lake on the extreme eastern end. The outlet flows from the lake at the western tip, into Jones Lake 2.8 mi downstream and eventually into the North Branch of the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.14 ft Aug. 22 and 23, 1996; minimum stage, below -.30 ft Oct. 3-9, and 16-18, 1994.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	10.76	10.71
10	---	---	---	---	---	---	---	---	---	---	10.67	10.69
15	---	---	---	---	---	---	---	---	---	---	10.72	10.65
20	---	---	---	---	---	---	---	---	---	---	10.91	10.62
25	---	---	---	---	---	---	---	---	---	10.79	11.02	10.69
EOM	---	---	---	---	---	---	---	---	---	10.84	10.81	10.71

WTR YR 1996 MEAN 10.76 MAX 11.13 MIN 10.62

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100460 SYRACUSE LAKE AT SYRACUSE, IN

LOCATION.--Lat 41°25'26", long 85°44'59", in SW¼SW¼ sec.5, T.34 N., R.7 E., Kosciusko County, Hydrologic Unit 04050001 (LAKE WAWASEE, IN quadrangle). The gage is at the southwestern end of the lake, on the south abutment of the dam, and just west of the State Road 13 bridge in the town of Syracuse.

SURFACE AREA.--414 acres.

DRAINAGE AREA.--38.2 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--849.85 ft above sea level as corrected on the basis of levels of Indiana Department of Natural Resources, 1973-74.

GAGE.--A water-stage recorder is installed in a concrete shelter over a stilling well in the south abutment of the control structure. Two auxiliary staff gages are at the site. One is attached to the upstream side of the south abutment and the other is bolted to the seawall just west of the bridge over the outlet.

ESTABLISHED LEGAL LEVEL.--8.87 ft gage datum or 858.87 ft above sea level as decreed on September 20, 1948, by the Kosciusko County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 8.87 ft gage datum or 858.72 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with two steel lift gates.

INLET AND OUTLET.--The one inlet is the outlet channel from Lake Wawasee on the southern shore of the lake. The outlet, Turkey Creek, flows from the lake at the southwest end and eventually into the Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.15 ft Jan. 27, 28, 1950; minimum stage, 7.00 ft Nov. 19-21, 1953.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.40	8.60	8.82	8.80	8.94	8.78	8.52	8.87	8.88	8.92	9.05	8.70
10	8.38	8.68	8.79	8.80	8.88	8.75	8.45	9.03	9.12	8.84	8.92	8.64
15	8.32	8.84	8.79	8.80	8.82	8.68	8.54	9.08	9.10	8.84	8.79	8.53
20	8.34	8.89	8.78	8.94	8.74	8.67	8.81	9.10	9.13	9.08	8.84	8.52
25	8.29	8.87	8.78	8.96	8.69	8.62	8.98	9.01	8.98	9.11	8.88	8.63
EOM	8.43	8.86	8.78	8.94	8.79	8.58	8.90	8.96	8.75	9.11	8.79	8.65

WTR YR 1996 MEAN 8.79 MAX 9.19 MIN 8.29

03330480 TIPPECANOE LAKE AT OSWEGO, IN

LOCATION.--Lat 41°19'15", long 85°47'20", in NW¼NE¼NE¼ sec.14, T.33 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106 (LEESBURG, IN quadrangle). The gage is on the south side of the dam at the extreme southwest end of the lake, in the outlet channel, at Oswego.

SURFACE AREA.--768 acres.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--830.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the upstream side of the south abutment of the dam.

ESTABLISHED LEGAL LEVEL.--6.40 ft gage datum or 836.40 ft above sea level as decreed on October 18, 1949, by the Kosciusko County Circuit Court. James Lake at Oswego and Oswego Lake at Oswego have the same established level and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam with multiple slide gates on the outlet channel of the lake.

INLET AND OUTLET.--The lake has two principal inlets. The Tippecanoe River flows from Webster Lake, enters James Lake, and flows into Tippecanoe Lake on the eastern side. The outlet from the Barbee Chain of Lakes enters from the southeast. The outlet, the Tippecanoe River, leaves the lake on the southwestern side.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 9.43 ft May 21, 1943; minimum stage, 4.90 ft Feb. 13-17, 1963.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	5.42	5.39	6.17	---	6.18	6.55	7.05	6.59	6.60	6.49
10	---	---	5.38	5.39	5.56	---	6.43	6.90	7.49	6.62	6.62	6.70
15	---	---	5.42	5.31	5.52	5.59	6.56	7.08	7.60	6.75	6.62	6.36
20	---	---	5.43	5.54	5.53	5.52	6.66	8.06	7.64	7.60	6.88	6.50
25	---	---	5.43	6.21	5.48	5.40	7.20	7.68	7.30	7.69	6.54	6.60
EOM	---	5.49	5.38	6.17	5.52	5.84	7.18	7.38	6.70	7.11	6.63	6.49

WTR YR 1996 MEAN 6.39 MAX 8.10 MIN 5.31

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100320 UPPER LONG LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°21'33", long 85°29'09", in NE¼NE¼SE¼ sec.33, T.34 N., R.9 E., Noble County, Hydrologic Unit 04050001 (MERRIAM, IN quadrangle). The gage is on the northeast shore of the lake, at the northernmost boat slip, and 1.8 mi north-northeast of the town of Wolflake.

SURFACE AREA.--86 acres.

DRAINAGE AREA.--2.08 mi².

PERIOD OF RECORD.--1956 to current year.

DATUM OF GAGE.--880.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is also located in the boat slip.

ESTABLISHED LEGAL LEVEL.--11.19 ft gage datum or 891.19 ft above sea level as decreed on February 20, 1968, by Noble County Circuit Court.

LAKE-LEVEL CONTROL.--The lake level is controlled by a fixed-sill concrete dam.

INLET AND OUTLET.--There is one inlet that enters the lake from the eastern side. The outlet flows to the north through Dollar Lake, and eventually into the South Branch Elkhart River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.40 ft June 27, 1968; minimum stage, 9.95 ft May 11, 1970.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.19	11.47	11.34	11.37	11.54	11.54	11.52	11.54	11.71	11.56	11.77	11.86
10	11.18	11.41	11.31	11.37	11.54	11.54	11.49	11.79	12.32	11.51	11.72	11.86
15	11.16	11.46	11.35	11.37	11.54	11.54	11.40	11.67	11.98	11.53	11.70	11.82
20	11.19	11.41	11.35	11.54	11.54	11.54	11.98	11.64	11.99	11.76	11.90	11.69
25	11.16	11.36	11.35	11.54	11.54	11.54	11.83	11.57	11.73	11.76	11.95	11.81
EOM	11.30	11.35	11.34	11.54	11.54	11.54	11.61	11.71	11.63	11.79	11.90	11.84

WTR YR 1996 MEAN 11.57 MAX 12.32 MIN 11.10

03276800 VERSAILLES LAKE NEAR VERSAILLES, IN

LOCATION.--Lat 39°04'50", long 85°14'02", in NE¼NE¼SW¼ sec.6, T.7 N., R.12 E., Ripley County, Hydrologic Unit 05090203 (MILAN, IN quadrangle). The gage is on the eastern side of the lake, on the downstream side of the bridge over Falling Timber Creek in Versailles State Park.

SURFACE AREA.--232 acres.

DRAINAGE AREA.--168 mi².

PERIOD OF RECORD.--1958 to current year.

DATUM OF GAGE.--760.74 ft above sea level.

GAGE.--A water-stage recorder installed in an aluminum shelter over a 12-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete spillway dam with a movable gate.

INLET AND OUTLET.--The inlets are Laughery Creek, Falling Timber Creek, and Cedar Creek. The outlet is Laughery Creek, which flows southeasterly and empties into the Ohio River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 36.43 ft Jan. 21, 1959, as determined by the U.S. Geological Survey from high-water marks during an indirect measurement of discharge; minimum stage, 18.05 ft Apr. 12, 1970.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.25	29.25	29.21	29.55	---	---	29.59	30.05	29.35	29.23	29.21	29.17
10	29.22	29.24	29.19	29.48	---	---	29.37	30.29	30.11	29.25	29.35	29.15
15	29.16	29.31	29.35	29.50	---	---	29.39	33.15	29.59	29.28	29.18	---
20	29.19	29.26	29.84	34.82	---	---	30.69	29.41	29.86	29.34	29.16	---
25	29.18	29.22	29.35	29.76	---	---	29.72	29.45	29.56	29.30	29.29	---
EOM	29.19	29.21	29.29	---	---	29.87	30.61	29.55	29.27	29.25	29.23	---

WTR YR 1996 MEAN 29.67 MAX 35.43 MIN 29.10

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100220 WALDRON LAKE NEAR COSPERVILLE, IN

LOCATION.--Lat 41°29'34", long 85°26'55", in SE¼NW¼NE¼ sec.14, T.35 N., R.9 E., Noble County, Hydrologic Unit 04050001 (ALBION, IN quadrangle). The gage is on a dredged channel at the public access site west of County Road 125 West at Dukes Bridge, and 6.8 mi northwest of Albion.

SURFACE AREA.--216 acres.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--1948 to current year.

DATUM OF GAGE.--880.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary wire-weight gage is attached to the upstream side of Dukes Bridge.

ESTABLISHED LEGAL LEVEL.--5.55 ft gage datum or 885.55 ft above sea level as decreed on May 6, 1968, by the Noble County Circuit Court. Jones, Steinbarger and Tamarack Lakes, all near Cosperville, have the same established level as Waldron Lake and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a fixed-crest concrete dam with removable boards.

INLET AND OUTLET.--The North Branch of the Elkhart River flows through the lake, entering through Jones Lake at the north and leaving at the west end of Waldron Lake. Another inlet enters at the southeast from Steinbarger Lake, 0.1 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 10.16 ft Mar. 22, 1982; minimum stage, 4.44 ft Aug. 9-11, Sept. 14-17, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.75	6.11	5.44	5.11	5.80	5.89	5.65	6.86	6.96	7.18	5.88	5.84
10	5.73	5.84	5.28	5.06	5.54	5.72	5.53	6.86	7.57	6.64	5.78	5.82
15	5.72	6.12	5.26	5.11	5.45	5.61	5.47	6.95	7.85	6.19	5.80	5.77
20	5.32	5.95	5.20	5.91	5.31	5.62	6.14	8.17	8.73	6.15	5.98	5.74
25	5.03	5.76	5.14	5.99	5.34	5.75	7.43	7.88	8.55	5.87	6.11	5.80
EOM	5.20	5.59	5.09	5.81	5.98	5.75	7.28	7.38	7.90	5.96	5.94	5.81

WTR YR 1996 MEAN 6.08 MAX 8.76 MIN 5.01

05517600 WAUHOB LAKE NEAR VALPARAISO, IN

LOCATION.--Lat 41°32'02", long 87°02'42", in NW¼NW¼NW¼ sec.31, T.36 N., R.5 W., Porter County, Hydrologic Unit 07120001 (CHESTERTON, IN quadrangle). The gage is on the northwest shore of the lake, 4.7 mi north of Valparaiso.

SURFACE AREA.--21 acres.

DRAINAGE AREA.--0.40 mi².

PERIOD OF RECORD.--1946 to current year.

DATUM OF GAGE.--790.00 ft above sea level.

GAGE.--A staff gage in one section is driven into the lake bed, 75 ft from Arthur J. Knoblich's cottage. An auxiliary staff gage is 20 ft lakeward of the main gage.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by the outlet channel.

INLET AND OUTLET.--The lake has one inlet entering on the northeast side from Mink Lake 0.3 mi upstream. The outlet flows from the southeast shore, southwesterly through a swamp to Canada Lake 0.3 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.05 ft Apr. 23, 1973; minimum stage, 6.58 ft Sept. 17, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.06	9.19	9.38	9.34	9.44	9.72	9.68	10.02	10.38	10.27	10.32	9.80
10	9.02	9.17	9.39	9.34	9.46	9.75	9.63	10.42	10.47	10.08	10.34	9.75
15	8.97	9.41	9.38	9.36	9.47	9.79	9.66	10.46	10.44	9.95	10.16	9.79
20	8.95	9.42	9.36	9.50	9.48	9.76	9.84	10.36	10.99	10.68	10.09	9.75
25	8.94	9.39	9.36	9.49	9.48	9.78	10.03	10.25	10.78	10.53	9.98	9.72
EOM	9.06	9.40	9.35	9.50	9.69	9.70	10.06	10.41	10.52	10.56	9.87	9.79

WTR YR 1996 MEAN 9.77 MAX 10.99 MIN 8.90

WABASH RIVER BASIN

03330240 WEBSTER LAKE AT NORTH WEBSTER, IN

LOCATION.--Lat 41°19'09", long 85°41'20", in NE¼SW¼NW¼ sec.14, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106 (NORTH WEBSTER, IN quadrangle). The gage is on the southwest side of the lake at the outlet, 0.3 mi northeast of the intersection of State Road 13 and County Road 550 North and approximately 0.6 mi southeast of the center of North Webster.

SURFACE AREA.--774 acres.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--1943 to current year.

DATUM OF GAGE.--839.93 ft above sea level, as corrected on the basis of levels of Indiana Department of Natural Resources, 1973-74.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxillary staff gage in one section is bolted to the southeast face of the concrete wall of the approach channel to the control dam.

ESTABLISHED LEGAL LEVEL.--12.75 ft gage datum or 852.75 ft above sea level as decreed July 2, 1945, by the Kosciusko County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 12.75 ft gage datum or 852.68 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete notch dam with seven adjustable gates at the head of the outlet channel. North of this dam is another which used to serve as a mill race. This dam has one metal gage.

INLET AND OUTLET.--The Tippecanoe River flows through Webster Lake, entering at the southeast end and leaving at the southwest side. The Tippecanoe River enters James Lake, 2.1 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 15.15 ft Feb. 11, 1984; minimum stage, 9.79 ft (during repair of the dam) Oct. 5, 1962.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.07	13.00	13.05	13.04	13.31	13.00	12.96	13.10	13.29	13.29	13.29	13.20
10	13.08	13.00	13.05	13.04	13.29	13.00	12.78	13.26	13.30	13.25	13.23	13.10
15	13.06	13.05	13.04	13.04	13.21	12.70	12.79	13.10	13.37	13.48	13.23	13.14
20	13.12	13.02	13.04	13.30	13.11	12.78	13.20	13.19	13.29	13.23	13.28	13.15
25	13.09	12.98	13.04	13.31	12.88	12.92	13.29	13.09	13.30	13.31	13.38	13.10
EOM	13.18	13.05	13.04	13.31	13.02	13.05	12.77	13.23	13.24	13.21	13.30	13.21

WTR YR 1996 MEAN 13.13 MAX 13.49 MIN 12.64

05514770 WHARTON LAKE NEAR SOUTH BEND, IN

LOCATION.--Lat 41°36'11", long 86°18'36", in NW¼SW¼NW¼ sec.4, T.36 N., R.2 E., St. Joseph County, Hydrologic Unit 07120001 (LAKEVILLE, IN quadrangle). The gage is on the east side of the lake, in a channel west of a storage shed at the Calvert Rod and Gun Club property, and 5.7 mi northwest of Lakeville.

SURFACE AREA.--18 acres (measured on U.S. Geological Survey topographic map, scale 1:24000).

DRAINAGE AREA.--1.85 mi^2.

PERIOD OF RECORD.--1960-76, 1982 to current year.

DATUM OF GAGE.--770.00 ft above sea level.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--Not established.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a 48-inch round concrete tile in the outlet channel.

INLET AND OUTLET.--The one inlet enters the lake on the southeastern shore and drains the immediately surrounding area. The outlet flows from the lake on the western shore, and eventually into the Kankakee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 8.51 ft Jan. 8, 9, 10, 1989; minimum stage, 4.90 ft Oct. 2, 1991.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.71	6.44	6.52	6.58	6.77	6.73	6.60	6.70	6.77	6.21	6.41	5.78
10	5.66	6.97	6.44	6.58	6.82	6.72	6.52	7.69	7.11	6.05	6.22	5.70
15	5.59	6.69	6.59	6.25	6.70	6.70	6.68	6.90	6.89	6.00	6.26	5.78
20	5.76	6.61	6.52	6.74	6.73	6.66	6.68	6.87	6.89	6.75	6.14	5.66
25	5.76	6.53	6.55	6.74	6.74	6.66	6.83	6.77	6.67	6.61	6.08	5.74
EOM	6.11	6.53	6.54	6.77	6.77	6.64	6.76	6.82	6.40	6.66	5.92	5.92

WTR YR 1996 MEAN 6.47 MAX 7.69 MIN 5.54

WABASH RIVER BASIN

03331140 WINONA LAKE AT WARSAW, IN

LOCATION.--Lat 41°13'34", long 85°50'46", in NW¼NE¼SE¼ sec.17, T.32 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106 (WARSAW, IN quadrangle). The gage is on the western side of the lake, 20 ft east of the dam on the northern side of the outlet channel, 1.0 mi south of Warsaw.

SURFACE AREA.--562 acres.

DRAINAGE AREA.--32.1 mi^2.

PERIOD OF RECORD.--1943-78, 1980 to current year.

DATUM OF GAGE.--800.10 ft above sea level. Prior to Nov. 17, 1977, the datum of the gage was 810.10 ft above sea level as corrected on the basis of levels of Indiana Department of Natural Resources, 1973-74. All levels listed below are at the present datum.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary staff gage is attached to the stilling well.

ESTABLISHED LEGAL LEVEL.--11.06 ft gage datum or 811.06 ft above sea level as decreed on June 17, 1949, by the Kosciusko County Circuit Court. Minor errors were subsequently discovered in the establishment of the datum of the gage (see "DATUM OF GAGE") and the correct elevation of the legal level should be 11.06 ft gage datum or 811.16 ft above sea level.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete fixed-crest dam with steel lift gates.

INLET AND OUTLET.--There are three inlets to the lake. Wyland Ditch enters on the eastern shore from Sherburn Lake 6.7 mi upstream. Keefer-Evans Ditch enters on the southeastern shore and Paterson Ditch on the southwestern shore. The outlet, Eagle Creek, flows from the western lobe of the lake into Walnut Creek 1.4 mi downstream, thence into the Tippecanoe River.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.31 ft June 14, 1981; minimum stage, 9.40 ft Feb. 15, 1982.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.85	10.36	9.76	9.78	9.83	9.88	9.86	10.52	---	---	---	---
10	10.84	9.90	9.75	9.78	9.86	9.84	9.83	11.34	---	---	11.12	---
15	10.80	9.91	9.78	9.75	9.84	9.82	9.84	---	---	---	---	---
20	10.88	9.84	9.79	10.16	9.81	9.87	10.17	---	---	---	---	10.89
25	10.84	9.79	9.78	10.07	9.80	9.91	10.23	---	---	---	---	11.02
EOM	10.96	9.78	9.77	9.90	9.89	9.89	10.02	---	---	---	---	10.99

WTR YR 1996 MEAN 10.16 MAX 11.35 MIN 9.74

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 nonrecording 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 the 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

Station number	Lake	County	Drainage (square miles)	Surface area (acres)	Established level*	Capacity (acre-feet)	Contour map available	Records available
			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	Lukens 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[1]	Noble	35.2	10	--------	------	-	1945-51
03330240	Webster Lake at North Webster	Kosciusko	49.2	774	852.75	7,170	+	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[2]	Kosciusko	4.17	581	827.75	6,080	+	1945-72, 1976-
03331020	Little Chapman Lake near Warsaw	Kosciusko	7.13	77	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	Muskellunge 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[3]	Kosciusko	5.51	15	881.00	230	+	1954-
03331140	Winona Lake at Warsaw	Kosciusko	32.1	562	811.06	16,680	+	1943-

RECORDS AVAILABLE ON LAKES--Continued

Lakes in the Ohio River basin for which records are available--Continued

Station number	Lake	County	Drainage (square miles)	Surface area (acres)	Established level*	Capacity (acre-feet)	Contour map available	Records available
			WABASH RIVER BASIN--Continued					
03331160	Center Lake at Warsaw	Kosciusko	0.73	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	.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 Culver	Marshall	13.7	1,864	733.12	45,600	+	1943-
03331460	Lost Lake near Culver[4]	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[5]	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	24	961.50	3,490	+	1954-69, 1971, 1976-
04097550	Lake George at Jamestown	Steuben	[a]14.7	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	[a]40.2	310	964.96	7,998	+	1943-49
04097660	Lake James at Lake James	Steuben	[a]47.8	1,034	964.96	33,585	+	1943-49
04097680	Jimmerson Lake at Nevada Mills[6]	Steuben	[a]51.6	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	[a]17.3	332	954.25	10,140	+	1946-
04097960	Lime Lake at Panama	Steuben	[a]17.5	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	[a]35.2	61	988.24	930	+	1954-63
04099100	Fox Lake near Angola	Steuben	[a]1.25	142	1,018.83	3,150	+	1946-53
04099190	Pleasant Lake at Pleasant Lake	Steuben	[a]1.12	53	963.52	1,190	+	1946-66
04099200	Long Lake at Moonlight	Steuben	[a]67.9	92	--------	1,540	+	1946-
04099250	Bower Lake near Pleasant Lake	Steuben	[a]84.6	25	948.50	280	+	1946-71, 1976-
04099260	Golden Lake near Pleasant Lake	Steuben	[a]88.8	119	948.50	1,810	+	1946-71, 1976-
04099400	Silver Lake near Angola	Steuben	[a]3.79	238	959.40	2,540	+	1945-53
04099430	Bass Lake near Angola	Steuben	[a].39	61	979.68	450	+	1954-66
04099440	Howard Lake near Angola	Steuben	[a]3.90	27	977.34	130	+	1954-63
04099500	Hogback Lake near Angola	Steuben	[a]103	146	948.50	1,450	+	1946-
04099520	Otter Lake near Flint	Steuben	[a]6.91	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	956.2	------	-	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	[a]10.6	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	[a]6.74	202	852.04	1,350	+	1951-

RECORDS AVAILABLE ON LAKES--Continued

Lakes in the St. Lawrence River basin for which records are available

Station Number	Lake	County	Drainage (square miles)	Surface area (acres)	Established level*	Capacity (acre-feet)	Contour map available	Records available
		STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued						
04099760	Fish Lake near Scott	Lagrange	[8]6.21	139	814.42	2,560	+	1954-73, 1976-
04099780	Stone Lake near Scott	Lagrange	1.51	152	818.76	2,060	+	1954-73, 1976-
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 Middlebury	Elkhart	.51	99	856.90	1,120	+	1946-53
04099840	Wolf Lake near Goshen	Elkhart	[8]1.29	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	303	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 Laker 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 neaqr Valentine	Lagrange	5.81	103	899.45	9,180	+	1945-
04100100	Oliver Lake near Valentine	Lagrange	11.1	362	899.45	15,358	+	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	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	Steinbarger 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	Long 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	[8]4.19	48	878.90	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	Papakeechie 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	[8]8.05	551	867.70	9,000	+	1945-
04100480	Wabee Lake near Milford	Kosciusko	[8]14.6	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

RECORDS AVAILABLE ON LAKES--Continued

Lakes in the Upper Mississippi River basin for which records are available--Continued

Station Number	Lake	County	Drainage (square miles)	Surface area (acres)	Established level*	Capacity (acre-feet)	Contour map available	Records available
			ILLINOIS RIVER BASIN					
05514740	Saugany Lake near Rolling Prairie	LaPorte	[a]2.34	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	[a]3.89	88	721.17	1,400	+	1946-53
05514760	South Chain Lake at Westfield	St. Joseph	[a]6.32	90	717.04	270	-	1946-53
05514770	Wharton Lake near South Bend	St. Joseph	[a]1.85	-----	--------	------	-	1960-
05514900	Silver Lake near Rolling Prairie	LaPorte	1.72	54	795.20	------	-	1946-66
05515200	Upper Fish Lake near Stillwell	LaPorte	[a]9.65	139	688.22	1,040	+	1946-53
05515210	Lower Fish Lake near Stillwell	LaPorte	[a]10.4	134	688.22	870	+	1946-53
05515220	Pine Lake at LaPorte	LaPorte	[a]10.7	564	796.20	------	-	1946-75 1980-
05515230	Stone Lake at LaPorte	LaPorte	[a]10.7	140	796.20	------	-	1946-75 1980-
05515240	Clear Lake at LaPorte	LaPorte	.65	106	798.20	760	+	1942-49, 1952-75 1980-
05515600	Koontz Lake at Koontz Lake	Starke	[a]6.25	346	714.56	3,170	+	1943-
05515800	Riddles Lake near Lakeville	St. Joseph	[a]11.7	77	817.50	640	+	1946-73, 1976-
05516200	Lake of the Woods near Bremen	Marshall	[a]9.45	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	[a]5.34	168	767.75	1,020	+	1945-53
05516900	Eagle Lake near Ober	Starke	[a]25.5	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	738.70	------	-	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.

[1] Formerly published as Rider Lake at Wilmot.
[2] Formerly published as Chapman Lake near Warsaw.
[3] Formerly published as Johnson Lake near Pierceton.
[4] Formerly published as Hawks Lake near Culver.
[5] Same as Wolf Lake at Chicago, Illinois WRD District.
[6] Formerly published as Jimerson Lake at Nevada Mills.
[7] Formerly published as Sanford Lake near Cosperville.
[8] Formerly published as Duley Lake near Cromwell, and Druely Lake near Cromwell, and Druley Lake near Cromwell.

[a] Contains drainage area (5 percent or greater) that does not contribute directly to surface-water runoff.

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

Base from U.S. Geological Survey digital data, 1:2,000,000, 1996
Albers Equal Area projection
Standard parallels 29°30' and 45° 30' central meridian -96°

EXPLANATION

2 Number of ground-water wells in designated county.

Figure 9.--Number of ground-water wells by county having 1996 water-level records.

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 west of Edgerton.
Owner: Noel Gerig.

AQUIFER.--Limestone of Salina Formation of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 4 in., depth 97 ft, cased to 40 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 760 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 0.00 ft above land-surface datum.

REMARKS.--Nearby quarry operations were shut down in 1980, and since that time water levels have been rising. Quarry operations no longer affect water levels in this well, however, nearby pumping (domestic) creates a daily drawdown of about 0.70 ft, which may affect the mean.

PERIOD OF RECORD.--July 1962 to December 1971, January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.04 ft below land-surface datum, July 8, 9, 1962; lowest, 38.41 ft below land-surface datum, May 4, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.90	---	---	14.14	14.43	14.54	14.32	14.15	13.45	13.22	13.24	13.05
10	13.43	---	---	14.20	14.44	15.16	14.23	13.82	13.30	13.25	13.17	13.16
15	13.37	---	---	13.94	14.61	14.27	13.82	13.85	13.38	13.16	13.08	13.01
20	13.28	---	13.87	13.99	14.54	14.08	13.82	13.87	13.43	13.38	13.25	13.11
25	13.67	---	13.53	13.65	14.54	14.24	13.65	13.78	13.37	13.20	13.14	13.23
EOM	13.81	---	14.01	13.95	14.94	14.32	13.83	13.68	13.50	13.07	13.08	13.37

WTR YR 1996 HIGH 12.90 OCT 5

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.43	---	---	14.60	14.86	14.98	14.52	14.49	13.79	13.36	13.88	13.11
10	13.84	---	---	14.57	15.00	15.76	14.65	13.97	13.83	13.84	13.85	13.35
15	13.80	---	---	14.26	15.04	14.73	14.16	14.37	14.09	13.66	13.60	13.32
20	13.65	---	14.28	14.49	14.99	14.74	14.16	14.37	13.96	13.90	13.96	13.35
25	14.22	---	13.68	14.08	14.91	15.04	14.19	13.99	13.85	13.66	13.50	13.34
EOM	14.25	---	14.42	14.43	15.37	14.69	14.40	14.03	14.18	13.35	13.16	13.53

WTR YR 1996 LOW 15.76 MAR 10

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 northeast of New Haven.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 84 ft, cased to 81.5 ft, screened to 83.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 760 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.50 ft 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, 7.90 ft below land-surface datum, Feb. 24, 1990; lowest, 15.10 ft below land-surface datum, Nov. 26, 1994.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.45	13.59	13.38	13.72	12.15	---	---	10.46	9.56	11.05	11.41	12.81
10	13.63	13.45	13.53	13.72	12.06	---	11.24	10.33	9.03	11.31	11.78	12.98
15	13.63	13.27	13.56	13.75	12.19	---	11.28	10.22	9.34	11.57	11.99	13.00
20	13.65	13.25	13.50	12.75	---	---	11.40	8.82	9.61	11.74	12.24	13.18
25	13.79	13.31	13.58	12.13	---	---	10.56	9.64	9.99	11.74	12.28	13.26
EOM	13.75	13.34	13.63	12.01	---	---	10.48	9.15	10.46	11.47	12.51	13.18

WTR YR 1996 HIGH 8.69 MAY 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.64	13.72	13.54	13.86	12.25	---	---	10.63	9.78	11.16	11.60	12.99
10	13.76	13.53	13.65	13.88	12.15	---	11.40	10.45	9.31	11.51	11.94	13.13
15	13.71	13.36	13.67	13.85	12.29	---	11.39	10.35	9.64	11.77	12.18	13.10
20	13.80	13.36	13.59	13.00	---	---	11.59	9.06	9.77	11.88	12.40	13.35
25	13.91	13.40	13.68	12.31	---	---	10.77	9.79	10.21	11.87	12.42	13.40
EOM	13.91	13.48	13.73	12.15	---	---	10.61	9.37	10.67	11.70	12.70	13.30

WTR YR 1996 LOW 13.93 OCT 23

ALLEN COUNTY

410335085190701. Local number, AL 8.
LOCATION.--Lat 41°03'35", long 85°19'07", in SE¼SW¼SW¼ sec. 8, T.30N., R.11E., Allen County, Hydrologic Unit 05120101, on Covington Rd about 5 mi west of I-69 on the northeast corner of the United Telephone Co. property. Owner: U.S. Geological Survey.

AQUIFER.--Limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 193 ft, cased to 173 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 850.60 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water level data is affected by nearby pumpage. Daily fluctuations greater than 3 ft are common.

PERIOD OF RECORD.--July 1988 to current year. Records for WY1988, WY1989, WY1990 published as AL 7.

REVISED RECORDS.--WDR IN 94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.70 ft below land-surface datum, April 26, 1989; lowest, 75.63 ft below land-surface datum, Aug. 18, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.01	70.01	68.78	69.50	70.18	68.95	68.65	69.51	69.28	74.24	71.80	74.65
10	70.73	69.09	68.88	69.06	68.97	69.48	69.35	69.09	69.87	72.47	73.18	72.79
15	69.97	69.69	68.85	69.61	68.53	68.37	69.09	69.51	69.39	73.16	75.13	72.18
20	70.01	69.99	68.67	68.78	68.85	68.09	69.00	69.96	69.01	70.98	73.69	73.61
25	69.72	68.81	68.48	69.39	69.07	69.00	69.16	69.21	69.57	70.49	72.32	72.32
EOM	69.17	68.28	68.42	71.45	68.92	68.24	69.23	69.73	71.57	69.96	73.70	72.36

WTR YR 1996 HIGH 67.97 APR 3

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.55	71.99	70.29	71.63	71.84	70.40	70.66	71.88	71.48	74.54	73.71	75.08
10	72.58	71.48	71.74	70.93	71.45	72.52	70.99	71.05	71.52	74.43	74.42	73.80
15	73.06	71.79	70.77	71.23	70.18	70.21	71.34	71.36	72.16	75.15	75.47	74.05
20	71.95	71.96	70.33	71.96	70.45	70.03	71.38	71.91	71.43	73.35	74.71	74.94
25	70.97	71.64	70.43	71.14	71.86	70.61	70.86	71.32	71.60	72.10	74.05	73.57
EOM	70.96	70.33	71.18	73.30	70.63	70.38	71.64	71.48	73.35	71.50	74.64	73.66

WTR YR 1996 LOW 75.63 AUG 18

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., depth 93 ft, cased to 85 ft, screened to 90 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 654.04 ft above sea level. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

REMARKS.--Water level affected by agricultural withdrawals during May - August growing season.

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

REVISED RECORDS.--WDR IN-80-1: 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.58 ft below land-surface datum, June 21, 22, 23, 24, 1996; lowest, 21.18 ft below land-surface datum, July 2, 1992.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.47	18.84	19.13	17.54	17.43	16.84	13.90	11.76	---	14.65	16.34
10	---	18.53	18.90	19.12	17.34	17.51	16.53	13.43	11.79	13.58	15.02	16.37
15	---	18.60	18.96	19.13	17.28	17.48	16.31	12.55	11.83	13.81	16.23	16.28
20	18.14	18.65	19.05	18.99	17.28	17.51	16.22	12.11	11.60	13.74	16.25	16.33
25	18.24	18.71	19.08	18.47	17.38	17.47	16.12	12.01	11.62	13.81	16.14	16.33
EOM	18.35	18.77	19.09	17.86	17.45	17.16	15.05	11.81	12.06	13.98	15.85	16.22

WTR YR 1996 HIGH 11.58 JUN 21

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.48	18.85	19.13	17.60	17.44	16.92	14.04	11.78	---	14.94	16.59
10	---	18.54	18.91	19.13	17.38	17.51	16.59	13.51	11.81	13.74	15.29	16.52
15	---	18.62	18.99	19.15	17.28	17.51	16.33	12.71	11.84	14.23	16.45	16.29
20	18.16	18.66	19.06	19.08	17.30	17.54	16.25	12.17	11.62	14.02	16.57	16.34
25	18.25	18.72	19.08	18.59	17.39	17.51	16.16	12.08	11.67	13.82	16.26	16.34
EOM	18.37	18.77	19.10	17.96	17.46	17.21	15.50	11.84	12.26	13.99	15.87	16.26

WTR YR 1996 LOW 19.15 JAN 15

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., 4 mi 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., depth 49 ft, casing length unknown.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 615.48 ft above sea level. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.06 ft below land-surface datum, June 3, 1968; lowest, 24.13 ft below land-surface datum, Dec. 27, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.14	20.12	20.77	20.81	17.97	18.24	17.23	11.84	9.80	11.05	13.89	16.08
10	19.36	20.24	20.88	20.78	17.77	18.35	17.05	10.52	9.88	11.53	14.31	16.33
15	---	20.33	20.96	20.76	17.85	18.32	17.01	9.37	9.98	11.93	14.69	16.55
20	19.57	20.45	20.92	20.57	17.98	18.34	16.95	9.16	10.07	12.46	15.08	16.78
25	19.77	20.56	20.86	19.61	18.16	18.21	16.48	9.48	10.30	12.93	15.40	16.99
EOM	19.98	20.67	20.79	18.44	18.24	17.63	14.44	9.66	10.63	13.45	15.78	17.05

WTR YR 1996 HIGH 9.16 MAY 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.17	20.14	20.82	20.84	18.04	18.29	17.30	12.15	9.87	11.14	13.97	16.14
10	19.39	20.28	20.90	20.85	17.79	18.36	17.08	10.77	9.95	11.65	14.38	16.41
15	---	20.38	21.01	20.84	17.93	18.38	17.07	9.55	10.01	12.08	14.77	16.60
20	19.61	20.49	20.98	20.65	18.05	18.38	17.09	9.19	10.13	12.57	15.15	16.83
25	19.82	20.58	20.88	19.87	18.19	18.23	16.64	9.54	10.37	13.02	15.46	17.05
EOM	20.03	20.69	20.81	18.59	18.29	17.73	15.07	9.69	10.70	13.54	15.84	17.09

WTR YR 1996 LOW 21.02 DEC 18

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 south of Columbus.
Owner: City of Columbus.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 115 ft, cased to 106 ft, screened to 111 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 621.58 ft above sea level. Measuring point: Top of floor of shelter, 1.65 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from municipal supply well field.

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

REVISED RECORDS.--WDR IN-80-1: 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.75 ft below land-surface datum, Apr. 27-30, 1973; lowest, 42.01 ft below land-surface datum, Nov. 14, 1992.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.08	29.34	31.87	29.10	29.08	28.87	30.07	---	---	---	---	---
10	32.23	29.28	28.55	30.36	29.86	28.98	---	---	---	---	---	---
15	29.90	29.18	29.45	30.47	26.98	29.41	---	---	---	---	---	---
20	29.99	29.30	29.11	28.36	27.94	32.43	---	---	---	---	---	---
25	32.98	28.07	28.51	29.96	28.29	30.28	---	---	---	---	---	---
EOM	29.67	28.13	27.80	27.02	28.62	32.33	---	---	---	---	---	---

WTR YR 1996 HIGH 26.36 FEB 2

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.68	32.20	32.00	30.76	30.07	32.12	32.02	---	---	---	---	---
10	32.90	29.36	31.94	30.82	30.02	32.29	---	---	---	---	---	---
15	32.93	29.26	29.52	30.85	30.37	32.51	---	---	---	---	---	---
20	33.15	31.58	31.53	30.73	31.26	32.62	---	---	---	---	---	---
25	33.52	31.44	28.56	30.08	31.58	32.38	---	---	---	---	---	---
EOM	32.72	29.09	28.24	29.39	31.79	32.40	---	---	---	---	---	---

WTR YR 1996 LOW 33.55 OCT 24

BARTHOLOMEW COUNTY

390317085523701. Local number, BA 10.
LOCATION.--Lat 39°03'17", long 85°52'08", in NE¼NW¼NW¼ sec.16, T.17 N., R.6 E., Bartholomew County, Hydrologic Unit 05120206, 0.8 mi east of State Highway 11 and 1.0 mi southeast of Jonesville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 85 ft, cased to 80 ft, screened to 85 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 580 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

REMARKS.--Hourly record indicates water level is affected by domestic pumpage. Not significant in monthly-annual report.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.66 ft below land-surface datum, Nov. 17, 1993; lowest, 12.65 ft below land-surface datum, Oct. 29, Nov. 2, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.56	10.16	10.21	9.26	6.71	7.70	5.47	2.49	5.40	6.88	8.46	9.44
10	9.71	10.16	10.38	9.13	7.09	7.73	6.40	3.27	3.69	7.34	8.67	9.56
15	9.85	9.96	10.45	9.22	7.47	7.81	6.86	3.98	4.66	7.58	8.88	9.69
20	9.84	9.95	9.11	2.93	7.77	7.71	6.49	4.18	5.43	7.87	9.07	9.61
25	10.00	10.06	9.07	3.65	8.08	4.50	2.76	5.56	5.71	7.99	8.96	9.60
EOM	10.12	10.13	9.18	5.84	7.65	5.89	1.00	3.10	6.33	8.24	9.25	8.88

WTR YR 1996 HIGH 1.00 APR 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.75	10.30	10.49	9.39	6.94	7.89	5.70	3.51	5.56	6.98	8.55	9.51
10	9.84	10.29	10.49	9.26	7.19	7.80	6.55	3.43	4.42	7.46	8.79	9.69
15	9.90	10.02	10.53	9.31	7.63	8.04	7.19	4.22	4.99	7.74	9.01	9.77
20	10.02	10.10	9.58	3.23	7.94	7.93	7.41	4.65	5.52	7.95	9.12	9.70
25	10.15	10.21	9.17	4.00	8.12	6.18	3.05	5.66	5.90	8.09	9.10	9.77
EOM	10.21	10.27	9.30	6.08	7.85	6.12	1.25	4.07	6.51	8.39	9.35	8.99

WTR YR 1996 LOW 10.53 DEC 14

BARTHOLOMEW COUNTY

390658085572201. Local number, BA 13.
LOCATION.--Lat 39°06'58", long 85°57'22", in SW¼NW¼SE¼ sec.22, T.8 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, at the end of farm access road, 0.3 mi north of County Road 600 South at its intersection with Interstate Highway 65.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 55.6 ft, cased to 50.6 ft, screened to 55.6 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 633.91 ft above sea level. Measuring point: Top of floor of shelter, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.55 ft below land-surface datum, March 18, 1994; lowest, 24.17 ft below land-surface datum, Feb. 16, 1989.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.15	21.19	20.86	21.11	21.03	20.24	20.59	20.25	20.30	20.21	20.43	20.50
10	20.88	20.54	21.40	20.92	20.23	21.20	20.47	20.21	20.05	20.26	20.47	20.58
15	20.73	21.00	21.12	20.90	20.35	20.21	19.99	20.15	20.18	20.07	20.45	20.48
20	20.56	20.95	20.91	21.04	20.38	19.94	20.02	19.93	20.03	20.24	20.63	20.57
25	20.93	21.03	21.00	20.81	20.52	20.09	19.79	20.24	20.16	20.25	20.49	20.77
EOM	21.02	20.76	20.72	20.89	20.70	20.20	19.97	20.38	20.16	20.32	20.54	20.93

WTR YR 1996 HIGH 19.79 APR 25

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.52	21.38	21.25	21.35	21.31	20.55	20.75	20.41	20.41	20.29	20.52	20.59
10	20.96	20.86	21.48	21.12	20.55	21.33	20.61	20.36	20.12	20.46	20.56	20.69
15	20.81	21.08	21.21	21.21	20.53	20.38	20.28	20.37	20.26	20.31	20.53	20.59
20	20.75	21.06	21.09	21.20	20.53	20.29	20.35	20.09	20.15	20.37	20.73	20.71
25	21.13	21.25	21.11	21.09	20.73	20.70	20.19	20.44	20.36	20.35	20.63	20.88
EOM	21.13	21.14	20.99	21.01	20.91	20.35	20.19	20.48	20.27	20.40	20.65	21.00

WTR YR 1996 LOW 21.48 DEC 10

BENTON COUNTY

402851087213501. Local number, BE 4.

LOCATION.--Lat 40°28'51", long 87°21'35", in SE¼NE¼SE¼ sec.31, T.24 N., R.8 W., Benton County, Hydrologic Unit 05120108, on north side of county road, 3.6 mi southeast of Boswell.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 310 ft, cased to 300 ft, screened to 305 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 710 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.19 ft above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.57 ft below land-surface datum, May 4, 1993; lowest, 16.55 ft below land-surface datum, Dec. 4, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.50	15.15	15.08	15.23	15.10	14.65	14.54	14.01	13.06	12.67	12.86	13.80
10	14.76	14.96	15.25	15.23	14.73	14.93	14.43	13.82	12.85	12.73	13.05	13.91
15	14.82	15.13	15.19	15.24	14.72	14.64	14.21	13.67	12.83	12.75	13.16	14.03
20	14.84	15.12	15.11	15.26	14.68	14.50	14.11	13.41	12.65	12.78	13.29	14.20
25	15.04	15.15	15.16	15.11	14.73	14.50	14.00	13.40	12.62	12.69	13.46	14.33
EOM	15.02	15.03	15.14	15.09	14.82	14.53	13.99	13.26	12.65	12.74	13.64	14.43

WTR YR 1996 HIGH 12.48 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.57	15.19	15.19	15.34	15.18	14.77	14.59	14.08	13.11	12.68	12.89	13.83
10	14.83	15.06	15.28	15.30	14.81	14.98	14.47	13.93	12.89	12.81	13.08	13.96
15	14.87	15.15	15.23	15.34	14.78	14.69	14.29	13.80	12.86	12.80	13.21	14.05
20	14.92	15.16	15.14	15.30	14.71	14.57	14.22	13.47	12.68	12.82	13.32	14.23
25	15.07	15.21	15.18	15.19	14.77	14.68	14.14	13.46	12.69	12.73	13.48	14.36
EOM	15.08	15.16	15.22	15.11	14.85	14.59	14.02	13.30	12.69	12.78	13.67	14.48

WTR YR 1996 LOW 15.35 JAN 6

BOONE COUNTY

400532086183901. Local number, BO 17.

LOCATION.--Lat 40°05'32", long 86°18'39", in SW¼SE¼NW¼ sec.16, T.19 N., R.2 E., Boone County, Hydrologic Unit 05120201, 0.6 mi north along U.S. Highway 421 from the intersection of U.S. Highway 421 and County Road 300 North at Waugh on the west side of the highway at the residence of John Sheets.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 171.8 ft, cased to 166.8 ft, screened to 171.8 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 956.50 ft above sea level. Measuring point: Mark on top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

REVISED RECORDS.--WDR IN-94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.87 ft below land-surface datum, July 11-13, 1986; lowest, 52.82 ft below land-surface datum, Sept. 15, 16, 18, 19, and 20, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.30	52.15	51.97	51.87	51.83	51.25	50.83	50.14	49.54	49.54	50.58	52.49
10	52.38	51.85	52.10	51.87	51.57	51.46	50.71	49.98	49.37	50.04	50.77	52.73
15	52.37	51.86	52.06	51.84	51.58	51.14	50.47	49.81	49.34	50.38	51.02	52.80
20	52.32	51.78	51.88	51.88	51.51	50.93	50.45	49.73	49.21	50.64	51.32	52.81
25	52.29	51.93	51.87	51.77	51.49	50.88	50.29	49.66	49.18	50.65	51.69	52.72
EOM	52.23	51.93	51.79	51.76	51.48	50.89	50.19	49.67	49.30	50.53	52.06	52.57

WTR YR 1996 HIGH 49.18 JUN 24

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.36	52.20	52.10	51.94	51.90	51.40	50.88	50.23	49.55	49.64	50.59	52.55
10	52.38	51.96	52.12	51.91	51.66	51.49	50.75	50.04	49.38	50.15	50.81	52.79
15	52.37	51.88	52.08	51.93	51.64	51.20	50.58	49.94	49.34	50.44	51.08	52.82
20	52.42	51.84	51.91	51.92	51.54	51.00	50.57	49.76	49.21	50.71	51.45	52.82
25	52.31	51.98	51.89	51.85	51.54	51.06	50.41	49.67	49.20	50.67	51.73	52.72
EOM	52.26	52.04	51.88	51.79	51.52	50.96	50.26	49.67	49.32	50.57	52.13	52.57

WTR YR 1996 LOW 52.82 SEP 15

CASS COUNTY

403407086175701. Local number, CS 3.
LOCATION.--Lat 40°34'07", long 86°17'57", in 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 east of Young America. Owner: U.S. Geological Survey.

AQUIFER.--Dolomitic limestone of Devonian-Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 130 ft, cased to 78 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 781.74 ft above sea level. Measuring point: Top of floor of shelter, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.85 ft below land-surface datum, Feb. 2, 1968; lowest, 10.12 ft below land-surface datum, Nov. 26, 1991.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.99	8.84	7.83	10.01	10.15	8.19	7.18	7.13	6.51	6.64	6.90	7.37
10	7.57	9.40	8.59	10.61	8.59	8.52	7.51	6.05	6.43	6.80	7.19	7.25
15	7.09	9.84	9.10	10.32	8.77	7.22	7.10	5.85	6.32	6.77	7.18	6.76
20	7.00	8.86	9.06	10.17	8.44	7.22	6.96	6.82	6.33	6.98	7.36	6.54
25	8.08	8.39	9.80	9.66	7.93	6.99	7.07	7.12	6.36	6.30	7.20	6.85
EOM	8.12	8.00	9.61	9.55	7.85	7.52	7.66	6.39	6.48	6.31	6.94	7.14

WTR YR 1996 HIGH 5.82 MAY 17

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.20	9.00	8.12	10.24	10.27	8.45	7.38	7.34	6.76	6.88	7.24	7.51
10	7.75	9.61	8.85	10.68	8.85	8.81	7.61	6.25	6.54	7.03	7.37	7.38
15	7.21	9.92	9.16	10.51	8.86	7.32	7.24	5.99	6.61	6.96	7.37	6.87
20	7.13	9.23	9.25	10.36	8.63	7.58	7.31	7.13	6.52	7.19	7.57	6.62
25	8.16	8.62	9.90	9.87	8.24	7.48	7.32	7.18	6.60	6.46	7.34	6.98
EOM	8.24	8.18	9.76	9.69	8.10	7.68	7.93	6.48	7.04	6.44	7.19	7.26

WTR YR 1996 LOW 10.68 JAN 10

CLAY COUNTY

392653087120501. Local number, CY 6.
LOCATION.--Lat 39°26'53", long 87°12'05", in SE¼SE¼SE¼ sec.29, T.12 N., R.7 W., Clay County, Hydrologic Unit 05120111, 2.8 mi southwest of Staunton and 4.0 mi west of State Highway 59 just north of State Highway 42. Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of the Mansfield Formation, Pennsylvanian Period.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 400 ft, cased to 347 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 653.16 ft above sea level. Measuring point: Top of casing, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to current year.

REVISED RECORDS.--WDR IN94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 151.36 ft below land-surface datum, Jan. 19, 1988; lowest, 165.28 ft below land-surface datum, June 8, 1992.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.63	156.17	155.84	155.98	156.04	155.66	155.96	155.80	155.96	156.16	156.52	156.68
10	156.02	155.76	156.17	155.85	155.59	156.29	155.91	155.81	155.83	156.27	156.58	156.70
15	155.97	156.05	155.99	155.90	155.72	155.68	155.55	155.75	155.98	156.17	156.58	156.63
20	155.82	155.97	155.83	155.88	155.70	155.59	155.60	155.66	155.92	156.35	156.75	156.71
25	155.98	155.98	155.86	155.81	155.84	155.61	155.51	155.92	156.06	156.34	156.59	156.72
EOM	156.07	155.83	155.64	155.95	156.01	155.71	155.60	155.95	156.07	156.39	156.65	156.73

WTR YR 1996 HIGH 155.29 JAN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.84	156.43	156.28	156.17	156.29	155.96	156.17	155.98	156.14	156.28	156.62	156.81
10	156.17	156.04	156.34	155.96	155.78	156.41	156.00	155.89	155.97	156.48	156.76	156.88
15	156.04	156.13	156.11	156.10	155.96	155.92	155.87	155.95	156.16	156.41	156.73	156.76
20	155.98	156.16	156.05	156.17	155.86	155.82	155.90	155.83	156.06	156.46	156.83	156.78
25	156.29	156.25	155.98	156.08	155.98	156.08	155.70	156.07	156.24	156.50	156.81	156.80
EOM	156.23	156.09	155.89	156.08	156.18	155.96	155.80	156.18	156.31	156.60	156.81	156.81

WTR YR 1996 LOW 156.08 SEP 10

CLAY COUNTY

391124087134701. Local number, CY 7.
LOCATION.--Lat 39°11'24", long 87°13'47", in SW¼NW¼SE¼ sec. 30, T.9N., R.7W., Clay County, Hydrologic Unit 05120111, 300 ft east of State Highway 159 just south of Coalmont and about 3.6 mi northwest of Jasonville.
Owner: U.S. Geological Survey

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 121 ft, cased to 80 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 616.80 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.59 ft below land-surface datum, Sept. 4, 5, 1988; lowest, 33.05 ft below land-surface datum, Dec. 26, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.97	30.35	30.41	30.30	29.72	29.26	28.90	28.45	28.29	28.55	29.23	29.88
10	30.10	30.30	30.51	30.26	29.56	29.32	28.86	28.34	28.15	28.68	29.38	29.83
15	30.15	30.27	30.50	30.22	29.53	29.17	28.77	28.31	28.20	28.77	29.47	29.95
20	30.16	30.31	30.31	30.08	29.48	29.02	28.70	28.34	28.22	28.90	29.60	29.87
25	30.26	30.37	30.35	29.89	29.47	29.00	28.60	28.37	28.33	28.95	29.68	29.93
EOM	30.31	30.38	30.32	29.78	29.40	28.91	28.51	28.32	28.45	29.09	29.82	29.92

WTR YR 1996 HIGH 28.15 JUN 10

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.00	30.38	30.48	30.33	29.77	29.34	28.93	28.47	28.32	28.59	29.26	29.90
10	30.13	30.34	30.52	30.28	29.60	29.34	28.87	28.39	28.20	28.73	29.40	29.87
15	30.17	30.29	30.51	30.25	29.55	29.21	28.81	28.35	28.23	28.82	29.49	29.97
20	30.22	30.34	30.35	30.13	29.50	29.06	28.74	28.36	28.25	28.93	29.64	29.88
25	30.29	30.40	30.37	29.93	29.49	29.07	28.64	28.39	28.37	28.99	29.69	29.95
EOM	30.32	30.41	30.36	29.80	29.42	28.96	28.53	28.35	28.49	29.12	29.83	29.94

WTR YR 1996 LOW 30.54 DEC 16

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 west of Greensburg.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 49 ft, cased to 12.5 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 840.8 ft above sea level. Measuring point: Top of floor of shelter, 3.02 ft 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, 0.12 ft below land-surface datum, Dec. 30, 1991; lowest, 9.25 ft below land-surface datum, Feb. 9-11, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

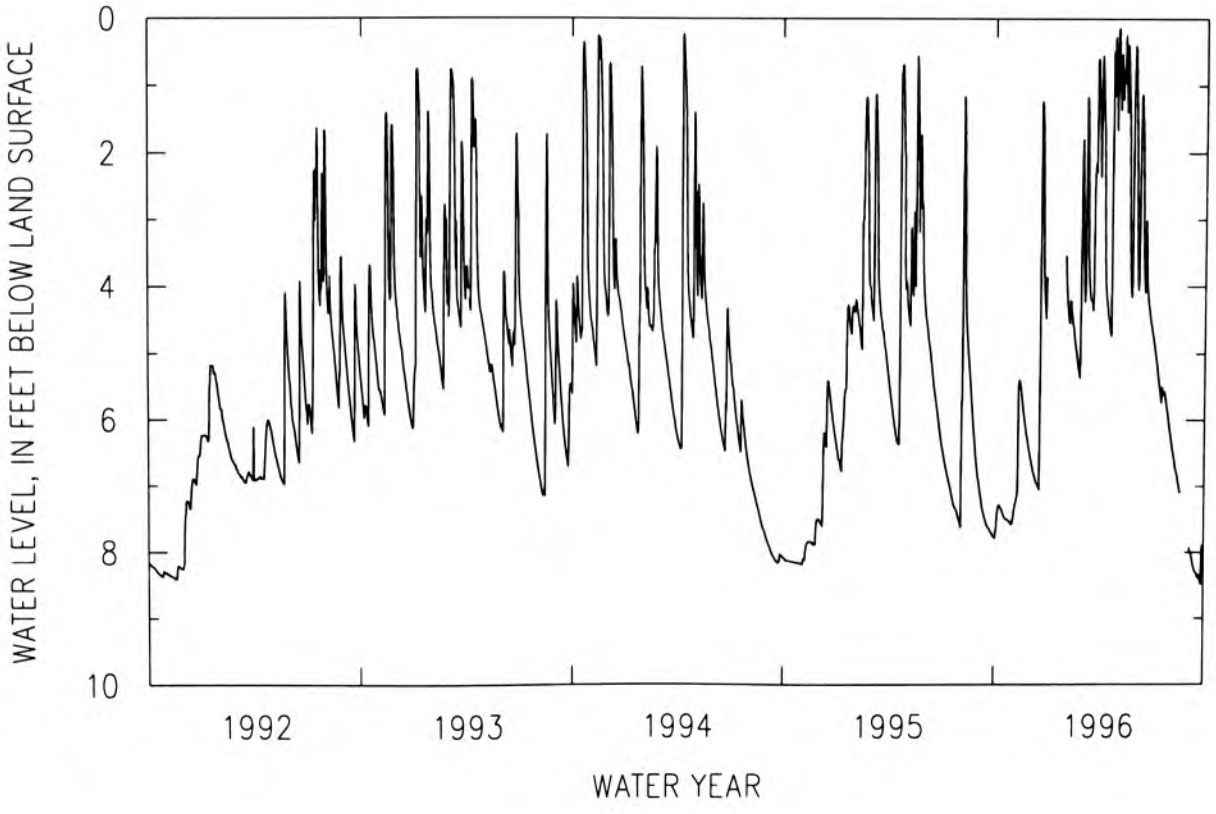
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.48	7.29	6.70	---	4.44	3.97	1.58	.63	4.05	4.95	6.44	7.92
10	7.29	7.07	6.89	---	4.37	3.55	4.08	.62	1.40	5.29	6.71	8.09
15	7.39	5.50	7.00	---	4.73	4.18	4.46	.39	3.81	5.64	6.93	8.28
20	7.49	5.90	1.28	---	5.06	2.52	.49	2.41	3.85	5.62	---	8.38
25	7.52	6.23	3.99	---	5.36	.60	.86	4.15	4.36	5.75	---	8.44
EOM	7.58	6.49	---	3.53	2.18	1.02	.48	1.41	4.66	6.14	---	8.01

WTR YR 1996 HIGH .14 APR 29

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.65	7.35	6.77	---	4.51	4.31	2.16	.89	4.17	5.01	6.49	7.99
10	7.31	7.12	6.92	---	4.42	3.87	4.19	1.70	1.58	5.37	6.76	8.16
15	7.42	5.58	7.03	---	4.82	4.29	4.57	1.94	3.97	5.73	6.97	8.31
20	7.51	5.97	1.52	---	5.15	4.13	4.77	3.32	4.03	5.69	---	8.40
25	7.54	6.27	4.20	---	5.39	.80	1.25	4.26	4.45	5.83	---	8.48
EOM	7.60	6.52	---	3.90	2.92	3.54	.87	1.88	4.72	6.20	---	8.04

WTR YR 1996 LOW 8.51 SEP 27



DELAWARE COUNTY

400541085213701. Local number, DW 4.
LOCATION.--Lat 40°05'36", long 85°21'38", in NW¼SE¼SW¼ sec.14, T.19 N., R.10 E., Delaware County, Hydrologic Unit 05120201, on property owned by Monroe Township Conservation Club, and 8.0 mi south of Muncie.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 91 ft, cased to 89 ft, screened to 91 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,005 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.88 ft 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, 42.21 ft below land-surface datum, Dec. 30, 1990; lowest, 49.50 ft below land-surface datum, Oct. 13, 14, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.53	48.49	48.56	48.47	47.76	47.51	47.42	45.02	47.14	47.69	48.08	---
10	48.54	48.48	48.57	48.46	47.97	47.73	47.66	45.23	---	47.83	48.15	---
15	48.52	48.43	48.59	48.50	48.12	47.88	47.81	46.22	46.33	47.92	---	---
20	48.49	48.47	48.53	46.46	48.23	47.85	47.33	46.79	46.87	47.96	---	---
25	48.51	48.50	48.54	46.57	48.29	47.31	45.70	47.08	47.26	47.88	---	---
EOM	48.51	48.54	48.56	47.35	47.15	47.55	44.57	46.72	47.52	48.00	---	---

WTR YR 1996 HIGH 44.57 APR 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.56	48.49	48.57	48.48	47.82	47.55	47.47	45.48	47.21	47.73	48.09	---
10	48.55	48.49	48.58	48.47	48.00	47.76	47.69	45.45	---	47.86	48.17	---
15	48.53	48.43	48.60	48.51	48.15	47.92	47.83	46.32	46.37	47.94	---	---
20	48.52	48.47	48.55	46.61	48.25	47.94	47.69	46.88	46.97	47.98	---	---
25	48.51	48.51	48.55	46.76	48.30	47.35	45.90	47.14	47.33	47.91	---	---
EOM	48.52	48.55	48.57	47.44	47.18	47.59	44.95	46.83	47.57	48.02	---	---

WTR YR 1996 LOW 48.60 DEC 15

ELKHART COUNTY

413121085481301. Local number, EH 4.
LOCATION.--Lat 41°31'21", long 85°48'13", in SW¼SE¼SW¼ sec.35, T.36 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, at the southwest corner of Goshen Municipal Airport.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 62 ft, cased to 58 ft, screened to 60 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 818 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.60 ft below land-surface datum, Apr. 14, 1985; lowest, 16.18 ft below land-surface datum, Dec. 1-5, 1971.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

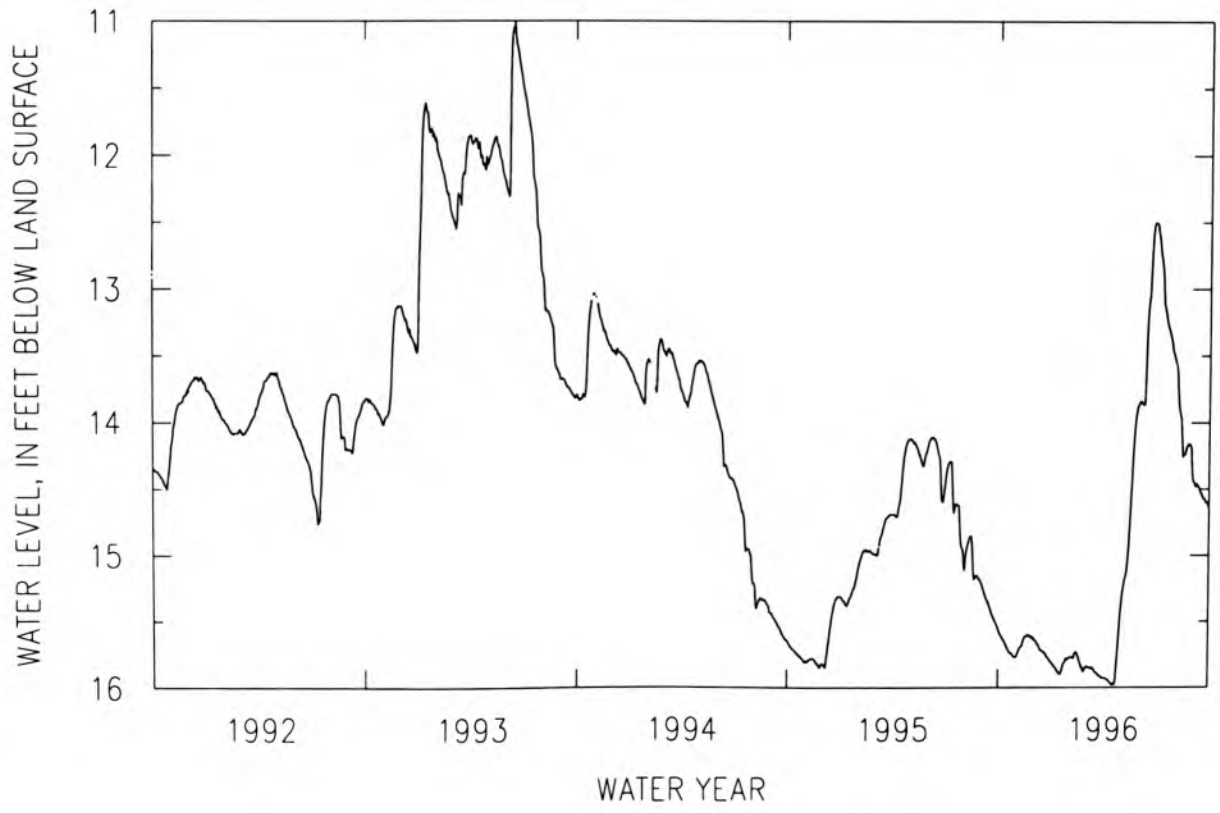
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.61	15.72	15.65	15.84	15.77	15.85	15.93	15.21	13.86	12.71	13.61	14.46
10	15.64	15.69	15.69	15.87	15.74	15.85	15.95	15.09	13.72	12.90	13.93	14.47
15	15.69	15.62	15.72	15.90	15.75	15.87	15.98	14.75	13.12	13.17	14.26	14.52
20	15.73	15.61	15.74	15.85	15.82	15.89	15.97	14.29	12.74	13.29	14.22	14.57
25	15.75	15.61	15.77	15.80	15.87	15.91	15.71	13.96	12.50	13.38	14.16	14.60
EOM	15.77	15.62	15.81	15.78	15.85	15.93	15.38	13.85	12.52	13.51	14.31	14.64

WTR YR 1996 HIGH 12.50 JUN 25

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.61	15.73	15.66	15.84	15.78	15.85	15.94	15.23	13.86	12.74	13.73	14.48
10	15.65	15.70	15.70	15.87	15.76	15.86	15.96	15.13	13.84	13.02	13.95	14.48
15	15.70	15.63	15.72	15.90	15.77	15.88	15.98	14.83	13.17	13.20	14.29	14.53
20	15.74	15.61	15.74	15.87	15.84	15.90	15.99	14.39	12.85	13.31	14.24	14.57
25	15.76	15.62	15.78	15.81	15.88	15.92	15.77	14.00	12.51	13.40	14.17	14.61
EOM	15.77	15.63	15.81	15.78	15.86	15.93	15.44	13.86	12.57	13.53	14.40	14.64

WTR YR 1996 LOW 15.99 APR 19



ELKHART COUNTY

414419085544601. Local number, EH 5.
LOCATION.--Lat 41°44'19", long 85°54'46", in NW¼NE¼NE¼ sec.23, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, on the inlet to Heaton Lake, and 3.5 mi east of Elkhart.
Owner: State of Indiana.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in., depth 13 ft, cased to 11 ft, screened to 13 ft.
INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 770 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.37 ft below land-surface datum, June 16, 1981; lowest, 5.65 ft below land-surface datum, Sept. 17-19, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.31	3.68	3.80	4.49	4.41	3.85	3.90	3.15	2.85	3.25	---	4.14
10	4.38	3.56	3.98	4.60	4.31	3.90	3.91	2.31	2.39	3.39	---	4.18
15	4.51	3.44	4.00	4.65	4.30	3.81	3.58	2.59	2.70	3.48	---	4.28
20	4.44	3.55	4.08	4.25	4.36	3.81	3.34	2.41	2.55	3.39	3.75	4.42
25	4.31	3.70	4.21	4.25	4.35	3.81	2.91	2.69	2.84	3.54	3.81	4.26
EOM	3.75	3.78	4.34	4.25	4.00	3.90	2.95	2.79	3.06	---	4.00	3.88

WTR YR 1996 HIGH 2.21 MAY 17

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.31	3.70	3.82	4.52	4.42	3.96	3.91	3.16	2.90	3.29	---	4.19
10	4.42	3.79	4.02	4.61	4.32	3.91	3.95	3.00	2.64	3.44	---	4.20
15	4.52	3.49	4.05	4.66	4.30	3.82	3.70	2.59	2.79	3.49	---	4.28
20	4.65	3.59	4.10	4.28	4.36	3.81	3.38	2.55	2.61	3.44	3.81	4.44
25	4.31	3.72	4.24	4.25	4.36	3.85	2.96	2.72	2.89	3.56	3.85	4.28
EOM	3.91	3.78	4.39	4.26	4.01	3.90	3.01	2.82	3.11	---	4.03	3.91

WTR YR 1996 LOW 4.66 JAN 14

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, and 4.0 mi east of Elkhart.
Owner: State of Indiana.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 1.5 in., depth 22 ft, cased to 20 ft, screened to 22 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 770 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.10 ft below land-surface datum, June 16-19, 1981; lowest, 10.68 ft below land-surface datum, Oct. 16, 17, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.26	10.03	---	---	---	9.42	9.04	7.80	6.89	7.09	7.57	8.73
10	9.37	10.34	---	---	---	9.29	9.06	7.33	6.74	7.33	7.73	8.90
15	9.46	10.38	---	---	---	9.15	9.00	6.90	6.64	7.53	7.90	8.99
20	9.51	10.41	---	---	---	9.07	8.83	6.65	6.61	7.67	8.13	9.08
25	9.68	10.45	---	---	---	9.05	7.90	6.68	6.66	7.85	8.31	9.11
EOM	9.84	10.49	---	---	9.59	9.05	7.76	6.79	6.92	7.57	8.56	8.93

WTR YR 1996 HIGH 6.60 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.26	10.11	---	---	---	9.48	9.06	7.80	6.92	7.17	7.64	8.78
10	9.39	10.36	---	---	---	9.31	9.08	7.83	6.92	7.40	7.78	8.91
15	9.47	10.38	---	---	---	9.20	9.03	6.92	6.67	7.57	7.91	9.00
20	9.53	10.43	---	---	---	9.07	8.89	6.67	6.61	7.71	8.18	9.12
25	9.74	10.46	---	---	---	9.06	8.03	6.71	6.75	7.87	8.34	9.12
EOM	9.84	10.50	---	---	9.62	9.05	7.78	6.82	6.94	7.62	8.59	8.95

WTR YR 1996 LOW 10.60 DEC 4

ELKHART COUNTY

414514085505001. Local number, EH 7.
LOCATION.--Lat 41°45'14", long 85°50'50", in SW¼SE¼SW¼ sec.9, T.38 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, on north side of County Road 2, 200 ft east of County Road 21, and 2.7 mi northwest of Bristol.
Owner: U.S. Geological Survey.

AQUIFER.--Fine to medium sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 61 ft, cased to 56 ft, screened to 61 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 781 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.50 ft below land-surface datum, Feb. 24, 1985; lowest, 12.73 ft below land-surface datum, Aug. 5, 6, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.53	10.81	10.40	10.74	10.87	10.69	10.65	9.99	8.41	8.64	9.94	11.02
10	10.59	10.80	10.47	10.77	10.79	10.68	10.68	9.75	8.08	9.20	10.17	11.17
15	10.62	10.54	10.53	10.82	10.84	10.63	10.60	9.08	7.87	9.61	10.38	11.24
20	10.67	10.42	10.58	10.82	10.89	10.61	10.54	8.28	7.84	9.69	10.47	11.07
25	10.73	10.38	10.63	10.82	10.92	10.61	10.23	8.18	7.97	9.90	10.57	10.96
EOM	10.78	10.36	10.69	10.85	10.82	10.62	10.06	8.27	8.11	10.00	10.79	10.81

WTR YR 1996 HIGH 7.84 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.54	10.81	10.43	10.75	10.88	10.72	10.66	10.00	8.44	8.75	10.04	11.09
10	10.60	10.82	10.49	10.79	10.82	10.69	10.68	9.93	8.45	9.27	10.25	11.21
15	10.64	10.59	10.55	10.83	10.86	10.64	10.61	9.15	7.89	9.72	10.48	11.29
20	10.68	10.44	10.59	10.83	10.90	10.63	10.56	8.35	7.86	9.71	10.55	11.10
25	10.73	10.39	10.64	10.84	10.93	10.64	10.31	8.21	8.02	9.99	10.64	10.98
EOM	10.78	10.39	10.70	10.85	10.88	10.63	10.08	8.29	8.17	10.09	10.86	10.85

WTR YR 1996 LOW 11.35 SEP 13

ELKHART COUNTY

414419085595801. Local number, EH 9.
LOCATION.--Lat 41°44'19", long 85°59'58", in NE¼NW¼NW¼ sec.19, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, on the west side of Iris Avenue, about 6 mi northwest of Elkhart.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in, depth 33.8 ft, cased to 28.8 ft with 5 ft stainless steel screen.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 785.27 ft above sea level. Measuring point: Top of casing, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.09 ft below land-surface datum, Jan. 16, 1991; lowest, 21.49 ft below land-surface datum, Apr. 18, 19, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.29	21.18	20.75	20.99	21.00	21.22	21.37	21.12	19.38	19.40	19.81	20.45
10	21.34	21.13	20.73	20.92	21.23	21.20	21.35	20.96	19.32	19.60	19.87	20.47
15	21.19	20.90	20.89	21.03	21.27	21.35	21.38	20.43	19.31	19.69	19.93	20.47
20	21.42	20.80	20.93	20.96	21.29	21.16	21.41	20.11	19.24	19.81	20.00	20.35
25	21.32	20.63	20.86	21.01	21.17	21.18	21.28	19.79	19.19	19.83	20.15	20.43
EOM	21.22	20.76	20.94	21.06	21.28	21.13	21.32	19.61	19.32	19.57	20.29	20.57

WTR YR 1996 HIGH 19.18 JUN 22

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.38	21.22	20.85	21.05	21.08	21.29	21.42	21.23	19.47	19.49	19.85	20.48
10	21.39	21.16	20.76	21.04	21.30	21.26	21.44	21.23	19.34	19.64	19.94	20.51
15	21.28	20.98	20.96	21.10	21.34	21.40	21.42	20.47	19.35	19.73	19.98	20.52
20	21.44	20.87	21.01	21.12	21.35	21.20	21.47	20.15	19.27	19.83	20.03	20.47
25	21.44	20.68	20.97	21.05	21.27	21.25	21.30	19.83	19.21	19.85	20.19	20.52
EOM	21.33	20.84	21.02	21.13	21.35	21.21	21.38	19.62	19.38	19.62	20.32	20.61

WTR YR 1996 LOW 21.49 APR 18

FOUNTAIN COUNTY

401200087121701. Local number, FO 3.
LOCATION.--Lat 40°12'00", long 87°12'17", in NW¼NW¼NW¼ sec.10, T.20 N., R.7 W., Fountain County, Hydrologic Unit 05120108, on the southwest corner of the Union Church property on County Road 520 North, about 6.5 mi southeast of Attica.
Owner: U.S. Geological Survey.

AQUIFER.--Shale and sandstone of the Mississippian Period.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 102 ft, cased to 22 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 670.99 ft above sea level. Measuring point: Top of casing, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.02 ft below land-surface datum, Mar. 11, 1990; lowest, 13.53 ft below land-surface datum, Dec. 21, 22, 25-27, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	12.36	12.65	---	11.99	11.73	9.71	8.09	6.70	7.28	8.47	9.88
10	---	12.41	---	---	12.09	11.59	9.97	6.06	6.75	7.75	8.76	10.08
15	---	12.43	---	---	12.21	11.66	10.07	6.17	6.38	7.94	8.98	10.25
20	---	12.51	---	11.90	12.31	11.76	10.23	6.57	6.83	8.10	9.19	10.41
25	---	12.58	---	11.70	12.40	9.86	9.84	6.94	6.29	8.02	9.42	10.59
EOM	---	12.62	---	11.78	11.97	9.69	8.54	6.18	6.97	8.12	9.66	10.72

WTR YR 1996 HIGH 5.70 MAY 28

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	12.38	12.66	---	12.03	11.95	9.76	8.86	6.82	7.39	8.53	9.92
10	---	12.42	---	---	12.11	11.61	9.99	7.59	6.82	7.83	8.79	10.11
15	---	12.45	---	---	12.24	11.70	10.18	6.63	6.57	8.04	9.05	10.29
20	---	12.52	---	11.91	12.34	11.81	10.36	6.73	6.97	8.13	9.25	10.43
25	---	12.58	---	11.75	12.41	10.47	9.93	6.98	6.49	8.13	9.45	10.61
EOM	---	12.63	---	11.82	12.05	10.12	8.62	6.33	7.09	8.18	9.71	10.75

WTR YR 1996 LOW 12.66 DEC 5

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, 1.0 mi south of Brookville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 61 ft, cased to 57 ft, screened to 59 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 621.79 ft above sea level. Measuring point: Top of floor of shelter, 2.70 ft 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 below land-surface datum, May 24, 1968; lowest, 27.32 ft below land-surface datum, Feb. 1, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.04	25.85	26.11	25.60	22.30	24.38	23.29	---	21.15	24.08	25.16	25.98
10	26.20	25.74	26.31	25.63	23.56	24.07	24.01	---	18.01	24.51	25.21	26.03
15	26.37	25.19	26.42	25.61	24.39	24.21	24.61	---	19.34	24.77	25.51	26.09
20	26.26	25.09	25.62	21.80	24.89	23.52	24.17	18.75	21.53	24.64	25.65	25.98
25	26.23	25.07	25.49	21.76	25.18	22.81	22.11	19.40	22.74	24.86	25.78	25.83
EOM	26.05	25.76	25.85	22.10	24.39	23.41	---	19.07	23.57	25.03	25.89	25.53

WTR YR 1996 HIGH 17.49 MAY 14

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.65	25.88	26.16	25.61	22.44	24.42	23.47	---	21.61	24.20	25.19	25.99
10	26.24	25.75	26.36	25.65	23.77	24.13	24.17	---	18.32	24.59	25.27	26.04
15	26.41	25.23	26.43	25.67	24.52	24.41	24.69	---	19.83	24.79	25.56	26.11
20	26.27	25.10	25.71	22.27	24.99	24.02	24.96	18.99	21.74	24.75	25.68	26.01
25	26.23	25.08	25.50	22.02	25.19	22.94	22.48	20.10	22.95	24.88	25.79	25.88
EOM	26.07	25.84	25.89	22.11	24.46	23.46	---	19.33	23.69	25.07	25.91	25.53

WTR YR 1996 LOW 26.66 OCT 3

FULTON COUNTY

405829086175801. Local number, FU 7.
LOCATION.--Lat 40°58'29", long 86°17'58", in NW¼NW¼SW¼ sec.10, T.29 N., R.2 E., Fulton County, Hydrologic Unit 05120106, 2.5 mi northwest of Fulton.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 102 ft, cased to 96 ft, screened to 102 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 776.45 ft above sea level. Measuring point: Top of floor of shelter, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.35 ft below land-surface datum, Apr. 23-27, 1973; lowest, 13.21 ft below land-surface datum, Oct. 13, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.89	11.88	11.58	11.96	11.23	11.45	11.50	10.96	9.55	10.05	9.55	11.09
10	12.04	11.69	11.70	11.95	11.17	11.60	11.51	10.56	9.64	10.42	9.90	11.19
15	12.05	11.57	11.71	12.01	11.30	11.49	11.45	10.09	9.74	10.76	10.31	11.23
20	12.06	11.49	11.73	11.59	11.39	11.43	11.47	10.06	9.50	9.59	10.70	11.44
25	12.21	11.53	11.80	11.23	11.52	11.42	11.07	10.13	9.50	9.21	10.60	11.41
EOM	12.20	11.52	11.84	11.17	11.57	11.46	10.94	9.59	9.72	9.35	10.90	11.42

WTR YR 1996 HIGH 9.21 JUL 24

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.93	11.93	11.64	12.00	11.27	11.54	11.55	11.00	9.60	10.09	9.60	11.13
10	12.07	11.74	11.72	12.00	11.21	11.63	11.52	10.76	9.65	10.53	9.93	11.20
15	12.08	11.60	11.74	12.09	11.36	11.51	11.54	10.17	9.79	10.80	10.45	11.24
20	12.12	11.54	11.74	11.70	11.42	11.49	11.54	10.07	9.53	9.74	10.80	11.46
25	12.22	11.57	11.81	11.29	11.53	11.54	11.22	10.19	9.56	9.23	10.62	11.45
EOM	12.23	11.60	11.89	11.17	11.58	11.49	10.96	9.63	9.77	9.36	10.93	11.43

WTR YR 1996 LOW 12.25 OCT 30

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, and 1.0 mi northwest of Rigdon.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 35 ft, cased to 20 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 880 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.10 ft 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, 1.16 ft below land-surface datum, Mar. 21, 1984; lowest, 10.66 ft below land-surface datum, Oct. 29, 1966.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.33	8.14	8.06	8.41	4.38	3.26	3.08	1.90	2.91	4.07	4.42	6.25
10	7.68	7.89	8.32	8.17	4.35	3.54	3.53	1.59	2.25	4.48	4.68	6.55
15	7.70	8.02	8.28	8.24	4.47	3.36	3.62	2.22	2.80	4.56	4.95	6.71
20	7.70	7.95	8.22	4.36	4.67	3.19	3.66	2.81	2.85	2.96	5.34	6.91
25	7.99	8.00	8.28	3.41	4.41	2.21	2.04	2.85	3.41	3.48	5.64	7.13
EOM	8.08	7.92	8.22	3.78	3.30	2.90	1.58	2.32	3.84	4.02	5.96	7.04

WTR YR 1996 HIGH 1.57 MAY 11

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.58	8.23	8.25	8.46	4.50	3.73	3.23	2.06	3.11	4.41	4.74	6.56
10	7.88	7.99	8.35	8.30	4.50	3.68	3.57	1.85	2.40	4.91	5.02	6.90
15	7.91	8.05	8.36	8.42	4.62	3.53	3.78	2.29	3.14	4.92	5.33	7.08
20	7.94	8.00	8.31	4.50	4.76	3.23	3.81	3.18	3.02	3.37	5.57	7.25
25	8.25	8.12	8.36	3.53	4.59	2.48	2.13	3.30	3.68	3.68	5.95	7.39
EOM	8.37	8.17	8.35	3.97	3.34	3.00	1.62	2.57	4.26	4.38	6.30	7.20

WTR YR 1996 LOW 8.59 DEC 29

GRANT COUNTY

403836085374401. Local number, GT 10.
LOCATION.--Lat 40°38'36", long 85°37'44", in NE¼SE¼SW¼ sec.4, T.25 N., R.8 E., Grant County, Hydrologic Unit 05120103, 0.20 mi north of intersection of State Highway 9 and County Road 600 North on west side of road.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 198 ft, cased to 193 ft, screened to 198 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 912.16 ft above sea level. Measuring point: Top of casing, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--August 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 107.39 ft below land-surface datum, Apr. 6, 1988; lowest, 123.31 ft below land-surface datum, January 5, 6, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	121.98	122.70	122.34	123.07	121.34	119.89	121.47	122.51	121.29	120.48	122.22	122.08
10	122.47	122.03	122.90	122.90	119.53	122.70	121.95	122.63	120.65	120.92	121.62	122.15
15	122.23	122.51	122.80	121.67	119.81	122.15	121.93	120.98	120.89	121.75	121.51	122.04
20	122.07	122.47	122.69	122.79	120.06	121.00	122.26	119.95	120.60	122.18	120.26	120.32
25	122.45	122.62	122.73	122.65	121.75	120.11	121.96	120.90	119.88	121.00	121.02	119.92
EOM	122.54	122.19	122.62	121.88	122.06	119.41	122.14	121.04	119.82	121.36	120.88	120.56

WTR YR 1996 HIGH 119.34 JUL 2

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	122.36	122.89	122.72	123.31	122.13	120.73	121.72	122.65	121.57	120.99	122.30	122.16
10	122.57	122.32	122.96	123.14	119.96	122.84	122.06	122.71	121.75	121.52	122.38	122.29
15	122.35	122.59	122.89	122.56	119.87	122.34	122.23	122.03	121.90	121.92	121.81	122.17
20	122.27	122.61	122.80	122.91	120.89	121.74	122.72	120.79	121.34	122.28	121.21	120.74
25	122.62	122.81	122.84	122.86	121.81	120.60	122.36	122.19	119.99	122.08	122.00	120.81
EOM	122.64	122.66	122.83	122.92	122.15	119.53	122.45	121.71	119.97	122.16	121.45	120.83

WTR YR 1996 LOW 123.31 JAN 5

HAMILTON COUNTY

400000086023001. Local number, HA 5.
LOCATION.--Lat 40°00'00", long 86°02'30", in NE¼NE¼NW¼ sec.23, T.18 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, on south side of 146th Street, 1.0 mi west of White River, 1.2 mi west of Allisonville Road, and 3.5 mi southwest of Noblesville.
Owner: Earlham College.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 86 ft, cased to 82 ft, screened to 86 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 757.69 ft above sea level. Measuring point: Top of floor of shelter, 2.76 ft 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, 7.39 ft below land-surface datum, Dec. 31, 1991; lowest, 12.53 ft below land-surface datum, Jan. 15, and 16, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.27	12.39	12.41	12.48	11.47	11.37	11.05	9.82	9.59	9.84	10.55	11.51
10	12.29	12.37	12.44	12.50	11.51	11.30	11.00	8.80	9.61	10.03	10.70	11.65
15	12.31	12.23	12.46	12.52	11.57	11.27	11.01	8.92	9.74	10.19	10.86	11.77
20	12.34	12.29	12.40	11.85	11.65	11.26	11.06	9.18	9.84	10.28	11.01	11.85
25	12.36	12.34	12.45	11.60	11.70	11.22	10.86	9.49	9.42	10.25	11.16	11.91
EOM	12.39	12.38	12.49	11.47	11.44	11.20	10.39	9.38	9.64	10.41	11.36	11.77

WTR YR 1996 HIGH 8.79 MAY 11

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.28	12.39	12.41	12.49	11.48	11.39	11.06	10.03	9.63	9.88	10.58	11.54
10	12.30	12.38	12.44	12.51	11.52	11.30	11.01	8.88	9.65	10.07	10.74	11.67
15	12.32	12.24	12.47	12.53	11.60	11.27	11.02	9.09	9.76	10.22	10.89	11.80
20	12.35	12.29	12.41	11.92	11.66	11.27	11.09	9.25	9.86	10.31	11.04	11.87
25	12.37	12.35	12.47	11.64	11.71	11.23	10.89	9.52	9.43	10.29	11.19	11.93
EOM	12.39	12.39	12.49	11.48	11.46	11.21	10.54	9.44	9.69	10.44	11.39	11.80

WTR YR 1996 LOW 12.53 JAN 15

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 right-of-way, 2.0 mi southeast of Palmyra.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Mississippian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 93 ft, cased to 54 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 827 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.10 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.56 ft below land-surface datum, June 7, 1990, and April 29, 1996; lowest, 20.29 ft below land-surface datum, Dec. 17, 1992.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.99	17.32	18.26	---	5.63	5.36	3.20	1.59	3.76	6.18	8.26	12.20
10	15.41	17.60	18.51	---	6.23	5.30	4.42	1.48	1.74	7.28	9.05	12.71
15	15.83	17.40	18.44	---	6.80	5.81	4.90	2.10	3.14	7.68	9.48	13.23
20	16.24	17.61	13.11	---	7.43	4.03	2.26	3.39	3.87	8.06	10.27	12.72
25	16.63	17.83	12.10	---	6.46	1.32	2.16	4.63	3.84	6.33	10.89	12.13
EOM	17.04	18.04	11.99	---	4.58	2.60	.57	2.60	5.06	7.15	11.61	8.68

WTR YR 1996 HIGH .56 APR 29

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.06	17.38	18.33	---	5.81	5.45	3.43	2.20	3.99	6.44	8.47	12.31
10	15.50	17.64	18.55	---	6.33	5.47	4.56	2.18	2.26	7.55	9.19	12.82
15	15.92	17.43	18.68	---	7.02	5.91	5.19	2.61	3.49	7.98	9.64	13.33
20	16.30	17.66	13.81	---	7.58	4.72	5.32	3.63	4.17	8.17	10.42	12.77
25	16.70	17.86	12.17	---	6.59	1.87	2.58	4.75	4.10	6.62	11.02	12.14
EOM	17.10	18.06	12.09	---	4.71	2.95	1.43	3.06	5.28	7.38	11.72	9.02

WTR YR 1996 LOW 18.68 DEC 15

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, and 1.0 mi south of Coatesville.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Mississippian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 85 ft, cased to 70 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 860 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 1.92 ft 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 below land-surface datum, Jan. 30, 1976; lowest, 29.02 ft below land-surface datum, Nov. 30, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.26	26.01	25.93	25.20	22.05	21.60	20.59	20.14	20.83	21.71	22.95	24.34
10	25.51	25.82	26.06	24.89	22.28	21.36	21.01	19.94	20.82	21.91	23.23	24.44
15	25.60	25.71	26.06	24.90	22.20	21.19	21.40	20.16	20.61	22.27	23.47	24.64
20	25.71	25.67	25.81	23.48	22.22	20.83	21.41	20.45	20.70	22.53	23.74	24.52
25	25.82	25.86	25.53	22.30	22.31	20.80	20.54	21.05	20.90	22.58	23.91	24.47
EOM	25.97	25.81	25.38	21.79	21.99	20.65	20.13	20.57	21.31	22.72	24.12	24.22

WTR YR 1996 HIGH 19.94 MAY 10

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.33	26.13	26.03	25.29	22.12	21.77	20.77	20.19	20.97	21.84	23.00	24.38
10	25.68	25.95	26.08	24.97	22.41	21.47	21.05	20.05	20.96	22.06	23.32	24.55
15	25.63	25.77	26.14	24.97	22.25	21.25	21.50	20.27	20.68	22.32	23.56	24.73
20	25.84	25.82	25.93	23.82	22.27	20.88	21.62	20.58	20.77	22.64	23.79	24.57
25	25.91	26.00	25.70	22.52	22.39	20.89	20.71	21.16	21.01	22.67	23.98	24.54
EOM	26.14	25.91	25.49	21.83	22.16	20.74	20.19	20.63	21.46	22.81	24.21	24.28

WTR YR 1996 LOW 26.23 DEC 17

HUNTINGTON COUNTY

404858085284301. Local number, HU 2.
LOCATION.--Lat 40°48'58", long 85°28'43", in SW¼SW¼SE¼ sec. 2, T.27N., R.9E., Huntington County, Hydrologic Unit 05120101, on the property of Luther Fusselman, 3.0 mi south of Huntington and 0.5 mi west of State Highway 5.
AQUIFER.--Sand and gravel of the Pleistocene Epoch.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 148 ft, cased to 143 ft, screened to 148 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 819.70 ft above sea level. Measuring point: Top of casing, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.46 ft below land-surface datum, Dec. 24, 1988; lowest, 73.78 ft below land-surface datum, Sept. 3, 1994.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.57	70.76	70.03	70.31	70.82	70.22	70.45	70.92	70.52	70.47	70.21	70.46
10	71.14	70.24	70.50	70.38	69.91	71.01	70.19	70.64	70.37	70.47	70.44	70.42
15	70.77	70.69	70.30	70.61	70.16	70.18	69.72	70.72	70.44	70.22	70.36	69.99
20	70.44	70.69	70.07	70.66	70.22	69.85	69.97	70.20	70.38	70.45	70.43	70.14
25	70.71	70.52	70.16	70.27	70.34	70.05	70.00	70.72	70.64	70.32	70.34	70.29
EOM	70.73	69.97	69.80	70.58	70.49	70.14	70.31	70.88	70.58	70.20	70.48	70.49

WTR YR 1996 HIGH 69.58 JAN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.01	71.01	70.46	70.56	71.04	70.41	70.61	71.12	70.68	70.58	70.31	70.55
10	71.26	70.52	70.56	70.71	70.37	71.16	70.33	70.83	70.50	70.70	70.59	70.50
15	71.01	70.87	70.40	70.96	70.50	70.41	70.11	70.98	70.61	70.55	70.56	70.06
20	70.73	70.83	70.23	70.79	70.34	70.29	70.52	70.39	70.58	70.62	70.64	70.36
25	71.05	70.80	70.28	70.60	70.58	70.62	70.38	70.99	70.96	70.43	70.55	70.49
EOM	70.95	70.55	70.08	70.70	70.75	70.43	70.66	70.98	70.84	70.31	70.61	70.66

WTR YR 1996 LOW 71.33 OCT 12

JASPER COUNTY

410249087011201. Local number, JP 4.
LOCATION.--Lat 41°02'49", long 87°01'12", in SW¼NE¼SW¼ sec.17, T.30 N., R.5 W., Jasper County, Hydrologic Unit 07120002, on property of William Gehring, Inc., 0.9 mi east of Newland.
Owner: William Gehring, Inc.

AQUIFER.--Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 16 in., depth 300 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 676.93 ft above sea level. Measuring point: Top of floor of shelter, 0.00 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--July 1956 to current year.

REVISED RECORDS.--WDR IN-94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.95 ft below land-surface datum, Apr. 9, 1962; lowest, 40.17 ft below land-surface datum, July 25, 1980.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.25	5.27	4.46	4.61	4.44	4.26	4.68	4.13	2.92	2.68	2.85	3.56
10	5.49	4.89	4.64	4.48	4.14	4.66	4.54	3.89	2.73	5.95	2.81	3.57
15	5.32	4.93	4.57	4.55	4.33	4.26	4.33	3.67	2.68	6.93	3.39	3.52
20	5.18	4.73	4.42	4.50	4.32	4.32	4.32	3.45	2.23	5.61	3.38	3.60
25	5.33	4.68	4.40	4.37	4.44	4.27	4.08	3.47	2.36	4.07	3.48	3.78
EOM	5.31	4.47	4.27	4.46	4.55	4.41	4.07	3.15	2.36	3.13	3.55	3.87

WTR YR 1996 HIGH 2.15 JUN 21

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.45	5.49	4.80	4.75	4.65	4.43	4.84	4.29	3.09	2.95	2.95	3.66
10	5.58	5.08	4.75	4.55	4.30	4.76	4.62	4.00	2.89	6.73	2.96	3.72
15	5.39	5.02	4.64	4.69	4.57	4.46	4.54	3.84	2.83	7.39	3.54	3.61
20	5.29	4.87	4.56	4.73	4.47	4.53	4.60	3.54	2.34	6.12	3.46	3.73
25	5.57	4.89	4.51	4.61	4.54	4.70	4.28	3.64	2.43	4.22	3.67	3.92
EOM	5.43	4.76	4.39	4.56	4.68	4.64	4.20	3.36	2.58	3.32	3.68	3.99

WTR YR 1996 LOW 7.95 JUL 13

JASPER COUNTY

410809087580801. Local number, JP 7.
LOCATION.--Lat 41°08'10", long 86°58'08", in SE¼SE¼NE¼ sec.15, T.31 N., R.5 W., Jasper County, Hydrologic Unit 07120002, in northwest corner of intersection of County Roads 850 North and 400 East, 4.0 mi south of Tefft.
Owner: U.S. Geological Survey.

AQUIFER.--Dolomite of Middle Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 130 ft, cased to 94 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 699.38 ft above sea level. Measuring point: Top of floor of shelter, 2.75 ft 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, 6.04 ft below land-surface datum, Apr. 5, 1985; lowest, 18.15 ft below land-surface datum, Aug. 30, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.07	9.67	8.64	8.88	8.72	8.22	8.43	8.09	7.57	7.69	8.37	8.16
10	10.28	9.10	8.93	8.69	8.23	8.76	8.28	7.93	7.43	9.09	8.08	8.15
15	10.05	9.16	8.82	8.79	8.42	8.11	7.99	7.84	7.51	10.60	7.86	8.05
20	9.76	8.92	8.63	8.74	8.39	8.03	7.93	7.69	7.39	10.64	7.92	8.10
25	9.85	8.90	8.64	8.57	8.54	7.95	7.75	7.87	7.55	9.57	8.26	8.23
EOM	9.75	8.60	8.49	8.66	8.59	8.15	7.82	7.71	7.51	8.67	8.16	8.26

WTR YR 1996 HIGH 7.27 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.31	9.93	9.04	9.06	8.95	8.44	8.60	8.25	7.75	7.79	8.46	8.26
10	10.43	9.37	9.04	8.82	8.44	8.86	8.38	8.06	7.57	9.59	8.22	8.31
15	10.12	9.27	8.91	8.97	8.69	8.34	8.23	8.03	7.67	10.97	8.00	8.15
20	9.93	9.12	8.81	8.97	8.54	8.26	8.28	7.80	7.52	10.86	8.03	8.26
25	10.14	9.13	8.75	8.84	8.64	8.46	8.00	8.05	7.72	9.70	8.46	8.39
EOM	9.89	8.97	8.68	8.78	8.75	8.40	7.99	7.93	7.76	8.82	8.31	8.38

WTR YR 1996 LOW 11.50 JUL 17

JASPER COUNTY

410535087035801. Local number, JP 8.
LOCATION.--Lat 41°05'35", long 87°03'58", in NE¼NE¼SE¼ sec.35, T.31 N., R.6 W., Jasper County, Hydrologic Unit 07120002, 1.7 mi north of Gifford.
Owner: William Gehring, Inc.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 12 in., depth 310 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 686 ft above sea level, from topographic map. Measuring point: Lower lip of 2 in. tapedown pipe, 2.10 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

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, 8.51 ft below land-surface datum, Oct. 20, 1993; lowest, 25.11 ft below land-surface datum, July 26, 1980.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.56	12.38	11.72	11.84	11.97	11.76	11.82	11.43	10.30	10.44	---	---
10	12.63	12.15	11.82	11.83	11.80	11.91	11.83	11.28	10.16	11.13	---	---
15	12.57	11.97	11.78	11.85	11.86	11.70	11.76	11.22	10.06	11.77	---	11.31
20	12.49	11.83	11.70	11.82	11.88	11.65	11.70	11.04	9.84	11.16	---	11.31
25	12.56	11.81	11.74	11.77	11.97	11.64	11.50	10.99	10.06	10.44	---	11.41
EOM	12.45	11.71	11.72	11.87	11.86	11.71	11.43	10.48	10.24	---	---	11.36

WTR YR 1996 HIGH 9.81 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.65	12.43	11.83	11.91	12.02	11.85	11.85	11.49	10.36	10.59	---	---
10	12.68	12.31	11.84	11.87	11.87	11.94	11.87	11.34	10.18	11.25	---	---
15	12.59	12.02	11.79	11.91	11.94	11.76	11.84	11.28	10.09	11.88	---	11.31
20	12.56	11.90	11.76	11.86	11.92	11.74	11.80	11.08	9.89	11.22	---	11.31
25	12.61	11.88	11.76	11.84	12.01	11.79	11.61	11.06	10.14	10.47	---	11.41
EOM	12.52	11.82	11.78	11.92	11.93	11.77	11.47	10.58	10.28	---	---	11.42

WTR YR 1996 LOW 12.73 OCT 2

JASPER COUNTY

410713087063201. Local number, JP 9.
LOCATION.--Lat 41°07'13", long 87°06'32", in NE¼NW¼SE¼ sec.21, T.31 N., R.6 W., Jasper County, Hydrologic Unit 07120002, 4.4 mi northwest of Gifford.
Owner: William Gehring, Inc.

AQUIFER.--Silurian limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 18 in., depth 260 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 685 ft above sea level, from topographic map. Measuring point: Lower lip of 2 in. tapedown pipe, 2.10 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--July 1978 to current year. Record prior to October 1, 1978 available in District files.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.03 ft below land-surface datum, Mar. 27, 1991; lowest, 32.05 ft below land-surface datum, Aug. 5, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.76	6.72	6.85	7.03	6.81	6.72	6.38	5.31	9.82	---	---
10	---	7.28	6.82	6.78	6.79	7.01	6.78	6.19	5.10	16.33	---	---
15	---	7.17	6.72	6.86	6.88	6.68	6.65	6.06	5.05	19.17	---	---
20	7.84	6.94	6.70	6.91	6.93	6.60	6.62	5.83	4.92	12.71	---	---
25	7.92	6.87	6.76	6.88	7.06	6.58	6.37	5.97	5.07	8.72	---	---
EOM	7.85	6.70	6.70	6.97	7.07	6.69	6.34	5.61	5.25	---	---	---

WTR YR 1996 HIGH 4.90 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.84	6.82	6.97	7.10	6.96	6.82	6.43	5.34	12.74	---	---
10	---	7.50	6.85	6.88	6.86	7.06	6.79	6.24	5.16	17.42	---	---
15	---	7.24	6.78	6.99	6.96	6.71	6.76	6.16	5.10	20.61	---	---
20	7.95	7.03	6.74	6.97	6.95	6.65	6.72	5.88	4.96	14.15	---	---
25	7.94	6.95	6.76	6.93	7.07	6.71	6.60	5.98	5.19	9.16	---	---
EOM	7.91	6.87	6.81	6.98	7.09	6.72	6.37	5.64	5.28	---	---	---

WTR YR 1996 LOW 20.78 JUL 14

JASPER COUNTY

410322087163101. Local number, JP 11.
LOCATION.--Lat 41°03'22", long 87°16'31", in NW¼NW¼NW¼ sec.18, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, on Prudential Life Insurance Company of America property, 3.2 mi north of State Highway 14, and 1.5 mi southwest of Fair Oaks.
Owner: Prudential Insurance Company of America.

AQUIFER.--Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 16 in., depth 630 ft, cased to 63 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 697.50 ft above sea level. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.04 ft above land-surface datum, Apr. 3, 1982; lowest, 52.19 ft below land-surface datum, July 9, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.83	6.94	5.22	4.79	4.33	3.84	3.76	---	---	---	9.27	31.95
10	9.14	6.32	5.26	4.61	4.00	4.11	3.66	---	---	---	11.96	21.49
15	8.55	6.07	5.05	4.60	4.11	3.72	3.52	---	---	---	9.27	15.87
20	8.00	5.74	4.89	4.56	4.07	3.69	3.50	---	---	---	11.72	23.33
25	7.74	5.61	4.83	4.59	4.13	3.61	---	---	---	---	14.89	14.18
EOM	7.29	5.29	4.64	4.38	4.09	3.66	---	---	---	11.01	31.91	11.65

WTR YR 1996 HIGH 3.41 APR 24

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.83	7.09	5.38	4.88	4.44	3.97	3.81	---	---	---	9.62	32.19
10	9.23	6.54	5.30	4.67	4.10	4.14	3.71	---	---	---	13.02	23.35
15	8.82	6.15	5.06	4.70	4.22	3.78	3.65	---	---	---	9.70	16.66
20	8.16	5.84	4.94	4.63	4.12	3.78	3.69	---	---	---	12.22	25.18
25	7.90	5.70	4.86	4.89	4.17	3.78	---	---	---	---	16.70	15.09
EOM	7.45	5.52	4.74	4.44	4.16	3.76	---	---	---	11.62	34.13	12.02

WTR YR 1996 LOW 34.13 AUG 31

JASPER COUNTY

410145087130401. Local number, JP 12.
LOCATION.--Lat 41°01'45", long 87°13'04", in NW¼SW¼SW¼ sec.22, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, in Old Union Township school yard, 200 ft east of County Road 900 West, 750 ft north of State Highway 14, and in Parr.
Owner: Prudential Insurance Company of America.

AQUIFER.--Limestone/dolomite of Silurian/Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 5 in., depth 150 ft, cased to 103 ft, open end.

INSTRUMENTATION.--Water-level recorder, data-collection platform, and incremental encoder.

DATUM.--Elevation of land-surface datum is 692.9 ft above sea level. Measuring point: Top of well casing, 2.6 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--May 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.08 ft below land-surface datum, May 22, 1983; lowest, 53.41 ft below land-surface datum, Aug. 18, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.33	22.34	20.18	19.37	18.82	18.22	17.98	17.77	16.65	20.65	25.29	35.33
10	24.69	21.60	20.18	19.19	18.38	18.55	---	17.53	16.41	27.87	24.46	34.55
15	23.89	21.46	19.91	19.11	18.46	18.00	17.61	17.42	16.45	38.75	23.65	30.97
20	23.65	21.06	19.63	19.01	18.38	17.90	17.61	17.33	16.31	35.44	25.43	34.65
25	23.27	20.77	19.51	18.93	18.52	17.84	17.41	17.25	16.31	30.84	27.10	31.01
EOM	22.68	20.37	19.25	18.88	18.49	17.84	17.42	16.88	18.36	27.19	30.55	28.40

WTR YR 1996 HIGH 16.18 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.71	22.55	20.85	19.72	19.31	18.57	18.23	18.11	17.34	21.88	25.69	37.52
10	24.85	21.91	20.44	19.35	18.71	18.79	---	17.67	16.94	30.84	24.72	35.65
15	24.06	22.21	20.01	19.30	18.70	18.27	18.05	17.82	17.03	40.97	24.09	31.51
20	23.81	21.41	19.85	19.31	18.60	18.36	17.92	17.73	16.63	36.80	25.83	36.79
25	23.56	21.00	19.73	19.15	18.77	18.17	17.69	17.48	16.66	31.53	27.81	31.85
EOM	22.96	20.70	19.72	19.10	18.77	18.29	17.74	17.63	19.04	27.83	31.81	28.83

WTR YR 1996 LOW 42.03 JUL 16

JASPER COUNTY

405902087141501. Local number, JP 13.
LOCATION.--Lat 40°59'02", long 87°14'15", in NW¼NW¼NW¼ sec.9, T.29 N., R.7 W., Jasper County, Hydrologic Unit 07120002, at southwest corner of North Newton school, and 4.6 mi northwest of Rensselaer.
Owner: Prudential Insurance Company of America.

AQUIFER.--Dolomite of Silurian/Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 5 in., depth 150 ft, cased to 106 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 700 ft above sea level, from topographic map. Measuring point: Top of well casing, 3.4 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.98 ft below land-surface datum, Apr. 3, 1982; lowest, 55.85 ft below land-surface datum, Aug. 19, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.18	31.40	29.06	27.99	27.14	26.45	26.21	25.72	24.94	27.45	34.73	40.46
10	34.57	30.64	29.00	27.71	26.70	26.74	26.05	25.52	24.80	32.83	33.83	40.88
15	33.74	30.50	28.68	27.66	26.75	26.25	25.81	25.41	24.80	38.27	33.03	39.20
20	32.93	30.06	28.36	27.49	26.67	26.14	25.74	25.26	24.61	40.67	34.63	38.41
25	32.50	29.78	28.20	27.26	26.70	26.01	25.55	25.33	24.64	38.80	35.89	38.36
EOM	31.82	29.29	27.87	27.24	26.73	26.06	25.58	25.14	24.78	36.35	37.19	36.90

WTR YR 1996 HIGH 24.57 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.51	31.62	29.33	28.09	27.32	26.59	26.34	25.82	25.02	28.47	35.01	40.56
10	34.74	30.91	29.10	27.78	26.82	26.82	26.12	25.58	24.85	33.81	33.97	41.07
15	33.83	30.57	28.73	27.76	26.92	26.39	25.97	25.53	24.84	39.40	33.19	39.55
20	33.14	30.22	28.49	27.67	26.75	26.29	25.98	25.30	24.66	40.81	34.70	38.53
25	32.74	29.94	28.27	27.46	26.78	26.39	25.72	25.41	24.73	39.16	35.97	38.63
EOM	32.00	29.58	28.02	27.35	26.85	26.28	25.69	25.27	24.97	36.74	37.89	37.18

WTR YR 1996 LOW 41.07 SEP 9

JASPER COUNTY

410839087130301. Local number, JP 14.
LOCATION.--Lat 41°08'39", long 87°13'03", in NW¼NW¼NW¼ sec.15, T.31 N., R.7 W., Jasper County, Hydrologic Unit 07120001, at the southeast corner of the intersection of State Highway 10 and County Road 900 West, about 3.5 mi southwest of Demotte.
Owner: U.S. Geological Survey

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 97.4 ft, cased to 56 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 690 ft above sea level, from topographic map. Measuring point: Top of casing, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.06 ft below land-surface datum, Oct. 17, 1993; lowest, 8.80 ft below land-surface datum, July 13, 1989.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.46	7.44	6.82	7.26	7.12	6.98	7.15	6.20	5.32	5.73	5.53	6.78
10	7.62	7.02	7.00	7.18	7.02	7.06	7.13	5.59	5.10	6.17	5.28	6.92
15	7.63	6.66	7.00	7.20	7.23	7.05	7.04	---	5.18	6.57	5.70	6.94
20	7.53	6.66	7.02	7.23	7.19	7.07	7.09	---	5.22	5.40	6.01	6.96
25	7.60	6.66	7.04	7.13	7.28	7.08	6.27	5.26	5.52	5.35	6.21	7.03
EOM	7.59	6.70	7.01	7.18	7.23	---	6.17	4.89	5.47	5.06	6.51	7.05

WTR YR 1996 HIGH 4.27 MAY 29

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.55	7.59	7.04	7.29	7.22	7.19	7.24	6.28	5.41	5.79	5.60	6.83
10	7.64	7.37	7.03	7.25	7.16	7.15	7.18	5.97	5.24	6.27	5.38	6.95
15	7.65	6.70	7.02	7.34	7.28	7.11	7.21	---	5.31	6.73	5.81	6.97
20	7.58	6.71	7.06	7.35	7.24	7.10	7.29	---	5.32	5.63	6.06	6.98
25	7.72	6.77	7.10	7.32	7.35	7.22	6.34	5.32	5.58	5.58	6.27	7.07
EOM	7.63	6.85	7.06	7.22	7.32	---	6.22	5.10	5.56	5.20	6.56	7.09

WTR YR 1996 LOW 7.75 OCT 28

JEFFERSON COUNTY

384949085251901. Local number, JF 5.
LOCATION.--Lat 38°49'49", long 85°25'19", in SE¼NW¼SW¼ sec.33, T.5 N., R.10 E., Jefferson County, Hydrologic Unit 05120207, on Jefferson Proving Ground, 500 ft north of Airfield Road, 1,000 ft southwest of the water tower, and 2.2 mi west of main gate.
Owner: U.S. Army

AQUIFER.--Limestone, dolomite, and shale of Silurian and Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 5 in., depth 200 ft, cased to 33 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 855 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

REMARKS.--This well was drilled on a mapped fracture trace.

PERIOD OF RECORD.--March 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.97 ft below land-surface datum, Jan. 21, 1991; lowest, 9.22 below land-surface datum, Sept. 7, 16, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.92	7.02	5.90	4.67	---	4.27	4.43	4.40	4.86	5.59	5.43	6.78
10	7.14	6.65	6.09	4.54	4.33	4.73	4.47	---	4.69	5.70	5.67	6.92
15	6.99	6.56	5.95	4.52	4.56	4.28	4.36	---	4.68	5.45	5.91	6.87
20	6.80	6.28	5.56	4.11	4.60	4.26	4.47	---	4.84	5.35	6.20	6.72
25	7.05	6.15	5.35	4.31	4.66	4.25	4.33	---	5.14	---	6.38	6.52
EOM	7.04	5.95	4.90	4.28	4.67	4.23	4.39	4.82	5.37	5.22	6.63	6.24

WTR YR 1996 HIGH 4.11 JAN 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.21	7.24	6.21	4.85	---	4.57	4.61	4.49	5.01	5.72	5.50	6.86
10	7.25	6.89	6.20	4.88	4.45	4.83	4.51	---	4.83	5.83	5.75	7.02
15	7.04	6.61	6.00	4.71	4.75	4.48	4.60	---	4.85	5.65	6.02	6.93
20	6.99	6.44	5.78	4.58	4.72	4.44	4.64	---	4.97	5.46	6.24	6.78
25	7.23	6.35	5.40	4.44	4.78	4.57	4.51	---	5.31	---	6.49	6.65
EOM	7.15	6.18	5.10	4.39	4.86	4.34	4.54	5.00	5.55	5.34	6.66	6.38

WTR YR 1996 LOW 7.34 OCT 7

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 west of State Highway 3, 1.6 mi south of Crosley Fish and Game Office and 3.0 mi south of Vernon.
Owner: U.S. Geological Survey.

AQUIFER.--Limestones and dolomites of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 180 ft, cased to 45 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 718 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.64 ft below land-surface datum, Jan. 21, 1979; lowest, 40.87 ft below land-surface datum, July 6, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.20	39.31	39.15	38.86	38.96	38.65	38.42	38.16	38.67	39.29	39.52	39.66
10	39.41	38.93	39.46	38.73	38.66	39.04	38.62	38.17	38.22	39.03	39.61	39.70
15	39.31	38.98	39.20	38.78	38.73	38.56	38.55	38.14	38.39	38.97	39.67	39.70
20	39.23	38.99	38.64	38.71	38.83	38.51	38.60	38.29	38.42	39.08	39.81	39.41
25	39.38	39.07	38.78	38.57	38.95	38.32	38.14	38.82	38.75	39.27	39.76	39.42
EOM	39.44	39.08	38.72	38.71	38.93	38.32	38.02	38.65	39.10	39.36	39.63	39.19

WTR YR 1996 HIGH 38.02 APR 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.49	39.42	39.33	38.97	39.09	38.90	38.56	38.24	38.77	39.34	39.57	39.69
10	39.44	39.07	39.49	38.87	38.80	39.10	38.66	38.25	38.25	39.15	39.65	39.76
15	39.38	39.02	39.25	38.93	38.87	38.67	38.68	38.26	38.43	39.11	39.70	39.74
20	39.37	39.05	38.74	38.77	38.90	38.63	38.67	38.32	38.52	39.17	39.84	39.49
25	39.45	39.18	38.83	38.68	39.04	38.55	38.37	38.89	38.94	39.33	39.83	39.47
EOM	39.50	39.27	38.88	38.78	39.05	38.39	38.12	38.69	39.14	39.41	39.67	39.22

WTR YR 1996 LOW 39.85 AUG 24

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 south of Vincennes.
Owner: Michael J. Kelley.

AQUIFER.--Sand and gravel Quaternary age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 43 ft, cased to 16 ft, slotted to 19 ft, open end.

INSTRUMENTATION.--Water-level recorder. Prior to April 1968, hand-taped monthly.

DATUM.--Elevation of land-surface datum is 405 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.42 ft 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, 2.57 ft below land-surface datum, May 3, 1983; lowest, 11.35 ft below land-surface datum, Feb. 1-13, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.41	10.58	10.47	9.87	8.82	9.70	8.65	3.35	6.56	8.33	9.31	10.10
10	10.46	10.58	10.52	9.89	9.10	9.83	9.06	3.11	3.59	8.73	9.56	10.05
15	10.48	10.33	10.54	9.93	9.32	9.81	9.24	3.00	5.06	8.70	9.72	10.12
20	10.51	10.38	10.03	8.64	9.48	9.85	6.39	3.43	5.65	9.02	9.87	10.02
25	10.53	10.42	9.91	7.63	9.62	8.96	5.45	4.43	7.06	8.92	9.97	9.79
EOM	10.56	10.44	9.91	7.97	9.69	8.95	3.38	5.57	7.53	8.96	10.02	9.72

WTR YR 1996 HIGH 2.78 MAY 11

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.42	10.59	10.49	9.89	8.89	9.71	8.69	3.60	6.77	8.43	9.37	10.11
10	10.47	10.60	10.53	9.91	9.16	9.84	9.10	3.30	4.09	8.80	9.59	10.06
15	10.49	10.35	10.54	9.96	9.37	9.85	9.33	3.11	5.45	8.78	9.75	10.12
20	10.51	10.39	10.16	8.69	9.53	9.87	9.25	3.51	6.01	9.04	9.89	10.03
25	10.54	10.43	9.92	7.68	9.64	9.17	5.90	5.04	7.21	8.99	9.98	9.81
EOM	10.57	10.46	9.93	8.18	9.71	9.02	3.67	5.74	7.74	9.07	10.03	9.73

WTR YR 1996 LOW 10.60 NOV 7

KNOX COUNTY

384951087202501. Local number, KN 8.
LOCATION.--Lat 38°49'51", long 87°20'25", in M.D. 240, T.5 N., R.8 W., Knox County, Hydrologic Unit 05120111, on the northwest side of road at the southwest boundary of Chambers Cemetery about 2.5 mi southwest of Freelandville.
Owner: U.S. Geological Survey

AQUIFER.--Interbedded sandstone, shale, and coal of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 137 ft, cased to 41 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 460 ft above sea level, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.86 ft below land-surface datum, Jan. 28, 1994; lowest, 15.32 ft below land-surface datum, Oct. 19, 1991.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.04	14.52	14.47	14.13	13.44	13.15	13.04	12.59	12.60	12.83	13.51	14.29
10	14.26	14.38	14.64	14.02	13.26	13.39	13.07	12.49	12.46	12.93	13.68	14.36
15	14.28	14.37	14.57	14.01	13.27	13.15	12.94	12.45	12.54	12.99	13.82	14.47
20	14.30	14.37	14.35	13.78	13.26	13.07	12.88	12.47	12.52	13.12	13.94	14.51
25	14.42	14.42	14.22	13.46	13.33	12.99	12.64	12.62	12.64	13.22	14.04	14.54
EOM	14.49	14.41	14.09	13.43	13.34	12.95	12.55	12.57	12.75	13.35	14.19	14.54

WTR YR 1996 HIGH 12.44 MAY 28

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.10	14.58	14.57	14.19	13.55	13.28	13.12	12.61	12.64	12.86	13.55	14.33
10	14.29	14.45	14.67	14.10	13.32	13.43	13.09	12.52	12.48	13.02	13.72	14.42
15	14.32	14.38	14.61	14.11	13.32	13.20	13.01	12.52	12.57	13.05	13.85	14.50
20	14.35	14.41	14.39	13.85	13.30	13.11	12.93	12.50	12.57	13.16	13.98	14.54
25	14.47	14.49	14.23	13.56	13.38	13.11	12.74	12.65	12.71	13.26	14.07	14.57
EOM	14.51	14.50	14.19	13.45	13.37	13.00	12.59	12.61	12.79	13.41	14.22	14.57

WTR YR 1996 LOW 14.67 DEC 10

KOSCIUSKO COUNTY

412556085513401. Local number, KO 9.
LOCATION.--Lat 41°25'56", long 85°51'34", in SW¼NE¼NW¼ sec.5, T.34 N., R.6 E., Kosciusko County, Hydrologic Unit 04050001, on the north edge of property owned by the Dome Pipeline Corporation, on County Road 50 West, 1.5 mi northwest of Milford.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in., depth 102 ft, cased to 99 ft, screened to 102 ft.

INSTRUMENTATION.--Water-stage recorder.

DATUM.--Elevation of land-surface datum is 830.90 ft above sea level. Measuring point: Top of floor of shelter, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.24 ft below land-surface datum, Apr. 8, 9, 1985; lowest, 14.33 ft below land-surface datum, Aug. 10, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.58	13.85	13.71	13.88	13.96	13.90	13.81	13.09	10.91	9.56	10.78	12.47
10	13.63	13.86	13.71	13.91	13.94	13.87	13.81	12.91	10.07	10.12	11.26	12.52
15	13.67	13.82	13.74	13.94	13.98	13.84	13.80	12.48	9.27	10.72	11.67	12.57
20	13.73	13.78	13.76	13.93	13.99	13.82	13.79	11.73	9.04	10.62	12.01	12.63
25	13.78	13.75	13.80	13.91	14.01	13.81	13.61	11.31	9.06	10.48	12.03	12.68
EOM	13.83	13.72	13.85	13.94	13.97	13.82	13.30	11.08	9.27	10.63	12.24	12.72

WTR YR 1996 HIGH 9.00 JUN 21

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.58	13.85	13.71	13.88	13.97	13.92	13.81	13.13	10.94	9.70	10.86	12.47
10	13.64	13.87	13.72	13.91	13.98	13.87	13.81	12.98	10.62	10.21	11.36	12.53
15	13.68	13.84	13.75	13.94	13.98	13.85	13.80	12.57	9.31	10.82	11.75	12.58
20	13.73	13.79	13.77	13.93	14.01	13.82	13.80	11.89	9.08	10.71	12.02	12.64
25	13.78	13.75	13.81	13.92	14.02	13.82	13.68	11.37	9.11	10.50	12.04	12.69
EOM	13.84	13.73	13.85	13.95	13.99	13.82	13.36	11.12	9.32	10.65	12.32	12.73

WTR YR 1996 LOW 14.02 FEB 23

LAGRANGE COUNTY

414318085200601. Local number, LG 2.
LOCATION.--Lat 41°43'18", long 85°20'06", in SW¼SE¼NE¼ sec.26, T.38 N., R.10 E., Lagrange County, Hydrologic Unit 04050001, on northeast corner of intersection of State Highway 120 and County Road 475 East, and 1.2 mi west of Brighton.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in., depth 86 ft, cased to 80 ft, screened to 86 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 911.02 ft above sea level. Measuring point: Top of floor of shelter, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.00 ft below land-surface datum, July 1, 2, 1993; lowest, 16.93 ft below land-surface datum, Aug. 14, 15, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.18	16.31	16.13	16.13	16.18	16.18	16.32	16.16	14.86	13.57	14.23	15.00
10	16.21	16.33	16.11	16.17	16.07	16.20	16.33	15.80	14.64	13.95	14.58	15.05
15	16.23	16.33	16.10	16.21	16.07	16.19	16.34	15.53	14.54	14.11	14.77	15.01
20	16.25	16.28	16.09	16.11	16.12	16.22	16.35	15.24	13.40	13.95	14.73	15.01
25	16.28	16.22	16.09	16.11	16.13	16.26	16.32	15.09	13.26	14.21	14.56	15.03
EOM	16.30	16.16	16.10	16.14	16.15	16.30	16.25	14.95	13.36	14.20	14.92	15.06

WTR YR 1996 HIGH 13.25 JUN 26

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.18	16.32	16.14	16.14	16.20	16.18	16.32	16.18	14.87	13.62	14.37	15.01
10	16.21	16.33	16.11	16.18	16.09	16.21	16.34	16.07	14.73	13.99	14.66	15.08
15	16.24	16.33	16.10	16.22	16.09	16.20	16.35	15.56	14.55	14.17	14.82	15.02
20	16.25	16.30	16.09	16.11	16.13	16.23	16.36	15.27	13.47	13.97	14.85	15.02
25	16.28	16.23	16.09	16.12	16.14	16.27	16.34	15.12	13.27	14.25	14.58	15.04
EOM	16.31	16.18	16.10	16.15	16.16	16.30	16.27	14.97	13.40	14.23	14.98	15.06

WTR YR 1996 LOW 16.37 APR 21

LAGRANGE COUNTY

414158085253401. Local number, LG 3.
LOCATION.--Lat 41°41'58", long 85°25'34", in SE¼SE¼SE¼ sec.36, T.38 N., R.9 E., Lagrange County, Hydrologic Unit 04050001, at northwest corner of intersection of State Highway 9 and County Road 400 North, at edge of woods, and 1.4 mi south of Howe.
Owner: U.S. Geological Survey.

AQUIFER.--Fine to medium sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 40 ft, cased to 35 ft, screened to 40 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 870 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.7 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.48 ft below land-surface datum, Mar. 21, 1982; lowest, 8.82 ft below land-surface datum, Sept. 2, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.20	8.11	7.73	7.98	7.95	7.82	7.83	6.88	5.88	5.73	6.84	7.42
10	8.23	8.04	7.78	8.01	7.90	7.81	7.85	6.18	5.58	6.05	7.00	7.54
15	8.27	7.78	7.84	8.06	7.95	7.80	7.87	5.62	5.54	6.31	7.15	7.62
20	8.30	7.68	7.85	7.88	8.02	7.80	7.73	5.09	4.46	6.46	6.99	7.69
25	8.33	7.65	7.89	7.86	8.07	7.79	7.09	5.39	4.93	6.63	7.07	7.71
EOM	8.30	7.68	7.94	7.89	7.93	7.81	6.90	5.68	5.35	6.69	7.27	7.75

WTR YR 1996 HIGH 4.46 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.20	8.13	7.74	7.99	7.96	7.84	7.83	6.88	5.92	5.80	6.87	7.45
10	8.24	8.07	7.80	8.02	7.91	7.81	7.86	6.86	5.72	6.11	7.03	7.56
15	8.28	7.83	7.84	8.07	7.97	7.81	7.89	5.66	5.60	6.37	7.18	7.63
20	8.31	7.69	7.86	7.91	8.03	7.80	7.83	5.12	4.52	6.50	7.28	7.70
25	8.33	7.66	7.90	7.86	8.07	7.80	7.21	5.44	5.03	6.67	7.09	7.72
EOM	8.31	7.69	7.95	7.90	7.97	7.81	6.93	5.73	5.43	6.71	7.30	7.76

WTR YR 1996 LOW 8.34 OCT 26

LAKE COUNTY

411038087284701. Local number, LK 12.
LOCATION.--Lat 41°10'38", long 87°28'47", in 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 southwest of Schneider.
Owner: U.S. Geological Survey.

AQUIFER.--Dolomite of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 82 ft, cased to 52 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 630.59 ft above sea level. Measuring point: Top of floor of shelter, 2.55 ft 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 below land-surface datum, Jan. 12, 1973; lowest, 17.92 ft below land-surface datum, Aug. 27, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	5.46	4.41	4.30	4.20	3.99	4.16	3.73	2.66	3.22	4.15	4.87
10	---	5.12	4.38	4.21	4.09	4.10	4.21	3.57	2.69	3.88	4.15	5.00
15	---	4.64	4.30	4.16	4.16	4.00	4.23	3.34	2.59	5.55	4.23	5.12
20	6.01	4.52	4.25	4.19	4.20	3.97	4.19	3.14	2.53	5.92	4.42	5.25
25	5.93	4.53	4.28	4.10	4.26	3.93	3.71	3.09	2.65	4.93	4.52	5.29
EOM	5.69	4.42	4.22	4.13	4.13	4.03	3.61	2.75	2.85	4.28	4.80	5.18

WTR YR 1996 HIGH 2.52 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	5.66	4.59	4.36	4.35	4.06	4.32	3.90	2.76	3.34	4.31	4.91
10	---	5.34	4.44	4.39	4.14	4.25	4.29	3.73	2.91	4.16	4.26	5.17
15	---	4.85	4.47	4.21	4.32	4.04	4.38	3.57	2.65	5.99	4.38	5.17
20	6.19	4.56	4.32	4.68	4.23	4.18	4.25	3.20	2.75	6.17	4.47	5.41
25	6.06	4.69	4.47	4.18	4.46	4.07	3.90	3.35	2.71	5.04	4.66	5.42
EOM	5.77	4.52	4.41	4.19	4.32	4.19	3.64	2.94	3.06	4.39	4.97	5.33

WTR YR 1996 LOW 6.74 JUL 18

LAKE COUNTY

413559087270301. Local number, LK 13.
LOCATION.--Lat 41°35'59", long 87°27'03", in SW¼NW¼SW¼ sec.3, T.36 N., R.9 W., Lake County, Hydrologic Unit 04040001, at the Gibson Woods Nature Preserve on the north side of Hammond.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6.0 in., depth 23 ft, cased to 18 ft, screened to 23 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 591.91 ft above sea level. Measuring point: Top of casing, 3.33 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.00 ft below land-surface datum, June 30, July 2, 1993; lowest, 5.15 ft below land-surface datum, Sept. 10, 1986.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.73	3.94	---	3.01	3.19	1.91	2.19	1.19	.32	1.85	1.85	3.62
10	4.82	2.34	---	3.07	2.91	2.20	2.29	.45	.14	2.54	2.00	3.70
15	4.86	2.77	2.62	2.94	2.91	1.89	1.49	.65	.43	2.85	2.62	3.65
20	4.63	2.74	2.78	2.46	2.89	2.08	.70	.26	.32	.84	2.97	3.83
25	4.58	2.81	2.87	2.53	2.58	1.58	1.08	.55	.62	---	3.19	3.93
EOM	4.25	2.60	2.87	2.79	2.00	1.81	1.01	.35	1.18	1.09	3.45	3.59

WTR YR 1996 HIGH .09 JUN 17

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.83	3.96	---	3.03	3.25	2.29	2.22	1.32	.43	2.15	2.18	3.80
10	4.95	3.90	---	3.09	3.00	2.38	2.33	.72	.28	2.76	2.29	3.85
15	4.92	2.80	2.71	2.99	2.95	1.97	2.10	.72	.53	3.16	2.87	3.75
20	4.95	2.77	2.81	2.56	2.94	2.17	1.35	.95	.41	.99	3.22	3.96
25	4.60	2.83	2.91	2.59	2.67	1.96	1.21	.78	.76	---	3.45	4.04
EOM	4.37	2.67	2.92	2.88	2.09	2.14	1.13	.41	1.43	1.27	3.63	3.81

WTR YR 1996 LOW 5.02 OCT 13

LAKE COUNTY

411146087204101. Local number, LK 14.
LOCATION.--Lat 41°11'46", long 87°20'41",in SE¼SE¼NW¼ sec.28, T.32 N., R.8 W., Lake County, Hydrologic Unit 07120001, in Shelby on northwest corner of the intersection of Tyler Road and State Highway 55.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 96.2 ft, cased to 50 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 641 ft above sea level, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.77 ft below land-surface datum, Dec. 5, 1993; lowest, 22.86 ft below land-surface datum, July 28, 1991.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.29	9.45	8.66	9.07	9.26	9.27	9.27	8.74	6.58	6.77	6.73	9.17
10	9.39	9.27	8.75	9.09	9.25	9.31	9.28	8.54	6.33	8.88	7.29	9.33
15	9.40	9.06	8.78	9.15	9.33	9.19	9.26	8.33	6.15	10.47	7.15	8.86
20	9.42	8.83	8.82	9.17	9.37	9.16	9.22	7.88	6.13	9.23	8.06	8.72
25	9.51	8.73	8.89	9.18	9.45	9.15	9.04	7.60	6.28	7.47	9.24	8.73
EOM	9.48	8.65	8.94	9.23	9.42	9.20	8.85	7.03	6.53	6.79	10.39	8.72

WTR YR 1996 HIGH 6.12 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.34	9.49	8.73	9.11	9.34	9.35	9.29	8.79	6.63	7.50	6.76	9.28
10	9.42	9.43	8.77	9.11	9.28	9.33	9.29	8.60	6.37	8.98	7.34	9.46
15	9.43	9.12	8.81	9.19	9.37	9.22	9.31	8.39	6.19	10.58	7.52	8.91
20	9.50	8.89	8.85	9.19	9.40	9.19	9.28	8.00	6.16	9.71	8.11	8.75
25	9.54	8.77	8.92	9.22	9.45	9.23	9.12	7.67	6.33	7.67	9.26	8.76
EOM	9.50	8.71	8.96	9.28	9.44	9.23	8.87	7.11	6.58	6.86	10.87	8.74

WTR YR 1996 LOW 11.15 AUG 30

LA PORTE COUNTY

413700086445401. Local number, LP 8.
LOCATION.--Lat 41°37'00", long 86°44'54", in 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., depth 22 ft, cased to 20 ft, screened to 22 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 802.79 ft above sea level. Measuring point: Top of floor of shelter, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.37 ft below land-surface datum, Jan. 28, 1994; lowest, 7.04 ft below land-surface datum, Mar. 8-11, 1978.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	4.23	4.16	4.36	4.18	3.85	4.49	4.34	3.58	3.51	3.23	3.54
10	---	3.34	4.22	4.37	4.25	4.09	4.72	3.48	3.32	3.67	3.08	---
15	---	4.09	4.07	4.36	4.26	4.10	4.10	3.76	3.44	3.74	3.16	3.42
20	---	4.12	4.23	4.13	4.32	4.10	3.99	3.41	3.22	3.21	3.27	3.62
25	4.43	4.16	4.26	4.23	4.33	4.24	4.25	3.69	3.26	3.23	3.31	3.70
EOM	3.99	4.13	4.27	4.17	4.08	4.39	4.29	3.65	3.33	3.13	3.45	3.70

WTR YR 1996 HIGH 2.78 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	4.27	4.23	4.37	4.18	4.09	4.49	4.45	3.62	3.55	3.27	3.58
10	---	4.29	4.23	4.38	4.25	4.10	4.77	3.82	3.45	3.71	3.11	---
15	---	4.10	4.16	4.41	4.28	4.10	4.69	3.84	3.46	3.79	3.21	3.52
20	---	4.12	4.25	4.14	4.32	4.25	4.55	3.80	3.24	3.24	3.31	3.65
25	4.44	4.17	4.27	4.28	4.33	4.41	4.38	3.77	3.30	3.28	3.34	3.74
EOM	4.20	4.22	4.28	4.17	4.08	4.40	4.40	3.68	3.40	3.17	3.48	3.72

WTR YR 1996 LOW 4.77 APR 9

LA PORTE COUNTY

412350086512801. Local number, LP 9.
LOCATION.--Lat 41°23'50", long 86°51'28", in 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 southeast of Wanatah.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 32 ft, cased to 27 ft, screened to 32 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 706.81 ft above sea level. Measuring point: Top of floor of shelter, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.56 ft below land-surface datum, Apr. 5, 1985; lowest, 8.28 ft below land-surface datum, Oct. 16, 17, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.03	7.43	6.60	7.12	7.39	7.22	7.15	5.87	4.75	4.58	3.93	5.86
10	7.13	7.45	6.72	7.18	7.43	7.21	7.18	5.74	4.54	5.00	4.22	6.07
15	7.21	6.72	6.80	7.25	7.48	7.15	7.21	5.57	4.54	5.31	4.57	6.15
20	7.29	6.57	6.87	7.25	7.53	7.13	7.13	5.54	3.45	3.23	4.94	6.29
25	7.33	6.53	6.96	7.28	7.57	7.11	6.31	5.65	3.89	3.66	5.26	6.42
EOM	7.40	6.54	7.04	7.34	7.33	7.13	6.00	4.92	4.17	3.18	5.62	6.49

WTR YR 1996 HIGH 2.80 JUL 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.05	7.44	6.64	7.14	7.41	7.24	7.16	5.90	4.81	4.66	4.05	5.90
10	7.15	7.48	6.74	7.19	7.44	7.21	7.19	5.81	4.65	5.07	4.29	6.10
15	7.23	6.77	6.81	7.26	7.50	7.16	7.23	5.59	4.57	5.40	4.69	6.19
20	7.30	6.60	6.89	7.26	7.54	7.13	7.22	5.57	3.52	3.41	5.05	6.31
25	7.34	6.53	6.98	7.30	7.58	7.14	6.44	5.68	3.98	3.85	5.31	6.43
EOM	7.41	6.57	7.06	7.35	7.36	7.13	6.05	4.98	4.29	3.43	5.66	6.50

WTR YR 1996 LOW 7.58 FEB 25

LA PORTE COUNTY

413139086341401. Local number, LP 10.
LOCATION.--Lat 41°31'40", long 86°34'10", in SE¼SW¼NE¼ sec.31, T.36 N., R.1 W., La Porte County, Hydrologic Unit 07120001, 200 ft north of the manager's residence at the Mixsawbah Fish Hatchery and 2.6 mi southeast of Stillwell.
Owner: State of Indiana.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 104 ft, cased to 102 ft, screened to 104 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 695 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.65 ft below land-surface datum, Dec. 29, 1990; lowest, 9.61 ft below land-surface datum, Sept. 17, 18, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.78	8.66	8.07	8.37	8.42	8.17	8.25	7.26	6.47	7.08	5.41	7.50
10	8.83	8.59	8.14	8.46	8.43	8.26	8.32	4.57	5.52	7.38	6.05	7.67
15	8.88	8.04	8.12	8.53	8.50	8.12	8.32	5.72	5.94	7.55	6.52	7.73
20	8.89	7.95	8.08	8.33	8.57	8.08	8.18	6.18	4.77	3.10	6.87	7.86
25	8.91	7.96	8.21	8.29	8.50	8.13	6.94	6.79	6.07	4.39	7.03	7.99
EOM	8.84	7.99	8.24	8.31	8.23	8.17	6.96	6.03	6.65	3.94	7.30	7.98

WTR YR 1996 HIGH 2.83 JUL 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.78	8.68	8.12	8.39	8.44	8.18	8.26	7.30	6.57	7.14	5.65	7.54
10	8.84	8.66	8.15	8.48	8.45	8.27	8.33	6.50	6.17	7.44	6.17	7.69
15	8.89	8.09	8.13	8.55	8.53	8.14	8.35	5.90	6.15	7.60	6.64	7.75
20	8.92	7.96	8.09	8.37	8.57	8.11	8.27	6.36	5.09	3.42	6.94	7.88
25	8.91	7.97	8.23	8.32	8.54	8.19	7.03	6.84	6.24	4.70	7.06	8.01
EOM	8.88	8.02	8.26	8.33	8.28	8.20	7.02	6.21	6.77	4.18	7.34	8.00

WTR YR 1996 LOW 8.92 OCT 18

LA PORTE COUNTY

412839086533101. Local number, LP 11.
LOCATION.--Lat 41°28'39", long 86°53'31", in SW¼SW¼SW¼ sec.16, T.35 N., R.4 W., La Porte County, Hydrologic Unit 07120001, in the northeast corner of intersection of U.S. Highway 421 and County Road 900 South. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 100 ft, cased to 95 ft, screened to 100 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 760 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 4.1 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.82 ft below land-surface datum, Dec. 30, 1990; lowest, 10.18 ft below land-surface datum, Oct. 17, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.01	9.48	7.95	8.85	9.27	9.47	9.45	8.56	6.44	4.81	4.24	5.76
10	9.15	9.50	8.19	8.95	9.30	9.54	9.48	8.18	6.24	5.06	4.53	5.98
15	9.24	8.19	8.32	9.04	9.42	9.31	9.48	7.43	5.79	5.23	4.76	6.06
20	9.33	7.94	8.43	9.05	9.50	9.30	9.52	7.29	4.29	4.12	5.03	6.29
25	9.43	7.88	8.54	9.08	9.59	9.30	9.07	7.38	4.42	4.35	5.25	6.49
EOM	9.51	7.83	8.66	9.21	9.53	9.37	8.68	6.87	4.58	3.94	5.53	6.66

WTR YR 1996 HIGH 3.94 JUL 31

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.02	9.49	8.10	8.88	9.32	9.48	9.46	8.60	6.51	4.85	4.30	5.78
10	9.18	9.56	8.22	8.97	9.36	9.55	9.49	8.46	6.29	5.10	4.58	6.02
15	9.27	8.32	8.34	9.09	9.45	9.33	9.53	7.49	5.82	5.30	4.83	6.13
20	9.34	7.98	8.44	9.08	9.52	9.34	9.57	7.34	4.30	4.16	5.10	6.32
25	9.44	7.91	8.59	9.14	9.60	9.40	9.20	7.42	4.47	4.43	5.30	6.52
EOM	9.52	7.96	8.71	9.22	9.57	9.40	8.72	6.98	4.65	3.94	5.58	6.67

WTR YR 1996 LOW 9.60 FEB 25

LA PORTE COUNTY

413434086434701. Local number, LP 12.
LOCATION.--Lat 41°34'34", long 86°43'47", in NE¼NE¼NW¼ sec.14, T.36 N., R.3 W., La Porte County, Hydrologic Unit 07120001, on County Road 150 West, at La Porte Municipal Airport, 1.6 mi south of La Porte. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 77 ft, cased to 71 ft, screened to 77 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 805 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.70 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.96 ft below land-surface datum, Jan. 16, 1991; lowest, 22.82 ft below land-surface datum, Jan. 27, 28, 31, 1990.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	20.57	20.77	21.02	21.29	21.50	21.72	21.84	21.14	19.19	18.00	18.09
10	---	20.59	20.84	21.07	21.30	21.59	21.75	21.82	21.01	19.23	17.89	18.16
15	---	20.65	20.87	21.11	21.36	21.61	21.74	21.67	20.84	19.20	17.79	18.21
20	---	20.68	20.90	21.15	21.40	21.63	21.78	21.52	20.34	18.97	17.77	18.29
25	---	20.71	20.94	21.17	21.45	21.62	21.78	21.40	19.68	18.44	17.93	18.34
EOM	20.50	20.72	20.97	21.24	21.49	21.69	21.81	21.26	19.35	18.14	17.96	18.42

WTR YR 1996 HIGH 17.77 AUG 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	20.57	20.81	21.04	21.30	21.54	21.73	21.85	21.17	19.20	18.03	18.11
10	---	20.62	20.84	21.08	21.32	21.59	21.75	21.83	21.04	19.25	17.91	18.18
15	---	20.66	20.88	21.12	21.37	21.62	21.77	21.70	20.88	19.25	17.79	18.22
20	---	20.69	20.91	21.16	21.41	21.64	21.81	21.55	20.47	19.07	17.79	18.29
25	---	20.73	20.95	21.19	21.46	21.67	21.80	21.44	19.78	18.51	17.93	18.37
EOM	20.51	20.76	20.99	21.25	21.50	21.70	21.83	21.29	19.39	18.18	17.96	18.44

WTR YR 1996 LOW 21.86 MAY 6

MARION COUNTY

393855086120701. Local number, MA 34.
LOCATION.--Lat 39°38'55", long 86°12'07", in NE¼NW¼NE¼ sec.21, T.14 N., R.3 E., Marion County, Hydrologic Unit 05120201, about 0.5 mi northwest of Glenns Valley.
Owner: U.S. Geological Survey.

AQUIFER.--Coarse sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 66 ft, cased to 61 ft, screened to 66 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 670.73 ft above sea level. Measuring point: Top of casing, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.55 ft below land-surface datum, Nov. 17, 1993; lowest, 8.84 ft below land-surface datum, Nov. 23-25, 1987.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.18	7.72	7.71	---	6.19	6.33	5.78	3.27	4.05	5.00	5.66	6.51
10	7.38	7.71	7.78	---	6.15	6.31	5.87	3.57	3.94	5.20	5.84	6.56
15	7.48	7.30	7.83	7.32	6.26	6.02	5.90	3.71	4.17	5.35	6.01	6.75
20	7.45	7.37	7.29	6.05	6.35	5.82	5.51	4.18	4.10	5.31	5.98	6.46
25	7.61	7.56	7.47	5.71	6.50	5.83	5.00	4.13	4.53	5.32	6.15	6.43
EOM	7.68	7.65	---	6.02	6.39	5.60	3.91	3.72	4.77	5.47	6.35	6.28

WTR YR 1996 HIGH 2.62 MAY 27

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.30	7.73	7.74	---	6.23	6.47	5.80	3.75	4.10	5.06	5.71	6.54
10	7.41	7.73	7.79	---	6.20	6.33	5.88	4.04	4.01	5.26	5.89	6.63
15	7.50	7.31	7.84	7.49	6.29	6.32	5.96	4.09	4.25	5.40	6.05	6.78
20	7.57	7.42	7.34	6.18	6.37	5.93	5.72	4.24	4.25	5.38	6.06	6.54
25	7.62	7.57	7.52	5.81	6.52	5.90	5.18	4.36	4.59	5.39	6.20	6.51
EOM	7.70	7.66	---	6.04	6.41	5.92	4.27	3.82	4.83	5.52	6.39	6.33

WTR YR 1996 LOW 7.86 DEC 17

MARION COUNTY

394632086092701. Local number, MA 35.
LOCATION.--Lat 39°46'32", long 86°09'27", in NW¼SW¼NW¼ sec.1, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, in the northeast corner of the intersection of Meridian and North Streets in Indianapolis.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 83 ft, cased to 77.5 ft, screened to 83 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 716.40 ft above sea level. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--Water levels are affected by pumpage.

PERIOD OF RECORD.--September 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.30 ft below land-surface datum, Mar. 27, 1991; lowest, unknown, but greater than 37.55 ft below land-surface datum. Recorder unable to record below this water level, which occurred on numerous occasions between Aug. 14 and Sept. 2, 1995.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.92	35.00	34.03	34.61	34.74	34.03	33.93	33.89	33.45	33.66	34.17	35.14
10	35.66	34.76	34.31	34.48	34.32	34.18	33.81	34.03	33.31	33.79	34.48	35.24
15	35.60	34.59	34.23	34.46	34.20	34.17	33.77	33.72	33.45	33.73	34.57	35.06
20	35.61	34.35	34.15	34.84	34.14	34.04	33.96	34.05	33.66	34.11	34.69	34.93
25	35.33	34.22	34.33	34.47	34.01	34.01	33.94	---	33.67	34.03	35.07	34.89
EOM	35.12	34.13	34.22	34.44	34.11	33.94	33.87	---	33.69	34.22	35.10	34.85

WTR YR 1996 HIGH 33.29 JUN 9

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.14	35.30	34.06	34.84	34.96	34.07	34.12	33.96	33.72	34.01	34.58	35.53
10	36.03	34.84	34.39	34.55	34.37	34.27	33.84	34.35	33.59	34.11	34.62	35.61
15	35.67	34.75	34.27	34.50	34.22	34.23	33.83	33.78	33.68	34.15	34.96	35.14
20	35.85	34.38	34.25	34.95	34.16	34.10	34.21	34.36	34.00	34.34	35.04	35.06
25	35.36	34.28	34.38	34.52	34.05	34.09	34.18	---	33.93	34.36	35.18	35.02
EOM	35.16	34.17	34.28	34.45	34.16	33.97	33.92	---	33.89	34.52	35.35	35.11

WTR YR 1996 LOW 36.29 OCT 2

MARION COUNTY

394626086100201. Local number, MA 36.
LOCATION.--Lat 39°46'26", long 86°10'02", in SW¼SW¼NE¼ sec.2, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, in the southwest corner of the intersection of West and Michigan Streets in Indianapolis.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 70.6 ft, cased to 65.1 ft, screened to 70.6 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 710.06 ft above sea level. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.86 ft below land-surface datum, May 14, 1991; lowest, 33.41 ft below land-surface datum, Sept. 3 - 5, 1995.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.83	32.14	31.44	31.66	31.56	31.42	31.39	30.83	30.15	30.82	31.60	32.65
10	32.73	31.96	31.48	31.76	31.49	31.54	31.29	30.65	30.14	31.00	31.72	32.80
15	32.61	31.76	31.57	31.84	31.46	31.58	31.22	30.47	30.20	31.17	31.91	32.95
20	32.50	31.59	31.54	31.76	31.45	31.57	31.19	30.32	30.33	31.34	32.08	32.97
25	32.40	31.49	31.60	31.68	31.42	31.51	31.12	30.35	30.45	31.48	32.27	32.87
EOM	32.25	31.45	31.66	31.60	31.41	31.44	31.01	30.23	30.61	31.53	32.51	32.79

WTR YR 1996 HIGH 30.13 JUN 6

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.85	32.16	31.46	31.69	31.57	31.43	31.40	30.87	30.16	30.86	31.62	32.68
10	32.75	32.00	31.50	31.78	31.51	31.56	31.32	30.68	30.14	31.04	31.76	32.83
15	32.63	31.80	31.57	31.86	31.46	31.60	31.23	30.51	30.23	31.20	31.94	32.97
20	32.52	31.62	31.55	31.79	31.45	31.59	31.21	30.34	30.37	31.39	32.11	32.98
25	32.42	31.51	31.62	31.70	31.44	31.53	31.14	30.39	30.47	31.51	32.31	32.88
EOM	32.28	31.47	31.68	31.61	31.41	31.45	31.06	30.25	30.66	31.55	32.56	32.82

WTR YR 1996 LOW 32.98 SEP 16

MARION COUNTY

394732086115501. Local number, MA 37.
LOCATION.--Lat 39°47'32", long 86°11'55", in SE¼NE¼NE¼ sec. 33, T.16N., R.3E., Marion County, Hydrologic Unit 05120201, on the South Grove Municipal Golf Course property, west of the 11th fairway and east of White River Parkway in Indianapolis.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene Epoch.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 74 ft, cased to 69 ft, screened to 74 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 690 ft above sea level, from topographic map. Measuring point: Top of casing, 3.35 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.22 ft below land-surface datum, Mar. 20, 1991; lowest, 16.70 ft below land-surface datum, Sept. 11, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.57	9.73	10.63	---	15.09	15.57	8.20	13.20	12.10	13.32	9.21	11.58
10	8.47	8.05	10.65	15.93	15.19	15.69	8.01	11.08	12.14	13.51	10.84	16.10
15	8.30	11.83	10.43	15.97	15.41	7.83	9.10	11.27	12.54	10.33	13.39	14.71
20	8.37	9.14	10.53	14.09	15.56	7.24	9.50	8.22	11.67	9.77	11.71	8.70
25	8.31	12.55	---	14.15	8.82	10.91	13.91	7.71	12.81	9.05	11.62	9.45
EOM	8.32	12.42	---	14.75	15.08	15.36	13.34	11.42	13.31	8.99	11.94	10.06

WTR YR 1996 HIGH 7.05 MAY 28

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.80	9.84	10.77	---	15.20	15.65	8.36	13.60	12.38	13.56	13.38	16.33
10	8.63	8.24	10.72	16.07	15.41	15.79	8.15	11.34	12.34	13.73	11.00	16.41
15	8.41	12.23	10.71	16.03	15.51	8.10	9.27	11.59	12.68	13.81	14.09	14.81
20	8.79	12.49	10.61	14.46	15.66	10.47	9.68	12.26	11.80	9.99	14.15	8.94
25	8.53	12.68	---	14.33	8.96	11.09	14.03	7.81	12.99	9.18	11.70	9.63
EOM	8.49	13.12	---	14.85	15.16	15.43	13.75	11.79	13.48	9.16	12.04	15.12

WTR YR 1996 LOW 16.70 SEP 11

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 southwest of Whitfield.
Owner: Marjorie A. Arvin.

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 143 ft, cased to 53 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 565 ft above sea level, from topographic map. Measuring point: Top of casing, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.91 ft below land-surface datum, Apr. 14, 1980; lowest, 34.10 ft 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 1995 TO SEPTEMBER 1996

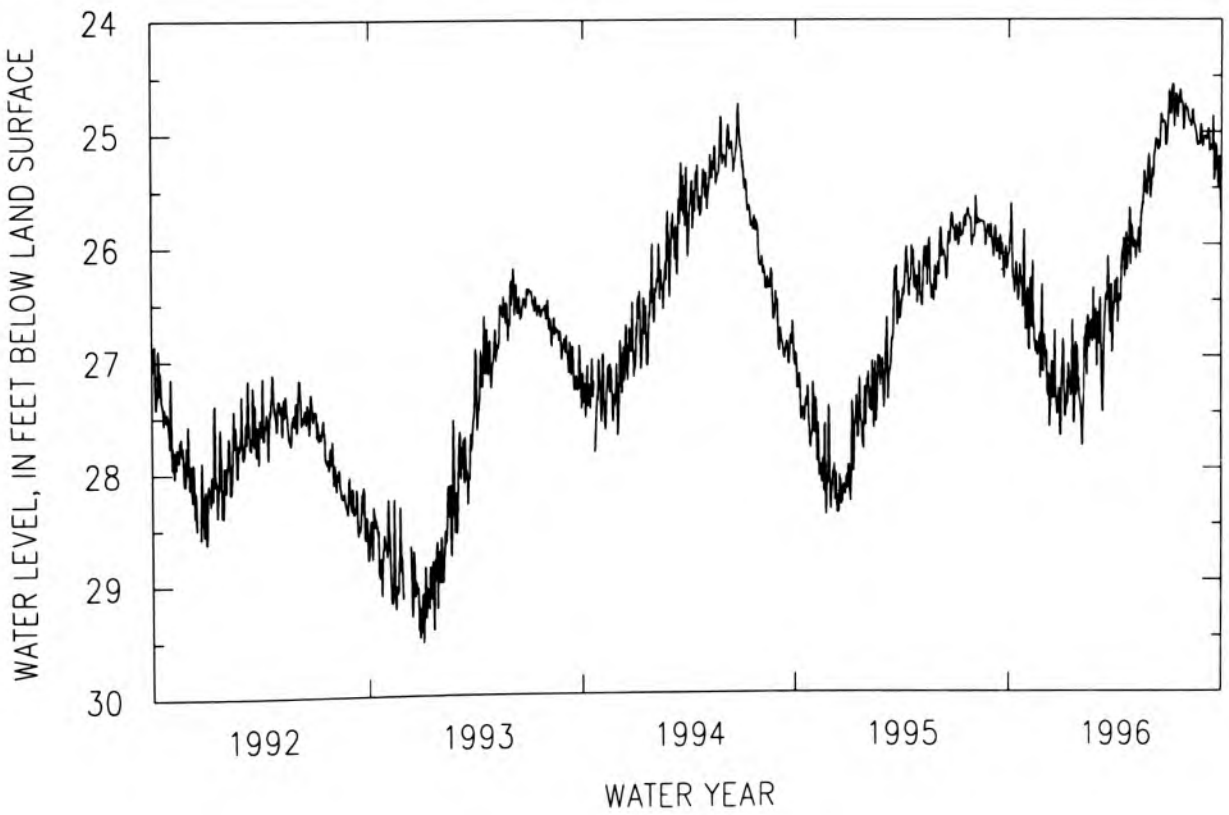
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.64	26.94	26.96	27.53	27.58	26.52	26.70	25.97	25.40	24.84	24.87	25.07
10	26.34	26.35	27.63	27.43	26.73	27.50	26.51	25.90	25.09	24.81	24.92	25.17
15	26.28	26.90	27.30	27.36	26.76	26.49	25.95	25.71	25.14	24.66	24.93	25.16
20	26.18	26.93	27.20	27.59	26.71	26.28	25.90	25.35	24.90	24.74	25.12	25.27
25	26.56	27.05	27.40	27.35	26.85	26.36	25.68	25.56	24.93	24.74	24.99	25.49
EOM	26.70	26.82	27.11	27.41	27.09	26.33	25.87	25.59	24.89	24.79	25.07	25.71

WTR YR 1996 HIGH 24.57 JUL 8

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.90	27.13	27.35	27.78	27.86	26.89	26.85	26.13	25.52	24.90	24.94	25.12
10	26.43	26.63	27.72	27.62	27.01	27.63	26.65	26.03	25.14	25.02	25.00	25.28
15	26.35	26.96	27.38	27.70	26.92	26.61	26.24	25.92	25.22	24.85	24.99	25.24
20	26.33	27.00	27.43	27.73	26.87	26.59	26.23	25.53	24.98	24.83	25.19	25.37
25	26.74	27.25	27.52	27.65	27.07	26.97	26.08	25.72	25.12	24.84	25.12	25.59
EOM	26.80	27.18	27.41	27.53	27.28	26.50	26.01	25.69	25.00	24.87	25.16	25.81

WTR YR 1996 LOW 27.94 FEB 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, and 4.5 mi east of Crawfordsville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 111 ft, cased to 107 ft, screened to 109 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 801 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.38 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.10 ft below land-surface datum, Apr. 13, 1974; lowest, 34.13 ft below land-surface datum, Nov. 9, 1991.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.85	32.66	32.26	33.14	32.52	31.77	30.87	30.97	28.09	29.33	30.17	31.41
10	33.10	32.44	32.44	33.25	32.30	31.81	31.03	30.31	28.08	29.70	30.52	31.49
15	33.07	32.51	32.44	33.07	32.38	31.24	31.42	29.47	28.26	29.85	30.63	31.81
20	32.89	32.42	32.27	32.61	32.49	31.01	31.73	28.89	28.45	29.97	30.82	32.11
25	32.80	32.43	32.65	32.19	32.38	31.00	31.51	28.60	28.72	29.86	31.02	32.28
EOM	32.64	32.31	32.90	32.31	32.16	30.93	31.31	28.21	29.06	29.96	31.17	32.38

WTR YR 1996 HIGH 28.03 JUN 3

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.92	32.69	32.36	33.26	32.59	32.01	30.93	31.11	28.14	29.40	30.25	31.43
10	33.14	32.53	32.49	33.33	32.40	31.85	31.15	30.51	28.11	29.80	30.55	31.54
15	33.12	32.52	32.46	33.12	32.45	31.32	31.50	29.72	28.32	29.94	30.70	31.87
20	33.01	32.48	32.38	32.66	32.52	31.10	31.84	28.97	28.53	30.03	30.90	32.14
25	32.86	32.49	32.71	32.23	32.49	31.15	31.68	28.68	28.84	29.89	31.06	32.35
EOM	32.70	32.43	32.97	32.34	32.19	31.03	31.34	28.26	29.12	30.00	31.19	32.41

WTR YR 1996 LOW 33.33 JAN 10

MORGAN COUNTY

393423086161001. Local number, MG 4.
LOCATION.--Lat 39°34'23", long 86°16'10", in NW¼NW¼NW¼ sec.13, T.13 N., R.2 E., Morgan County, Hydrologic Unit 05120201, on east side of County Road 850 East, 0.4 mi north of County Road 950 North, and 1.1 mi north of Waverly.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 64 ft, cased to 60 ft, screened to 64 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 645 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.93 ft below land-surface datum, Jan. 1, 1991; lowest, 16.09 ft below land-surface datum, Nov. 2-4, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.70	15.28	15.59	15.74	13.50	13.62	12.54	---	---	9.41	11.06	12.41
10	14.81	15.35	15.65	15.74	13.44	13.59	12.35	8.28	---	9.79	11.32	12.63
15	14.92	15.35	15.71	15.76	13.45	13.54	12.31	8.64	8.16	10.10	11.58	12.84
20	15.02	15.40	15.69	15.03	13.55	13.45	12.36	7.70	8.35	10.36	11.77	12.93
25	15.10	15.46	15.69	14.32	13.65	13.25	11.86	---	8.67	10.55	11.95	12.98
EOM	15.21	15.52	15.73	13.69	13.58	12.91	10.08	---	9.03	10.84	12.20	12.97

WTR YR 1996 HIGH 7.50 MAY 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.71	15.29	15.61	15.74	13.53	13.63	12.61	---	---	9.48	11.12	12.47
10	14.83	15.38	15.66	15.74	13.46	13.60	12.37	8.37	---	9.87	11.37	12.69
15	14.94	15.37	15.73	15.76	13.49	13.56	12.34	8.68	8.22	10.18	11.63	12.87
20	15.03	15.43	15.69	15.21	13.57	13.47	12.39	7.81	8.43	10.41	11.81	12.96
25	15.13	15.49	15.70	14.50	13.67	13.30	12.01	---	8.74	10.61	11.99	13.01
EOM	15.24	15.54	15.74	13.76	13.63	12.98	10.44	---	9.10	10.89	12.24	12.99

WTR YR 1996 LOW 15.76 JAN 14

NEWTON COUNTY

405105087173301. Local number, NE 6.
LOCATION.--Lat 40°51'05", long 87°17'33", in SE¼SW¼SE¼ sec.23, T.28 N., R.8 W., Newton County, Hydrologic Unit 07120002, on the right-of-way of County Road 1000 South, 1.0 mi south of Foresman.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 80 ft, cased to 76 ft, screened to 78 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 654.10 ft above sea level. Measuring point: Top of floor of shelter, 2.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.94 ft below land-surface datum, Mar. 20, 21, 1982; lowest, 18.82 ft below land-surface datum, Oct. 29, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.64	16.87	16.64	16.81	16.65	16.57	16.50	14.93	11.29	12.64	11.03	13.67
10	16.77	16.80	16.78	16.81	16.56	16.71	16.54	14.50	11.37	13.23	11.63	13.71
15	16.81	16.74	16.80	16.87	16.62	16.58	16.38	13.94	11.23	13.50	12.03	13.81
20	16.81	16.68	16.77	16.80	16.61	16.51	16.45	13.29	11.02	12.95	12.44	14.01
25	16.91	16.66	16.81	16.66	16.66	16.49	15.59	13.13	11.29	11.00	12.76	14.37
EOM	16.91	16.62	16.81	16.64	16.67	16.47	15.20	11.55	11.88	10.73	13.21	14.41

WTR YR 1996 HIGH 10.69 AUG 1

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.73	16.93	16.78	16.81	16.71	16.63	16.53	15.02	11.34	12.81	11.17	13.72
10	16.79	16.84	16.79	16.87	16.63	16.73	16.59	14.62	11.45	13.38	11.73	13.76
15	16.83	16.78	16.80	16.88	16.67	16.65	16.45	14.03	11.34	13.60	12.17	13.87
20	16.86	16.72	16.80	16.80	16.65	16.61	16.49	13.32	11.06	13.12	12.54	14.04
25	16.96	16.71	16.81	16.74	16.69	16.64	15.74	13.27	11.56	11.41	12.83	14.44
EOM	16.95	16.72	16.81	16.67	16.71	16.54	15.26	11.68	12.02	10.84	13.25	14.44

WTR YR 1996 LOW 16.98 OCT 29

NEWTON COUNTY

405959087282901. Local number, NE 7.
LOCATION.--Lat 40°59'59", long 87°28'29", in SE¼SW¼SE¼ sec.32, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120002, in the Willow Slough Game Preserve, 2.0 mi southwest of Enos.
Owner: State of Indiana.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 150 ft, cased to 136 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 680.83 ft above sea level. Measuring point: Top of floor of shelter, 2.03 ft above land-surface datum.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.65 ft below land-surface datum, Apr 14, 1980; lowest, 97.33 ft below land-surface datum, Aug. 29, 30, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.81	---	64.55	---	---	53.73	---	---	47.54	46.75	65.06	69.92
10	74.98	---	63.88	---	55.84	53.60	---	---	47.22	50.01	65.23	71.45
15	73.92	68.08	---	---	55.46	---	---	---	47.05	56.26	65.37	72.27
20	---	67.13	---	---	54.97	---	---	---	46.72	62.48	66.58	71.92
25	72.07	66.25	---	---	54.58	---	---	48.22	46.61	64.85	67.67	71.30
EOM	70.85	65.26	---	---	54.32	---	---	47.87	46.39	65.39	68.66	70.37

WTR YR 1996 HIGH 46.39 JUN 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.10	---	64.74	---	---	53.90	---	---	47.65	47.05	65.14	70.16
10	75.13	---	64.00	---	55.99	53.66	---	---	47.29	51.10	65.32	71.74
15	74.07	68.19	---	---	55.49	---	---	---	47.13	57.69	65.50	72.33
20	---	67.33	---	---	55.03	---	---	---	46.79	63.27	66.87	72.07
25	72.29	66.50	---	---	54.62	---	---	48.35	46.67	65.14	67.78	71.49
EOM	71.11	65.61	---	---	54.35	---	---	47.98	46.49	65.48	68.90	70.56

WTR YR 1996 LOW 76.93 OCT 1

NEWTON COUNTY

410428087231501. Local number, NE 8.
LOCATION.--Lat 41°04'28", long 87°25'44", in NW¼SW¼SW¼ sec.2, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120001, in the Beaver Lake Prairie Chicken Refuge, 3.0 mi north of Enos.
Owner: State of Indiana.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 150 ft, cased to 97 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 663.34 ft above sea level. Measuring point: Top of floor of shelter, 2.83 ft above land-surface datum.

REMARKS.--Water level may be affected by irrigation pumpage.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.04 ft below land-surface datum, May 31, 1976; lowest, 98.40 ft below land-surface datum, July 29, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.01	26.36	22.64	---	---	15.91	14.56	13.28	---	---	25.51	50.74
10	31.05	25.33	22.28	---	17.25	15.93	14.24	12.98	---	---	26.87	44.24
15	29.92	24.84	21.81	---	17.06	15.38	13.92	12.77	---	---	27.88	38.59
20	28.87	24.24	21.27	---	16.73	15.13	13.72	12.60	---	36.77	27.80	35.15
25	28.10	23.68	20.72	---	16.50	14.82	13.47	---	---	31.02	29.66	32.87
EOM	27.06	23.01	20.06	---	16.36	14.66	13.37	---	---	27.41	45.91	31.04

WTR YR 1996 HIGH 12.60 MAY 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.35	26.59	22.79	---	---	16.05	14.67	13.40	---	---	25.84	54.67
10	31.23	25.64	22.40	---	17.39	16.01	14.34	13.09	---	---	28.01	48.15
15	30.07	25.00	21.85	---	17.15	15.48	14.08	12.90	---	---	34.20	39.51
20	29.12	24.37	21.39	---	16.80	15.22	13.91	12.76	---	38.67	28.76	35.77
25	28.36	23.88	20.86	---	16.62	15.08	13.66	---	---	31.78	33.68	33.32
EOM	27.29	23.32	20.10	---	16.49	14.76	13.45	---	---	27.88	48.67	31.38

WTR YR 1996 LOW 55.14 SEP 6

NEWTON COUNTY

405959087282902. Local number, NE 9.
LOCATION.--Lat 40°59'59", long 87°28'29", in SE¼SW¼SE¼ sec.32, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120002, in the Willow Slough Game Preserve, 2.0 mi southwest of Enos.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in., depth 45 ft, cased to 42 ft, screened to 45 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 681 ft above sea level, from topographic map. Measuring point: Top of "Y" in well casing, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year. Fragmentary record prior to March 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.07 ft below land-surface datum, May 3, 1978; lowest, 15.44 ft below land-surface datum, Oct. 19-21, 26-31, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.93	14.28	13.18	13.71	13.74	13.85	---	13.07	11.16	12.12	11.50	12.94
10	14.04	14.20	13.28	13.78	13.84	13.78	---	12.88	11.09	12.44	11.86	13.13
15	14.13	13.57	13.36	13.85	13.95	13.70	---	12.35	11.16	12.67	12.12	13.34
20	14.20	13.33	13.44	13.87	14.01	13.64	---	12.12	11.15	12.30	12.33	13.52
25	14.28	13.22	13.50	13.77	14.04	13.60	---	12.04	11.45	11.57	12.51	13.69
EOM	14.35	13.17	13.57	13.73	14.00	13.59	13.21	11.42	11.80	11.41	12.73	13.80

WTR YR 1996 HIGH 11.06 JUN 12

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.95	14.32	13.26	13.74	13.80	13.87	---	13.09	11.18	12.18	11.59	12.98
10	14.08	14.24	13.30	13.80	13.88	13.82	---	12.94	11.12	12.50	11.90	13.16
15	14.17	13.65	13.39	13.89	13.99	13.71	---	12.43	11.23	12.74	12.19	13.37
20	14.22	13.36	13.45	13.91	14.05	13.65	---	12.15	11.18	12.36	12.36	13.55
25	14.30	13.24	13.54	13.86	14.07	13.66	---	12.08	11.53	11.60	12.55	13.71
EOM	14.36	13.22	13.60	13.75	14.06	13.62	13.24	11.49	11.89	11.45	12.80	13.83

WTR YR 1996 LOW 14.37 NOV 2

NEWTON COUNTY

410428087231502. Local number, NE 10.
LOCATION.--Lat 41°04'28", long 87°25'44", in NW¼SW¼SW¼ sec.2, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120001, in the Beaver Lake Prairie Chicken Refuge, 3.0 mi north of Enos.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 2 in., depth 45 ft, cased to 41 ft, screened to 44 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 662.60 ft above sea level. Measuring point: Bottom lip of "Y" in well casing, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year. Fragmentary record prior to March 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.03 ft below land-surface datum, Mar. 16, 1982; lowest, 6.48 ft below land-surface datum, Sept. 30, Oct. 1, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	5.62	---	5.83	---	5.65	4.05	4.68	2.68	4.68
10	---	---	---	5.72	6.04	5.88	6.15	5.20	4.03	4.87	3.06	4.86
15	---	---	5.34	5.83	6.07	5.87	6.16	4.83	3.97	5.03	3.50	5.03
20	---	---	5.42	---	6.13	5.89	6.19	4.84	3.97	2.93	3.83	5.20
25	---	---	5.47	---	6.17	5.94	5.88	4.87	4.12	1.80	4.14	5.29
EOM	---	---	5.57	---	5.94	---	5.72	4.23	4.43	1.66	4.46	5.31

WTR YR 1996 HIGH 1.55 JUL 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	5.64	---	5.84	---	5.66	4.06	4.73	2.80	4.73
10	---	---	---	5.73	6.06	5.89	6.17	5.54	4.07	4.93	3.18	4.92
15	---	---	5.35	5.84	6.08	5.90	6.16	4.86	4.03	5.09	3.54	5.05
20	---	---	5.42	---	6.13	5.90	6.21	4.84	3.99	2.97	3.90	5.20
25	---	---	5.49	---	6.17	5.94	5.92	4.88	4.19	2.00	4.18	5.30
EOM	---	---	5.57	---	6.05	---	5.73	4.25	4.50	1.93	4.50	5.32

WTR YR 1996 LOW 6.21 APR 20

NEWTON COUNTY

410235087305901. Local number, NE 11.
LOCATION.--Lat 41°02'35", long 87°30'59", in SW¼SW¼SE¼ sec.13, T.30 N., R.10 W., Newton County, Hydrologic Unit 07120001, on right-of-way of County Road 300 North, 0.5 mi west of County Road 600 West, and 4.0 mi northwest of Enos.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 5 in., depth of 150 ft, cased to 90 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 670 ft above sea level, from topographic map. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.78 ft below land-surface datum, May 6, 1982; lowest recorded, 98.83 ft below land-surface datum, Aug. 5, 6, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.38	---	---	---	---	---	---	38.22	35.96	43.39	56.79	---
10	67.68	---	---	---	---	---	---	37.75	35.57	53.49	---	---
15	---	---	---	---	---	---	39.41	37.30	35.40	65.06	---	---
20	---	---	---	---	---	---	39.05	36.81	34.99	---	---	73.09
25	---	---	---	---	---	---	38.44	36.80	34.90	---	---	70.66
EOM	---	---	---	---	---	---	38.31	36.41	36.65	---	---	68.47

WTR YR 1996 HIGH 34.62 JUN 29

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.81	---	---	---	---	---	---	38.39	36.13	47.67	57.17	---
10	67.76	---	---	---	---	---	---	37.85	35.68	54.58	---	---
15	---	---	---	---	---	---	39.69	37.49	35.52	67.64	---	---
20	---	---	---	---	---	---	39.42	36.93	35.10	---	---	73.77
25	---	---	---	---	---	---	38.76	37.05	35.01	---	---	71.24
EOM	---	---	---	---	---	---	38.39	36.59	42.73	---	---	68.94

WTR YR 1996 LOW 75.16 SEP 18

NEWTON COUNTY

410917087285801. Local number, NE 14.
LOCATION.--Lat 41°09'17", long 87°28'58", in NE¼SW¼NW¼ sec.8, T.31 N., R.9 W., Newton County, Hydrologic Unit 07120001, 100 ft south of wildlife area parking lot in La Salle State Fish and Wildlife Area.
Owner: U.S. Geological Survey.

AQUIFER.--Dolomitic limestone of Silurian/Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 150 ft, cased to 82 ft, open end.

INSTRUMENTATION.--Water-level recorder, data-collection platform, and incremental encoder.

DATUM.--Elevation of land-surface datum is 636.62 ft above sea level. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.18 ft below land-surface datum, Mar. 27, 1991; lowest, 31.19 ft below land-surface datum, Aug. 26, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.95	---	---	10.11	9.60	9.16	9.00	---	8.07	8.60	11.54	11.96
10	13.76	---	---	9.94	9.39	9.28	9.15	---	7.92	10.35	11.27	12.35
15	13.49	---	10.54	9.85	9.40	9.02	9.05	---	7.98	14.70	11.11	12.60
20	13.23	---	10.34	9.81	9.36	9.03	9.05	---	7.82	15.06	11.43	12.60
25	12.96	---	10.24	9.61	9.35	8.84	---	8.36	7.87	13.31	11.39	12.55
EOM	12.51	---	10.00	9.63	9.35	8.88	---	8.20	8.01	12.11	11.81	12.41

WTR YR 1996 HIGH 7.78 JUN 24

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.09	---	---	10.19	9.69	9.27	9.18	---	8.17	9.18	11.61	12.09
10	13.80	---	---	10.04	9.55	9.32	9.19	---	8.11	11.24	11.40	12.42
15	13.58	---	10.57	9.94	9.47	9.07	9.13	---	8.03	15.10	11.19	12.66
20	13.44	---	10.40	9.88	9.41	9.08	9.11	---	7.89	15.46	11.58	12.71
25	13.07	---	10.28	9.71	9.40	9.01	---	8.45	7.97	13.55	11.47	12.95
EOM	12.66	---	10.09	9.69	9.40	8.98	---	8.61	8.43	12.31	11.89	12.89

WTR YR 1996 LOW 16.03 JUL 18

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, and 5.0 mi south of Albion.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 149 ft, cased to 146 ft, screened to 148 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 928 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.65 ft 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, 27.88 ft below land-surface datum, Feb. 14, 1991; lowest, 32.49 ft below land-surface datum, Jan. 18, 1967.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.55	31.13	31.01	31.39	31.36	31.20	---	---	30.90	30.56	30.54	30.65
10	30.95	30.77	31.27	31.16	30.96	31.73	---	31.10	30.72	30.57	30.58	30.69
15	30.77	31.04	31.15	31.33	31.17	31.12	---	31.03	30.84	30.43	30.50	30.59
20	30.68	30.98	31.08	31.48	31.27	---	---	30.83	30.63	30.52	30.57	30.64
25	31.01	31.10	31.14	31.34	31.38	---	---	31.14	30.65	30.44	30.53	30.78
EOM	31.08	30.87	31.03	31.37	31.47	---	---	31.07	30.52	30.44	30.62	30.90

WTR YR 1996 HIGH 30.33 JUL 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.82	31.26	31.23	31.54	31.55	31.38	---	---	31.00	30.60	30.59	30.69
10	31.03	30.92	31.29	31.37	31.19	31.80	---	31.18	30.82	30.73	30.62	30.75
15	30.90	31.10	31.22	31.57	31.36	31.24	---	31.21	30.88	30.52	30.60	30.66
20	30.85	31.10	31.15	31.58	31.33	---	---	30.91	30.69	30.61	30.64	30.72
25	31.13	31.25	31.20	31.50	31.47	---	---	31.24	30.79	30.52	30.63	30.84
EOM	31.16	31.22	31.17	31.41	31.59	---	---	31.15	30.58	30.49	30.68	30.96

WTR YR 1996 LOW 31.80 MAR 10

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, and 2.0 mi west of Wolcottville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in,. depth 44 ft, cased to 39 ft, screened to 42 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 930 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.37 ft below land-surface datum, Jan. 5, 1993; lowest, 17.67 ft below land-surface datum, Nov. 22, 23, 26, 30, Dec. 1, 1995.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.65	12.89	13.11	14.46	13.94	13.22	13.21	11.69	11.02	11.70	13.53	14.26
10	14.88	13.03	13.45	14.41	13.82	13.61	13.46	11.08	10.19	12.24	13.81	14.49
15	14.90	12.27	13.60	14.68	13.93	13.54	13.61	10.70	10.28	12.63	14.03	14.69
20	15.01	12.41	13.68	13.65	14.26	13.49	13.44	9.67	8.99	12.79	14.27	14.93
25	15.23	12.67	13.97	13.49	14.43	13.11	11.01	10.62	10.08	13.00	13.63	15.04
EOM	15.09	12.81	14.09	13.64	13.11	13.06	11.35	10.84	10.94	13.31	13.98	15.17

WTR YR 1996 HIGH 8.97 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.75	13.00	13.25	14.57	14.03	13.33	13.36	11.76	11.08	11.81	13.58	14.32
10	14.93	13.06	13.53	14.64	13.99	13.71	13.50	11.94	11.07	12.41	13.86	14.57
15	15.00	12.30	13.72	14.88	14.13	13.56	13.76	10.74	10.38	12.72	14.07	14.74
20	15.08	12.48	13.78	13.79	14.31	13.54	13.75	9.87	9.15	12.86	14.29	14.94
25	15.28	12.76	14.02	13.59	14.46	13.34	11.14	10.72	10.33	13.09	13.65	15.09
EOM	15.22	13.02	14.16	13.71	13.31	13.08	11.38	10.89	11.10	13.31	14.03	15.22

WTR YR 1996 LOW 15.28 OCT 25

NOBLE COUNTY

412405085154501. Local number, NO 11.
LOCATION.--Lat 41°24'05", long 85°15'45", in NW¼NE¼SW¼ sec.16, T.34 N., R.11 E., Noble County, Hydrologic Unit 04100003, on the property of Ron Karst on the south side of County Road 350 North, 0.6 mi west of State Highway 3 and about 22 mi north of Fort Wayne.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artsian well, diameter 6 in., depth 216 ft, cased to 211 ft, screened to 216 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,036.94 ft above sea level. Measuring point: Top of casing, 3.45 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 113.24 ft below land-surface datum, Nov. 6, 1988; lowest, 115.33 ft below land-surface datum, Mar. 10, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	114.17	114.87	114.42	114.67	114.94	114.46	114.65	114.74	114.59	114.65	114.80	114.72
10	114.62	114.27	114.71	114.43	114.18	115.18	114.69	114.61	114.46	114.58	114.83	114.60
15	114.35	114.55	114.58	114.52	114.25	114.43	114.30	114.65	114.64	114.50	114.67	114.49
20	114.27	114.54	114.50	114.59	114.38	114.12	114.23	114.31	114.47	114.63	114.80	114.78
25	114.62	114.65	114.50	114.50	114.54	114.31	114.14	114.80	114.57	114.55	114.79	114.88
EOM	114.72	114.35	114.46	114.70	114.68	114.57	114.29	114.84	114.66	114.64	114.81	115.00

WTR YR 1996 HIGH 113.96 OCT 27

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	114.47	114.93	114.67	114.96	115.12	114.77	114.89	114.82	114.74	114.69	114.82	114.77
10	114.71	114.54	114.78	114.70	114.45	115.33	114.76	114.72	114.54	114.84	114.85	114.73
15	114.44	114.63	114.71	114.89	114.46	114.56	114.65	114.88	114.72	114.59	114.75	114.58
20	114.53	114.72	114.55	114.83	114.44	114.33	114.44	114.41	114.57	114.75	114.89	114.87
25	114.70	114.84	114.58	114.72	114.61	114.58	114.58	114.87	114.80	114.65	114.90	115.00
EOM	114.79	114.69	114.70	114.77	114.78	114.70	114.37	114.90	114.72	114.68	114.86	115.10

WTR YR 1996 LOW 115.33 MAR 10

NOBLE COUNTY

412405085154504. Local number, NO 14.
LOCATION.--Lat 41°24'05", long 85°15'45", in NW¼NE¼SW¼ sec.16, T.34 N., R.11 E., Noble County, Hydrologic Unit 04100003, on the property of Ron Karst on the south side of County Road 350 North, 0.6 mi west of State Highway 3 and about 22 mi north of Fort Wayne.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 145 ft, cased to 140 ft, screened to 145 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,037.24 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.21 ft below land-surface datum, Dec. 15, 1987; lowest, 114.39 ft below land-surface datum, Mar. 10, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	112.95	113.73	113.25	113.79	113.86	113.29	113.79	113.65	113.60	113.62	113.74	113.67
10	113.55	113.03	113.73	113.47	112.98	114.27	113.58	113.51	113.47	113.64	113.76	113.61
15	113.23	113.47	113.66	113.64	113.23	113.27	113.05	113.54	113.65	113.46	113.60	113.43
20	113.05	113.37	113.42	113.80	113.32	113.00	113.09	113.15	113.46	113.69	113.82	113.60
25	113.50	113.56	113.44	113.60	113.48	113.04	112.86	113.75	113.59	113.52	113.69	113.73
EOM	113.64	113.10	113.33	113.69	113.61	113.46	113.09	113.82	113.55	113.60	113.73	113.89

WTR YR 1996 HIGH 112.70 OCT 27

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.37	113.94	113.64	114.04	114.10	113.51	113.96	113.85	113.74	113.70	113.79	113.73
10	113.69	113.34	113.80	113.79	113.39	114.39	113.73	113.67	113.55	113.88	113.81	113.74
15	113.41	113.57	113.76	114.00	113.51	113.47	113.48	113.78	113.70	113.60	113.72	113.52
20	113.34	113.60	113.56	113.97	113.43	113.35	113.53	113.32	113.56	113.78	113.86	113.72
25	113.71	113.76	113.58	113.88	113.64	113.76	113.38	113.90	113.83	113.65	113.85	113.84
EOM	113.77	113.67	113.57	113.79	113.82	113.66	113.34	113.90	113.61	113.64	113.79	113.96

WTR YR 1996 LOW 114.39 MAR 10

PARKE COUNTY

393619087043001. Local number, PA 6.
LOCATION.--Lat 39°36'19", long 87°04'30", in SE¼SW¼SE¼ sec.33, T.14 N., R.6 W., Parke County, Hydrologic Unit 05120111, on county right-of-way on north side of road at the Parke-Clay county line, 1.7 mi east of Carbon, 2.6 mi east of State Highway 59, and 6.2 mi north of Brazil.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 155 ft, cased to 46 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 703.24 ft above sea level. Measuring point: Top of casing, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to August 1971, October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.53 ft below land-surface datum, Apr. 19, 1970; lowest, 16.87 ft below land-surface datum, Oct. 30, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.27	15.67	15.39	15.34	14.76	14.25	13.83	13.48	13.30	13.86	14.45	15.12
10	15.51	15.46	15.55	15.18	14.50	14.46	13.75	13.40	13.20	14.02	14.65	15.23
15	15.50	15.53	15.57	15.11	14.52	14.07	13.59	13.30	13.27	14.03	14.73	15.30
20	15.47	15.48	15.46	14.96	14.46	13.91	13.55	13.26	13.24	14.17	14.88	15.29
25	15.59	15.47	15.44	14.81	14.50	13.85	13.45	13.35	13.36	14.19	14.92	15.37
EOM	15.62	15.39	15.25	14.84	14.53	13.80	13.46	13.34	13.63	14.33	15.05	15.43

WTR YR 1996 HIGH 13.19 JUN 11

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.36	15.78	15.58	15.39	14.87	14.40	13.92	13.53	13.36	13.93	14.49	15.15
10	15.56	15.56	15.60	15.23	14.59	14.51	13.79	13.44	13.24	14.11	14.69	15.30
15	15.53	15.56	15.61	15.17	14.59	14.17	13.71	13.41	13.33	14.12	14.78	15.33
20	15.53	15.55	15.52	15.08	14.51	13.99	13.70	13.32	13.31	14.21	14.92	15.34
25	15.70	15.57	15.48	14.91	14.57	14.07	13.55	13.42	13.44	14.23	14.99	15.42
EOM	15.68	15.52	15.36	14.88	14.60	13.88	13.53	13.42	13.73	14.38	15.08	15.47

WTR YR 1996 LOW 15.78 NOV 4

POSEY COUNTY

380758087551001. Local number, PY 3.
LOCATION.--Lat 38°07'58", long 87°55'10", in NW¼NW¼SW¼ sec.31, T.4 S., R.13 W., Posey County, Hydrologic Unit 05120113, on property of the New Harmony Park Board, at the east edge of New Harmony.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 58 ft, cased to 54ft, screened to 56 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 380.55 (revised) ft above sea level. Measuring point: Top of floor of shelt 3.00 ft 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, 4.95 ft below land-surface datum, May 14, 1983; lowest, 21.40 ft below land-surface datum, Nov. 4, 8-15, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.21	19.28	19.81	20.14	17.94	18.42	16.27	7.19	8.57	10.93	13.72	16.18
10	18.46	19.39	19.93	20.19	17.66	18.33	16.18	5.35	7.23	11.73	14.23	16.51
15	18.61	19.45	20.04	20.24	17.91	18.26	16.28	5.04	7.91	12.28	14.67	16.81
20	18.78	19.53	20.05	20.10	18.14	18.20	16.55	6.00	8.42	12.85	15.07	17.01
25	18.96	19.61	20.08	19.45	18.40	17.76	15.31	7.62	9.25	13.19	15.47	17.21
EOM	19.13	19.71	20.06	18.22	18.52	16.85	9.85	8.61	10.06	13.34	15.87	17.34

WTR YR 1996 HIGH 5.04 MAY 14

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.25	19.30	19.84	20.16	18.01	18.48	16.37	8.05	8.71	11.11	13.80	16.24
10	18.50	19.40	19.95	20.21	17.71	18.36	16.22	5.50	7.28	11.88	14.30	16.58
15	18.65	19.47	20.08	20.25	17.96	18.27	16.43	5.25	8.04	12.45	14.76	16.85
20	18.81	19.54	20.07	20.16	18.20	18.24	16.59	6.26	8.58	12.95	15.15	17.05
25	18.98	19.62	20.08	19.64	18.42	17.89	15.56	7.87	9.48	13.24	15.54	17.25
EOM	19.16	19.72	20.07	18.38	18.53	16.97	10.09	8.72	10.21	13.40	15.93	17.36

WTR YR 1996 LOW 20.25 JAN 15

POSEY COUNTY

380546087474301. Local number, PY 5.
LOCATION.--Lat 38°05'46", long 87°47'43", in NE¼NW¼NE¼ sec. 18, T.5S., R.12W., Posey County, Hydrologic Unit 05120113, about 0.5 mi southwest of Wadesville along the west edge of Laurel Hill Cemetary.
Owner: U.S. Geological Survey

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 221 ft, cased to 160 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 460.60 ft above sea level. Measuring point: Top of casing, 3.60 ft above land-surface datum.

REMARKS.--Well record may be affected by pumpage.

PERIOD OF RECORD.--September 1988 to current year.

REVISED RECORDS.--WDR IN 94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.83 ft below land-surface datum, Mar. 27, 1991; lowest, 147.32 ft below land-surface datum, Oct. 12, 1995.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.44	143.78	142.66	142.40	141.16	140.02	139.14	138.43	---	141.78	143.07	143.86
10	145.85	143.13	142.84	142.22	140.66	140.21	139.14	138.12	---	142.44	143.65	143.75
15	145.54	142.89	143.30	142.14	140.46	139.63	139.17	137.88	---	142.83	143.79	143.79
20	145.34	142.71	142.77	141.64	140.29	139.60	138.65	138.14	---	142.52	144.80	143.72
25	144.98	142.62	142.54	141.22	140.25	139.60	138.53	139.46	139.86	142.59	144.99	144.07
EOM	144.16	142.47	142.39	141.02	140.23	139.01	138.44	---	141.39	142.78	144.46	143.63

WTR YR 1996 HIGH 137.85 MAY 17

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.91	143.93	142.91	142.59	141.36	140.55	139.25	138.56	---	142.47	143.28	144.06
10	146.26	143.62	143.08	142.31	140.86	140.40	139.64	138.34	---	142.92	144.53	144.02
15	145.81	143.06	143.41	142.31	140.61	139.77	139.55	138.05	---	143.68	144.23	144.03
20	145.80	143.00	143.01	141.87	140.45	139.71	139.24	138.43	---	142.79	145.08	144.03
25	146.16	142.78	142.65	141.47	140.94	139.74	138.82	140.78	140.29	143.82	145.40	144.41
EOM	144.45	142.72	142.53	141.21	140.43	139.27	138.59	---	141.77	143.27	144.65	144.14

WTR YR 1996 LOW 147.32 OCT 12

PULASKI COUNTY

405916086530701. Local number, PU 6.
LOCATION.--Lat 40°59'16", long 86°53'07", in NW¼SE¼SW¼ sec.4, T.29 N., R.4 W., Pulaski County, Hydrologic Unit 05120106, on private property at the north edge of Francesville.
Owner: Earl Overmeyer.

AQUIFER.--Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 in., depth 663 ft, cased to 11 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 678.60 ft above sea level. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumpage and earthquakes.

PERIOD OF RECORD.--July 1956 to February 1971, January 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.03 ft below land-surface datum, June 15, 1958; lowest, 27.91 ft below land-surface datum, Apr. 5, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.68	25.19	25.34	26.62	26.65	26.64	27.46	23.59	16.83	16.91	14.46	17.43
10	23.74	24.90	25.72	26.58	26.38	27.18	27.37	22.26	16.83	17.76	15.12	17.84
15	24.16	25.06	25.91	26.89	26.70	26.89	27.05	20.79	16.48	18.05	15.57	17.84
20	24.44	25.07	25.88	26.91	26.68	26.97	27.08	19.54	15.52	15.71	16.36	18.31
25	24.91	25.10	25.96	26.62	27.02	26.92	24.68	19.16	15.76	14.13	16.57	18.69
EOM	25.09	25.15	26.03	26.59	27.08	27.00	23.84	17.28	16.09	14.09	16.88	18.86

WTR YR 1996 HIGH 13.96 AUG 1

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.94	25.43	25.89	26.80	26.92	27.07	27.91	24.10	17.05	17.16	14.80	17.65
10	25.70	25.15	25.99	26.80	26.74	27.41	27.51	22.56	16.99	18.23	15.30	18.13
15	24.32	25.27	26.11	27.13	27.10	27.34	27.54	21.27	16.81	18.38	15.94	18.12
20	24.73	25.27	26.20	27.21	27.00	27.41	27.63	19.78	15.75	16.23	16.54	18.53
25	25.18	25.45	26.28	27.05	27.25	27.68	25.16	19.42	16.14	14.27	16.70	19.00
EOM	25.27	25.51	26.37	26.80	27.35	27.48	24.06	17.55	16.55	14.41	17.17	19.10

WTR YR 1996 LOW 27.91 APR 5

PULASKI COUNTY

410739086365201. Local number, PU 7.
LOCATION.--Lat 41°07'39", long 86°36'52", in NE¼NE¼NW¼ sec.23, T.31 N., R.2 W., Pulaski County, Hydrologic Unit 05120106, in the Winamac State Fish and Game Area, 0.8 mi southwest of Beardstown.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 105 ft, cased to 98 ft, screened to 100 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 715.26 ft above sea level. Measuring point: Top of floor of shelter, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1967 to September 1971, September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.69 ft below land-surface datum, June 15, 1981; lowest, 11.86 ft below land-surface datum, Nov. 6-9, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.95	11.22	---	---	10.97	11.02	10.96	9.70	8.19	8.32	7.75	9.49
10	11.05	11.19	---	---	10.95	11.09	10.96	9.50	7.82	8.67	8.10	9.46
15	11.10	10.89	---	---	11.01	11.01	10.97	9.23	7.64	8.98	8.39	9.47
20	11.11	10.73	---	---	11.06	10.99	10.91	9.21	6.90	7.47	8.68	9.59
25	11.21	10.67	---	---	11.11	10.92	10.12	9.03	7.40	7.07	8.87	9.71
EOM	11.24	10.62	---	---	11.09	10.93	9.81	8.23	7.85	7.33	9.15	9.66

WTR YR 1996 HIGH 6.89 JUN 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.98	11.26	---	---	11.01	11.08	11.00	9.76	8.22	8.39	7.84	9.61
10	11.07	11.24	---	---	10.99	11.11	10.97	9.59	8.05	8.75	8.19	9.48
15	11.13	10.95	---	---	11.06	11.05	11.02	9.28	7.72	9.19	8.45	9.49
20	11.16	10.76	---	---	11.08	11.02	10.97	9.28	6.97	7.53	8.75	9.61
25	11.25	10.70	---	---	11.12	11.02	10.26	9.14	7.51	7.17	8.89	9.73
EOM	11.26	10.68	---	---	11.13	10.97	9.83	8.30	7.96	7.38	9.23	9.68

WTR YR 1996 LOW 11.29 OCT 29

PULASKI COUNTY

405605086551701. Local number, PU 8.
LOCATION.--Lat 40°56'05", long 86°55'17", in SE¼SE¼NW¼ sec.30, T.29 N., R.4 W., Pulaski County, Hydrologic Unit 05120106, at the Arrowhead Country Resource Conservation and Development Office property, 11 mi east of Rensselaer on State Highway 114.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Middle Silurian Period, Wabash Formation.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 102 ft, cased to 12 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 683.76 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.54 ft below land-surface datum, Oct. 17, 1994; lowest, 11.74 ft below land-surface datum, Aug. 25, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.97	6.69	7.24	6.32	---	5.17	3.38	3.24	4.45	3.13	4.70
10	8.78	7.85	6.97	7.22	---	---	5.09	2.48	2.04	4.99	3.16	4.51
15	8.85	6.97	6.78	7.36	---	5.58	4.93	3.49	2.92	5.28	3.68	4.53
20	8.92	6.78	6.73	6.58	---	5.57	3.92	3.94	2.55	1.73	3.87	4.99
25	9.00	6.75	6.85	6.12	---	4.98	2.97	3.62	3.41	2.14	4.04	5.12
EOM	8.77	6.59	6.87	6.18	---	5.17	3.26	2.96	3.77	1.62	4.42	4.70

WTR YR 1996 HIGH 1.20 JUL 21

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	8.06	7.01	7.33	6.43	---	5.32	3.94	3.31	4.51	3.30	4.74
10	8.81	7.91	7.04	7.35	---	---	5.17	2.80	2.68	5.12	3.30	4.55
15	8.87	7.07	6.83	7.57	---	5.71	5.09	3.60	3.11	5.38	3.79	4.61
20	8.95	6.87	6.79	6.72	---	5.69	4.38	4.10	2.80	2.27	4.06	5.00
25	9.02	6.85	6.96	6.40	---	5.35	3.14	3.76	3.52	2.59	4.11	5.13
EOM	8.90	6.89	6.95	6.28	---	5.31	3.47	3.15	3.89	2.10	4.45	4.74

WTR YR 1996 LOW 9.02 OCT 25

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 north of Farmland.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 54 ft, cased to 33 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 969.67 ft above sea level. Measuring point: Top of floor of shelter, 3.85 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.68 ft below land-surface datum, Dec. 30, 1990; lowest, 15.18 ft below land-surface datum, Oct. 12, 13, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.19	13.49	12.60	12.59	11.34	10.67	10.20	8.98	9.67	11.51	11.54	13.23
10	13.41	13.08	12.92	12.34	11.22	11.06	10.48	8.57	8.91	11.87	11.94	13.24
15	13.42	12.84	12.85	12.36	11.47	10.84	10.35	9.10	9.50	11.96	12.21	13.22
20	13.32	12.50	12.78	10.71	11.72	10.31	10.40	9.39	10.13	10.88	12.65	13.18
25	13.54	12.56	12.74	10.36	11.53	9.32	9.21	10.16	10.75	10.90	12.70	13.35
EOM	13.56	12.49	12.64	10.71	10.59	9.96	8.64	9.34	11.16	11.13	12.97	13.21

WTR YR 1996 HIGH 8.50 MAY 11

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.49	13.64	12.85	12.66	11.46	10.77	10.31	9.18	9.76	11.57	11.67	13.28
10	13.48	13.20	12.94	12.47	11.40	11.14	10.53	9.00	9.00	12.01	12.00	13.29
15	13.53	12.88	12.90	12.50	11.63	10.95	10.52	9.21	9.71	12.11	12.36	13.34
20	13.48	12.57	12.84	10.83	11.75	10.65	10.56	9.55	10.21	10.92	12.81	13.22
25	13.69	12.67	12.84	10.48	11.72	9.77	9.34	10.24	10.90	11.08	12.76	13.42
EOM	13.63	12.72	12.74	10.89	10.66	10.09	8.98	9.46	11.31	11.20	13.01	13.27

WTR YR 1996 LOW 13.74 OCT 29

ST. JOSEPH COUNTY

413120086055601. Local number, SJ 31.
LOCATION.--Lat 41°31'20", long 86°05'56", in SW¼SW¼SW¼ sec.31, T.36 N., R.4 E., St. Joseph County, Hydrologic Unit 07120001, 4 mi west of Wakarusa.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 109 ft, cased to 104 ft, screened to 109 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 830.50 ft above sea level. Measuring point: Top of casing, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.71 ft below land-surface datum, Jan. 23, 1991; lowest, 12.64 ft below land-surface datum, Oct. 6,7, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.09	11.36	10.48	10.37	10.39	10.10	10.09	9.56	9.20	9.48	10.08	10.90
10	11.28	10.98	10.60	10.35	10.22	10.28	10.09	9.39	8.98	9.83	10.22	10.99
15	11.29	10.74	10.55	10.42	10.22	10.07	10.00	9.34	9.00	10.31	10.41	11.04
20	11.31	10.58	10.42	10.39	10.28	9.92	9.88	9.12	8.90	10.26	10.61	11.21
25	11.47	10.55	10.42	10.27	10.37	9.92	9.57	9.27	9.01	10.10	10.64	11.17
EOM	11.48	10.42	10.38	10.27	10.27	10.03	9.48	9.22	9.23	10.02	10.75	11.10

WTR YR 1996 HIGH 8.86 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.14	11.41	10.55	10.46	10.43	10.19	10.14	9.59	9.25	9.56	10.11	10.95
10	11.31	11.15	10.66	10.42	10.27	10.32	10.11	9.47	9.03	10.06	10.30	11.05
15	11.33	10.80	10.58	10.51	10.29	10.12	10.10	9.41	9.04	10.37	10.52	11.07
20	11.42	10.65	10.50	10.42	10.30	9.97	9.95	9.16	8.94	10.28	10.67	11.26
25	11.50	10.59	10.45	10.30	10.40	10.02	9.71	9.30	9.10	10.13	10.67	11.22
EOM	11.51	10.54	10.45	10.30	10.31	10.07	9.52	9.26	9.29	10.05	10.79	11.12

WTR YR 1996 LOW 11.54 OCT 30

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 south of Carrollton.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 150 ft, cased to 128 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 816.10 ft above sea level. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.90 ft below land-surface datum, May 27, 1968; lowest, 22.65 ft below land-surface datum, Feb. 7, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.19	21.64	21.36	20.73	19.40	19.30	17.98	16.26	17.61	18.90	19.67	20.43
10	21.44	21.35	21.59	20.58	19.33	19.15	18.50	16.51	17.27	19.24	19.96	20.63
15	21.42	21.04	21.54	20.73	19.48	18.96	18.77	16.66	17.47	19.46	19.96	20.72
20	21.43	21.05	21.05	18.91	19.75	18.63	18.86	16.96	17.56	19.44	19.68	20.46
25	21.63	21.21	20.83	18.46	19.88	17.97	17.41	17.87	18.03	19.18	19.95	20.30
EOM	21.70	21.26	20.88	18.86	19.47	18.37	16.58	16.88	18.49	19.39	20.21	19.51

WTR YR 1996 HIGH 16.26 MAY 5

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.31	21.70	21.48	20.78	19.45	19.46	18.12	16.36	17.76	18.98	19.74	20.49
10	21.47	21.43	21.62	20.67	19.43	19.19	18.56	16.59	17.31	19.37	20.02	20.68
15	21.48	21.07	21.62	20.87	19.62	19.06	18.89	17.00	17.57	19.59	20.19	20.78
20	21.52	21.11	21.21	18.99	19.82	18.73	18.98	17.14	17.63	19.48	19.76	20.49
25	21.70	21.29	20.88	18.55	19.95	18.19	17.62	17.95	18.16	19.23	20.00	20.36
EOM	21.75	21.37	20.97	18.98	19.65	18.40	16.64	17.04	18.60	19.45	20.25	19.53

WTR YR 1996 LOW 21.77 OCT 29

STARKE COUNTY

411342086365601. Local number, SK 2.
LOCATION.--Lat 41°13'42", long 86°36'56", in 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, and 5.0 mi south of Knox.
Owner: Samuel A. Craigmile.

AQUIFER.--Gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 85 ft, cased to 77 ft, screened to 85 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 712.97 ft above sea level. Measuring point: Top of floor of shelter, 3.00 ft 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 below land-surface datum, June 17, 1949; lowest, 6.99 ft below land-surface datum, Aug. 2, 1939, Sept. 17, 18, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.92	5.84	5.56	5.94	5.94	5.65	5.85	5.15	4.11	4.79	4.19	5.38
10	5.97	5.83	5.67	5.97	5.94	5.71	5.89	4.74	3.49	5.02	4.48	5.40
15	6.01	5.28	5.69	5.99	5.99	5.61	5.86	4.91	3.82	5.05	4.75	5.31
20	6.05	5.29	5.73	5.79	6.02	5.66	5.48	5.06	3.49	3.04	4.97	5.34
25	6.16	5.42	5.80	5.81	6.02	5.69	4.98	5.11	4.16	3.46	4.96	5.30
EOM	5.99	5.45	5.85	5.88	5.62	5.78	4.99	4.08	4.52	3.49	5.17	5.05

WTR YR 1996 HIGH 2.85 JUL 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.95	5.85	5.63	5.95	5.97	5.70	5.87	5.22	4.19	4.84	4.29	5.41
10	5.99	5.90	5.68	5.98	5.96	5.73	5.90	4.99	3.72	5.07	4.55	5.41
15	6.01	5.29	5.70	6.02	6.02	5.64	5.91	4.95	3.97	5.21	4.82	5.33
20	6.13	5.32	5.75	5.81	6.03	5.70	5.69	5.09	3.66	3.32	5.01	5.35
25	6.18	5.44	5.82	5.84	6.04	5.78	5.01	5.12	4.27	3.66	5.01	5.32
EOM	6.11	5.48	5.87	5.90	5.64	5.81	5.06	4.20	4.59	3.66	5.19	5.06

WTR YR 1996 LOW 6.18 OCT 24

STEUBEN COUNTY

414204085054002. Local number, SB 6.
LOCATION.--Lat 41°42'04", long 85°05'40", in SE¼SE¼SW¼ sec.36, T.38 N., R.12 W., Steuben County, Hydrologic Unit 04050001, 0.5 east of Panama on the north side of the Lake Gage Congregational Church.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 76 ft, cased to 71 ft, screened to 76 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 987.89 ft above sea level. Measuring point: Top of casing, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to current year.

REVISED RECORDS.--WDR IN-91-1: 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.68 ft below land-surface datum, July 1, 1993; lowest, 19.30 ft below land-surface datum, March 1, 2, 1995.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.57	18.83	18.69	18.93	18.89	18.84	18.84	18.41	16.86	15.46	15.48	15.83
10	18.71	18.78	18.75	18.97	18.85	18.92	18.83	18.26	16.70	15.45	15.55	15.89
15	18.74	18.77	18.79	19.00	18.89	18.84	18.76	18.02	16.55	15.37	15.59	15.94
20	18.74	18.72	18.77	18.97	18.91	18.83	18.75	17.53	16.00	15.41	15.58	16.02
25	18.83	18.71	18.80	18.89	18.93	18.82	18.58	17.24	15.69	15.39	15.67	16.10
EOM	18.86	18.67	18.81	18.88	18.90	18.82	18.47	17.00	15.52	15.41	15.75	16.19

WTR YR 1996 HIGH 15.34 JUL 29

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.66	18.87	18.79	18.95	18.96	18.90	18.90	18.47	16.91	15.51	15.50	15.86
10	18.74	18.82	18.78	18.99	18.89	18.95	18.85	18.32	16.74	15.50	15.58	15.93
15	18.78	18.79	18.80	19.06	18.94	18.91	18.84	18.08	16.59	15.42	15.64	15.98
20	18.79	18.76	18.81	19.04	18.94	18.90	18.85	17.63	16.11	15.43	15.70	16.05
25	18.88	18.75	18.84	18.97	18.95	18.93	18.63	17.31	15.75	15.42	15.70	16.14
EOM	18.87	18.74	18.86	18.91	18.95	18.88	18.53	17.06	15.56	15.44	15.78	16.21

WTR YR 1996 LOW 19.06 JAN 15

TIPPECANOE COUNTY

402734087033401. Local number, TC 17.
LOCATION.--Lat 40°27'34", long 87°03'34", NW¼NE¼NE¼ sec.11, T.23 N., R.6 W., Tippecanoe County, Hydrologic Unit 05120108, on the property of Purdue University and at the southeast corner of the intersection of County Roads 300 North and 825 West, about 3.0 mi southeast of Otterbein.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age (Teays Valley aquifer).

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 212.5 ft, cased to 207.5 ft, screened to 212.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 681 ft above sea level, from topographic map. Measuring point: Top of casing, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 110.98 ft below land-surface datum, October 2, 1989; lowest, 121.28 ft below land-surface datum, August 18, 1989.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.61	114.81	114.89	115.78	116.32	115.77	116.01	116.07	115.92	115.98	116.02	115.92
10	114.17	114.13	115.43	115.62	115.55	116.65	115.59	116.22	115.96	115.95	116.08	115.89
15	114.08	114.80	115.26	115.75	115.66	115.73	115.92	115.81	115.79	115.87	115.95	115.86
20	114.03	114.78	115.28	116.05	115.77	115.54	115.89	115.91	115.78	115.97	116.10	115.98
25	114.44	114.89	115.48	115.94	115.96	115.56	115.37	115.78	115.96	115.75	115.99	116.15
EOM	114.56	114.61	115.34	116.18	116.17	115.96	115.64	115.96	115.98	115.90	115.99	116.32

WTR YR 1996 HIGH 113.61 OCT 5

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.87	114.94	115.19	116.09	116.58	116.06	116.06	116.32	115.97	116.03	116.05	115.95
10	114.30	114.43	115.51	115.87	115.80	116.76	115.73	116.29	116.02	116.18	116.13	116.01
15	114.19	114.82	115.44	116.12	115.90	115.83	116.14	115.88	115.88	115.97	116.02	115.90
20	114.15	114.85	115.42	116.18	115.85	115.82	116.05	115.96	115.91	116.07	116.13	116.09
25	114.56	115.07	115.55	116.14	116.12	116.16	115.76	115.87	116.17	115.88	116.13	116.25
EOM	114.66	115.04	115.58	116.23	116.38	116.22	115.77	116.10	116.04	115.95	116.05	116.40

WTR YR 1996 LOW 116.76 MAR 10

TIPPECANOE COUNTY

402734087033402. Local number, TC 18.
LOCATION.--Lat 40°27'34", long 87°03'34", NW¼NE¼NE¼ sec.11, T.23 N., R.6 W., Tippecanoe County, Hydrologic Unit 05120108, on the property of Purdue University and at the southeast corner of the intersection of County Roads 300 North and 825 West, about 3.0 mi southeast of Otterbein.
Owner: U.S. Geological Survey

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 64 ft, cased to 59 ft, screened to 64 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 681 ft above sea level, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.67 ft below land-surface datum, Mar. 27, 1991; lowest, 22.54 ft below land-surface datum, Jan. 15, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.77	22.06	22.21	22.46	22.21	22.28	22.01	21.74	20.39	19.97	---	21.22
10	21.86	22.04	22.30	22.47	22.18	22.33	22.01	21.13	20.41	20.20	20.69	21.28
15	21.89	22.09	22.32	22.50	22.27	22.26	21.98	20.91	20.26	20.33	20.79	21.36
20	21.90	22.12	22.33	22.21	22.33	22.25	22.00	20.91	20.21	20.45	20.91	21.45
25	22.00	22.16	22.37	22.13	22.39	22.18	21.88	21.01	19.66	20.18	21.02	21.54
EOM	22.01	22.16	22.39	22.16	22.36	22.09	21.81	20.40	19.73	20.36	21.13	21.61

WTR YR 1996 HIGH 19.66 JUN 25

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.78	22.08	22.27	22.48	22.24	22.33	22.04	21.79	20.41	20.02	---	21.24
10	21.87	22.05	22.31	22.49	22.21	22.34	22.02	21.55	20.42	20.24	20.71	21.31
15	21.91	22.10	22.33	22.54	22.30	22.28	22.04	20.94	20.28	20.39	20.83	21.38
20	21.93	22.13	22.35	22.25	22.35	22.28	22.06	20.92	20.24	20.48	20.94	21.46
25	22.02	22.18	22.38	22.17	22.40	22.25	21.92	21.03	19.70	20.20	21.02	21.56
EOM	22.03	22.21	22.41	22.17	22.39	22.12	21.83	20.41	19.77	20.38	21.15	21.62

WTR YR 1996 LOW 22.54 JAN 15

VANDERBURGH COUNTY

380609087395901. 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 southwest of Armstrong.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 125 ft, cased to 80 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 446.57 ft above sea level. Measuring point: Top of floor of shelter, 3.40 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.88 ft below land-surface datum, Apr. 3, 4, 1968; lowest, 35.87 ft below land-surface datum, Nov. 14, 1994.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.49	35.21	35.11	35.20	34.85	34.25	34.09	33.62	33.84	34.69	34.68	35.03
10	34.91	34.89	35.42	35.06	34.40	34.82	34.02	33.51	33.56	34.62	34.86	35.06
15	34.98	35.04	35.18	35.08	34.45	34.27	33.71	33.47	33.70	34.57	34.99	34.97
20	35.02	35.00	35.10	35.24	34.31	34.03	33.67	33.59	33.70	34.50	35.02	34.95
25	35.16	35.08	35.15	35.01	34.52	33.92	33.73	33.86	34.15	34.49	35.14	34.91
EOM	35.15	35.07	35.05	34.84	34.56	33.91	33.44	33.82	34.31	34.55	35.05	34.95

WTR YR 1996 HIGH 33.41 MAY 1

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.62	35.39	35.39	35.35	35.02	34.49	34.17	33.74	33.97	35.11	34.80	35.09
10	35.08	35.07	35.48	35.15	34.58	34.89	34.06	33.63	33.63	34.69	35.02	35.15
15	35.05	35.09	35.25	35.32	34.53	34.43	33.93	33.61	34.05	34.78	35.08	35.08
20	35.17	35.14	35.23	35.43	34.43	34.20	34.23	33.78	33.79	34.62	35.14	35.03
25	35.37	35.24	35.27	35.23	34.59	34.25	33.92	33.96	34.17	34.59	35.21	35.04
EOM	35.23	35.23	35.28	34.95	34.67	34.11	33.53	33.92	34.45	34.66	35.17	35.03

WTR YR 1996 LOW 35.48 DEC 7

VANDERBURGH COUNTY

380626087344401. Local number, VA 7.
LOCATION.--Lat 38°06'26", long 87°34'44", in NE¼NW¼NW¼ sec.7, T.5 S., R.10 W., Vanderburgh County, Hydrologic Unit 05120113, on north side of Salem United Church of Christ 0.5 mi north of Darmstadt.
Owner: U.S. Geological Survey.

AQUIFER.--Inglefield Sandstone Member, Patoka Formation of Pennsylvanian Period.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 70 ft, cased to 39.3 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 475.35 ft above sea level. Measuring point: Top of floor of shelter, 4.04 ft above land-surface datum.

PERIOD OF RECORD.--June 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.93 ft below land-surface datum, Mar. 27, 1991; lowest, 25.06 ft below land-surface datum, Oct. 29, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.97	23.93	23.87	23.87	23.14	22.73	22.01	21.21	21.64	21.64	22.31	22.89
10	23.63	23.36	24.34	23.60	22.62	23.37	21.94	21.01	21.03	21.92	22.39	23.10
15	23.53	23.93	24.00	23.54	22.79	22.45	21.61	20.68	20.93	21.86	22.49	23.06
20	23.40	23.85	23.89	23.53	22.84	22.28	21.69	20.74	20.93	---	22.73	23.11
25	23.73	23.90	23.76	23.09	23.08	21.92	21.37	21.40	21.28	---	22.65	23.28
EOM	23.84	23.77	23.35	23.03	23.26	21.62	21.37	21.75	21.45	22.15	22.81	23.37

WTR YR 1996 HIGH 20.68 MAY 15

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.18	24.18	24.26	24.06	23.46	23.04	22.12	21.39	21.75	21.72	22.36	22.95
10	23.72	23.69	24.49	23.76	22.83	23.51	22.11	21.20	21.07	22.12	22.46	23.19
15	23.65	23.98	24.08	23.83	22.97	22.58	21.99	20.83	21.01	22.10	22.56	23.16
20	23.57	23.95	24.12	23.68	23.03	22.50	22.07	20.85	21.05	---	22.82	23.22
25	23.99	24.12	23.89	23.45	23.30	22.48	21.73	21.56	21.48	---	22.76	23.41
EOM	24.00	24.12	23.62	23.17	23.50	21.84	21.49	21.86	21.55	22.23	22.91	23.47

WTR YR 1996 LOW 24.49 DEC 10

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 Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 70 ft, cased to 67 ft, screened to 70 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 502 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.35 ft below land-surface datum, Dec. 13, 1993; lowest, 51.90 ft below land-surface datum, Sept. 29 to Oct. 1, 1972.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.53	46.01	46.14	46.68	45.95	46.16	45.89	44.83	40.73	40.29	41.51	43.34
10	45.66	46.04	46.23	46.75	45.93	46.09	45.80	44.06	40.47	40.67	41.70	43.55
15	45.76	46.04	46.32	46.83	45.92	46.03	45.82	43.14	40.31	41.11	42.07	43.76
20	45.84	46.02	46.44	46.86	45.96	46.08	45.89	42.24	40.04	41.55	42.47	43.96
25	45.90	46.03	46.52	46.61	46.09	46.17	45.84	41.81	39.97	41.71	42.79	44.18
EOM	45.97	46.07	46.61	46.20	46.17	46.04	45.51	41.30	40.00	41.46	43.11	44.35

WTR YR 1996 HIGH 39.96 JUN 24

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.56	46.02	46.16	46.70	45.99	46.19	45.92	44.99	40.82	40.36	41.53	43.39
10	45.68	46.05	46.25	46.77	45.94	46.11	45.81	44.21	40.49	40.77	41.77	43.59
15	45.78	46.05	46.35	46.85	45.93	46.04	45.84	43.35	40.36	41.20	42.16	43.81
20	45.85	46.03	46.45	46.87	45.98	46.10	45.92	42.39	40.07	41.64	42.55	44.00
25	45.91	46.04	46.53	46.68	46.10	46.19	45.87	41.87	39.99	41.74	42.85	44.22
EOM	45.98	46.08	46.63	46.27	46.19	46.09	45.60	41.41	40.04	41.47	43.16	44.39

WTR YR 1996 LOW 46.89 JAN 18

WABASH COUNTY

404424085422801. Local number, WB 3.
LOCATION.--Lat 40°44'24", long 85°42'28", in SE¼SE¼SW¼ sec.35, T.27 N., R.7 E., Wabash County, Hydrologic Unit 05120101, on State Highway 124, 3.5 mi west of the county line and in the southwest corner of United Telephone Company property.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 105 ft, cased to 100 ft, screened to 105 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 850.45 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to current year.

REVISED RECORDS.--WDR IN-94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.85 ft below land-surface datum, Mar. 27, 1991 and Apr. 1, 1993; lowest, 49.66 ft below land-surface datum, Mar. 10, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.45	48.37	48.37	48.76	49.45	49.05	48.40	47.34	46.52	---	46.44	46.79
10	47.83	48.09	48.73	48.62	48.92	49.58	48.28	47.17	46.35	---	46.66	46.78
15	47.78	48.32	48.60	48.70	48.97	48.96	47.81	46.97	46.22	46.53	46.64	46.85
20	47.76	48.33	48.52	48.72	49.05	48.73	47.70	46.84	46.17	46.42	46.88	46.68
25	48.10	48.43	48.54	48.68	49.15	48.81	47.48	46.98	46.23	46.26	46.80	46.63
EOM	48.16	48.27	48.53	49.04	49.27	48.54	47.42	46.76	---	46.29	46.77	46.57

WTR YR 1996 HIGH 46.15 JUN 18

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.72	48.42	48.55	48.91	49.56	49.30	48.50	47.40	46.60	---	46.50	46.84
10	47.95	48.25	48.77	48.78	49.07	49.66	48.33	47.33	46.37	---	46.68	46.88
15	47.87	48.37	48.66	48.96	49.11	49.07	48.07	47.16	46.25	46.58	46.68	46.93
20	47.92	48.45	48.58	48.79	49.09	48.90	47.86	46.87	46.23	46.46	46.94	46.75
25	48.14	48.54	48.60	48.91	49.18	49.04	47.83	47.02	46.33	46.26	46.87	46.73
EOM	48.20	48.50	48.70	49.15	49.32	48.80	47.52	46.78	---	46.33	46.82	46.63

WTR YR 1996 LOW 49.66 MAR 10

WABASH COUNTY

403948085414601. Local number, WB 4.
LOCATION.--Lat 40°39'48", long 85°41'46", in NE¼SE¼NE¼ sec. 35, T.26N., R.7E., Wabash County, Hydrologic Unit 05120103, on America Road, 1.3 mi southeast of La Fountaine.
Owner: U.S. Geological Survey

AQUIFER.--Sand and gravel of the Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 118 ft, cased to 113 ft, screened to 118 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 837.40 ft above sea level. Measuring point: Top of casing, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft below land-surface datum, Nov. 5, 1988; lowest, 46.90 ft below land-surface datum, Feb. 4, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.32	46.25	46.13	46.66	46.67	46.01	46.00	45.82	45.53	45.39	45.44	45.57
10	45.83	45.76	46.53	46.47	46.08	46.69	45.93	45.65	45.36	45.40	45.46	45.57
15	45.67	46.13	46.37	46.59	46.20	45.89	45.60	45.61	45.47	45.27	45.40	45.51
20	45.62	46.12	46.29	46.76	46.24	45.68	45.57	45.35	45.32	45.35	45.61	45.63
25	45.97	46.24	46.39	46.54	46.28	45.72	45.38	45.72	45.38	45.28	45.53	45.79
EOM	46.08	46.00	46.29	46.57	46.39	45.84	45.51	45.74	45.39	45.33	45.55	45.90

WTR YR 1996 HIGH 45.16 JUL 8

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.59	46.37	46.37	46.87	46.87	46.25	46.16	45.93	45.63	45.44	45.47	45.61
10	45.91	45.99	46.57	46.70	46.31	46.78	46.03	45.76	45.42	45.59	45.52	45.67
15	45.78	46.18	46.46	46.88	46.39	46.00	45.88	45.81	45.51	45.40	45.49	45.57
20	45.76	46.23	46.40	46.86	46.29	45.94	45.85	45.46	45.39	45.46	45.66	45.72
25	46.09	46.40	46.47	46.72	46.42	46.16	45.75	45.84	45.56	45.37	45.64	45.87
EOM	46.15	46.35	46.48	46.64	46.53	45.93	45.66	45.81	45.45	45.38	45.61	45.99

WTR YR 1996 LOW 46.90 FEB 4

WARRICK COUNTY

380624087164801. Local number, WK 4.
LOCATION.--Lat 38°06'24", long 87°16'48", in SE¼SW¼SW¼ sec.2, T.5 S., R.8 W., Warrick County, Hydrologic Unit 05140201, on State Highway 61, 4.2 mi north of Boonville.
Owner: U.S. Geological Survey.

AQUIFER.--Sandstone from lower Dugger Formation of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 105 ft, cased to 30 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 446.18 ft above sea level. Measuring point: Top of floor of shelter, 4.09 ft above land-surface datum.

PERIOD OF RECORD.--June 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.91 ft below land-surface datum, Apr. 29, 1996; lowest, 18.20 ft below land-surface datum, Oct. 30, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.25	12.93	13.13	12.02	10.22	9.83	8.73	8.46	9.17	9.60	10.51	11.59
10	12.48	12.86	13.29	11.74	10.22	9.72	8.94	7.37	8.46	9.97	10.68	11.23
15	12.59	12.88	13.21	11.48	10.26	9.54	8.94	8.34	8.50	10.16	10.91	11.07
20	12.66	12.92	12.80	10.79	10.26	8.98	8.93	8.62	8.67	10.14	11.14	10.67
25	12.79	13.02	12.44	10.24	10.30	8.73	8.68	9.07	8.94	10.13	11.36	10.41
EOM	12.85	13.06	12.23	10.05	10.09	8.66	---	9.33	9.32	10.40	11.47	9.89

WTR YR 1996 HIGH 7.03 APR 28

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.30	12.95	13.22	12.04	10.24	9.97	8.77	8.52	9.18	9.70	10.52	11.61
10	12.51	12.91	13.32	11.77	10.25	9.75	8.99	8.46	8.54	10.07	10.72	11.27
15	12.63	12.90	13.27	11.52	10.28	9.63	8.98	8.38	8.56	10.19	10.94	11.13
20	12.72	12.94	12.89	10.89	10.29	9.05	8.97	8.69	8.73	10.16	11.19	10.72
25	12.81	13.03	12.49	10.35	10.31	8.78	8.74	9.15	9.04	10.18	11.38	10.43
EOM	12.87	13.09	12.31	10.07	10.18	8.75	---	9.36	9.38	10.44	11.49	9.95

WTR YR 1996 LOW 13.32 DEC 10

WASHINGTON COUNTY

383012086124501. Local number, WA 2.
LOCATION.--Lat 38°30'12", long 86°12'45", IN NE¼SW¼SW¼ sec.20, T.1 N., R.3 E., Washington County, Hydrologic Unit 05140104, on West Washington School Road, 5.1 mi north of Fredericksburg.
Owner: U.S. Geological Survey.

AQUIFER.--Limestone of Mississippian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 142.5 ft, cased to 101 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 780 ft above sea level, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1989 to current year.

REVISED RECORDS.--WDR IN-94-1: 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.14 ft below land-surface datum, Apr. 30, 1996; lowest, 74.58 ft below land-surface datum, Jan. 3, 1993.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.13	73.37	73.20	72.86	71.97	72.22	71.55	67.94	70.62	71.49	72.65	72.95
10	73.15	73.25	73.32	72.81	71.81	72.33	71.53	67.15	69.78	71.83	72.70	72.81
15	73.17	73.14	73.33	72.89	72.02	72.23	71.39	68.49	70.30	71.87	72.77	72.86
20	73.14	73.12	73.06	72.28	72.15	71.98	71.13	69.32	70.64	72.04	72.83	72.72
25	73.26	73.23	73.11	71.85	72.24	71.08	70.60	69.96	71.02	72.20	72.83	72.69
EOM	73.26	73.19	72.88	71.99	72.31	71.61	61.14	70.29	71.34	72.79	72.88	72.33

WTR YR 1996 HIGH 61.14 APR 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.30	73.46	73.56	72.90	72.09	72.35	71.62	69.21	70.67	71.64	72.67	72.95
10	73.24	73.34	73.39	72.91	71.94	72.42	71.60	68.97	70.03	71.88	72.75	72.81
15	73.32	73.19	73.42	72.95	72.11	72.44	71.59	68.68	70.40	72.00	72.77	72.89
20	73.28	73.23	73.13	72.37	72.33	72.11	71.50	69.48	70.73	72.10	72.84	72.72
25	73.42	73.32	73.27	71.93	72.34	71.35	70.78	70.03	71.54	72.24	72.86	72.69
EOM	73.35	73.32	73.02	72.05	72.37	71.74	61.80	70.42	71.45	72.95	72.92	72.33

WTR YR 1996 LOW 73.59 NOV 7

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, 750 ft east of State Highway 1, and 4.0 mi 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., depth 49 ft, cased to 47 ft, screened to 49 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 888 ft above sea level, from topographic map. Measuring point: Top of collar in shelter, 3.60 ft above land-surface datum.

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

REVISED RECORDS.--WDR IN-81-1: 1980.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.09 ft below land-surface datum, May 8 and 9, 1996; lowest, 21.68 ft below land-surface datum, Feb. 1, 1977.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.39	18.15	17.95	18.04	14.06	14.85	13.34	8.38	10.08	11.45	12.75	14.13
10	17.55	18.21	18.05	18.01	14.20	14.72	13.34	7.28	8.88	11.82	12.94	14.41
15	17.64	18.07	18.14	17.99	14.38	14.64	13.46	7.89	9.03	12.10	13.17	14.69
20	17.77	17.95	18.21	16.74	14.57	14.51	13.39	8.57	9.78	12.33	13.35	14.84
25	17.88	17.91	18.12	14.93	14.79	13.97	11.84	9.64	10.46	12.48	13.56	14.94
EOM	18.03	17.89	18.05	14.10	14.86	13.57	9.38	9.37	11.04	12.63	13.87	15.02

WTR YR 1996 HIGH 7.09 MAY 8

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.45	18.16	17.98	18.04	14.09	14.86	13.36	8.59	10.22	11.53	12.78	14.19
10	17.57	18.22	18.06	18.01	14.23	14.75	13.36	7.48	9.30	11.88	12.99	14.47
15	17.67	18.10	18.16	17.99	14.42	14.65	13.50	8.28	9.15	12.15	13.21	14.74
20	17.79	17.97	18.22	17.13	14.62	14.58	13.62	8.79	9.95	12.37	13.39	14.86
25	17.91	17.91	18.14	15.30	14.82	14.10	12.06	9.79	10.59	12.51	13.62	14.97
EOM	18.06	17.89	18.06	14.16	14.89	13.61	9.95	9.52	11.13	12.65	13.92	15.02

WTR YR 1996 LOW 18.22 NOV 10

WELLS COUNTY

404331085064701. Local number, WL 4.
LOCATION.--Lat 40°43'31", long 85°06'47", in SE¼NW¼NE¼ sec.12, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, 3.5 mi southeast of Bluffton on Hwy 316 to entrance of Quabache State Park.
Owner: U.S. Geological Survey.

AQUIFER.--Silty dolomite of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 79 ft, cased to 46 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 826.04 ft above sea level. Measuring point: Top of floor of shelter, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to current year. (Semi-annual tape-down readings only September 1971 to December 1981.)

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.70 ft below land-surface datum, Apr. 4, 1973; lowest, 25.21 ft below land-surface datum, Sept. 24, 1988.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.03	24.45	24.33	24.82	23.69	23.16	23.25	22.03	21.42	22.85	23.14	24.07
10	24.20	24.22	24.65	24.71	23.31	23.67	23.34	21.97	20.92	23.16	23.38	24.20
15	24.20	24.28	24.62	24.76	23.66	23.28	23.16	21.76	21.04	23.29	23.48	24.08
20	24.09	24.24	24.57	22.38	23.82	23.09	23.32	21.82	21.64	22.71	23.72	24.09
25	24.35	24.30	24.59	22.80	23.77	22.56	22.14	21.69	22.09	22.80	23.81	24.15
EOM	24.43	24.19	24.48	23.33	23.00	22.82	22.16	20.91	22.43	22.76	23.93	24.17

WTR YR 1996 HIGH 20.63 JUN 12

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.33	24.59	24.64	24.90	23.85	23.30	23.43	22.23	21.58	22.92	23.26	24.11
10	24.29	24.32	24.70	24.81	23.53	23.79	23.43	22.25	21.24	23.30	23.51	24.33
15	24.28	24.36	24.66	24.93	23.84	23.46	23.44	21.85	21.28	23.48	23.67	24.18
20	24.25	24.32	24.66	22.84	23.91	23.22	23.65	21.93	21.72	22.81	23.82	24.14
25	24.51	24.42	24.68	22.99	23.92	23.05	22.54	21.99	22.23	22.98	23.88	24.26
EOM	24.51	24.44	24.58	23.47	23.20	23.06	22.23	21.03	22.68	22.86	24.02	24.23

WTR YR 1996 LOW 24.93 JAN 15

WHITE COUNTY

404914086403001. Local number, WT 4.
LOCATION.--Lat 40°49'14", long 86°40'30", in NW¼SW¼NW¼ sec.5, T.27 N., R.2 E., White County, Hydrologic Unit 05120106, in the southwest corner of the Pious Chapel property, 4.25 mi north of Idaville.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in., depth 134 ft, cased to 129 ft, screened to 134 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 683.06 ft above sea level. Measuring point: Top of casing, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.65 ft below land-surface datum, Jan. 7, 1993; lowest, 13.66 ft below land-surface datum, Aug. 3, 1991.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.34	6.18	5.89	6.13	5.34	5.47	5.60	5.38	4.55	---	---	---
10	6.51	6.00	6.00	6.05	5.30	5.61	5.57	5.25	4.36	---	---	---
15	6.46	5.98	5.99	6.15	5.47	5.45	5.50	4.99	4.08	---	---	---
20	6.42	5.88	5.99	5.68	5.51	5.45	5.54	4.92	3.86	---	---	---
25	6.61	5.88	6.01	5.34	5.58	5.42	5.43	4.96	4.18	---	---	---
EOM	6.50	5.84	5.96	5.32	---	5.50	5.36	4.57	---	---	---	---

WTR YR 1996 HIGH 3.86 JUN 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.41	6.29	6.00	6.17	5.39	5.56	5.65	5.43	4.60	---	---	---
10	6.54	6.05	6.02	6.12	5.37	5.64	5.59	5.30	4.47	---	---	---
15	6.51	6.01	6.03	6.20	5.56	5.52	5.59	5.06	4.10	---	---	---
20	6.48	5.94	6.02	5.85	5.59	5.53	5.67	4.96	3.89	---	---	---
25	6.68	5.95	6.04	5.45	5.64	5.61	5.53	5.01	4.21	---	---	---
EOM	6.56	5.96	6.01	5.35	---	5.55	5.41	4.61	---	---	---	---

WTR YR 1996 LOW 6.68 OCT 24

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, and 0.75 mi north of Laud.
Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 191 ft, cased to 187 ft, screened to 191 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 870 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 2.68 ft 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 below land-surface datum, Mar. 27, 1976; lowest, 53.71 ft below land-surface datum, Mar. 10, 1996.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.67	53.21	53.12	53.40	53.48	53.21	53.44	53.24	52.76	52.64	52.48	52.57
10	53.03	52.96	53.37	53.30	53.07	53.65	53.38	53.20	52.53	52.64	52.50	52.58
15	52.98	53.13	53.32	53.38	53.17	53.21	53.12	53.13	52.57	52.60	52.44	52.52
20	52.93	53.11	53.19	53.44	53.21	53.09	53.10	52.84	52.47	52.56	52.52	52.63
25	53.09	53.18	53.22	53.37	53.31	53.13	53.02	53.01	52.55	52.47	52.44	52.67
EOM	53.16	53.08	53.16	53.41	53.38	53.28	53.04	52.96	52.56	52.39	52.49	52.76

WTR YR 1996 HIGH 52.38 JUL 30

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.90	53.34	53.38	53.52	53.64	53.36	53.54	53.39	52.86	52.68	52.52	52.63
10	53.14	53.10	53.44	53.39	53.21	53.71	53.44	53.26	52.63	52.78	52.58	52.69
15	53.06	53.21	53.37	53.53	53.37	53.37	53.32	53.31	52.66	52.72	52.53	52.60
20	53.04	53.24	53.29	53.53	53.30	53.25	53.33	52.95	52.53	52.63	52.57	52.74
25	53.23	53.33	53.31	53.50	53.37	53.46	53.20	53.11	52.65	52.55	52.55	52.80
EOM	53.23	53.31	53.30	53.49	53.46	53.40	53.18	53.08	52.70	52.48	52.56	52.82

WTR YR 1996 LOW 53.71 MAR 10

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